



## WINTER WHEAT

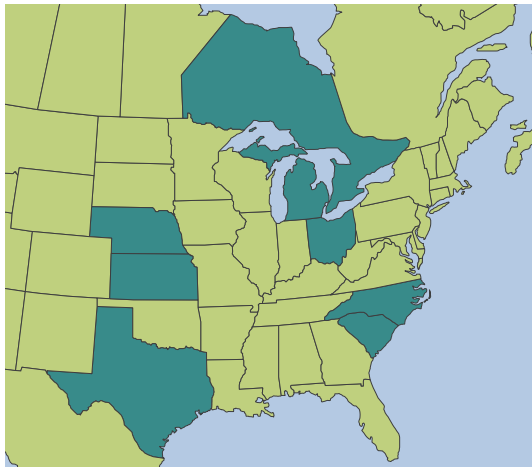
# Performance Acre MicroEssentials SZ<sup>®</sup> + Aspire<sup>®</sup> vs MAP + MOP in Wheat

### Objective

- Evaluate the winter wheat yield response to MicroEssentials SZ<sup>®</sup> (12-40-0-10S-1Zn) + Aspire<sup>®</sup> (0-0-58-0.5B) compared to a combination of MAP (11-52-0) + MOP (0-0-60).

### Overview

- Phosphorus (P), potassium (K), and sulfur (S), along with zinc (Zn) and boron (B), are all essential nutrients needed for a balanced crop nutrition program in winter wheat.
- MicroEssentials SZ supplies nitrogen (N), P, two forms of S for season-long availability and Zn into one nutritionally balanced granule to promote uniform nutrient distribution and higher yields.
- Aspire is an innovative K fertilizer that uses Nutriform<sup>®</sup> technology to combine potash along with two forms of B (fast and slow-release) into every granule. This combination delivers B uniformly for uptake throughout the growing season and provides a flexible application window.



**LOCATIONS:** 19 trials across the following states - KS, MI, NC, NE, OH, SC, TX and Ontario, Canada

### Trial Details

#### Crop Management:

**CROP:** Winter Wheat (*Triticum aestivum*)

**YEARS:** 2020-2021

**LOCATIONS:** 19 site years

**DATA SOURCE:** Replicated small-plot field trials conducted by university and/or independent third-party researchers.

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

**N Rate:** Applied according to local recommendations.

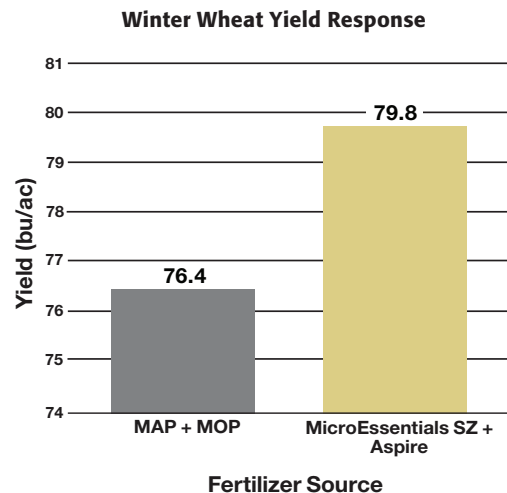
**P Rate:** 40 lbs P<sub>2</sub>O<sub>5</sub>/ac applied as MicroEssentials SZ or MAP.

**K Rate:** Either 30 or 60 lbs K<sub>2</sub>O/acre applied equally as Aspire or MOP based on trial location and local practices.

**Application Timing:** Preplant

**Application Method:** Broadcast and incorporated

### Results



### Summary

- MicroEssentials SZ + Aspire increased yield 3.4 bu/ac over MAP+MOP across 19 trials in 2020 & 2021.
- Higher yields are achieved by using MicroEssentials SZ and Aspire together and demonstrate the value of uniform nutrient distribution, as well as the efficiency that two forms of sulfur and two forms of boron both have in providing season long nutrient availability.




# 3.4 bu/ac

Increased yield with MicroEssentials SZ & Aspire over MAP+MOP



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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 [croplife.com](http://croplife.com).

WWHTFKE & FKW 2020-2021