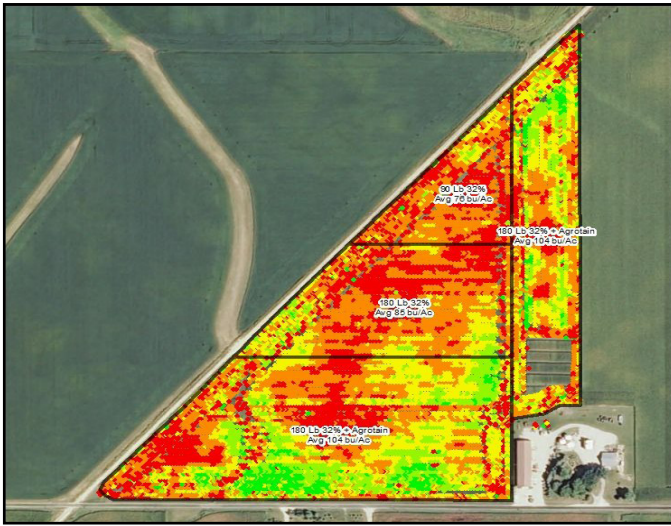


## Steffen Agrotain Demo



### 4Rs

- Right Rate: Comparing 2 Rates
- Right Source: UAN vs. UAN with Agrotain

## Discussion

Herb and Aaron Steffen hosted a demonstration and two NUE trials and operate a 900-acre grain farm in southern Livingston and northern McLean counties.

They plant corn continuously on two-thirds of the acres and rotate planting of corn and soybeans on the rest. Their minimum tillage practices leave at least 30% of the previous crops' residue on the soil surface. This residue decreases soil erosion and feeds nutrients back to the soil.

The Steffens apply nitrogen after the corn plants emerge, when nutrient needs are the greatest. This minimizes nitrogen lost to air and water.

To help maximize efficiency, farmers must select the right nutrient source. A controlled-release nitrogen source such as Koch Agronomic Service's Agrotain® may offer benefits.

Agrotain® blocks the enzyme urease to prevent nitrogen loss, which begins the moment the farmer applies fertilizer or manure. Losses add up over time, decreasing profitability and increasing nitrogen's potential to pollute. This product allows the crop to access the nitrogen it needs immediately, but controls losses in the first critical weeks after application.

This demonstration compared the effectiveness of 32% UAN Solution versus 32% UAN Solution with Agrotain® at two different rates. This demo showed that Agrotain® increased yield by preventing some nitrogen loss. However, harvest yield data showed that field moisture conditions had greater influence on yield than addition of nitrogen stabilizers.

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