

**ARKANSAS CORN AND GRAIN SORGHUM PROMOTION BOARD  
PROGRESS REPORT – November 1, 2013**

**Title:** Developing Planting Date Guidelines for Arkansas Corn and Grain Sorghum

**Investigator:** Jason Kelley - Wheat and Feed Grains Extension Agronomist

**Cooperators:** Glenn Studebaker - Extension Entomologist, Keiser

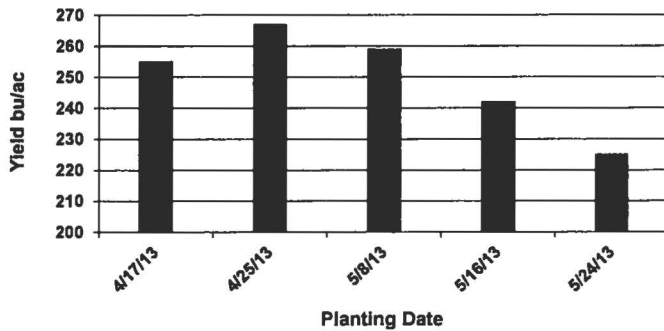
**Corn Studies:** Corn planting date trials were conducted at Keiser (Northeast Research and Extension Center, Marianna (Lon Mann Station), and Rohwer (Southeast Research and Extension Center). Planting dates in 2013 at each location were as follows:

<b>Keiser</b>	<b>Marianna</b>	<b>Rohwer</b>
---	March 14	April 17
---	April 17	April 29
---	April 29	May 8
May 15	May 14	May 16
May 30	May 30	May 28

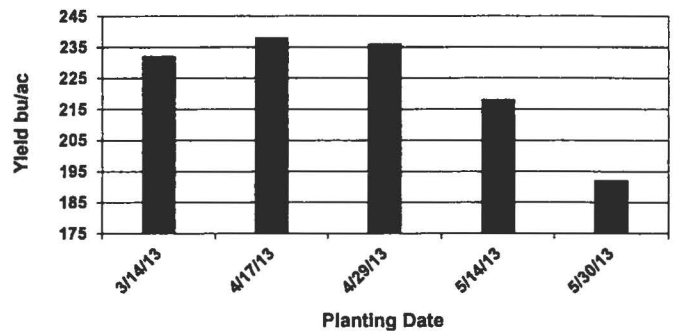
Eight commonly grown hybrids were evaluated and included; Armor 1550DPro, Dekalb 64-69 VT3P, NK N77P-3111, Dyna-Gro 57VP51, Pioneer 1745R, Pioneer 1745BVT, Pioneer 2088YHR, and Terral 24BR93 with maturity ranging from 114 to 120 day hybrids. Corn was planted as weather conditions allowed on an approximate two week interval. All plantings were planted at 34,000 seeds/acre on single 38 inch wide rows. Production practices followed current extension recommendations.

Yields overall were excellent, even with May plantings. In general yields were maximized by early planting but highest yields were produced from late April plantings this year, likely a reflection of the cool and wet weather in March and April. At both Rohwer and Marianna, yields declined as planting date was delayed until Mid-May. Yields of 215 bu/acre or more were still realized at both Rohwer and Marianna when planting as late as Mid-May. Cooler than average temperatures during grain fill likely contributed to high yields for all planting dates. At Marianna the March 14<sup>th</sup> planting date took 28 days to emerge, and plant populations were only slightly less than later plantings, but yields were similar to April plantings. Planting early at Keiser this year proved to be difficult with heavy clay soils and abundant rainfall and results are not reported.

Effect of Planting Date on Irrigated Corn Yield at Rohwer, 2013



Effect of Planting Date on Irrigated Corn Yield at Marianna, 2013



**Grain Sorghum:** A grain sorghum planting date study was conducted at Marianna on the Lon Mann Station in 2013. . Planting dates for 2013 were April 17, April 29, May 14, May 30, and June 25<sup>th</sup>. Four hybrids were evaluated and include; Pioneer 84G62, Triumph 82-G, Terral 9782, and Dekalb 53-67. Much like the corn planting date studies, weather delayed some planting dates. The April 17<sup>th</sup> planting struggled with the cool weather and experienced two light frosts, but at harvest provided nearly identical yields as later plantings. In general highest yields were seen from April and early May plantings. This is the same trend that has been seen in previous years.

Effect of Planting Date on Irrigated Grain Sorghum Yield at Marianna, 2013

