

OBJECTIVE

To assess the yield response of adding Excelis Maxx nitrogen stabilizer to 326 lbs of urea (150 lbs N) as a side-dress fertilizer application in grain corn at V5 growth stage.

Site Location:
Stoneville, MS

Researcher:
Bobby Golden, Ph.D.
Mississippi State University

STUDY INFORMATION

Planting Date	5-Apr-2016
Harvest Date	6-Sept-2016
Variety	DK 68-26
Population	36,897

TIMAC AGRO PRODUCT

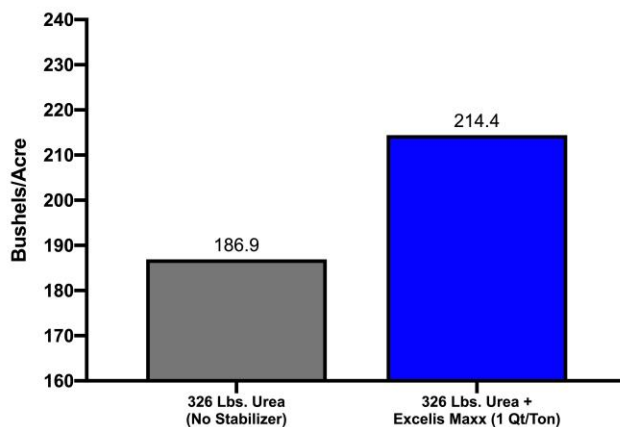


KEY FINDINGS

+27.5 bu/ac
when Urea treated with Excelis Maxx

ROI: \$93.34/ac

Corn Yield Response from Treating Urea with Excelis Maxx in Side-Dress Fertilizer Application (Stoneville, MS)



Graph: Excelis Maxx added. The Gross Revenue was calculated at \$3.75/bushel for corn with Excelis Maxx retail cost of \$240/gallon.

APPLICATION

Treatment	Application Rate
Urea (No Stabilizer)	326 Lbs (150 Lbs of N)
Urea treated w/ Excelis Maxx	326 Lbs (150 Lbs of N) + 1 Qt/Ton

MATERIALS AND METHODS

This study was conducted in a research station field with conventional tillage practices on an Bosket very fine sandy loam soil type. Soil test taken in the early spring pre-plant indicated moderate to high soil nutrient levels with sufficient amounts of P and K, with a soil pH of 7.0. No additional fertilizer was applied due to specifications of the trial. The experimental design was a randomized complete block with 4 replications. Plots consisted of four 40-inch rows that were 35' long. Seeding population was 36,897 seed an acre, and Dekalb 68-26 was planted on April 5. Irrigation was used to prevent water stress on May 26 and June 28. Plots were allowed to mature and harvested on September 6. Total weight of grain from the center 2 rows of each replicate was used to calculate moisture, test weight, and yield.

RESULTS AND CONCLUSIONS

Pre-plant urea treated with Excelis Maxx improved corn yield at 326 lbs of urea (150 lbs N) over untreated urea at same rate without a nitrogen stabilizer. This resulted in a ROI of \$93.34/acre.

RETURN ON INVESTMENT

Treatment	Yield (bu/ac)	Gross Revenue @ \$3.75/bu	Change from Control	Added Costs/ac	ROI
Urea (No Stabilizer)	186.9	\$700.88	-	\$0.00	-
Urea treated w/ Excelis Maxx (1 Qt/Ton)	214.4	\$804.00	\$103.12	\$9.78	\$93.34

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