



### Aspire® Potato Trial (Short-Season Variety)

#### Objective

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

#### 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 nutrient distribution.

#### **Trial Details**

#### **Locations and Crop Management:**

**CROP:** Potato (Solanum tuberosum)

YEARS: 2016-2017

LOCATIONS: 2 trials – 1 trial per year in NC

DATA SOURCE: Field studies conducted by a

 $third\hbox{-party independent contractor}.$ 

**EXPERIMENTAL DESIGN:** Small-plot RCBD with 4 replications.

- Soil Type: Loamy sand

- Cultivar: Atlantic

#### **CROPPING CONDITIONS:**

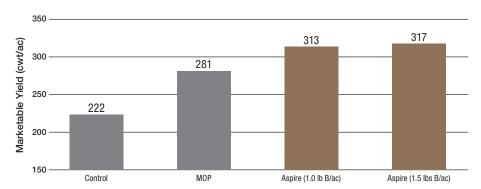
- Nitrogen and phosphorus were applied to the entire trial.
- K Rate: 180 lbs K<sub>2</sub>O/ac applied as MOP or Aspire
- •B Rate: 1.0 or 1.5 lbs B/ac applied as Aspire. To achieve 180 lbs K<sub>2</sub>O/ac, MOP was added to the Aspire (1.0 lb B/ac) treatment.
- Application Method: Preplant broadcast incorporated MARKETABLE YIELD:
- \*Size A (>1% in) + Size B (11/2-11/8 in)

## **Aspire**

# 36 cwt/ac

Increase with Aspire (1.5 lbs B/ac) over MOP

#### Results



#### **Summary**

- The trials were responsive to both K and B.
- Marketable yield with MOP was 59 cwt/ac (26.6%) higher than the control.
- Aspire (1.0 lb B/ac) increased marketable yield over MOP by 32 cwt/ac.
- Aspire (1.5 lbs B/ac) increased marketable yield over MOP by 36 cwt/ac.
- Higher yields were achieved using the Aspire treatment, demonstrating the benefits of B and uniform nutrient distribution of this micronutrient.



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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 **AspireBoron.com.** 

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