



MicroEssentials® SZ® Potato Study

Objective

 Evaluate potato yield response to MicroEssentials® SZ® (12-40-0-10S-1Zn) compared to MAP (11-52-0).

Overview

- Nitrogen (N), phosphorus (P), sulfur (S), and zinc (Zn) are key components of a potato nutrition program.
- Season-long S availability is critical for improved chlorophyll production, carbohydrate synthesis, and ultimately yield.
- Zinc is necessary in various enzymatic reactions and therefore influences tuber starch and protein levels.
- MicroEssentials SZ contains four nutrients (N, P, S, and Zn) combined into one granule, providing uniform nutrient distribution, increased nutrient uptake, and season-long S availability.

Trial Details

Locations and Crop Management:

CROP: Potato (Solanum tuberosum)

YEARS: 2018-2019

LOCATIONS: 6 trials (MB, MN, ND)

DATA SOURCE: Field studies conducted by independent

third-party researchers.

EXPERIMENTAL DESIGN: Small-plot RCBD with

4 replications.

Cultivar: Russet Burbank **CROPPING CONDITIONS:**

N Rate: Followed local recommendations **P Rate:** 80 lbs P₂O₆/ac applied as MAP or

MicroEssentials SZ

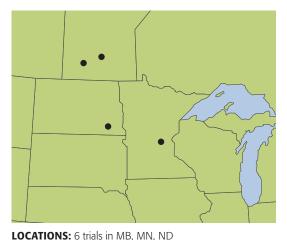
K Rate: 300 lbs K₂O/ac as MOP to the entire trial **Application Method:** Preplant broadcast and

incorporated

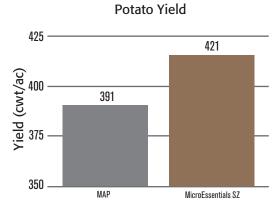
MicroEssentials SZ

30 cwt/ac

MicroEssentials SZ over MAP



Results



Summary

- Potatoes responded to the addition of S and Zn.
- MicroEssentials SZ increased marketable yield over MAP by 30 cwt/ac.
- These results demonstrate the benefit of higher yield from key features of uniform nutrient distribution, increased nutrient uptake, and season-long S availability.
- For more information, visit MicroEssentials.com/Performance.



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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**.

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