

OBJECTIVE

To assess the yield response of adding Excelis Maxx nitrogen stabilizer (1 qt/ton) to 260 Lbs of urea (120 Lbs N) fertilizer application in rice 10 days before flood.

Site Location:

Crowley, LA

Researcher:

H. Rouse Caffey Rice Research Station
Louisiana State University

STUDY INFORMATION

Planting Date	13-Mar-2020
Harvest Date	3-Aug-2020 2-Nov-2020
Variety	CL 153
Population	33 seeds/ft ²

TIMAC AGRO PRODUCT

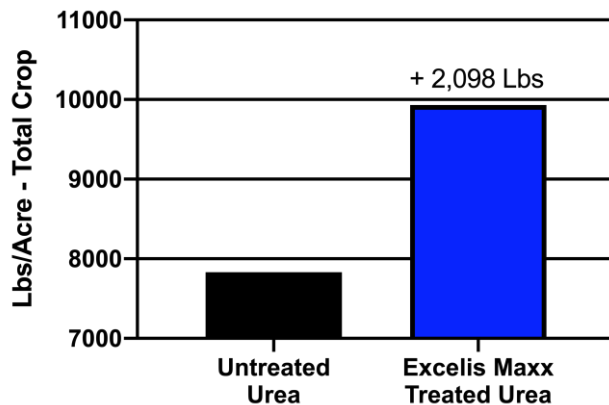


KEY FINDINGS

+2,098 lbs/ac
when Urea treated with Excelis Maxx

ROI: \$275.43/ac

Rice Yield Response from Treating Pre-Flood Urea with Excelis Maxx (Crowley, LA)



Graph: Excelis Maxx treated urea improved yield 2,098 lbs for main + ratoon crop. The Gross Revenue above was calculated at \$13.50/cwt for rice with Excelis Maxx retail cost of \$240/gallon.

APPLICATION

Treatment	Application Rate
Untreated Control	260 Lb of Urea
Excelis Maxx	260 Lbs of Urea + 1 Qt/Ton of Excelis Maxx

MATERIALS AND METHODS

This study was conducted in a grower field with conventional tillage practices on a Crowley silt loam soil type. Recommended amounts of P & K fertilizer were applied immediately following planting to address soil nutrient levels. The experimental design was a randomized complete block with 4 replications. Plots consisted of four 4.67 x 16 ft blocks, with row width at 8" and rows per plot at 7". Seeding population was 33 seeds/sq ft, and CL 153 was planted on March 13. Uniform seed treatments of fungicides (Apron, Maxim), gibberellic acid (Release), bird repellent (AV-1011), and Zinc Plus (10% Zn, 4.6% S) were used for both control and treatment. IPM measures were also uniform across control and treatment. N fertilizer (treatment applied per labeled rate) was applied 10 days pre-flood on April 19. Water was managed with flush on April 6, flood on April 24 and drained on July 13. Plots were allowed to mature, with main crop harvested on August 3 and ratoon crop harvested on November 2. Whole plots were harvested to calculate the lbs/acre on the main crop and ratoon crop for a total yield result.

RESULTS AND CONCLUSIONS

Pre-flood urea treated with Excelis Maxx improved rice yield at 260 lbs of urea (120 lbs N) over untreated urea at same rate without a nitrogen stabilizer by 2,098 lbs/acre. This resulted in a ROI of \$275.43/acre.

RETURN ON INVESTMENT

Treatment	Total Yield Main +Ratoon (lbs/ac)	Gross Revenue @ \$13.50/cwt	Change from Control	Added Costs/ac	ROI
Urea (No Stabilizer)	7833	\$1057.46	-	\$0.00	-
Urea treated w/ Excelis Maxx (1 Qt/Ton)	9931	\$1340.69	\$283.23	\$7.80	\$275.43

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