

# 2023 Michigan Wheat Field Day

## Soil Fertility & Nutrient Management Research

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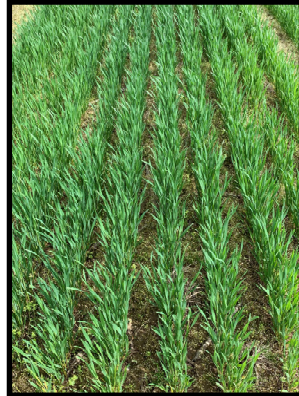
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### Soil Fertility: More Inputs or the “Right” Inputs

#### When is the right time to start thinking about managing winter wheat?

Examine the following pre-plant soil test report and consider what needs to be addressed: 55 ppm (BrayP1), 68 ppm K, 245ppm Mg, 1200 ppm Ca, 12 ppm S, 8.2 CEC, 7.2 soil pH. What should be applied and when? Does planting date matter?

**WHY?** Take a look at the Feekes 7 wheat photos below involving various autumn nutrient management practices. Observe any differences?

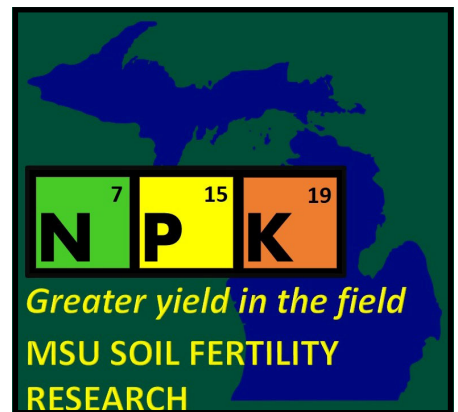


### Integrating Fertilizer and Fungicide Strategies

**Does autumn nutrient management influence fungicide application timing and strategies?** Trials continuing evaluating 2 rates of autumn starter, 5 fungicide application combinations, and late-season applied N (F7) on yield, straw, and grain quality.

#### 2022 field trials showed the following:

- Autumn starter improved grain and straw yield, tiller counts, head counts, canopy coverage, and greenness
- Little disease pressure thus few fungicide strategy impacts
- Cool, wet spring 2022 conditions resulted in late-season N improving grain protein content
- Take a pre-plant soil sample!



Additional research results and observations always available at [soil.msu.edu](https://soil.msu.edu)