

OBJECTIVE

To assess the yield response for main and ratoon crops of rice by adding Duo Maxx fertilizer additive to 240 lbs of 0-24-24 fertilizer at planting.

Site Location:

Crowley, LA

Researcher:

H. Rouse Caffey Rice Research Station
Louisiana State University

STUDY INFORMATION

Planting Date	23-Mar-2016
Harvest Date	9-Aug-2016
Variety	CL 153
Population	33 seeds/ft ²

TIMAC AGRO PRODUCT



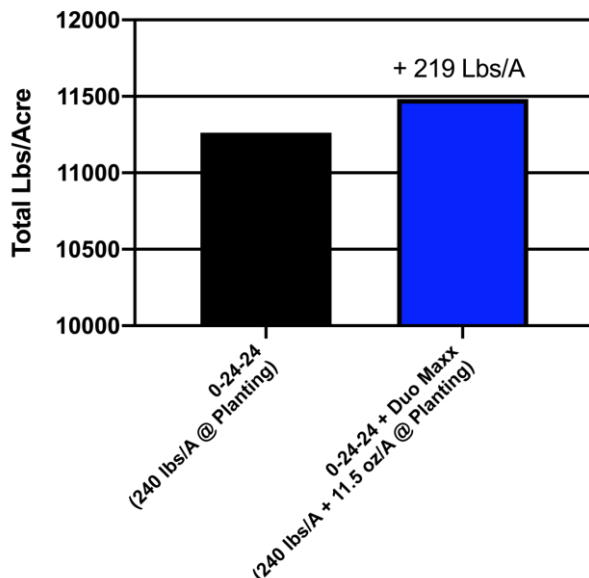
KEY FINDINGS

+219 lbs/ac
when P & K Fertilizer treated with Duo Maxx

ROI: \$18.37/ac

Graph: Duo Maxx treated P & K fertilizer improved yield 219 lbs for total (main + ratoon) crop. The Gross Revenue above was calculated at \$12.50/cwt for rice with Duo Maxx retail cost of \$100/gallon.

Rice Yield Response from Treating Fertilizer at Planting with Duo Maxx (Crowley, LA)



APPLICATION

Treatment	Application Rate
0-24-24 (Untreated)	240 Lbs/A
0-24-24 treated w/ Duo Maxx	240 Lbs/A + 3 Qts/Ton (11.5 oz/A)

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 at 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 23. Uniform seed treatments of Dithane (fungicide), Release (gibberellic acid), Zinc Plus (10% Zn, 4.6% S) & AV-1011 (bird repellent) were used for both control and treatment. IPM measures were also uniform across control and treatment. N fertilizer (urea) was applied 10 days pre-flood. Water was managed with flush on April 11, flood on May 6 and drained on July 20. Plots were allowed to mature and harvested on August 9. Whole plots were harvested to calculate the lbs/acre on the main crop and ratoon crop for a total yield result. Milling percentage was also measured for control and treatment on main crop.

RESULTS AND CONCLUSIONS

Planting fertilizer application (0-24-24; 240 lbs) treated with Duo Maxx improved rice yield over untreated fertilizer at same rate by 219 lbs/acre. This resulted in a ROI of \$18.37/acre.

RETURN ON INVESTMENT

Treatment	Total Yield – Main + Ratoon (lbs/ac)	Gross Revenue @ \$12.50/cwt	Change from Control	Added Costs/ac	ROI	Milling % Main
0-24-24 (240 lbs/A)	11263	\$1407.88	-	\$0.00	-	73.2%
0-24-24 (240 lbs/A) + Duo Maxx (11.5 oz/A)	11482	\$1435.25	\$27.37	\$9.00	\$18.37	73.0%

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