

**ARKANSAS CORN AND GRAIN SORGHUM PROMOTION BOARD
PROGRESS REPORT – November 2010**

Title: Evaluation of White Grain Sorghum Hybrids in Arkansas

Investigators: Jason Kelley, Wheat and Feed Grains Extension Agronomist, Little Rock
Don Dombek, Corn/Sorghum Hybrid Testing Director, Fayetteville

Cooperators: Dr. Rick Cartwright, Extension Plant Pathologist, Fayetteville

Progress: Three food grade white seeded/tan plant grain sorghum hybrids were tested in the Arkansas Grain Sorghum Hybrid Testing Program (Fontanelle 1000, Warner 902-W, and Richardson 315x310). Locations of the grain sorghum hybrid testing program include; Keiser (irrigated and non-irrigated) Marianna (irrigated), Stuttgart (irrigated), and Rohwer (irrigated and non-irrigated). Yields of the food grade hybrids were near or lower than the trial average at each location. Grain quality results for the white hybrids and standard red hybrids are not available yet.

| Yields of Grain Sorghum Hybrids in Arkansas Performance Tests, 2010. | | | | | | | | |
|--|----------------|-------------------|------------------|----------------|----------------|------------------|--------------|----------------|
| Hybrid | Keiser IRR. | Keiser NonIrr. | Marianna IRR. | Stutt. IRR. | Rohwer IRR. | Rohwer NonIrr | IRR. Avg. | NonIRR Avg. |
| -----Bu/acre----- | | | | | | | | |
| DEKALB DKS44-20 | 122.5 | 110.1 | 133.5 | 148.8 | 119.9 | 122.3 | 131.2 | 116.2 |
| DEKALB DKS49-45 | 115.8 | 146.9 | 120.2 | 155.6 | 113.5 | 115.1 | 126.3 | 131.0 |
| DEKALB DKS53-67 | 123.3 | 103.6 | 147.0 | 174.6 | 121.2 | 121.2 | 141.5 | 112.4 |
| DEKALB DKS54-00 | 125.2 | 122.1 | 122.6 | 168.9 | 120.6 | 113.8 | 134.3 | 118.0 |
| DEKALB DKS54-03 | 121.2 | 158.8 | 121.5 | 158.2 | 117.3 | 96.4 | 129.6 | 127.6 |
| Dyna-Gro 771B | 121.3 | 124.0 | 134.3 | 136.8 | 107.7 | 122.8 | 125.0 | 123.4 |
| Dyna-Gro 772B | 121.8 | 125.6 | 127.3 | 154.9 | 118.4 | 121.9 | 130.6 | 123.8 |
| Dyna-Gro 780B | 123.5 | 125.4 | 127.2 | 177.2 | 123.6 | 121.4 | 137.9 | 123.4 |
| Golden Acres 3566 | 100.1 | 93.6 | 115.3 | 151.1 | 100.2 | 93.7 | 116.7 | 93.7 |
| Golden Acres 3696 | 121.4 | 113.2 | 128.8 | 122.6 | 122.6 | 102.9 | 123.9 | 108.1 |
| Pioneer 83P17 | 107.9 | 130.9 | 127.8 | 175.5 | 120.3 | 106.9 | 132.9 | 118.9 |
| Pioneer 84G62 | 131.8 | 151.2 | 136.4 | 152.5 | 123.0 | 109.5 | 135.9 | 130.4 |
| Syngenta 5308 | 109.2 | 109.9 | 129.1 | 144.4 | 113.6 | 115.0 | 124.1 | 112.5 |
| Syngenta 5464 | 119.9 | 125.5 | 128.8 | 152.2 | 110.6 | 101.3 | 127.9 | 113.4 |
| Syngenta 5556 | 100.3 | 105.6 | 110.6 | 147.1 | 115.5 | 98.4 | 118.4 | 102.0 |
| Terral TV9421 | 116.4 | 132.8 | 133.4 | 136.5 | 121.8 | 99.8 | 127.0 | 116.3 |
| Terral TV96H81 | 117.5 | 139.9 | 128.5 | 189.2 | 123.0 | 104.6 | 139.6 | 122.3 |
| Terral TV96H91 | 125.4 | 108.4 | 135.2 | 150.0 | 125.8 | 113.4 | 134.1 | 110.9 |
| Terral TV96H95 | 116.7 | 142.1 | 131.2 | 148.4 | 125.5 | 100.1 | 130.5 | 121.1 |
| Triumph TR82-G | 126.6 | 129.7 | 128.4 | 186.9 | 137.2 | 115.9 | 144.8 | 122.8 |
| Fontanelle 1000 | 116.0 | 96.9 | 120.0 | 174.4 | 110.8 | 95.1 | 130.2 | 96.0 |
| Warner 902-W | 121.4 | 75.7 | 100.6 | 151.8 | 110.9 | 91.4 | 121.2 | 83.6 |
| Richardson 315x310 | 93.5 | 92.8 | 115.3 | 147.3 | ---- | ---- | 118.7 | 92.8 |
| Grand Mean | 117.3 | 120.2 | 126.2 | 156.7 | 118.3 | 108.3 | 129.7 | 113.9 |
| LSD (0.05) | 9.3 | 15.6 | 6.2 | 8.4 | 6.0 | 7.2 | | |