



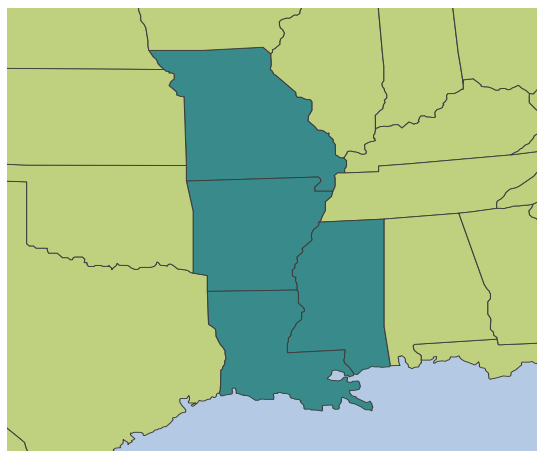
MicroEssentials SZ® vs TSP in Rice

Objective

- Evaluate the yield response of rice to MicroEssentials SZ® (12-40-0-10S-1Zn) compared to TSP (0-46-0).

Overview

- Meeting a rice crop's nutrition needs for phosphorus (P), sulfur (S), and zinc (Zn) is critical for optimizing yields.
- MicroEssentials SZ is a performance fertilizer that combines nitrogen (N), P, two forms of S providing season-long sulfur availability, and Zn into one granule to promote uniform nutrient distribution for higher yields.
- Commodity fertilizers such as TSP provide P but lack several other essential nutrients.
- MicroEssentials SZ uses technology that creates a unique chemistry, resulting in increased nutrient uptake and crop yield compared to TSP.



LOCATIONS: 7 trials AR, LA, MO, MS

Trial Details

Locations and Crop Management:

CROP: Rice (*Oryza sativa* L.)

YEAR: 2010

DATA SOURCE: Replicated small-plot field studies conducted by the University of Arkansas, Louisiana State University, University of Missouri, and Mississippi State University

CROPPING CONDITIONS: All trials conformed to local cropping practices

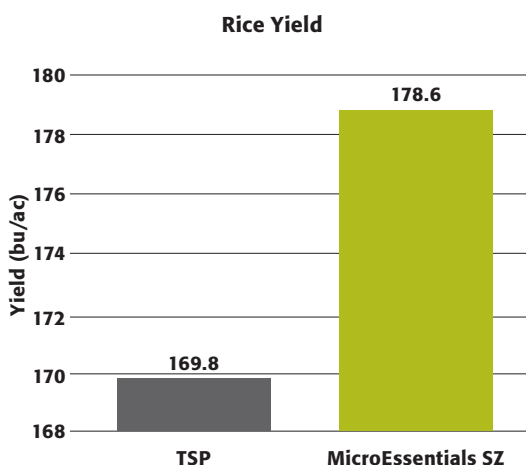
N Rate: Balanced across treatments and applied according to local recommendations

P Rate: 40 lbs P_2O_5 /ac applied as MicroEssentials SZ or TSP. Treatment comparisons balanced for P

Application Timing: Preplant

Application Method: Broadcast

Results



MicroEssentials®

8.8
bu/ac

Yield increase with
MicroEssentials SZ
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.

RiceFRT10, RiceWPK10
ME 1674 5/2025

Summary

- MicroEssentials SZ increased yield 8.8 bu/ac over TSP averaged across 7 sites.
- MicroEssentials SZ is uniquely designed to deliver nutrients evenly across the field, while delivering more value by increasing nutrient uptake and yield.