

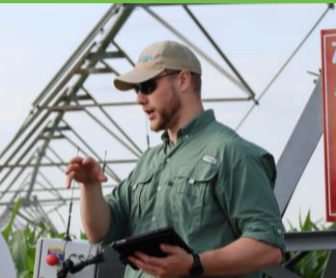


SENTINEL

FERTIGATION

AGRONOMIC INTELLIGENCE FOR OPTIMAL NUTRIENT MANAGEMENT

The Sentinel Story



A problem worth solving. Farmers need **a better way to optimize Nitrogen use to ensure strong yields while reducing wasted \$ and nitrate runoff.** Our CEO & Founder, Jackson Stansell, came to the University of Nebraska–Lincoln as a Master's student to help solve the nitrogen problem.

A solution based on research, proven in the field.

Jackson and a team of researchers developed and implemented a way for growers to **use field imagery to inform nitrogen management decisions.** The technology performed exceptionally well in on-farm trials, improving NUE while reducing N use.

Results worth scaling. The Sentinel team is now putting this solution, called N-Time®, into the hands of growers across the Heartland. N-Time™ **helped growers save an average of 42 lbs-N/acre** during the 2022 growing season.



N-TIME™

1. Imagery



- 3m/pixel
- NDRE

AIRBUS

- 30cm/pixel
- NDRE

2. Analytics

- Isolate N impacts
- N sufficiency index
- N status classification
- 7-day crop need outlook



3. Recommendations

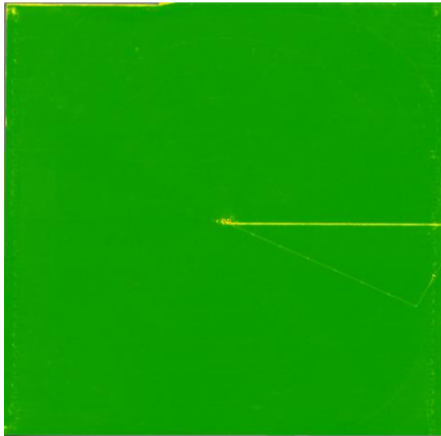
- Apply or Don't Apply
- Rx for application
- Text message or push notification delivery



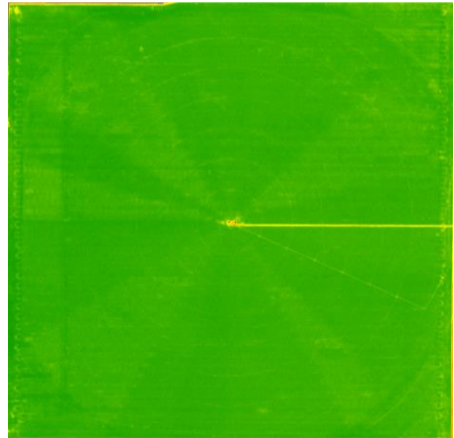
Superior Vegetative Index



NDVI



NDRE

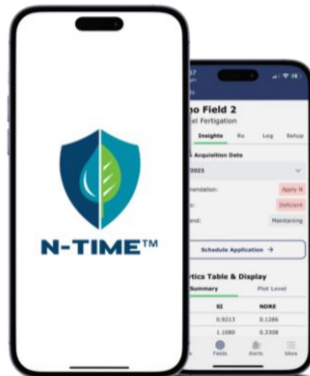


Access N-Time® Anytime, Anywhere

N-Time on the web



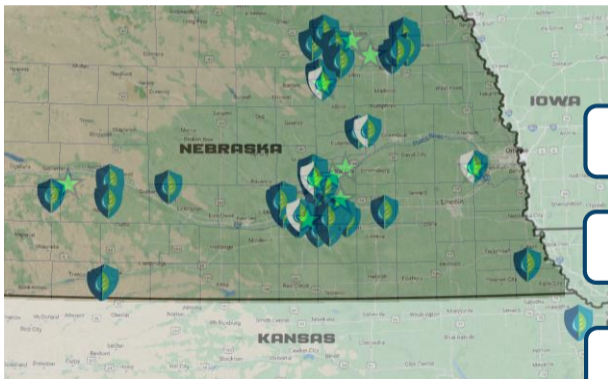
N-Time mobile app



<https://ntime.sentinfertigation.com/auth>



Research to Results



Research

\$22.56

per-acre
nitrogen savings

25%

increase in yield per pound
of applied nitrogen

43 LB/AC

average
nitrogen savings



2022 Results*

\$40

per-acre
nitrogen savings

23%

increase in yield per pound
of applied nitrogen

42 LB/AC

average
nitrogen savings

*42 sites analyzed