

NUE-CHARGE™ G

A VERDESIAN NUE SOLUTION™

NUE-Charge™ G is a leading UREA/AMS nitrogen fertilizer manager. NUE-Charge G is built on the backbone of the flexible T5 patented polymer technology, which serves as an exchange resin, supporting in-season improvement of Nitrogen Use Efficiency. NUE-Charge G improves handling, blending and spreading while increasing nutrient uptake in-season and improved Nitrogen Use Efficiency.

WHY NUE-CHARGE G?

Nutrient Availability: Polymer technology acts as an exchange resin, supporting in-season improvement of Nitrogen Use Efficiency

Nutrient Accessibility: Increased availability of ammonium to the plant during peak Nitrogen use increases Nutrient Use Efficiency

Nutrient Uptake: Increases total Nitrogen uptake during the growing season to maximize grower Return on Investment

RETURN ON INVESTMENT (ROI)

CORN PRICE	\$3.00	\$3.50	\$4.00	\$4.50
EXPECTED GROSS RETURN	\$28.20	\$32.90	\$37.60	\$42.30
NCG COST	12	12	12	12
NET RETURN	\$16.20	\$20.90	\$25.60	\$30.30
RETURN	1.4X	1.7X	2.1X	2.5X

200 bu target corn. Assume 300lb N Urea applied and NUE-Charge G cost of \$12. All 2018-2019 3rd party and retail trials included. N=31

IMPROVED NITROGEN USE EFFICIENCY

- NUE-Charge G has an impact to improve Nitrogen Use Efficiency by reducing the effects of nitrogen loss (as demonstrated by Partial Nutrition Balance (PNB) and Agronomic Efficiency metrics)
- Thirty-one 2018-2019 third party Contract Research party trials across eight states with 146 replicates delivered a 3.8% increase (all sites) in corn yield; 81% responsive sites delivered yield increase of 11.3 BU, 5.6% increase
- 70% win rate vs. Competitive Nitrogen Stabilizers: 14 wins and 6 losses vs. competition, delivering 1.6% (3.3 bu/A) advantage vs. competition across 20 trials
- Proprietary T5 polymer improving nitrogen efficiency (more gain vs. competitive nitrogen stabilizers from every unit of N when treated with NUE-Charge G)



REGION

All



CROP

Row and specialty crops



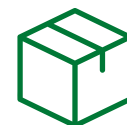
TIMING

Pre-Plant, Broadcast and Top Dress



RATE

2 qts./ton



PACKAGE

2.5 Gal., 250 Gal. Tote, Bulk



ASK US ABOUT THE VERDESIAN

**PERFORMANCE
GUARANTEE**

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ENVIRONMENTAL

- NUE-Charge G helps reduce negative environmental impacts of nitrogen application and water quality impacts

PRETREATING WITH NUE-CHARGE G WILL OPTIMIZE PRODUCT PERFORMANCE AND OPERATIONAL EFFICIENCY

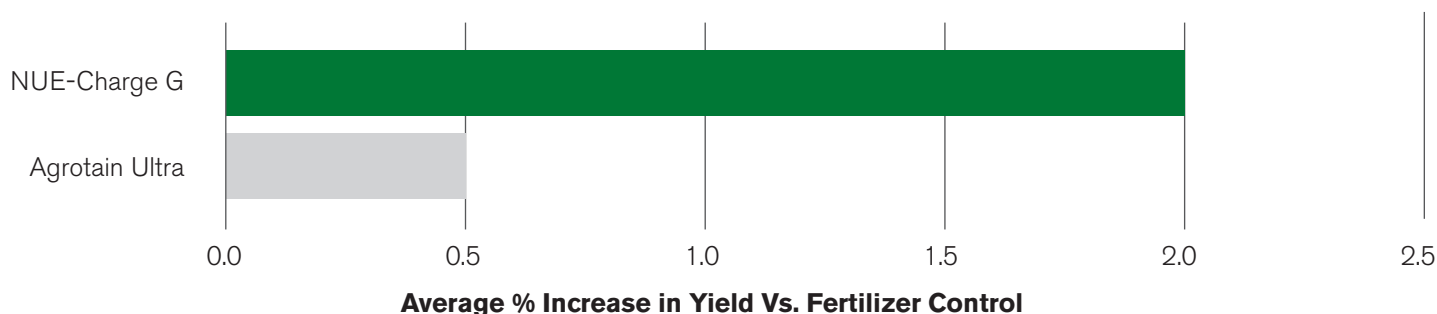
- Pre-treat in the Nov.-Feb. timeframe to be ready for any intense application window(s) you face
- Pretreating with NUE-Charge G will optimize product performance and operational efficiency
- Competitive products shown to volatilize off 40% of active at the 6-month mark when pretreated. Nonvolatile NUE-Charge G does not dissipate after pretreating

EASE OF HANDLING AND APPLICATION

- Excellent handling and spreading with more uniform distribution on urea after blending
- Minimal odor relative to competitive products
- Can be shipped and stored in bulk; safe handling/application
- Nonvolatile polymer that doesn't dissipate after pretreating
- Consistency: Works well in all weather conditions

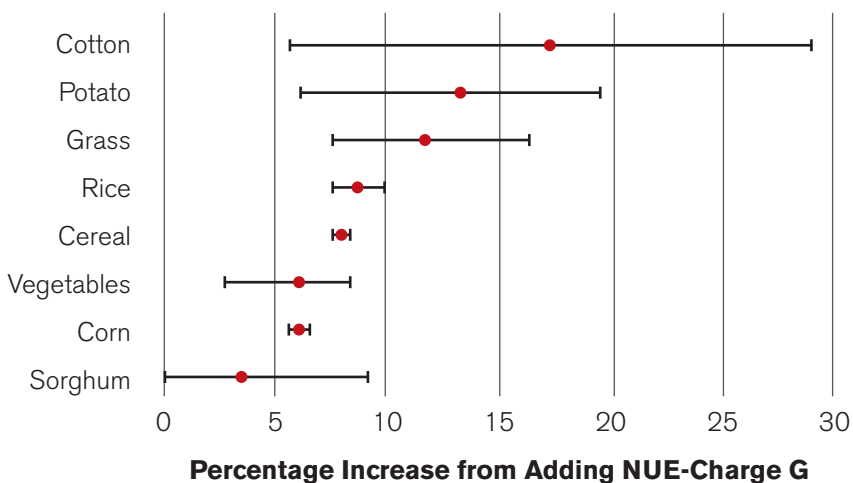
NUE-CHARGE G YIELD PERFORMANCE 2019

12 Sites in 2019



PERFORMANCE ACROSS A SPECTRUM OF CROPS

Crop Response to NUE-Charge G



NUE-Charge G, building on the success and 50M acres+ of NutriSphere-N[®], demonstrated success in a variety of 2018 field conditions:

CROP	COUNTS
Sorghum	19
Corn	580
Vegetables	22
Cereal	156
Rice	21
Grass	29
Potato	8
Cotton	16



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