



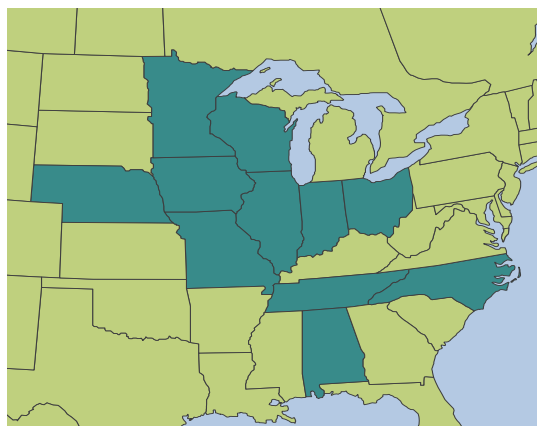
## MicroEssentials S10® vs TSP in Corn

### Objective

- Evaluate the yield response of corn to MicroEssentials S10® (12-40-0-10S) compared to Triple Super Phosphate (TSP, 0-46-0).

### Overview

- Corn needs sulfur (S) all season long. MicroEssentials includes two forms of S, providing both early and late-season S, along with nitrogen (N) and phosphorus (P) in each granule.
- MicroEssentials S10 uses technology that creates a unique chemistry around the fertilizer granule which results in increased nutrient uptake and increased crop yield compared to TSP.
- TSP contains 15% calcium (Ca), increasing the opportunity for P fixation, especially in calcareous soils.



**LOCATIONS:** 23 trials AL, IA, IL, IN, MN, MO, NC, NE, OH, TN, WI

### Trial Details

#### Locations and Crop Management:

**CROP:** Corn (*Zea mays* L.)

**YEARS:** 2019-2024

**DATA SOURCE:** Replicated small-plot field studies conducted by university and/or independent third-party researchers yielding over the 2024 national yield average of 179 bu/ac

**CROPPING CONDITIONS:** All trials conformed to local cropping practices

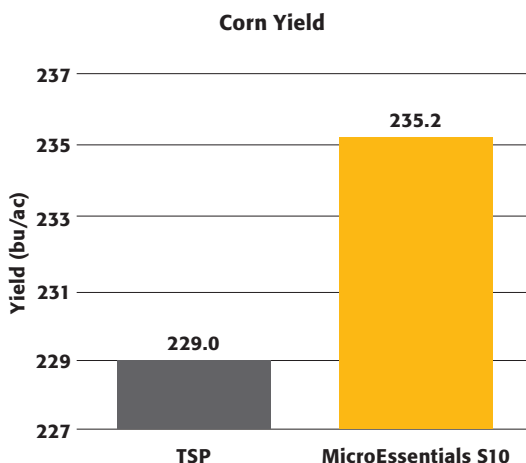
**N Rate:** Balanced across treatments and applied according to local recommendations

**P Rate:** 60 or 80 lbs P<sub>2</sub>O<sub>5</sub>/ac applied as MicroEssentials S10 or TSP. Treatment comparisons balanced for P

**Application Timing:** Preplant

**Application Method:** Broadcast

### Results



MicroEssentials®

**6.2**  
bu/ac

Yield increase with  
MicroEssentials S10  
over TSP



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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](https://MicroEssentials.com).

CornTEF20, CornTEF21, CornTES20, CornTES21, CornTSP19, CornTWF20, CornTWF21, CornTWS20, CornTWS21, ZEAMX132-2024  
ME 1675 5/2025

### Summary

- MicroEssentials S10 increased yield 6.2 bu/ac over TSP averaged across 23 site-years.
- Phosphate from MicroEssentials is more available than P from TSP, especially as soil pH increases.
- With N, P, and S, MicroEssentials provides complete crop nutrition in each granule. The result is uniform nutrient distribution and more effective delivery of essential crop nutrients than TSP or TSP blends can provide.