

#### CORN

## MicroEssentials<sup>®</sup> S10<sup>®</sup> vs. DAP + AS in High-Yielding Corn

#### Objective

• Evaluate the yield response of corn to MicroEssentials® S10® (12-40-0-10S) compared to DAP (18-46-0) + 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 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, seasonlong S availability, and higher yields.

### **Trial Details**

CROP: Corn (Zea mays) YEARS: 2017-2021

**DATA SOURCE:** Field studies conducted by university and/or independent third-party researchers. Trials were selected if the average of the two treatments was  $\ge 20\%$ 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: 80 lbs P2O5/ac applied as MicroEssentials S10 or DAP
- S Rate: 20 lbs S/ac applied as MicroEssentials S10 or AS
- Application Timing: Preplant

Results

Application Method: Broadcast





LOCATIONS: 34 trials across the following states -AR, IA, IL, IN, KS, KY, MN, NC, ND, NE, OH, SD, TN, WI

#### Summary

- MicroEssentials S10 increased yield 3.4 bu/ac over DAP + AS when averaged across 34 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 fertilizer products contain sulfate-S alone, MicroEssentials supports highyield S demands by delivering season-long S availability through its combination of both sulfate and elemental S.

# Micro**Essentials**

**3.4** bu/ac

Yield increase with MicroEssentials S10 over DAP + AS



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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**.