Mosaic®

AgriFacts®

SUGARCANE

Aspire® Sugarcane and Sugar Content Study

Objective

- Evaluate sugarcane yield and sugar content 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 sugarcane nutrition program.
- Deficiencies of both K and B are often observed in coarse, well-drained, sandy soils.
- Boron is crucial for cell growth, reproductive development and increased yield.
- Research has shown that K fertilizers containing micronutrients in a single granule provide improved nutrient distribution and increase 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: Sugarcane (*Saccharum officinarum*)

YEARS: 2013–2014; 2014–2015; 2015–2016

LOCATIONS: 6 crops (plant and ratoon) across 3 locations in FL

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

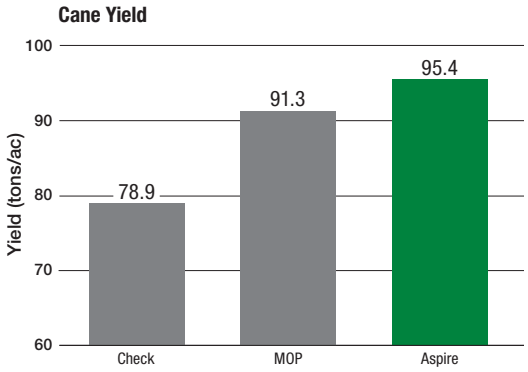
EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

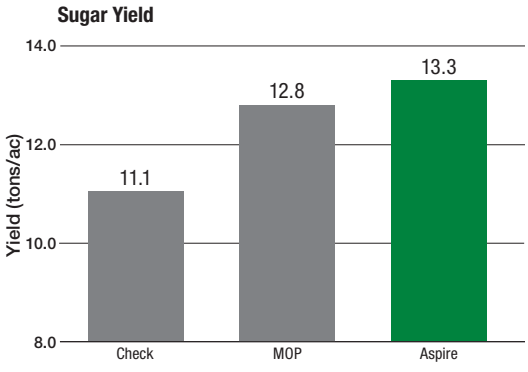
SOIL TYPE: Mineral (Sand) Soil

CROPPING CONDITIONS:

- **K Rate:** 250 lbs K_2O/ac applied as MOP or Aspire
- **B Rate:** 2.1 lbs B/ac applied as Aspire
- **Plant Cane:** 1/4 of total at planting
  1/4 in each of 3 sidedress applications
- **Ratoon Cane:** 1/4 in each of 4 sidedress applications

Results





Summary

- The trials were responsive to both K and B.
- Cumulative cane yield with Aspire was 4.1 tons/ac (4.5%) higher than MOP.
- Cumulative sugar yield with Aspire was 0.5 tons/ac (3.9%) higher than MOP.
- Higher yields achieved using Aspire demonstrate the benefits of B and uniform nutrient distribution.

Aspire®

4.1 tons/ac

Cumulative cane yield increase with Aspire over MOP

3.9%

Cumulative sugar yield increase with Aspire over MOP

Mosaic®

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**.

SCaneKRT–6985