



CORN

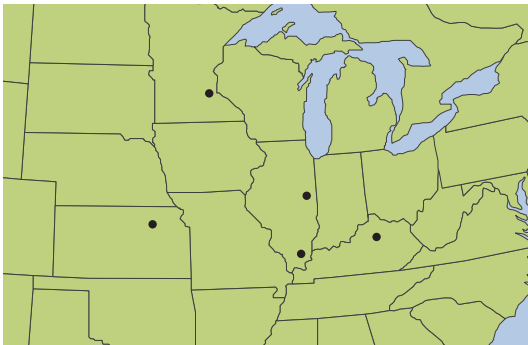
Aspire® Corn High Population

Objective

- Evaluate the yield response of Aspire® (0-0-58-0.5B) compared to MOP (0-0-60) at four different corn plant populations.

Overview

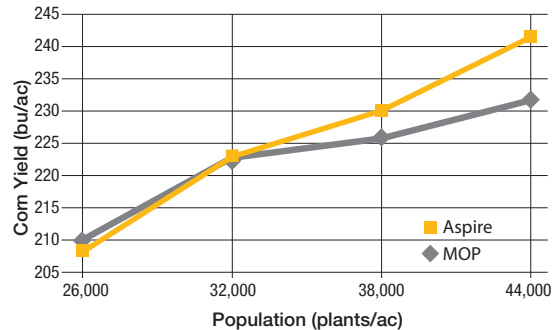
- Corn high-yield management practices, which include increased planting populations, have heightened the need for balanced crop nutrition.
- Micronutrients such as boron (B) are crucial for cell growth, reproductive development and to increase yield.
- The role of B in high-stressed situations has been shown to be beneficial in various studies.
- Other research has shown that phosphorus (P) and potassium (K) fertilizers containing micronutrients in a single granule provide increased nutrient distribution and crop nutrient uptake compared to conventional fertilizer blends.
- Aspire is the first-of-its-kind micronutrient-enhanced potash fertilizer. Formed using Nutriform® technology, Aspire premium potash combines potassium and boron in each granule to help achieve balanced crop nutrition.



LOCATIONS: 5 trials across the U.S.
 United States – IL, KS, KY, MN.

Results

Yield at Different Populations



Trial Details

Location and Crop Management:

CROP: Corn (*Zea mays*)

YEAR: 2014

DATA SOURCE: Field studies conducted by third-party, independent researchers.

EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

CROPPING CONDITIONS:

- **Hybrid:** Trait-stacked technology
- **Planting Populations:** 26, 32, 38 and 44K plants/ac
- **Fungicide:** Applied at pollination.
- **K Rate:** 60 lbs K₂O/ac applied as MOP or Aspire.
- **P Rate:** Applied to entire trial area based on soil test.
- **Application Timing:** Preplant
- **Application Method:** Broadcast incorporate.

Summary

- Corn yield increased with increasing population from 26,000 to 44,000 plants/ac for both MOP and Aspire.
- Aspire and MOP yields were similar at populations of 26,000 and 32,000 plants/ac.
- Aspire outyielded MOP by 4.6 bu/ac at a population of 38,000 plants/ac.
- Aspire increased yield by 10.6 bu/ac over MOP at 44,000 plants/ac.
- Increased response to Aspire with increasing population indicates the importance of B and balanced crop nutrition to meet the needs of a dense population.
- The results demonstrate the benefits of B and uniform nutrient distribution in a high-yield management system.



4.6
 bu/ac

Corn yield increase compared to MOP at a population of 38,000 plants/ac.

10.6
 bu/ac

Corn yield increase compared to MOP at a population of 44,000 plants/ac.



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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.

WARNING: Contains boron. Use of boron may result in crop injury. DO NOT place this product in direct contact with the seed. For more information, go to AspirePotash.com.

CornPOK-1380