



# Response of DEKALB® Brand Corn Products to Planting Depth and Date

2016 Learning Center Demo Report  
Monsanto Learning Center at Scott, MS



## BACKGROUND

- Some areas of the southeastern United States received excessive amounts of precipitation during the early 2016 planting season.
- In response to the early season wet conditions a demonstration was planted to evaluate the response of DEKALB® brand seed products to several planting dates and planting depths.



## STUDY GUIDELINES

The study was conducted at the  
Monsanto Learning Center at Scott, MS

- Commerce silt loam soil type
- Previous crop – cotton
- Conventional tillage
- Corn yield environment – 240 bu/acre
- Harvested on August 30, 2016
- Standard area agronomic practices were implemented

Response of DEKALB® Brand Corn Products to Planting Depth and Date



## STUDY GUIDELINES

### Treatments

- Planting dates – March 7, March 29
- Planting depths – 1.5 inches, 3.0 inches
- Corn products and populations
  - DKC68-26 brand planted at 34,000 seeds/acre
  - DKC66-97 brand planted at 39,000 seeds/acre
  - DKC67-14 brand planted at 34,000 seeds/acre

Response of DEKALB® Brand Corn Products to Planting Depth and Date



## STUDY GUIDELINES

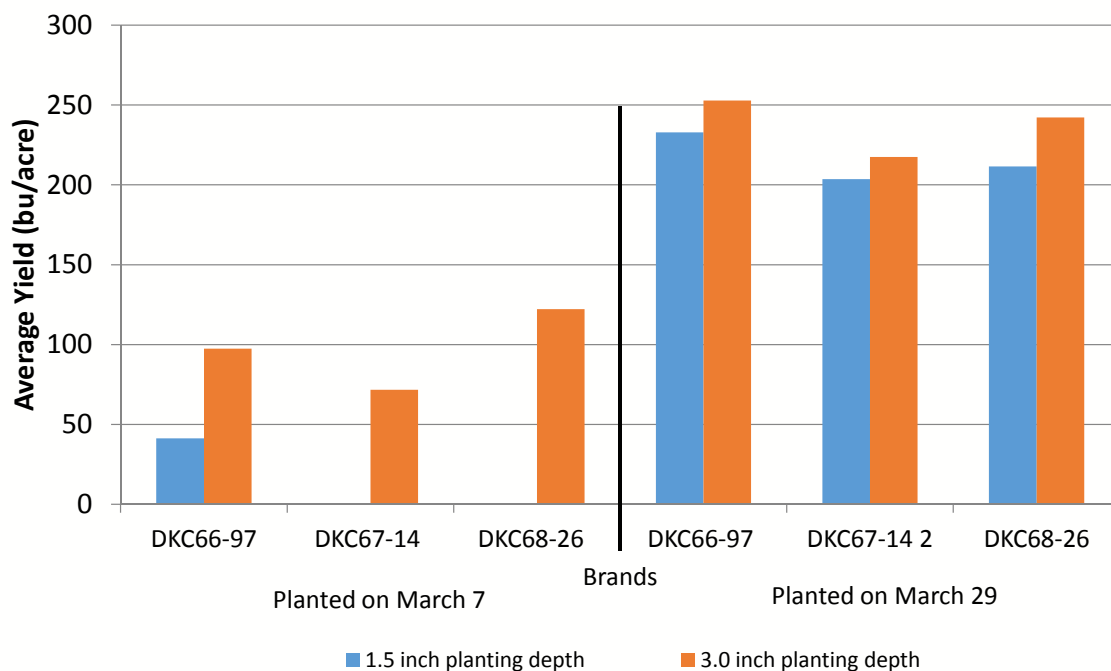
- Approximately 15 inches of rain fell during the 10 days after the March 7, 2016 planting.
- A majority of the rainfall after the March 7, 2016 planting was received in three days, which was during seed imbibition. Excess moisture delayed or prevented emergence.



Response of DEKALB® Brand Corn Products to Planting Depth and Date



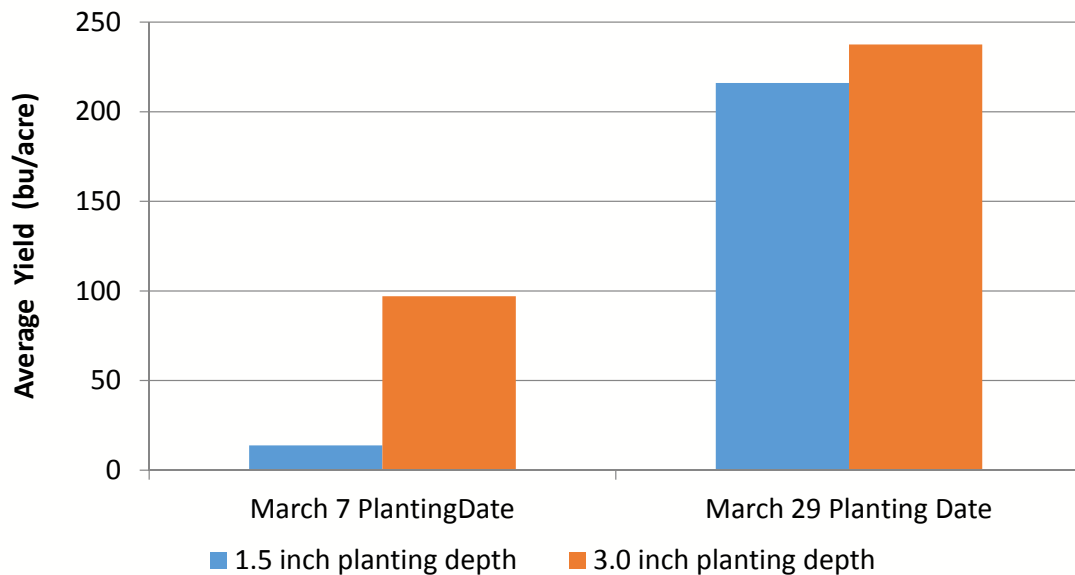
## RESULTS & DISCUSSION



Response of DEKALB® Corn Brand Products to Planting Depth and Date



## RESULTS & DISCUSSION



Response of DEKALB® Brand Corn Products to Planting Depth and Date



## RESULTS & DISCUSSION

- A large increase in yield was observed in the March 29 planting date compared to the March 7 planting date.
- The seed brand products yielded well when planted in better soil conditions.
- Deeper planting (3 inches versus 1.5 inches) resulted in increased yield for both planting dates.

Response of DEKALB® Brand Corn Products to Planting Depth and Date



## RESULTS & DISCUSSION

- There was an average of 83 bu/acre yield increase with the deeper planting compared to the shallow planting for the March 7 planting date.
- Maximum average yield for the March 7 planting date at the deeper planting was 97 bu/acre.
- There was an average of 22 bu/acre yield increase with the deeper planting compared to the shallow planting for the March 29 planting date.
- Maximum average yield for the March 29 planting date at the deeper planting was 238 bu/acre.

Response of DEKALB® Brand Corn Products to Planting Depth and Date



## TAKE AWAYS

- Planting depth is important when adjusting and setting planters.
- Consider delaying planting when soil conditions are poor.
- If considering replanting, evaluate and determine existing population. If replanting is warranted, do so without hesitation.
- The DEKALB® brand seed products offer high yield potential when planted at the proper time and depth.

Response of DEKALB® Brand Corn Products to Planting Depth and Date



## LEGAL STATEMENTS

*The information discussed in this report is from a single site demonstration. This informational piece is designed to report the results of this demonstration and is not intended to infer any confirmed trends. Please use this information accordingly.*

**Individual results may vary**, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL**

**DIRECTIONS.** Asgrow and the A Design®, DEKALB and Design® and DEKALB® are registered trademarks of Monsanto Technology LLC. Deltapine® is a registered trademark of Monsanto Company. All other trademarks are the property of their respective owners.

©2016 Monsanto Company. 1610251546. 110116DLB



Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, **including applicable refuge requirements for insect resistance management**, for the biotechnology traits expressed in the seed as set forth in the Monsanto Technology/Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.