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**Department of Plant Pathology, University of Arkansas, Fayetteville**
Devany Crippen, Program Associate I

**Northeast Research and Extension Center, Keiser**
F.M. Bourland, Center Director
Mike Duren, Program Technician III

**The Lon Mann Cotton Research Station, Marianna**
Claude Kennedy, Resident Director
Bill Apple, Program Technician II

**Southeast Research and Extension Center, Monticello**
Kelly Bryant, Center Director
Larry Earnest, Superintendent, Rohwer Division
Randy Cingolani, Program Technician III, Rohwer Division

**Rice Research and Extension Center, Stuttgart**
Chuck Wilson, Center Director
Jonathan McCoy, Program Technician I

**Southwest Research and Extension Center, Hope**
Terry Kirkpatrick, Professor
Kimberly Hurst-Rowe, Program Associate I

**VARIETY TESTING ADVISORY COMMITTEE**
Robert Bacon Thomas Barber
Fred Bourland Laudies Brantley
Don Dombek Jason, Kelley, Chair
David Luter Karen Moldenhauer
Roger Pohlner Jeremy Ross
Bill Rushing Chuck Wilson, Secretary

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

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

The 2011 corn performance tests contained 81 entries and were conducted at the Northeast Research and Extension Center (NEREC) at Keiser, the Lon Mann Cotton Research Station (LM-CRS) near Marianna, the Bell Farming Company near Des Arc, the Southeast Research and Extension Center–Rohwer Division (SEREC-RD) near Rohwer, and the Rice Research and Extension Center (RREC) near Stuttgart. The 2011 grain sorghum performance tests contained 13 entries and were conducted at the NEREC, the LMCRS, the SEREC-RD, and the RREC. Test location maps for grain sorghum and corn can be found on page 36 and inside the back cover, respectively.

MATERIALS AND METHODS

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

Within each test, entries were arranged as a randomized complete block design with four replications. Plots were two rows wide and 20-25 feet long depending on location. Seeding rates for each corn and grain sorghum hybrid were based on the recommendations of the originating company. All plots were harvested with a plot combine. 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./A) at 14% moisture.

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

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

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

Head Compactness Scale:

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

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

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

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

5 = Head open and elongated. Rachis branches weak.

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

1Use 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.

2Program Associate, Arkansas Agricultural Experiment Station, University of Arkansas, Fayetteville, Ark. 72701.

3Program Director, Arkansas Agricultural Experiment Station, University of Arkansas, Fayetteville, Ark. 72701.

4Program Technician, Arkansas Agricultural Experiment Station, University of Arkansas, Fayetteville, Ark. 72701.
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./A) at 15.5% moisture.

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

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

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

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

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

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

---

**Variety Testing Website**

This report and other information about variety testing for cotton, rice, small grains and soybean can be found at [ArkansasVarietyTesting.com](http://ArkansasVarietyTesting.com). Disease ratings that do not appear in this or other reports may also be found on this Website.
### Table 1. Yields of Grain Sorghum Hybrids in Arkansas Performance Tests, 2011

<table>
<thead>
<tr>
<th>Hybrid Name</th>
<th>Keiser Irrigated</th>
<th>Keiser Non-Irrigated</th>
<th>Marianna Irrigated</th>
<th>Stuttgart Irrigated</th>
<th>Rohwer Irrigated</th>
<th>Rohwer Non-Irrigated</th>
<th>Average</th>
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<tbody>
<tr>
<td>BH Genetics 5350</td>
<td>111.8</td>
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<td>121.7</td>
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<td>134.7</td>
<td>147.5</td>
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<td>Dyna-Gro 780B</td>
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<td>10.1</td>
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<td>8.1</td>
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</table>

1 Keiser = Notheast Research and Extension Center.  
Marianna = Lon Mann Cotton Research Station.  
Stuttgart = Rice Research and Extension Center.  
Rohwer = Southeast Research and Extension Center - Rohwer Division.
Table 2. Performance of Irrigated Grain Sorghum Hybrids, Keiser, Ark., 2011.

<table>
<thead>
<tr>
<th>Hybrid Name</th>
<th>Yield 2-Year1 bu./A</th>
<th>2-Year Avg. bu./A</th>
<th>3-Year Avg.2 bu./A</th>
<th>Grain Moisture %</th>
<th>Plant Height Inches</th>
<th>Head Exertion Inches</th>
<th>Head Comp. Rating</th>
<th>Bird Damage %</th>
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<td>15.6</td>
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<td>66</td>
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<td>15.7</td>
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<td>5</td>
<td>3</td>
<td>25</td>
</tr>
</tbody>
</table>

GRAND MEAN 130.9 • • 15.4 61 6 2 26
LSD (5%) 15.1 • • 1.5 • • • 8
C.V. 6.8 • • 5.9 • • • 18

1 Average yield for 2010 and 2011.

Soil Series Sharkey clay
Soil pH 6.9
Previous Crop Soybean
Row Width 38"
Preplant Herbicide Dual II Magnum + Atrazine + Roundup Ultramax, May 11
Planting Date May 11
Irrigation Dates June 6, July 1, July 14, July 25, August 2, August 9
Sidedress Fertilizer 115-0-0, June 1; 35-0-0, June 20
Herbicide Application(s) Buctril + Atrazine, June 20
Insecticide Application(s) Mustang Max, August 3
Harvest Date September 8

Precipitation (inches)

<table>
<thead>
<tr>
<th></th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>Sept.</th>
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Table 3. Performance of Non-Irrigated Grain Sorghum Hybrids, Keiser, Ark., 2011.

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<th>Hybrid Name</th>
<th>Yield</th>
<th>2-Year¹</th>
<th>3-Year²</th>
<th>Grain Moisture</th>
<th>Plant Height</th>
<th>Head Exertion</th>
<th>Head Comp.</th>
<th>Bird Damage</th>
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<td>Avg. bu./A</td>
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<td>Inches</td>
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<td>%</td>
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<td>19.7</td>
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¹ Average yield for 2010 and 2011.

Soil Series Sharkey clay
Soil pH 6.9
Previous Crop Soybean
Row Width 38"
Preplant Herbicide Dual II Magnum + Atrazine + Roundup Ultrade Max, May 11
Planting Date May 11
Sidedress Fertilizer 115-0-0, June 1; 35-0-0, June 20
Herbicide Application(s) Buctril + Atrazine, June 20
Insecticide Application(s) Mustang Max, August 3
Harvest Date September 8

Precipitation (inches)

<table>
<thead>
<tr>
<th></th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>Sept.</th>
<th>Total</th>
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### Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, Ark., 2011.

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<tr>
<th>Hybrid Name</th>
<th>Yield Avg.</th>
<th>2-Year&lt;sup&gt;1&lt;/sup&gt; Avg.</th>
<th>3-Year&lt;sup&gt;2&lt;/sup&gt; Avg.</th>
<th>Grain Moisture %</th>
<th>Plant Height Inches</th>
<th>Head Exertion Inches</th>
<th>Head Comp. Rating</th>
<th>Bird Damage %</th>
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<sup>1</sup> Average yield for 2010 and 2011.


### Soil Series
- Calloway silt loam

### Soil pH
- 7.3

### Previous Crop
- Soybean

### Row Width
- 38"

### Preplant Fertilizer
- 150-100-100, April 1

### Planting Date
- May 11

### Irrigation Dates
- June 11, June 24, July 1, July 14, July 21, July 28, August 4, August 12

### Sidedress Fertilizer
- 43-0-0, June 20

### Herbicide Application(s)
- Atrazine + Dual II Magnum, May 12

### Insecticide Application(s)
- Karate, July 18; Lannate, July 26

### Harvest Date
- August 29

### Precipitation (inches)

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<tr>
<th></th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>Total</th>
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<th>Plant Height</th>
<th>Head Exertion</th>
<th>Head Comp. Rating</th>
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1 Average yield for 2010 and 2011.

Soil Series: Crowley silt loam
Soil pH: 5.7
Previous Crop: Soybean
Row Width: 30"
Preplant Fertilizer: 103-90-90-24-10, April 8
Planting Date: April 19
Irrigation Dates: June 2, June 9, June 16, June 23, July 6, July 13, July 20, July 26, August 2
Sidedress Fertilizer: 80-0-0, June 1; 87-0-0, June 15
Herbicide Application(s): Permit, May 6; Bicep II Magnum, May 11
Insecticide Application(s): Intrepid + Mustang Max, July 14
Harvest Date: October 7

Precipitation (inches)

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<th>August</th>
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<th>Yield bu./A</th>
<th>2-Year¹ Avg. bu./A</th>
<th>3-Year² Avg. bu./A</th>
<th>Grain Moisture %</th>
<th>Plant Height Inches</th>
<th>Head Exertion Inches</th>
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¹ Average yield for 2010 and 2011.

### Environmental Conditions

- **Soil Series**: Hebert silt loam
- **Soil pH**: 7.8
- **Previous Crop**: Soybean
- **Row Width**: 38"
- **Preplant Fertilizer**: 0-5-100, October 18; 19-38-69-8-3, March 21
- **Planting Date**: May 2
- **Irrigation Dates**: June 9, June 15, June 23, June 30, July 13
- **Sidedress Fertilizer**: 88-0-0, May 23; 88-0-0, June 6
- **Herbicide Application(s)**: Atrazine + Dual II Magnum + Roundup PowerMax, May 2
- **Insecticide Application(s)**: Lannate, July 13, July 22, July 29
- **Harvest Date**: August 23

### Precipitation (inches)

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<th>May</th>
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<th>Avg. 2-Year&lt;sup&gt;1&lt;/sup&gt;</th>
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<th>Avg. 3-Year&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Grain Moisture %</th>
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<td>2.2</td>
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<sup>1</sup> Average yield for 2010 and 2011.

Soil Series: Hebert silt loam
Soil pH: 7.8
Previous Crop: Soybean
Row Width: 38"
Preplant Fertilizer: 0-5-100, October 18; 19-38-69-8-3, March 21
Planting Date: May 2
Sidedress Fertilizer: 88-0-0, May 23; 88-0-0, June 6
Herbicide Application(s): Atrazine + Dual II Magnum + Roundup PowerMax, May 2
Insecticide Application(s): Lannate, July 13, July 22, July 29
Harvest Date: August 23

Precipitation (inches)

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<th>June</th>
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Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2011\(^1\).

<table>
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<tr>
<th>Hybrid Name</th>
<th>Keiser</th>
<th>Marianna(^2)</th>
<th>Stuttgart</th>
<th>Rohwer</th>
<th>Bell Farm</th>
<th>Average</th>
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<td>bu./A</td>
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### Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2011\(^1\), continued.

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<th>Hybrid Name</th>
<th>Keiser</th>
<th>Marianna (^2)</th>
<th>Stuttgart</th>
<th>Rohwer</th>
<th>Bell Farm</th>
<th>Average</th>
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**GRAND MEAN** | 199.8 | 177.2 | 165.9 | 201.2 | 185.2 | 185.9 |

**LSD (5%)** | 19.5 | 23.9 | 21.8 | 19.8 | 27.8 | 22.6 |

**C.V.** | 7.0 | 8.3 | 9.4 | 7.1 | 9.3 | 8.2 |
Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2011\(^1\), continued.

<table>
<thead>
<tr>
<th>Hybrid Name</th>
<th>Keiser</th>
<th>Marianna(^2)</th>
<th>Stuttgart</th>
<th>Rohwer</th>
<th>Bell Farm</th>
<th>Average</th>
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\(^1\)Keiser = Notheast Research and Extension Center.
Marianna = Lon Mann Cotton Research Station.
Stuttgart = Rice Research and Extension Center.
Rohwer = Southeast Research and Extension Center - Rohwer Division.
Bell Farm = Bell Farming Company, Prairie County.
\(^2\)These tests were replanted on May 17 after the original planting on April 18 was abandoned due to poor stands resulting from heavy rainfall.
\(^3\)A reportable yield could not be obtained for this hybrid at this location due to equipment malfunction.

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<th>Brand/Hybrid</th>
<th>Yield</th>
<th>2-Year Avg.</th>
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<th>Yield 3-Year&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Grain Moisture</th>
<th>Root&lt;sup&gt;3&lt;/sup&gt; Lodging</th>
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### Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2011, continued.

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<th>Yield Avg.</th>
<th>2-Year¹</th>
<th>3-Year²</th>
<th>Grain Moisture</th>
<th>Root³ Lodging</th>
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¹ Average yield for 2010 and 2011.

---

Soil Series: Sharkey clay
Soil pH: 6.9
Previous Crop: Soybean
Row Width: 38"
Planting Date: May 11
Irrigation Dates: June 6, July 1, July 14, July 25, August 2, August 9, August 16, August 22
Sidedress Fertilizer: 115-0-0, June 1; 115-0-0, June 9; 100-0-0, June 16
Herbicide Application(s): Dual II Magnum + Atrazine + Roundup Ultramax, May 11
Insecticide Application(s): Intrepid, July 22, August 8
Harvest Date: September 28

### Precipitation (inches)

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**Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2011**

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<th>Brand/Hybrid</th>
<th>Yieldbu./A</th>
<th>2-Year² Avg. bu./A</th>
<th>3-Year³ Avg. bu./A</th>
<th>Grain Moisture%</th>
<th>Root³ Lodging</th>
<th>Stalk³ Lodging</th>
<th>Ear Height Inches</th>
<th>Plants Per Acre</th>
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### Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2011\(^1\), continued.

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<th>Brand/Hybrid</th>
<th>Yield(^2)</th>
<th>2-Year(^2) Avg.</th>
<th>3-Year(^3) Avg.</th>
<th>Grain Moisture %</th>
<th>Root(^4) Lodging</th>
<th>Stalk(^4) Lodging</th>
<th>Ear Height Inches</th>
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Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2011, continued.

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<th>2-Year (^2) Avg.</th>
<th>3-Year (^3) Avg.</th>
<th>Grain Moisture %</th>
<th>Root (^4) Lodging</th>
<th>Stalk (^4) Lodging</th>
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<th>Plants Per Acre</th>
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\(^1\) These tests were replanted on May 17 after the original planting on April 18 was abandoned due to poor stands resulting from heavy rainfall.

\(^2\) Average yield for 2010 and 2011.

\(^3\) Average yield for 2009, 2010, and 2011.

\(^4\) Average number of plants per hybrid.

Soil Series: Calloway silt loam

Soil pH: 7.1

Previous Crop: Soybean

Row Width: 30"

Preplant Fertilizer: 150-100-100, April 1

Planting Date: April 18; replanted May 17

Irrigation Dates: June 7, June 24, June 20, July 14, July 19, July 26, Aug. 3, Aug.11, Sept. 2, Sept. 12

Sidedress Fertilizer: 150-0-0, June 13

Herbicide Application(s): Atrazine + Dual II Magnum + Roundup PowerMax, May 17;
Atrazine + Dual II Magnum + Callisto, June 6

Insecticide Application(s): Intrepid, July 23

Harvest Date: September 27

Precipitation (inches)

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Table 11: Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2011.

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<th>Yield (bu./A)</th>
<th>2-Year(^1) Avg. (bu./A)</th>
<th>3-Year(^2) Avg. (bu./A)</th>
<th>Grain Moisture (%)</th>
<th>Stalk(^3) Lodging</th>
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\(^1\) 2-Year Average Yield
\(^2\) 3-Year Average Yield
\(^3\) Stalk Lodging
\(^4\) Ear Tip Cover

22

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<th>3-Year&lt;sup&gt;2&lt;/sup&gt; Avg.</th>
<th>Grain Moisture</th>
<th>Stalk&lt;sup&gt;3&lt;/sup&gt; Lodging</th>
<th>Ear Height</th>
<th>Tip&lt;sup&gt;4&lt;/sup&gt; Cover</th>
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### Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2011, continued.

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<th>Grain Moisture</th>
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1 Average yield for 2010 and 2011.
3 Average number of plants per hybrid.
4 Tip cover was rated as good (1), average (2), or poor (3). A rating of good was given when 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 ears were open to the weather.

### Soil Series
Crowley silt loam

### Soil pH
5.7

### Previous Crop
Soybean

### Row Width
30"

### Preplant Fertilizer
103-90-90-24-10, April 8

### Planting Date
April 18

### Irrigation Dates
June 2, June 9, June 16, June 23, July 6, July 13, July 20, July 26, August 2

### Sidedress Fertilizer
80-0-0, June 1; 87-0-0, June 15

### Herbicide Application(s)
Permit, May 6; Bicep II Magnum, May 11

### Insecticide Application(s)
Intrepid + Mustang Max, July 14

### Harvest Date
September 13

### Precipitation (inches)

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Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2011, continued.

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<th>3-Year&lt;sup&gt;2&lt;/sup&gt; Avg.</th>
<th>Grain Moisture</th>
<th>Root&lt;sup&gt;3&lt;/sup&gt; Lodging</th>
<th>Stalk&lt;sup&gt;3&lt;/sup&gt; Lodging</th>
<th>Ear Height</th>
<th>Plants Per Acre</th>
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Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2011, continued.

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1 Average yield for 2010 and 2011.
3 Average number of plants per variety.

Soil Series Hebert silt loam
Soil pH 7.8
Previous Crop Soybean
Row Width 38"
Preplant Fertilizer 0-5-100, October 18, 2010, 19-38-69-8-3, March 21
Planting Date April 8
Irrigation Dates May 18, June 9, June 15, June 23, June 30, July 13, July 19
Sidedress Fertilizer 88-0-0, May 23; 88-0-0, June 6
Herbicide Application(s) Atrazine + Dual II Magnum + Roundup PowerMax, April 8, Laudis May 6
Harvest Date Early hybrids, August 30; Late hybrids, August 31

Precipitation (inches)

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### Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Company, Des Arc, Ark., 2011.

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<th>3-Year Avg. bu./A</th>
<th>Grain Moisture %</th>
<th>Stalk Lodging</th>
<th>Ear Height Inches</th>
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Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Company, Des Arc, Ark., 2011, continued

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<th>Brand/Hybrid</th>
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<th>3-Year(^2) Avg.</th>
<th>Grain Moisture</th>
<th>Stalk(^3)</th>
<th>Ear Height</th>
<th>Tip(^4) Cover</th>
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Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Company, Des Arc, Ark., 2011, continued.

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1 Average yield for 2010 and 2011.
3 Average number of plants per hybrid.
4 Tip cover was rated as good (1), average (2), or poor (3). A rating of good was given when 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 ears were open to the weather.
5 A reportable yield could not be obtained for this hybrid at this location due to equipment malfunction.

Soil Series Calhoun silt loam
Soil pH 7.5
Previous Crop Soybean
Row Width 30"
Preplant Herbicide 32 oz/A Maddog + 24 oz/A 2,4-D
Preplant Fertilizer 2 tons/A chicken litter, strip till incorporated, Fall 2010
175 lb/A potash + 225 lb/A ammonium sulfate + 130 lb/A urea incorporated, April 8
Planting Date April 19
Sidedress Fertilizer 60 units/A nitrogen, May 9;
125 lb/A urea + 50 lb/A potash, June 8
Herbicide Application(s) 0.75 oz/A Steadfast + 2 qt/A Atrazine, May 10
Insecticide Application(s) 5.12 oz/A Sniper, May 19
Fungicide Application(s) 6 oz/A Headline. June 30
Harvest Date August 30
## Participants and Entries
### 2011 Grain Sorghum Tests

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## Participants and Entries
### 2011 Corn Tests

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### Participants and Entries

#### 2011 Corn Tests Continued

**Company**
- **Triumph Seed Co., Inc.**
  - P.O. Box 1050
  - Ralls, TX 79357

**WinField Solutions/ Croplan Genetics**
- P.O. Box 1351
- Blytheville, AR 72315

**Hybrids**
- **Triumph Seed Co., Inc.**
  - Triumph 1956H
  - Triumph 7514S

- **WinField Solutions/ Croplan Genetics**
  - Croplan 6725 VT3P
  - Croplan 6926 VT3P
  - Croplan 8505 VT3P
  - Croplan 8756 VT3
LMCRS - Lon Mann Cotton Research Station, Marianna, Arkansas
NEREC - Northeast Research and Extension Center, Keiser, Arkansas
RREC - Rice Research and Extension Center, Stuttgart, Arkansas
SEREC-RD - Southeast Research and Extension Center-Rohwer Division, 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
SEREC-RD - Southeast Research and Extension Center-Rohwer Division, Rohwer, Arkansas