

Huma Gro® Fertilizer Products

Increase Cucumber Yields at ROI of 113%

Research Report

Conducted by: Southeast Ag Research, Inc.

Huma Gro Products Used: Breakout®, Max Pak®, Vitol®, and Zap®

Objective

The purpose of this research project was to evaluate how Huma Gro® liquid fertilizer products with Micro Carbon Technology® affect cucumber yield when compared with a control program of grower's standard fertilizer.

Materials & Methods

This study was conducted at the Southeast Ag Research facilities in Chula, Ga. The experiment was conducted with four replicates. Each replication consisted of a 30-foot-long plot.

The Check plot used only an application of the grower's standard fertilizer program. The Huma Gro® plots also used the grower's standard fertilizer program; in addition, the 4 Huma Gro® liquid products were applied. The Huma Gro® products included Zap® (soil health and fertility enhancer, applied as a soil drench at transplant), Breakout® and Vitol® (plant growth optimizers, foliarly applied 3 times during the season), and Max Pak® (micronutrients, foliarly applied with the plant growth optimizers 3 times during the growing season). Table 1 describes application details:

Table 1. Cucumber Fertilizer Treatments, Check and Huma Gro®

Treatment	Product	Amt.	Method	Timing
Check	Grower's Standard	Grower's Standard	Grower's Standard	Grower's Standard
	Grower's Standard	Grower's Standard	Grower's Standard	Grower's Standard
Huma Gro®	Zap®	2 qt/ac	Drench	At Transplant
	Breakout® + Vitol® + Max Pak®	16 oz/ac, each	Foliar	Application 1
	Breakout® + Vitol® + Max Pak®	16 oz/ac, each	Foliar	Application 2
	Breakout® + Vitol® + Max Pak®	16 oz/ac, each	Foliar	Application 3

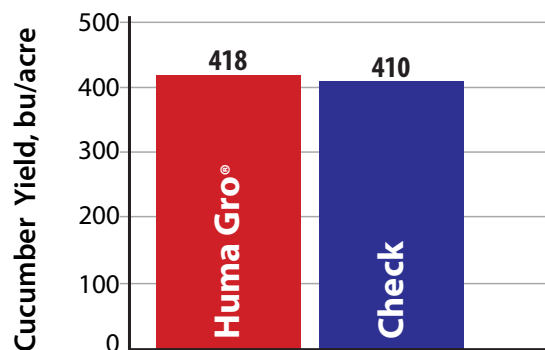


Figure 1. Cucumber Fertilizer Treatments, Huma Gro® and Check

Results

The Huma Gro® fertilizer treatment increased cucumber yield by 8 bushels per acre when compared with the Check treatment (Figure 1). The Check yielded 410 bu/acre, while the Huma Gro® treatment yielded 418 bu/acre.

Conclusions

The Huma Gro® fertilizer treatment increased the yield by 2% (8 bushels per acre) over the Check, with a return on investment (ROI) of 113%. The Huma Gro® program can help cucumber farmers be more profitable while increasing yield.

For more information on Huma Gro® products and complete input programs for cucumbers, follow the QR code below (www.humagro.com/cucumbers).

