Mosaic® AgriFacts®

POTATO

MicroEssentials® S10® — Potato Study

MicroEssentials®

Objective

- Evaluate the yield response of potato to MAP (11-52-0) and MicroEssentials® S10® (12-40-0-10S).

Overview

- Phosphorus (P) management is a critical component of potato production systems and MAP is commonly used as a P source.
- Additionally, sulfur (S) has been shown to increase tuber yield and quality.
- MicroEssentials S10 is a premium P fertilizer that provides uniform nutrient distribution, increased nutrient uptake, and two forms of S (sulfate + elemental) for season-long S availability.

Sulfur Deficiency in Potato

Trial Details

Locations and Crop Management:

CROP: Potato (*Solanum tuberosum*)

YEARS: 2017-2018

LOCATIONS: 10 trials across the US and Canada – ID, MB, MI, MN, ND, OR, WI

DATA SOURCE: Field studies conducted by independent third-party researchers.

EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.

N Rate: Followed local recommendations.

P Rate: 80 lbs P_2O_5/ac as MAP or MicroEssentials S10

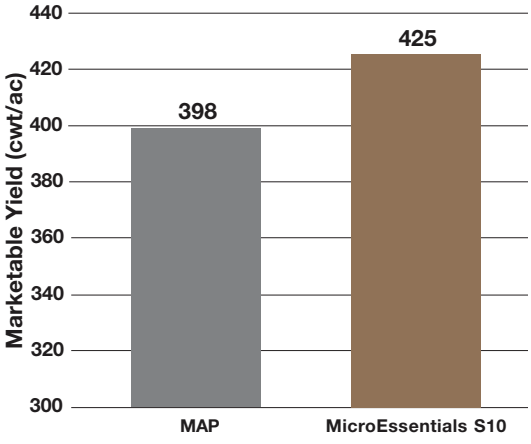
K Rate: 300 lbs K_2O/ac blanket applied across entire trial

Application Timing: Spring Preplant

Application Method: Broadcast incorporated

Results

Potato Yield



27 cwt/ac

Increased yield with MicroEssentials S10 over MAP

Summary

- The addition of a premium phosphate source containing two forms of S can increase marketable potato yield.
- Averaged across 10 site-years, MicroEssentials S10 outperformed MAP by 27 cwt/ac.
- These results demonstrate the benefit of higher yield from key features of uniform nutrient distribution, increased nutrient uptake and season-long supply of S (sulfate + elemental).
- 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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