

Mosaic® AgriFacts®



CORN

MicroEssentials® SZ™ High-Yield- Management Corn

Objective

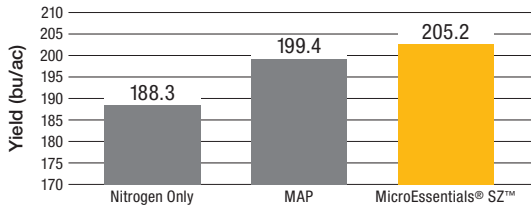
- Evaluate the yield response of MicroEssentials® SZ™ (12-40-0-10S-1Zn) compared to MAP (11-52-0) in high-yield-management systems.

Overview

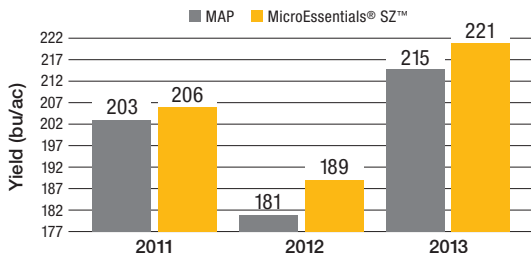
- High-yield-management practices, including stacked-trait hybrid technology, increased seeding rates, fungicide applications and split application of nitrogen, have highlighted the need for balanced crop nutrition.
- MAP is a common P fertilizer used in corn-growing regions of North America.
- In addition to N, P and K, corn is very responsive to S and Zn.
- MicroEssentials SZ contains N, P, S and Zn fused into one nutritionally balanced granule, creating a single source for balanced crop nutrition.

Yield

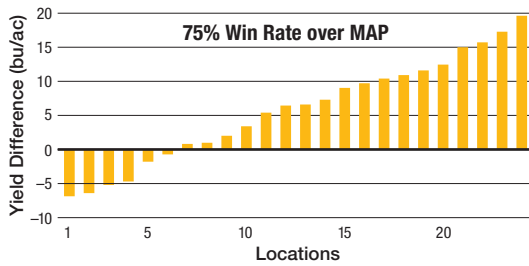
Average Corn Yield Across 3 Years and 24 Sites



Corn Yield Response to MicroEssentials® SZ™ in Different Years



Average Yield Difference of MicroEssentials SZ as Compared to MAP for 3 Years



Trial Details

Locations and Crop Management:

CROP: Corn (*Zea mays*)

YEAR: 2011–2013

LOCATIONS: 24 trials across the U.S. and Canada
United States – IA, IL, IN, MI, MN, NE, OH, SD, TX, WI
Canada – ON

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

EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

CROPPING CONDITIONS:

- **Hybrid:** Stacked-trait technology
- **Planting Rate:** 40K – 45K seeds/ac
- **Fungicide:** Applied at pollination
- **Application Timing:** Preplant
- **Application Method:** Broadcast incorporate

Summary

- Corn yield response to MicroEssentials SZ was consistent across 3 years and a wide range of environmental conditions.
- For 3 years, corn yield increased by 5.8 bu/ac when MicroEssentials SZ was compared to MAP.
- MicroEssentials SZ demonstrated a 75% win rate over MAP across 24 sites and 3 years.
- These results show the benefits of uniform nutrient distribution and balanced crop nutrition with MicroEssentials SZ in corn high-yield-management systems.

MicroEssentials

5.8 bu/ac

Corn yield increase compared to MAP

75%

Win rate of MicroEssentials 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.