



MicroEssentials® SZ™ Fall vs. Spring Application Corn

Objective

- Evaluate the yield response of MicroEssentials® SZ™ (12-40-0-10S-1Zn) in fall and spring applications compared to MAP (11-52-0).

Overview

- MAP is commonly used as a phosphorus source in corn-growing regions of North America.
- Fall applications of MAP and MAP blends may be preferred in certain cropping systems to distribute seasonal workload, but spring applications are also a common practice in the Midwest.
- MicroEssentials SZ (12-40-0-10S-1Zn) contains four nutrients fused into one nutritionally balanced granule to promote uniform nutrient distribution, improved nutrient uptake and increased yield. Along with sulfate for early growth and development needs, MicroEssentials SZ contains 50% of the product's total sulfur content in the elemental form (S⁰).

Results

Figure 1

Corn Yield with Fall-Applied Fertilizers

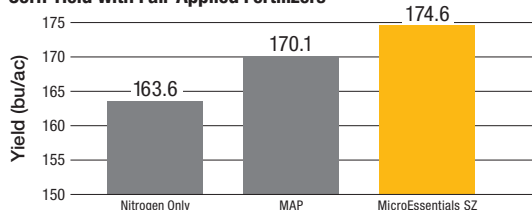
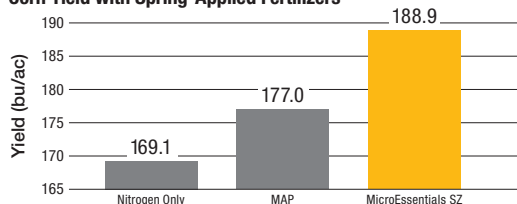


Figure 2

Corn Yield with Spring-Applied Fertilizers



Trial Details

Locations and Crop Management:

CROP: Corn (*Zea mays*)

YEARS: 2012–2014

LOCATIONS: 9 locations across the U.S. United States – IN, MN, NE, SD

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

EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

CROPPING CONDITIONS:

- N Rate: Recommended nitrogen (N) was balanced for fall and spring treatments separately.
- P Source: MAP, MicroEssentials SZ
- P Rate: 80 lbs. P₂O₅/ac
- K Rate: As required by soil test.
- Application Timing: Fall and spring preplant
- Application Method: Broadcast incorporate.

Summary

- MicroEssentials SZ had the highest yield in both fall and spring applications.
- MicroEssentials SZ yields were 4.5 bu/ac higher than MAP with the fall application.
- MicroEssentials SZ yields were 11.9 bu/ac higher than MAP with the spring application.
- Regardless of fall or spring application, MicroEssentials SZ is a superior phosphorus source to MAP.

MicroEssentials

4.5
bu/ac

Yield increase with fall application of MicroEssentials SZ over MAP

11.9
bu/ac

Yield increase with spring application of MicroEssentials SZ over MAP



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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.

For more information, go to MicroEssentials.com.

CornFFS-1101