



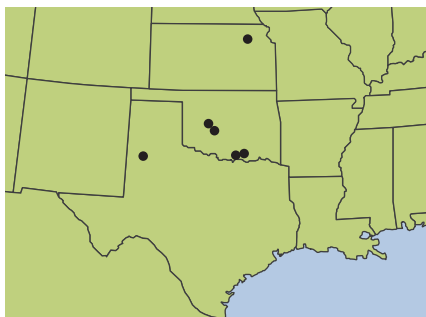
# MicroEssentials® SZ™ Winter Canola Fertility in the Southern Plains

## Objective

- Evaluate the yield response of winter canola to MicroEssentials® SZ™ (12-40-0-10S-1Zn) compared to MAP (11-52-0) + AS (21-0-0-24S) + ZnSO<sub>4</sub> (0-0-0-16.5S-36Zn).

## Overview

- Winter canola is typically grown in the south-central region of the United States.
- Proper applications of phosphorus (P) and sulfur (S) are critical for optimum canola yields.
- Blends of MAP + AS (ammonium sulfate) are commonly used as a primary fertilizer source in canola-growing regions of North America.
- MicroEssentials SZ is a premium P fertilizer that contains nitrogen (N), P, S and zinc (Zn) fused into one nutritionally balanced granule, leading to uniform nutrient distribution.
- MicroEssentials SZ contains two forms of S. Sulfate S (SO<sub>4</sub><sup>2-</sup>) is available early in the season while elemental S provides season-long availability.



**LOCATIONS:** 6 trials across the United States – KS, OK, TX

## Trial Details

### Locations and Crop Management:

**CROP:** Canola (*Brassica rapa* cv. 'Canola')

**YEARS:** 2015–2016

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

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

### CROPPING CONDITIONS:

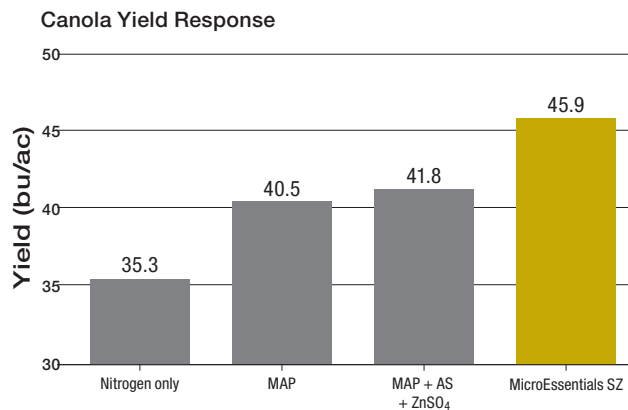
**P Rate:** 33 lbs P<sub>2</sub>O<sub>5</sub>/ac

**K Rate:** As recommended by the soil test.

**Application Timing:** Preplant

**Application Method:** Broadcast incorporate.

## Results



## Summary

- MicroEssentials SZ showed a 5.4 bu/ac (13.3%) yield advantage over MAP.
- MicroEssentials SZ increased yield by 4.1 bu/ac (9.8%) over MAP + AS + ZnSO<sub>4</sub>.
- This research demonstrates the benefits of balanced crop nutrition and a season-long supply of S from MicroEssentials SZ.

MicroEssentials®

**5.4**  
 bu/ac

Increase with MicroEssentials SZ over MAP



©2016 The Mosaic Company. All rights reserved. AgriFacts and MicroEssentials are registered trademarks and SZ is a trademark 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.

For more information, go to [MicroEssentials.com](http://MicroEssentials.com).

MES-5895