



# Evaluation of DEKALB® Corn Products Planted in Different Row Configurations

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



## BACKGROUND

- A demonstration was established to compare the yield potential of DEKALB® brand corn products planted at different populations across both twin rows and single rows.
- The objective was to provide growers with information about how DEKALB® brand corn products perform when planted at different populations in both single and twin rows.



## BACKGROUND

- Four DEKALB® brand corn products were planted on April 5, 2016.
- Each product was planted in conventionally-tilled fields at populations of 30,000, 35,000, 40,000, and 45,000 seeds per acre in both 7.5-inch twin rows and in 38-inch rows.
- A total of 240 pounds of nitrogen was applied per acre.
- All other agronomic practices were standard and appropriate for the area.
- Corn was harvested on September 10, 2016.

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## RESULTS & DISCUSSION

- Emergence averaged 95% across the trial.
- Little difference in average yield was observed between single- and twin-row plantings.
- It is not likely that the extra cost of field preparation required for twin-row planting would be recovered from the small increase in yield observed in the twin-row plantings.
- Corn products responded similarly to both planting systems and to populations within those systems.

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## RESULTS & DISCUSSION

- DKC64-69 brand did not respond favorably to higher population, likely due to lodging.
- The other tested corn products all responded favorable to increasing populations. These products may offer a reduced risk of lodging compared to traditional corn products.

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## RESULTS & DISCUSSION

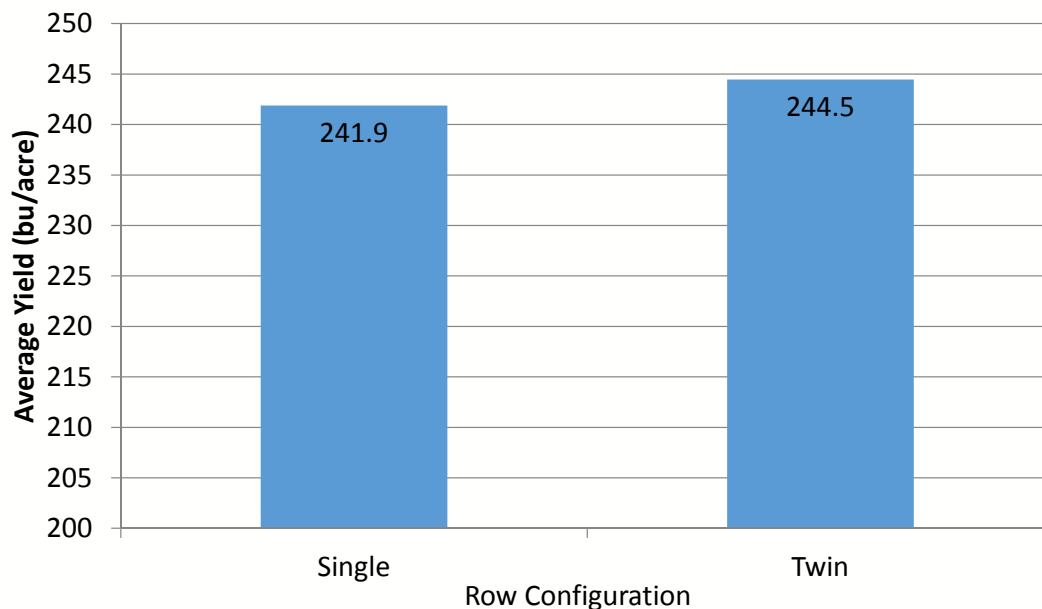


Figure 1. Row configuration yield evaluations across corn products and populations.

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# RESULTS & DISCUSSION

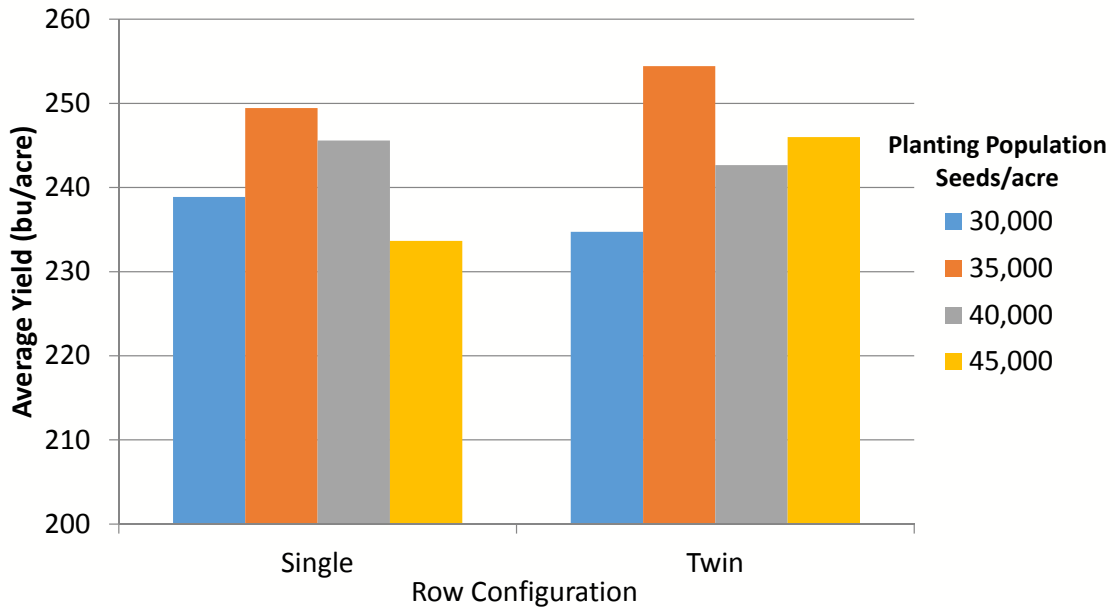


Figure 2. Row configuration population evaluations across corn products.

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# RESULTS & DISCUSSION

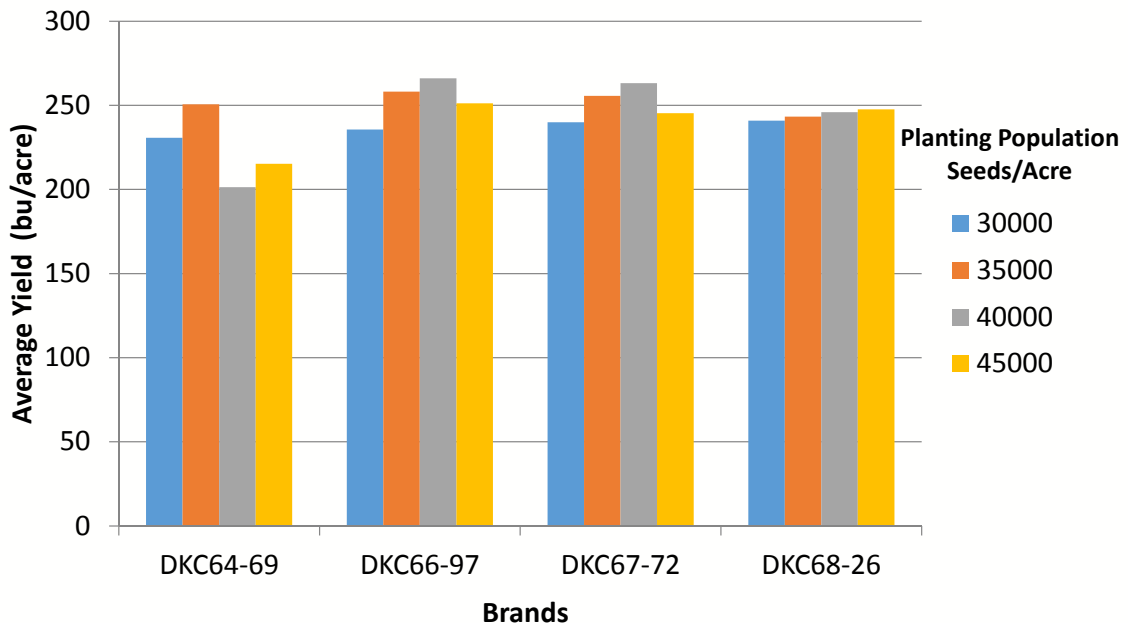


Figure 3. Corn product by population evaluation across row configurations.

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## RESULTS & DISCUSSION

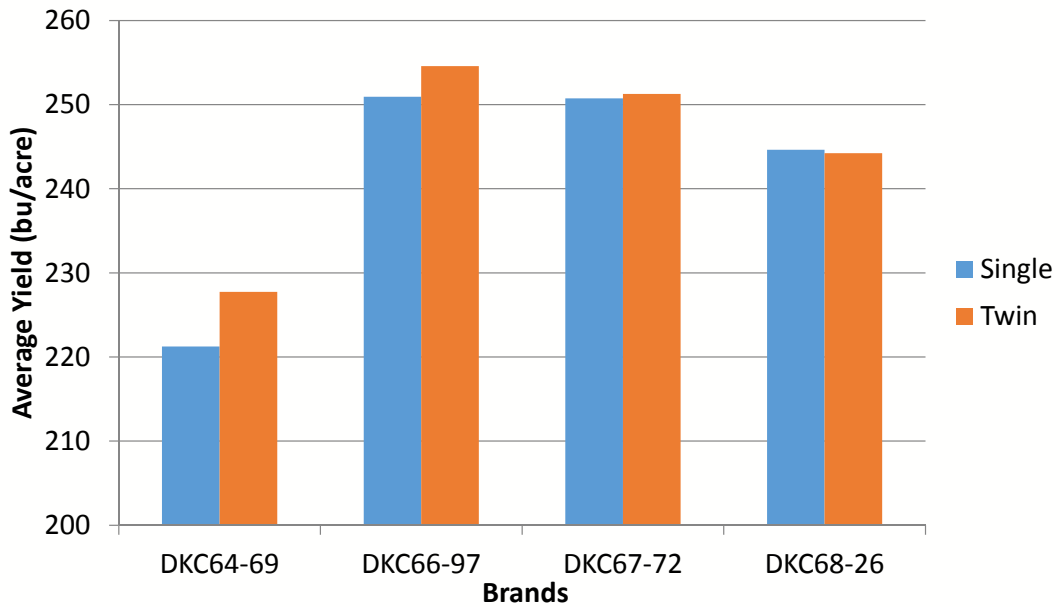


Figure 4. Corn product by row configuration evaluation across populations.

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## RESULTS & DISCUSSION

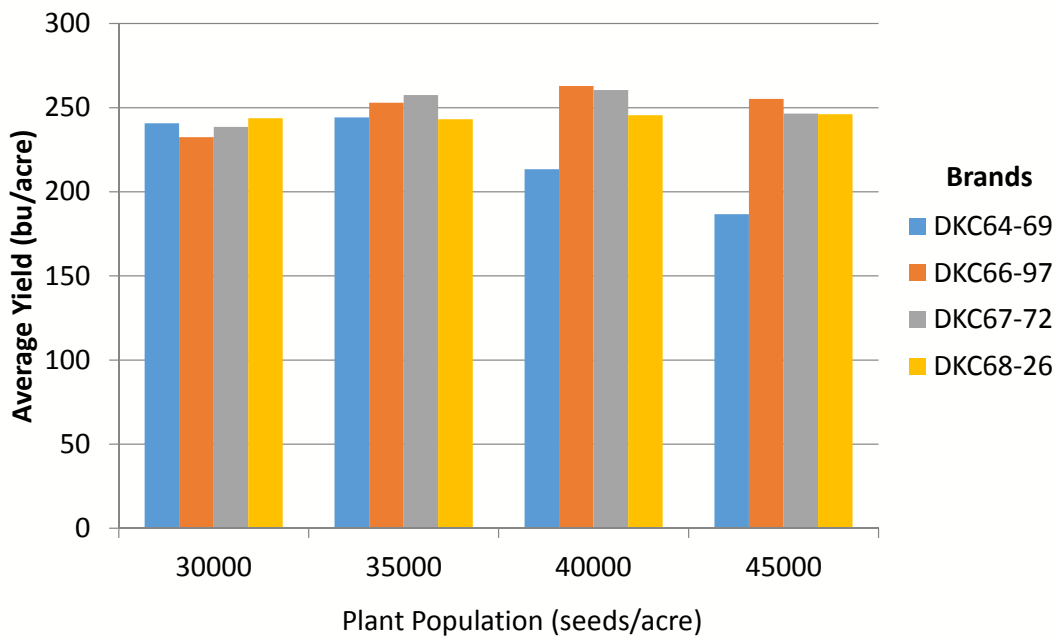


Figure 5. Corn product evaluations in single rows.

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# RESULTS & DISCUSSION

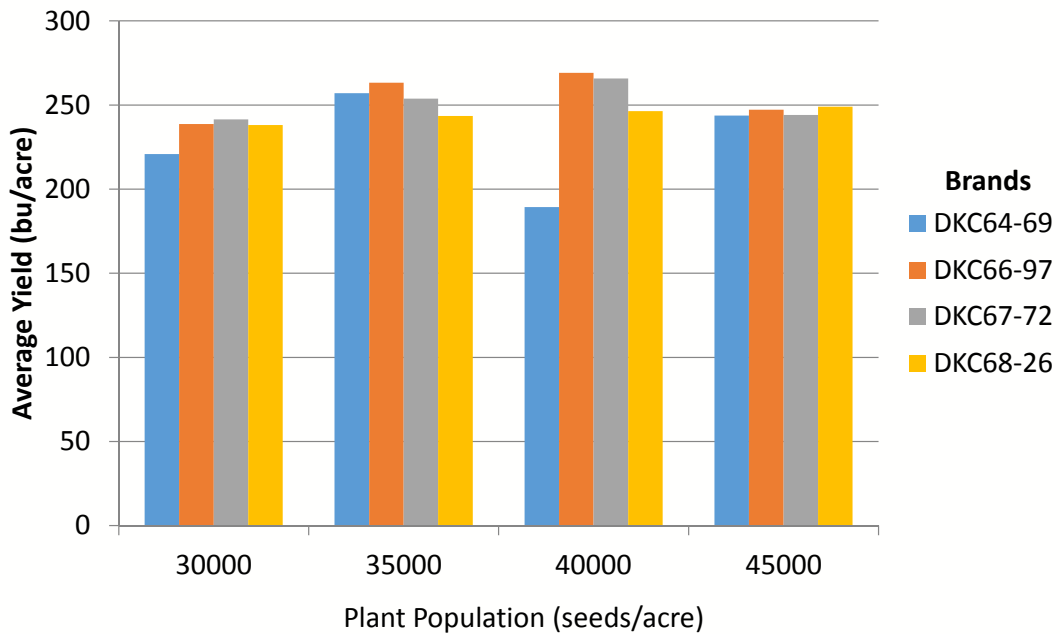


Figure 6. Corn product evaluations in twin rows.

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# RESULTS & DISCUSSION

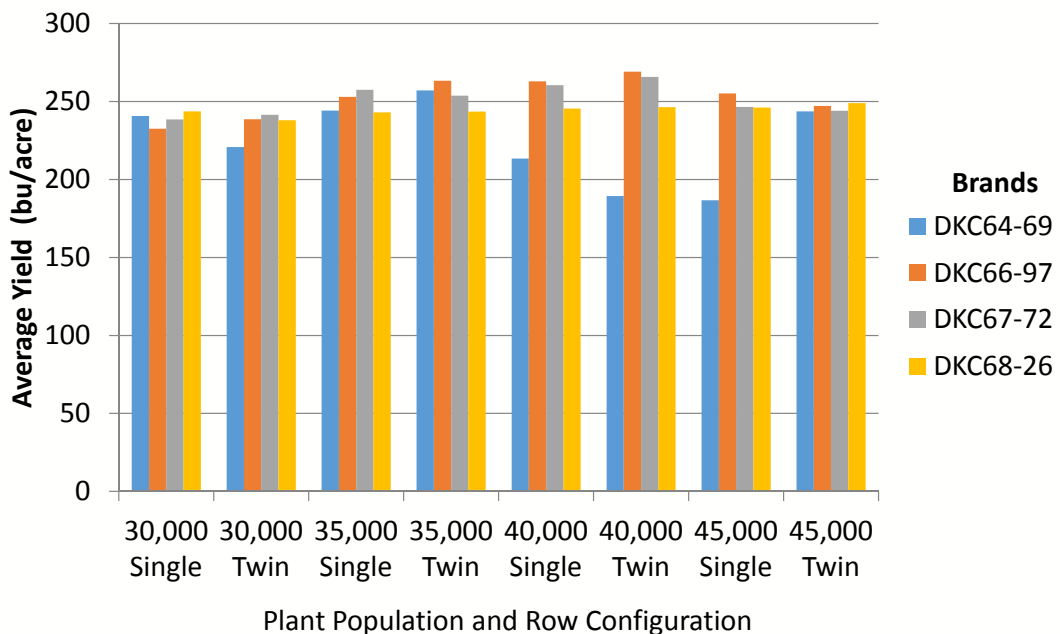


Figure 7. Corn product evaluations by row configuration by population.

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## TAKE AWAYS

- Farmers should use corn product specific information to help determine the ideal planting population for each field condition and row configuration.
- This demonstration showed little interaction between corn product, row configuration, and population.
- While a twin-row system may have some potential to increase yield, farmers should also consider the extra time and cost involved in planting in a twin-row system.

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## LEGAL STATEMENTS

The information discussed in this report is from a single site, non-replicated demonstration. This information 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.

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