



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 increased crop nutrient uptake compared to conventional fertilizer blends.
- Aspire premium potash combines K and B in each granule to help achieve uniform B distribution.

Trial Details

Locations and Crop Management:

CROP: Sugarcane (Saccharum officinarum)

YEARS: 2013-2014; 2016-2017

LOCATIONS: 4 crops (2 plant and 2 ratoon) across

2 locations in LA

DATA SOURCE: Field studies conducted by Louisiana

State University.

EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

CROPPING CONDITIONS:

- N and P Rate: As recommended by soil test
- K Rate: 120 lbs K₂O/ac applied as MOP or Aspire
- B Rate: 1 lb B/ac applied as Aspire
- Application Timing: Applied in March (plant and ratoon)
- Application Method: Broadcast incorporated by furrow tillage
- Soil Type: Silt loam soil at both locations

Aspire[®]

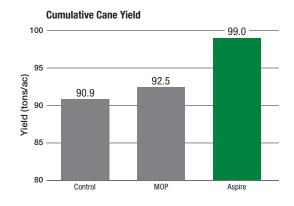
6.5 tons/ac

Cumulative cane yield increase with Aspire over MOP

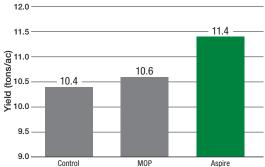
0.8 ton/ac

Cumulative sugar yield increase with Aspire over MOP

Results



Cumulative Sugar Yield



Summary

- Cane and sugar yield increased with the addition of K and B.
- Cumulative cane yield with Aspire was 6.5 tons/ac (7.0%) higher than MOP.
- Cumulative sugar yield with Aspire was 0.8 ton/ac (7.5%) higher than MOP.
- Higher cane yield and sugar content achieved using Aspire demonstrate the benefits of B and uniform nutrient distribution.

Appendix

Table 1. Cane yield and sugar content of Plant and Ratoon crops averaged across two sites.

	Plant Crop 2 Sites Average		Ratoon Crop 2 Sites Average	
Treatment	Cane Yield (tons/ac)	Sugar Yield (tons/ac)	Cane Yield (tons/ac)	Sugar Yield (tons/ac)
Control	46.8	5.2	44.1	5.1
МОР	46.1	5.5	46.4	5.2
Aspire	49.2	5.7	49.8	5.8
Aspire over MOP (tons/ac)	3.1	0.2	3.4	0.6
Aspire over MOP (%)	6.7	4.0	7.3	11.5



©2018 The Mosaic Company. All rights reserved. *AgriFacts* and Aspire are registered trademarks of The Mosaic Company.

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.**

SCaneKRT-9802