



INNOVATIVE SCIENCE

ADVANCING
FERTILIZER
TECHNOLOGY

K KOCH.

KOCH AGRONOMIC SERVICES, LLC

AGROTAIN[®]

ADVANCED

- Result of two years R and D work.
- Increased concentration.
- Reduction in US rate from 3 quarts per ton to 2 quarts per ton.
- Improved proprietary formulation resulting in
 - Reduction in equipment build up.
 - Longer post treatment shelf life.
 - Reduced/no odor

AGROTAIN[®]

DRI-MAXX

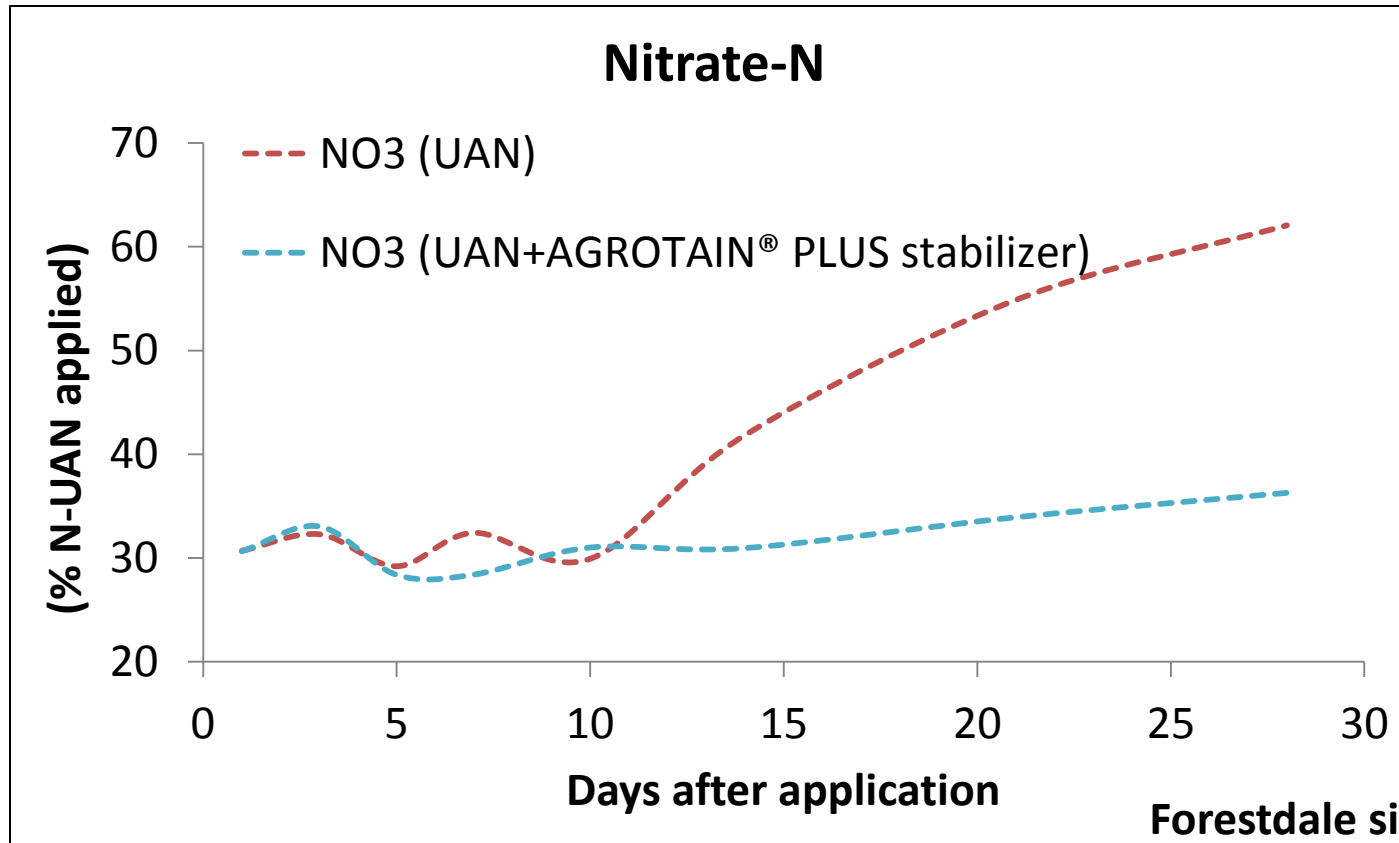
- Result of 3 years R and D work.
- Increased pre and post treatment stability.
- Reduction in rate from 3 to 2.5 lb/Ton fertilizer.
- Best balance of
 - Urea coating
 - Dust
 - Stability
 - Flow properties
 - Odor
 - Concentration

AGROTAIN PLUS

- Contains a urease inhibitor and nitrification inhibitor
- Rate: 15 lbs/ton UAN
- Storage: >32°F(0°C); <100°F(38°C)
- Compatible with most herbicides
- Sold as blue powder



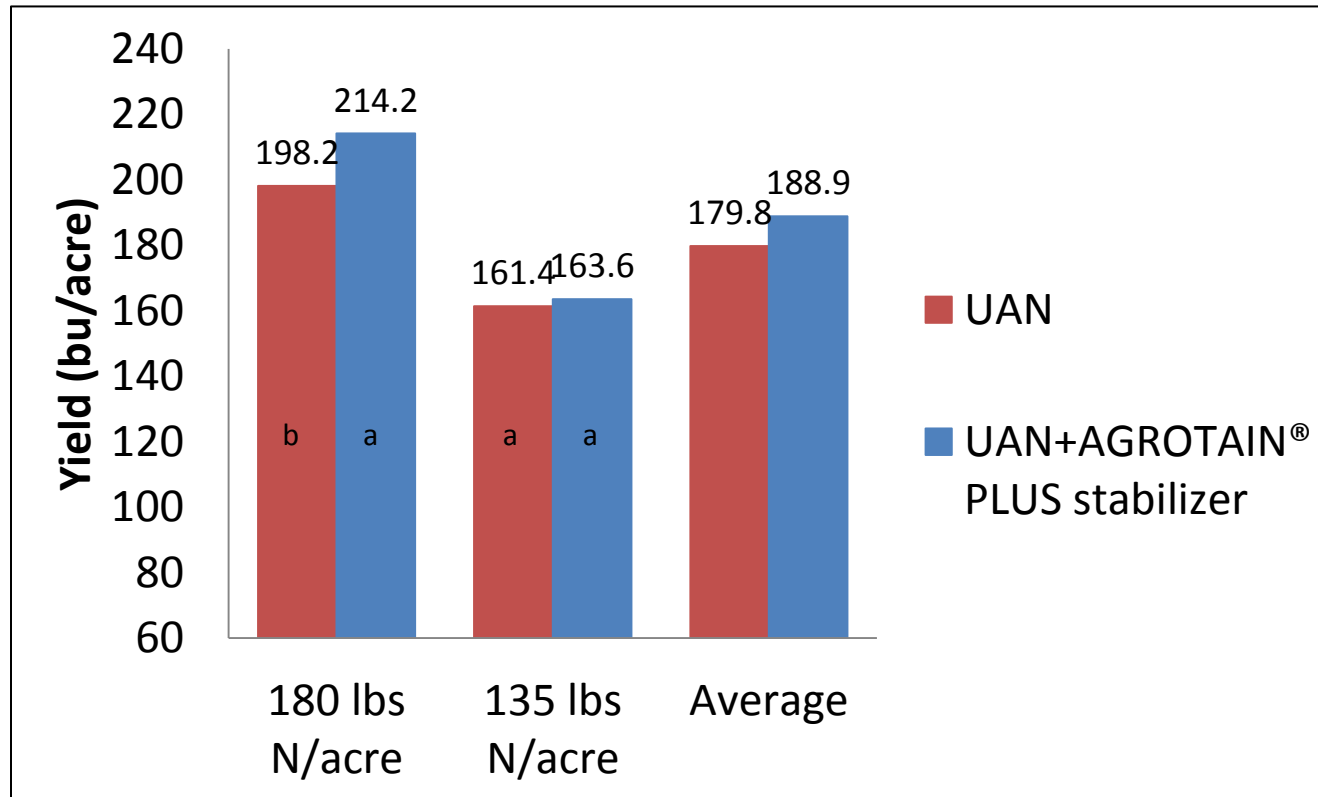
Dr. Jac Varco study – Mississippi State University



- Lab study
- UAN was injected 1 inch below the soil surface
- 925 mg/kg (ppm) of N was applied per cup to mimic a N rate of 100 lbs/acre (400 lbs N/acre in the band)
- Soils were incubated at 90% field capacity at 70 °F for 10 hrs, 60 °F for 6 hrs, and 50 °F for 8 hrs
- Samples were collected at day 1, 3, 5, 7, 10, 14, 21, and 28 after treatment application and analyzed for ammonium (NH₄⁺) and nitrate (NO₃⁻)

AGROTAIN® PLUS Study on corn

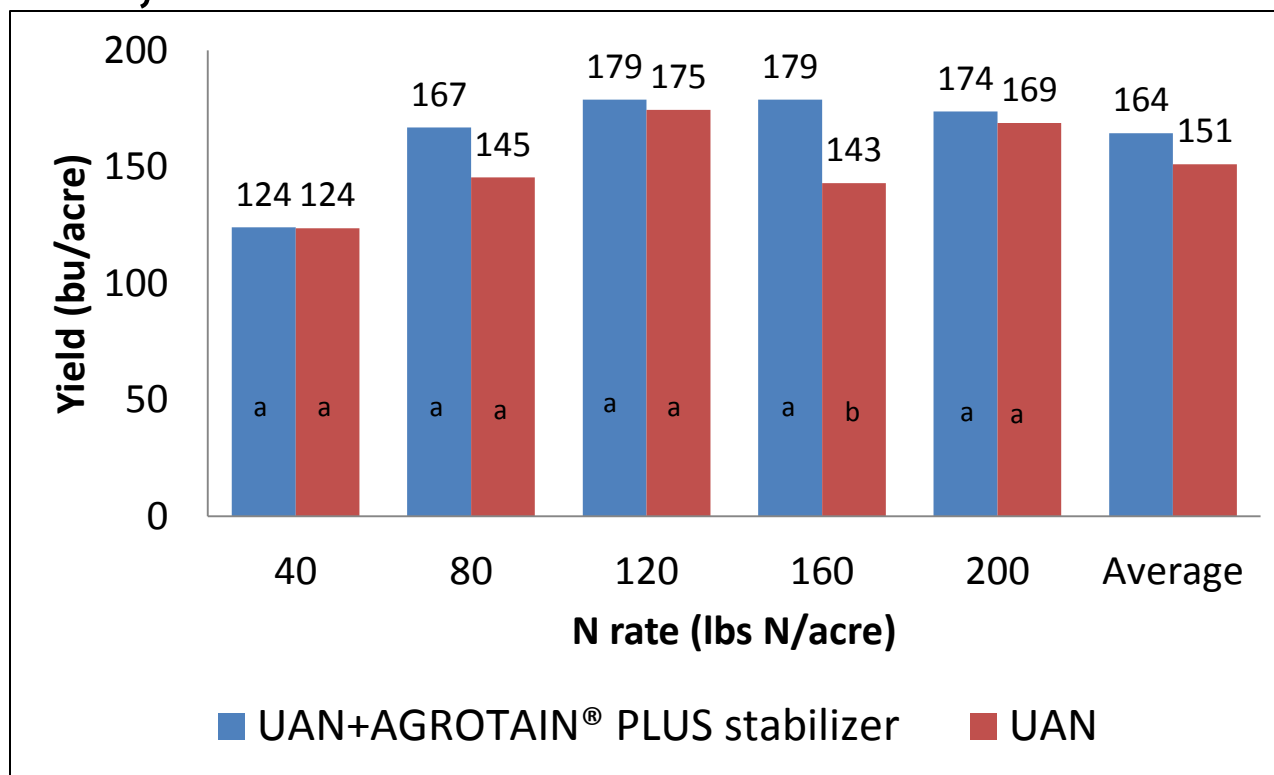
U Tennessee, 2014



- Treatments were applied 21 days after planting by knifing-in 3.5 inches deep
- Within each N rate, means followed by the same letter are not statistically different
- Source: Yin, 2014. University of Tennessee.

AGROTAIN® PLUS study on corn

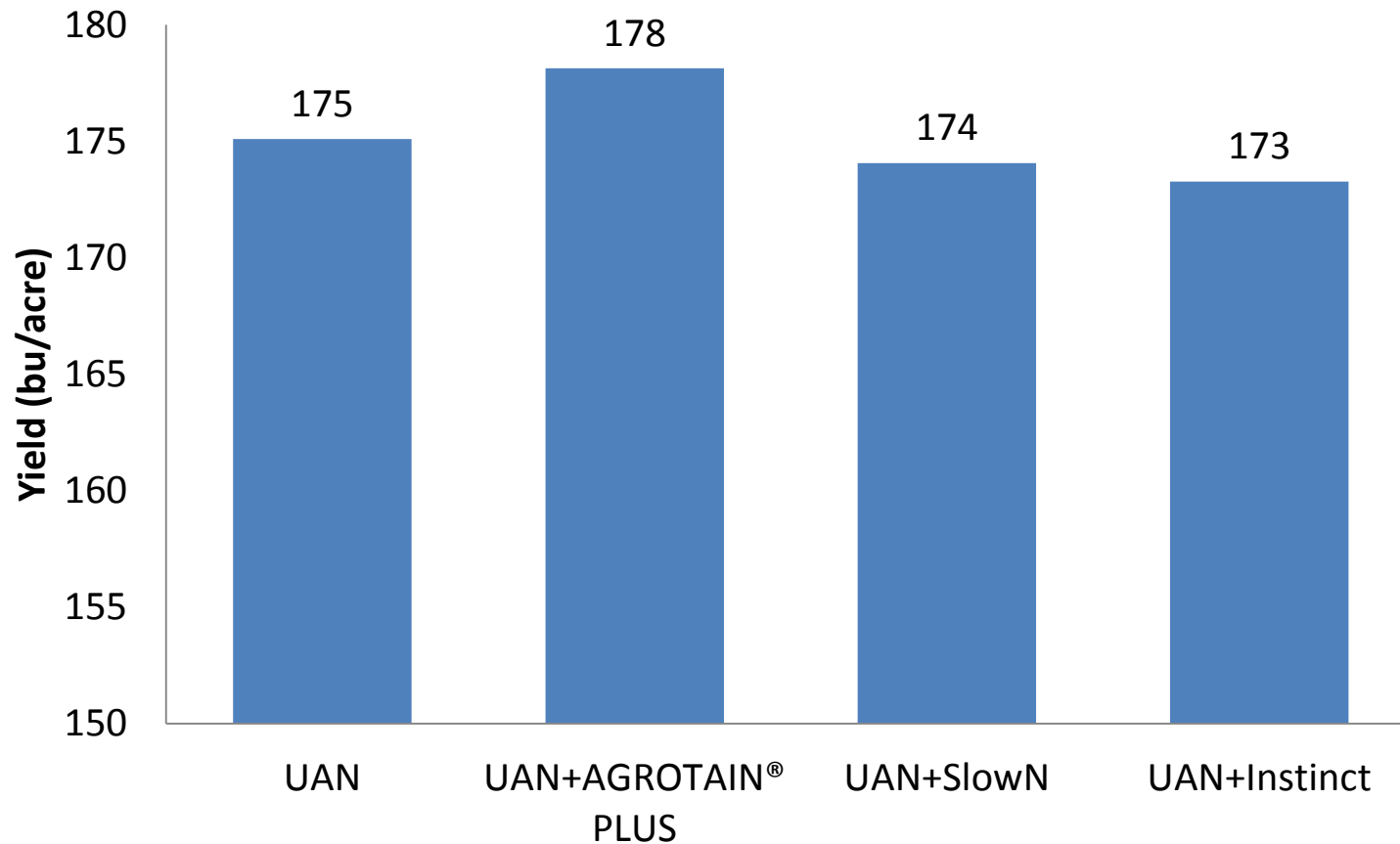
NC State U, 2014



- At planting, plots received starter fertilizer as UAN or UAN+AGROTAIN® PLUS stabilizer at the rate of 40 lbs N/acre.
- The remaining N was as sidedress at V6.
- Within each N rate, means followed by the same letter are not statistically different.
- No differences or trends were found in other two sites.
- Source: Osmond et al., 2014. North Carolina State University.

AGROTAIN® PLUS study on corn

LSU AgCenter, 2014



- Average across sites (Winnisboro and St. Joseph) and two N rates per site.
- Treatments dribble applied at V4/5
- Furrow irrigation applied between 24-72 hours after application
- No statistical differences were detected..
- Source: Haggard et al., 2014. LSU AgCenter

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THANK YOU

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