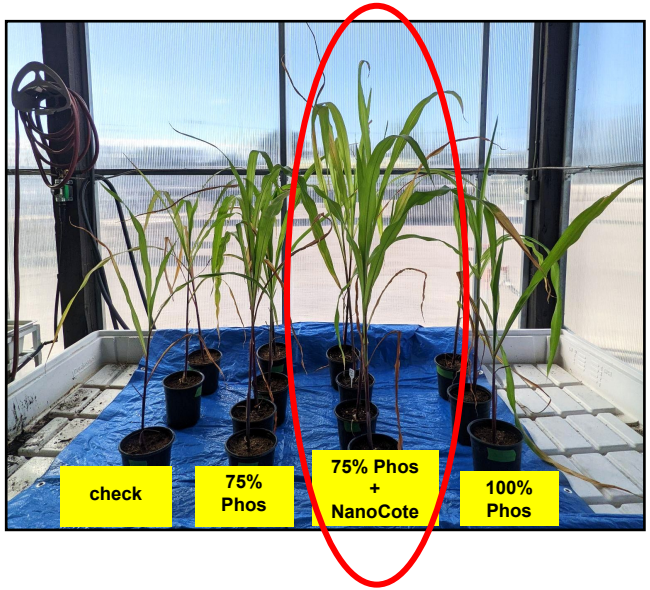
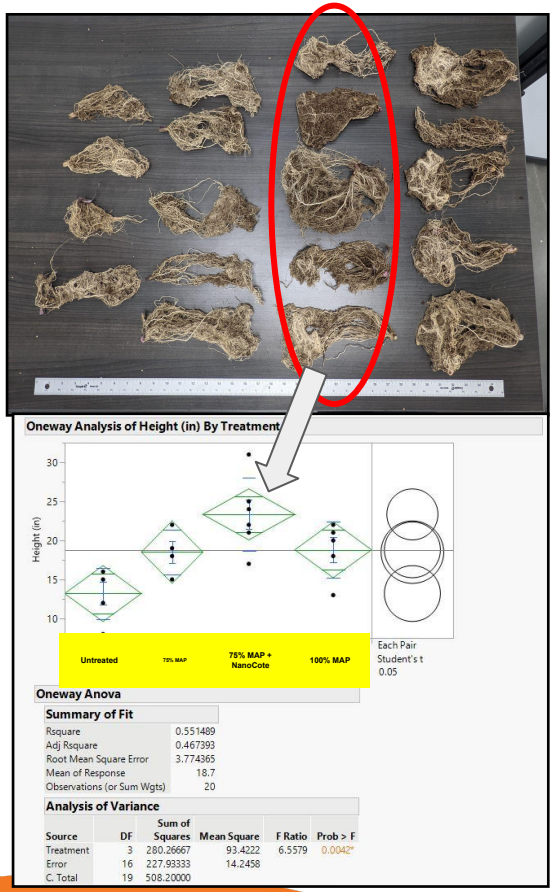
Greenhouse and Field Data

Initial Greenhouse Data

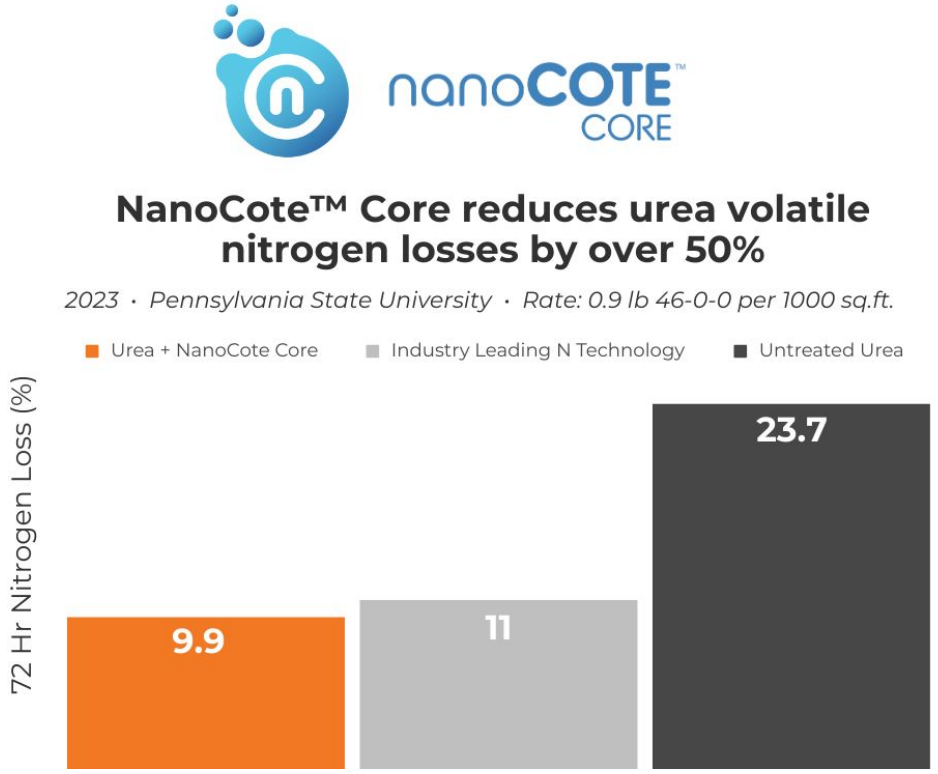
Proof of Concept





Preventing Nitrogen Loss vs. Industry Standard

NanoCote **reduced** urea **volatile losses by over 50%**

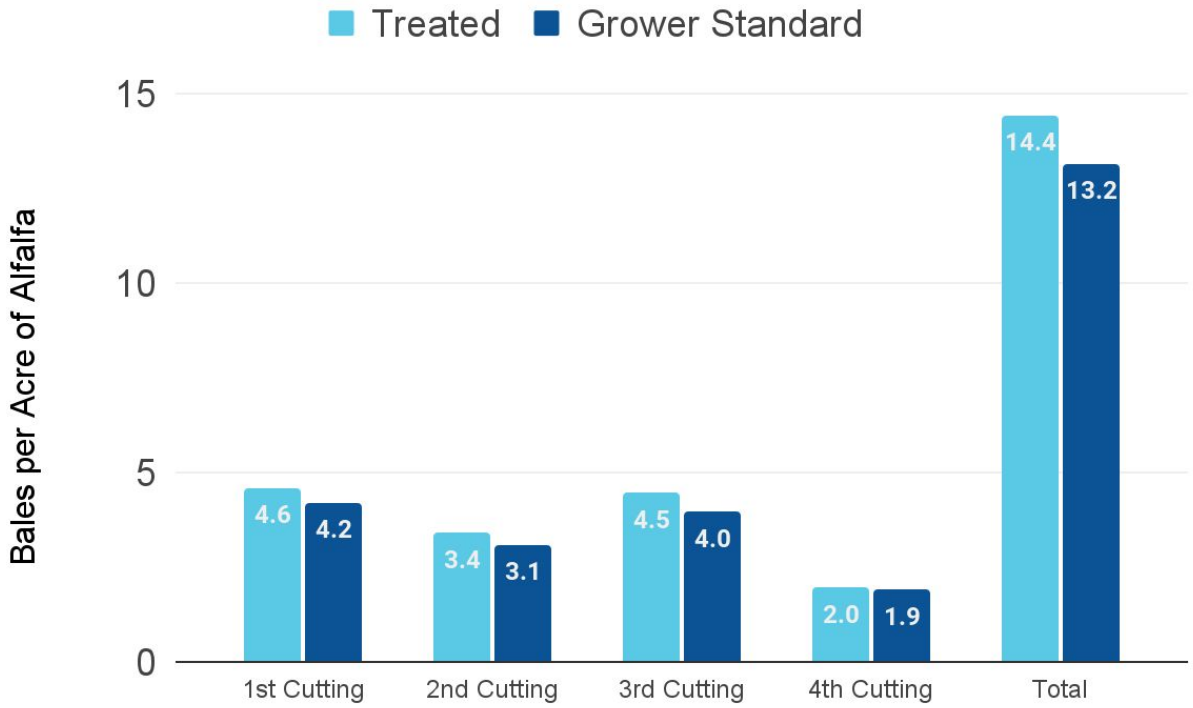


Research conducted at Penn State University

NanoCote Alfalfa Production

Improved crop yield and protein content

- Yield increase of 1.2 bales and 0.9 tons/acre
- Protein increase of 17%
- ROI =$144/acre or 11:1



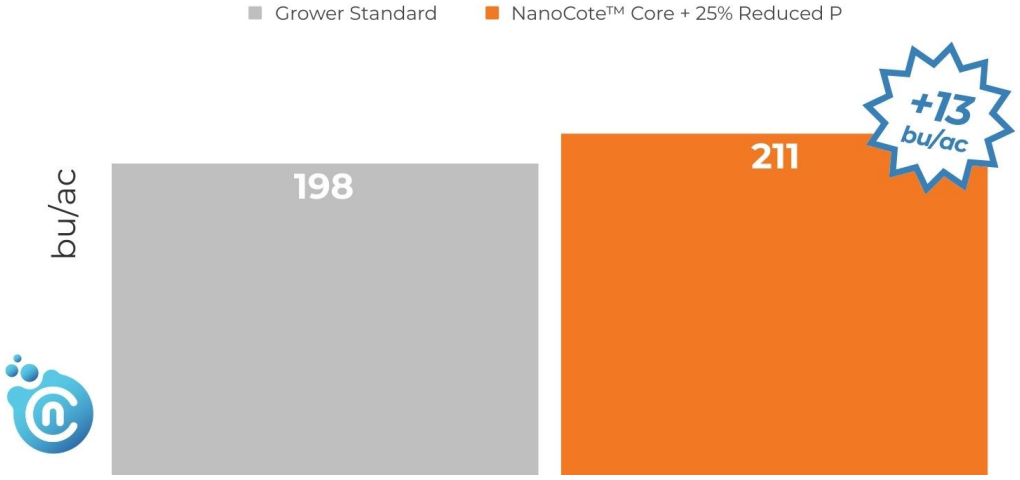
NanoCote - Corn Production

nanoCOTE™ CORE

NanoCote™ Core increases corn yield with reduction of phosphorus

2023 · 3rd Party Trial · Carroll, IA

Grower Standard: Spring Application of MAP @ 200 lb/ac



NanoCote - Corn Production

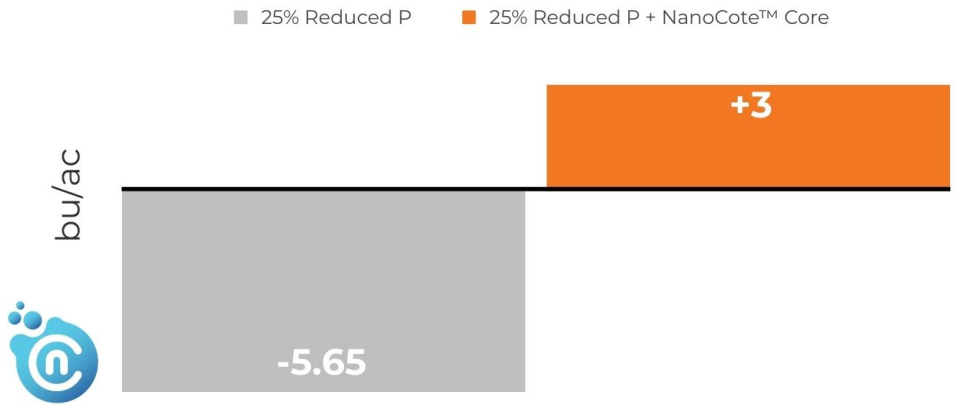
nanoCOTE™ CORE

NanoCote™ Core helps increase corn yield despite severe drought

This data is associated with severe drought stricken corn, resulting in very low yield.
This trial displays yield relative to the grower standard.

2023 · 3rd Party Trial · Vernon, MO

Grower Standard: Spring Application of DAP @ 150 lb/ac

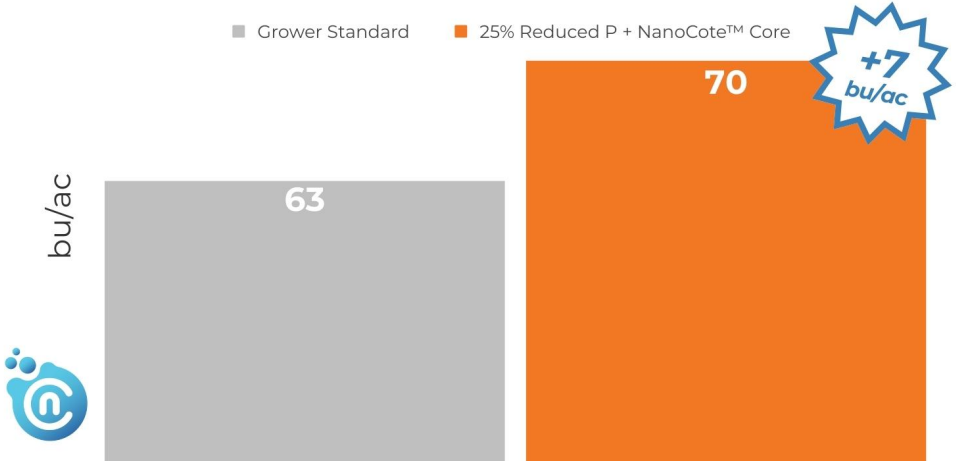


NanoCote - Soybean Production

NanoCote™ Core increases soybean yield with reduction of phosphorus

2023 · 3rd Party Trial · St. Charles, MO

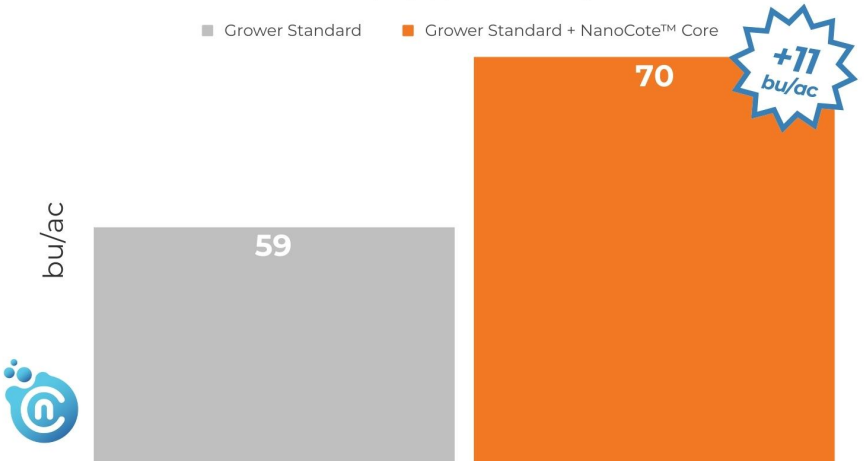
Grower Standard: Spring Application of DAP @ 60 lb/ac



NanoCote™ Core increases soybean yield

2023 · 3rd Party Trial · St. Charles, MO

Grower Standard: Spring Application of DAP @ 60 lb/ac



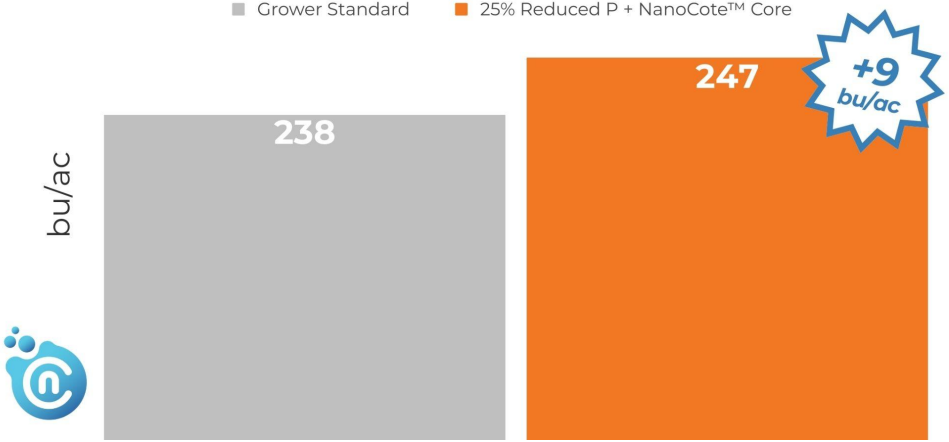
NanoCote - Soybean Production

nanoCOTE™ CORE

NanoCote™ Core increases corn yield with 25% reduction of phosphorus

2023 · 3rd Party Trial · Brown, OH

Grower Standard: Spring Application of DAP @ 100 lb/ac

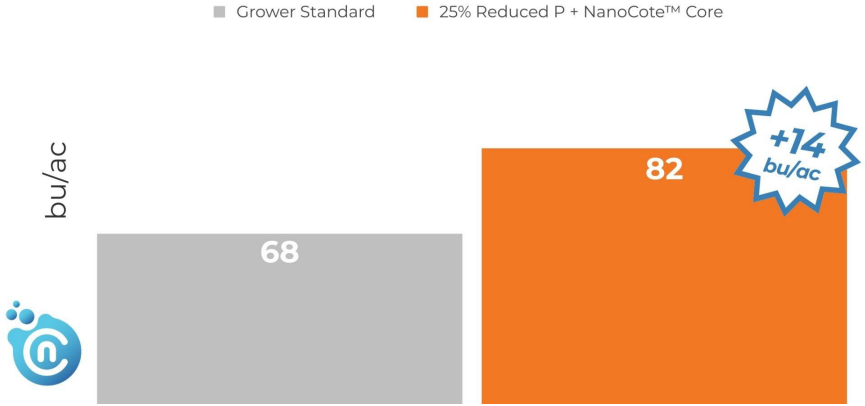


nanoCOTE™ CORE

NanoCote™ Core increases soybean yield with 25% reduction of phosphorus

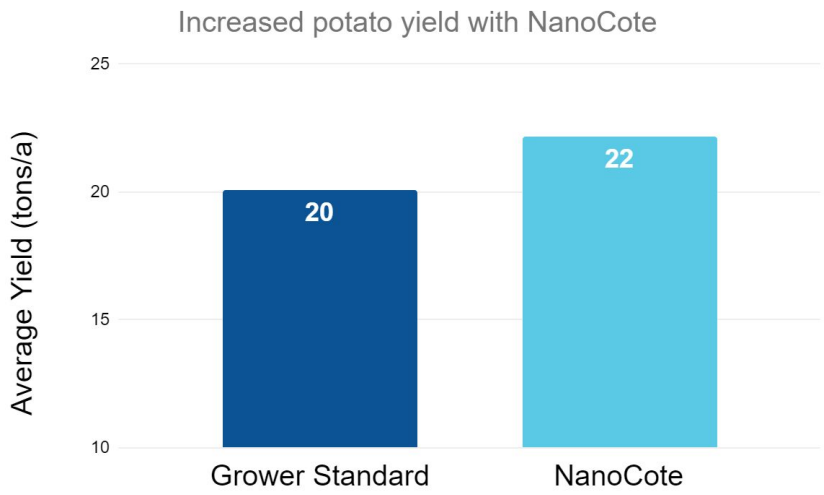
2023 · 3rd Party Trial · Brown, OH

Grower Standard: Spring Application of DAP @ 100 lb/ac

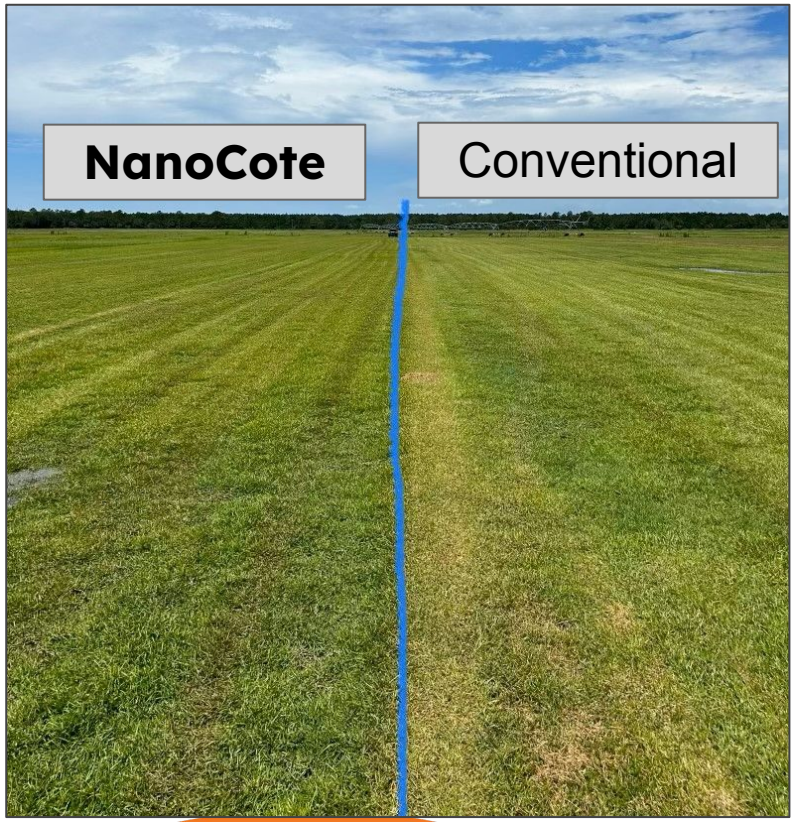


NanoCote Potato Production

Average of **2 tons more potatoes/acre** - over 3 trials



Data - Sod Production



NanoCote
Grower Granular Fert Demo

Same rate of 21-0-21 with (+) vs. without (-) NanoCote

- Ocala, FL **sod farm** shown at week 4
- **Centipedegrass**, established from ribbons
- Differences were seen by grower as follows
    - 3wks = visible differences emerging
    - 4wks = strong differences in color & density
- TriYield: sod farms seeing 3 weeks longer performance