



Aspire® Potato Trial (Long-Season Variety)

Objective

- Evaluate potato yield response to Aspire® with Boron (0-0-58-0.5B) compared to MOP (0-0-60) and MOP + B.

Overview

- Potassium (K) and boron (B) are key components of a potato nutrition program.
- Deficiencies of both K and B are often observed in coarse, well-drained, sandy soils.
- Boron is crucial for promoting tuber yield, internal quality and storability.
- Research has shown that K fertilizers containing micronutrients in a single granule provide improved nutrient distribution and increased crop nutrient uptake compared to conventional fertilizer blends.
- Aspire premium potash combines K and B in each granule to help achieve uniform nutrition distribution.

Trial Details

Locations and Crop Management:

CROP: Potato (*Solanum tuberosum*)

YEARS: 2015–2016

LOCATIONS: 2 trials – 1 trial per year at Becker, MN

DATA SOURCE: Field study conducted by the University of Minnesota.

EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

• **Soil Type:** Loamy sand

• **Cultivar:** Russet Burbank

CROPPING CONDITIONS:

• **K Rate:** 300 lbs K₂O/ac applied as MOP or Aspire

• **B Rate:** 2.5 lbs B/ac applied as granular B or Aspire

• **Application Method:** Preplant broadcast and incorporated

Aspire®

42
cwt/ac

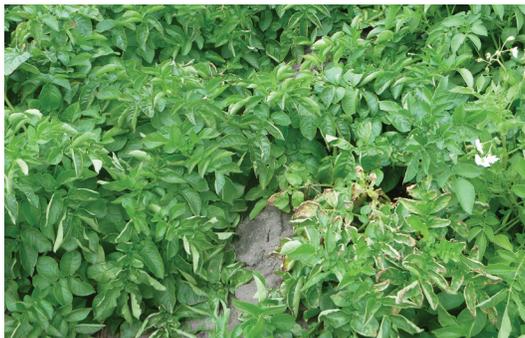
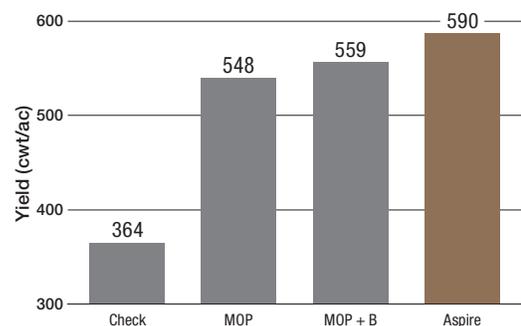
Increase with Aspire over MOP

31
cwt/ac

Increase with Aspire over MOP + B

Results

Potato Marketable Yield



Potassium deficiency observed in mid-August at trial in Becker, MN.

Summary

- The trial was responsive to both K and B.
- Marketable yield with Aspire was 42 cwt/ac (7.7%) higher than MOP.
- Marketable yield with Aspire was 31 cwt/ac (5.5%) higher than MOP + B.
- Higher marketable yields achieved using Aspire demonstrated the benefits of B and uniform nutrient distribution.

Mosaic®

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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.

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