

DEKALB® CORN PRODUCT YIELD RESPONSE TO PLANTING RATE IN AN IRRIGATED ENVIRONMENT - COASTAL EAST

TRIAL OVERVIEW

This trial was created to help understand the yield response of new DEKALB® corn products to planting rate and to begin to develop planting rate response data in the absence of GEN V testing for this area.

RESEARCH OBJECTIVE

The objective of the experiment was to evaluate the agronomic and yield response of three newly released DEKALB® corn products to five different planting rates.

Location	Soil	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield/Acre	Planting Rate/Acre
Multiple Locations in Georgia	Multiple	Multiple	Minimum Tillage	Multiple	Multiple	Multiple	28,000 seeds 31,000 seeds 34,000 seeds 37,000 seeds 40,000 seeds

SITE NOTES:

- Nine on-farm locations and three Regional Technology Centers (RTCs) in Georgia were used for this study.
- Each location was of diverse soil type, yield potential, and managed per the cooperators agronomic production practices.
- Treatments included three different DEKALB® Brand corn products: DKC64-35, DKC67-44, and DKC70-27 brands planted at five different planting rates: 21,000, 24,000, 27,000, 30,000, and 33,000 seeds/acre.

UNDERSTANDING THE RESULTS

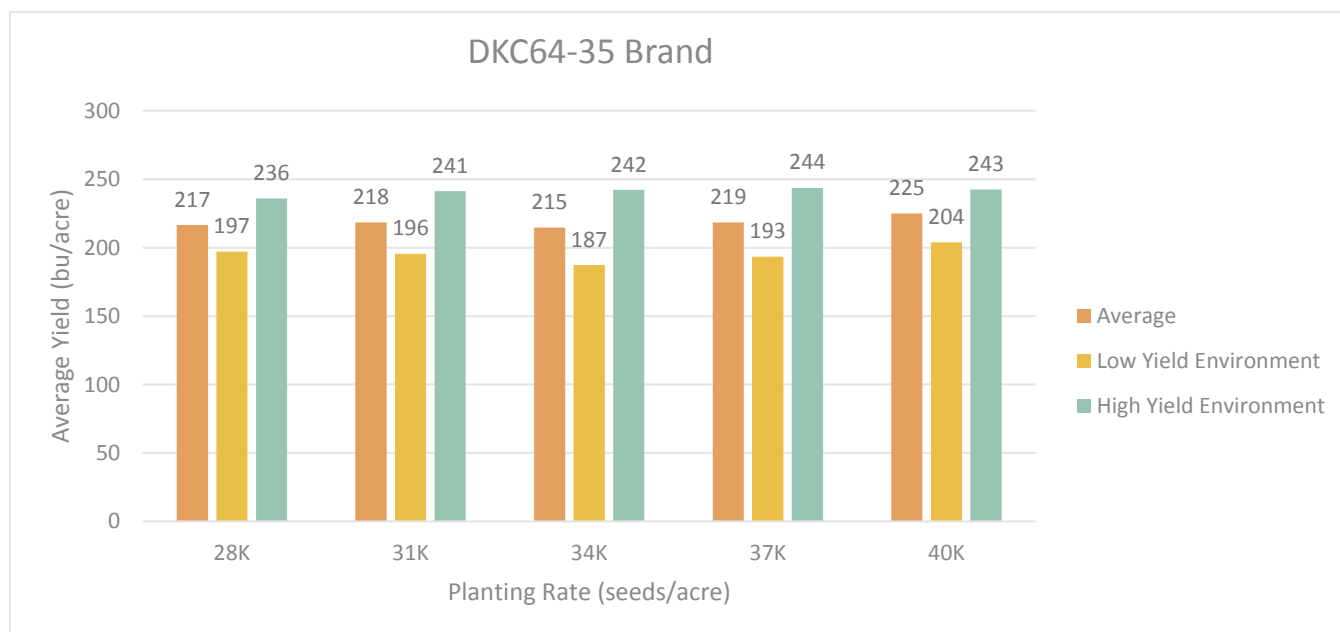


Figure 1. Average corn yield (bu/acre) of DKC64-35 brand across all locations, in low yield environments, and high yield environments.

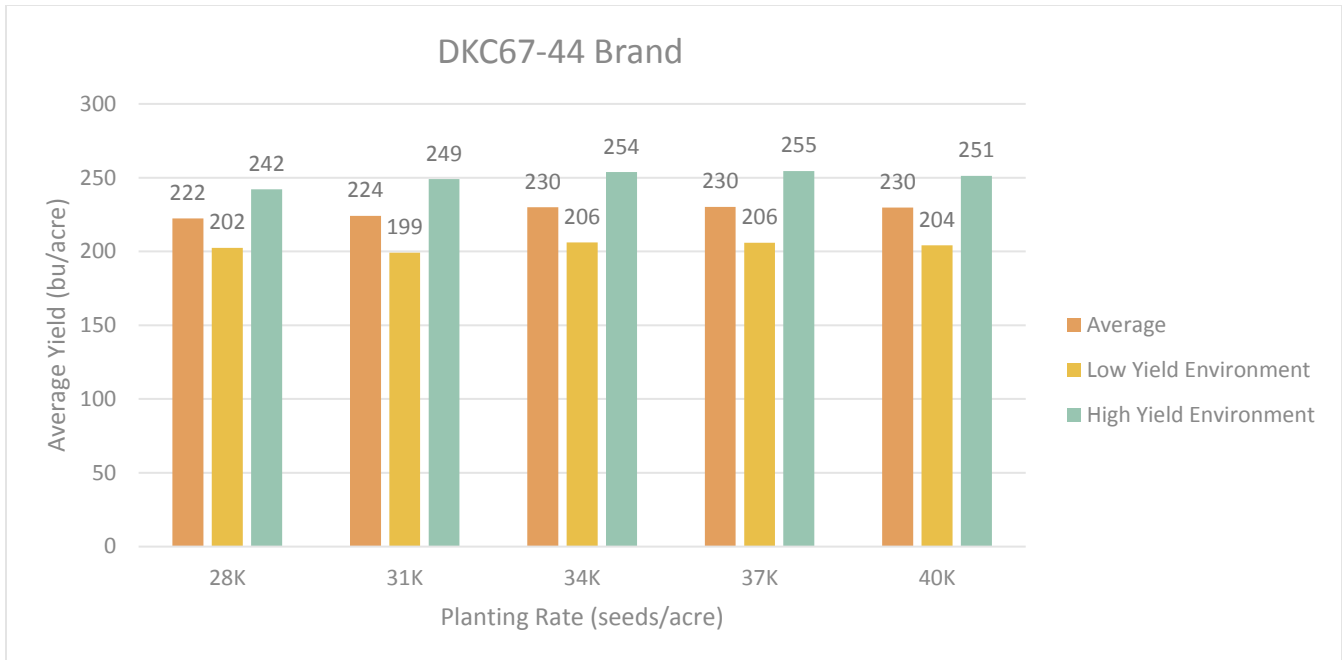


Figure 2. Average corn yield (bu/acre) of DKC67-44 brand across all locations, in low yield environments, and high yield environments.

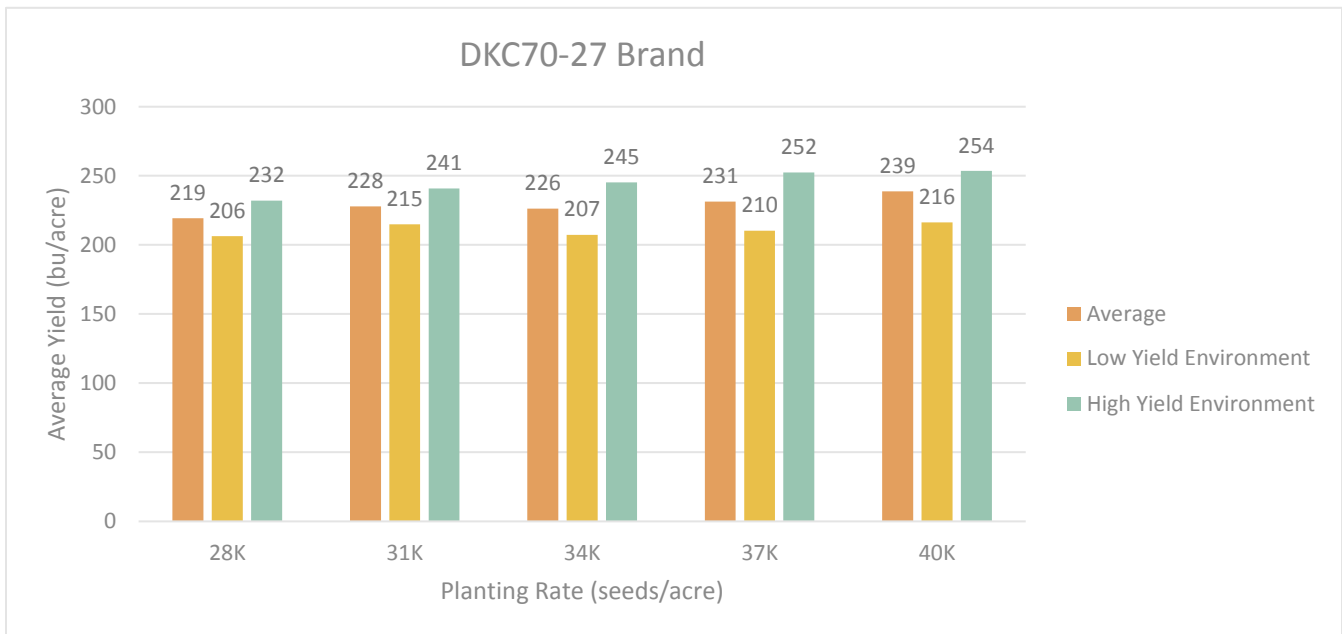


Figure 3. Average corn yield (bu/acre) of DKC70-27 brand across all locations, in low yield environments, and high yield environments.

- Net return is based on gross profit of \$4.00 per bushel less the retail cost of the seed.
- Half of the trial locations had yield environments of greater than 215 bushels per acre.
- For this trial, DKC64-35 brand had the highest net return at a planting rate of 31,000 seeds/acre in all yield environments tested.
- DKC67-44 brand had the highest net return at a planting rate of 34,000 seeds/acre in all yield environments tested. Stalk strength on DKC67-44 brand should be considered on rows that are at least 36-inches wide, and at populations of 34,000 seeds/acre or higher. Narrow rows of 30-inches or less can support higher populations.
- DKC70-27 brand had the highest net return at a planting rate of 37,000 seeds/acre in high yield environments and 31,000 seeds/acre in low yield environments.



WHAT DOES THIS MEAN FOR YOUR FARM?

- When selecting a corn product, it is important to understand corn product response to planting rate to gain the most optimal net return.

Legal Statement

For additional agronomic information, please contact your local brand representative. Developed in partnership with Technology Development & Agronomy by Monsanto. The information in this report is from a single, non-replicated 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 IRM where applicable, grain marketing, and all other stewardship practices and pesticide label directions.** ©2018 Monsanto Company All Rights Reserved. 180215191926 021918MEC