

Huma® X-Tend® Increases Corn Yield With 5:1 ROI

Research Report

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 Huma® Product: X-Tend®

Background

X-Tend® mixed with other fertilizers applied to specific crops has enhanced results with improved plant growth and higher yields. Combining X-Tend® with grower standard products applied to soil and when applied as a single product foliar application could also impact results.

Objective

The focus of this study was to observe if X-Tend® as a yield-enhancing product can improve corn yield under field conditions.

Materials & Methods

Experimental plots for corn were established at the Agricenter International research facility in Memphis, Tenn. The experiment was a randomized complete block design with six replications. The corn was planted on June 29 in a field that did not have any humic products prior to this study. The crop was harvested on October 19.

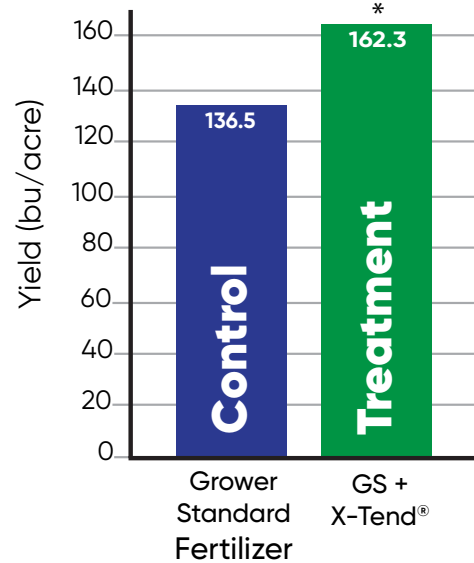
The grower standard (GS) fertilizer program, including the product and application timings, are outlined in Table 1. X-Tend® was applied at planting and again four weeks later during the growing season. At planting, X-Tend®, tank-mixed with 10-34-0 fertilizer was applied as in-furrow. X-Tend® was then sprayed on the plant leaves and the soil surface.

Table 1. Grower Standard and Huma® Treatment Fertilizer Programs

	Product	Amount	Method	Timing
Control	18-46-0	130 lb/a	Broadcast	Preplant
	0-0-60	100 lb/a	Broadcast	Preplant
	10-34-0	2.5 gal/a	In-furrow	At Planting
	46-0-0	276 lb/a	Side-dress	V3
Huma® Treatment	Control (all products above)			
	X-Tend®	1 qt/a	In-furrow	At Planting
	X-Tend®	1 qt/a	Spray	28 days

Results

The difference between the two treatments was statistically significant ($p = 0.05$), indicating the addition of X-Tend® increased corn yield over the GS (Figure 1). Adding X-Tend® to GS caused the corn yield to increase by 25.8 bu/acre over the GS program alone, which resulted in a return on investment (ROI) of 5 to 1.



* = statistically significance at $p = 0.05$.

Figure 1. Corn Yield Response to Control and Huma® Treatment with X-Tend®

Conclusions

This field study confirmed results from previous field trials (follow the X-Tend® QR below) that including X-Tend® in crop production can increase yield. In this study, the 19% yield bump and the 5:1 ROI resulted in over \$100 per acre net income gain.

Product

Huma® X-Tend® is an excellent source of Micro Carbon Technology®. It is formulated with organic acids and nutrients to improve the efficiency, release, and uptake of fertilizers. X-Tend® is excellent to release nutrients tied up in soils and is an outstanding additive for complexing most foliar nutrients.



For more X-Tend® Research Reports, product documentation, and other information, follow this QR Code at left.