



CORN

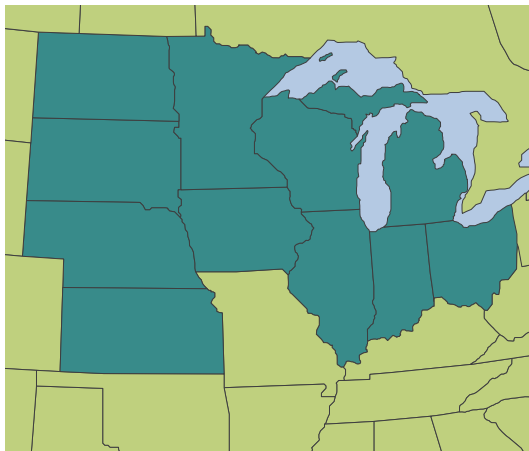
MicroEssentials S10[®] vs. MAP+AS in High-Yielding Corn

Objective

- Evaluate the yield response of corn to MicroEssentials S10[®] (12-40-0-10S) compared to MAP (11-52-0) + Ammonium Sulfate (AS, 21-0-0-24S) in high-yielding environments.

Overview

- Sulfur (S) is a secondary macronutrient that is needed for corn growth and development but is mobile in the soil and can be prone to leaching beyond crop accessibility.
- Adequate S availability during both vegetative and reproductive growth is critical for maximum corn yield.
- MicroEssentials S10 supplies multiple nutrients fused into one nutritionally balanced granule, promoting uniform nutrient distribution, increased nutrient uptake, season-long S availability, and higher yields.



LOCATIONS: 31 trials across the following states - IA, IL, IN, KS, MI, MN, ND, NE, OH, SD, WI

Trial Details

CROP: Corn (*Zea mays*)

YEARS: 2020-2024

DATA SOURCE: Replicated small-plot field studies conducted by university and/or independent third-party researchers. Trials were selected if the two treatment average was \geq 120% of the U.S. average corn yield (173.3 bu/ac) (USDA-NASS, 2021).

CROPPING CONDITIONS:

- All trials conformed to local cropping practices

N Rate: Applied according to local recommendations

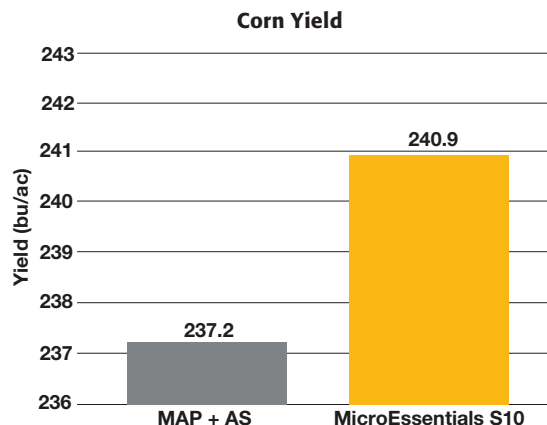
P Rate: 70 or 80 lbs P₂O₅/ac applied as MicroEssentials S10 or MAP. Treatment comparisons balanced for P

S Rate: 17.5 or 20 lbs S/ac applied as MicroEssentials S10 or AS

Application Timing: Preplant

Application Method: Broadcast

Results



3.7
bu/ac

Yield increase with MicroEssentials S10 over MAP+AS



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

CornFRP20, CornSUW22, CornTWF20-21, CornTWS20-21, ZEAMX-125-23, ZEAMX-119-24

Summary

- MicroEssentials S10 increased yield 3.7 bu/ac over MAP+AS averaged across 31 site-years in high yield environments.
- MicroEssentials is uniquely designed to deliver nutrients evenly across the field, while delivering more value by increasing nutrient uptake.
- While most blends and sulfur-enhanced fertilizers contain sulfate-S alone, MicroEssentials supports high-yield S demands by delivering season-long S availability through its combination of both sulfate and elemental S.