

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

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

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**Corn :** Corn planting date trials were conducted at Keiser (Northeast Research and Extension Center, Marianna (Lon Mann Station), and Rohwer (Southeast Research and Extension Center). In general corn yields were greater with early planting and declined with later plantings at all locations. At Marianna dramatic differences in yield were seen between Bt and Non Bt hybrids in the later plantings, but very little difference in the March planting. At Keiser and Rohwer, traits made little difference and yields were averaged over hybrids.

| Hybrid                  | March 19   | April 16   | May 13     | June 1     | July 1    |
|-------------------------|------------|------------|------------|------------|-----------|
| DKC 50-20 YGCB          | 174        | 179        | 176        | 121        | 68        |
| DKC 61-05 VT3 Pro       | 217        | 209        | 210        | 170        | 93        |
| Stine 9704 SmartStax    | 197        | 219        | 214        | 169        | 96        |
| DKC 64-83 VT3 Pro       | 213        | 220        | 212        | 167        | 80        |
| Pioneer 1615 HR         | 235        | 220        | 222        | 171        | 91        |
| DKC 67-88 VT3 Pro       | 217        | 214        | 217        | 166        | 111       |
| Pioneer 31P40 RR        | 196        | 199        | 176        | 87         | 17        |
| Pioneer 31P42 RR,LL, HX | 200        | 213        | 190        | 122        | 75        |
| Pioneer 31D59 RR,LL, HX | 212        | 216        | 179        | 143        | 80        |
| <b>Bt Average</b>       | <b>208</b> | <b>211</b> | <b>203</b> | <b>154</b> | <b>87</b> |

| Rohwer Planting Dates | % Yield at Rohwer | Keiser Planting Dates | % Yield at Keiser |
|-----------------------|-------------------|-----------------------|-------------------|
| March 30              | 100               | April 19              | 100               |
| April 13              | 90                | April 29              | 92                |
| April 29              | 83                | May 26                | 81                |
| May 12                | 88                | June 8                | 59                |
| June 1                | 65                |                       |                   |

**Grain Sorghum:** A grain sorghum planting date study was conducted at Marianna on the Lon Mann Station. Yields from the April 21 planting were excellent and yields declined with each later planting date. Yields from June 4 and July 1 plantings did well considering the record heat and dry weather that was experienced.

| Hybrid         | April 21     | May 13      | June 4      | July 1      |
|----------------|--------------|-------------|-------------|-------------|
| Pioneer 84G62  | 126.7        | 97.0        | 80.5        | 87.9        |
| Triumph 82G    | 117.2        | 94.4        | 89.8        | 81.8        |
| Terral 96H81   | 116.5        | 94.0        | 93.0        | 82.0        |
| Dekalb 53-67   | 127.9        | 94.8        | 89.2        | 86.4        |
| <b>Average</b> | <b>122.1</b> | <b>95.1</b> | <b>88.1</b> | <b>84.6</b> |