

2019 Michigan Wheat Field Day

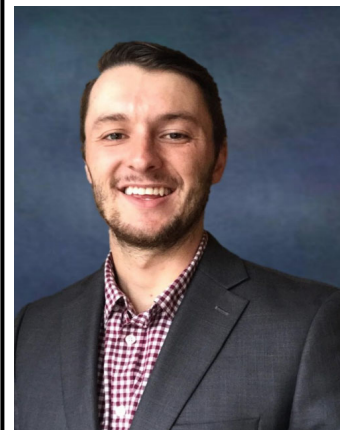
Soil Fertility & Nutrient Management Research

Kurt Steinke, Soil Fertility soil.msu.edu
Seth Purucker, Graduate Student

June 2019

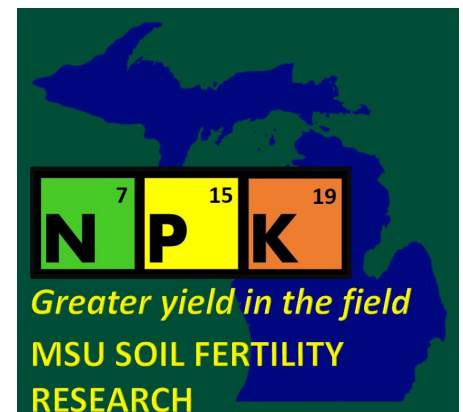
Sorting Through the Puzzle: Management Options for Winter Wheat

- **WHAT?** Does integrating agronomic and nutrient management strategies together under an enhanced managed system improve grain yield or impact grain quality and expected profitability?
- **WHY?** Continued improvements in wheat yield have created greater focus on specific inputs rather than a suite of input applications within enhanced managed systems; Can below recommended seeding rates better utilize individual or multiple inputs?
- Second year (2019) trials underway evaluating both soft red and soft white wheat response to individual and combination treatments
- Inputs evaluated include: seeding rate, spoon-fed weekly N application, autumn applied starter fertilizer (12-40-0-10S-1Zn), high-N rate, plant growth regulator, and fungicide



2018 Preliminary Results:

- Removal of fungicide and autumn starter fertilizer from enhanced management decreased yield 12.0 and 14.1 bushels (bu) per acre, respectively.
- Addition of autumn starter fertilizer at 1.8 million seeds per acre increased yield 10.1 bu per acre.
- Adding autumn starter increased tiller counts while removing starter reduced tiller counts; Planting date may impact starter response; Look beyond N individually; Don't Guess, Soil test!



Additional research results and observations always available at soil.msu.edu