



Huma® Proud 3 Fungicide Replacement

Field Report

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Huma® Products: Proud 3®, Crop Gard®

Background

Huma® fungicide programs with Micro Carbon Technology® provide growers with effective options that can replace synthetic fungicides with a more sustainable and environmentally friendly approach, while providing excellent control and improving crop health, yield and quality.

Objective

The focus of this study was to assess if 2 of Huma’s products Crop-Gard® (Growth Manager) and Proud 3® (Zero residue crop protection) could replace a conventional, synthetic fungicide application and still have a return on investment (ROI) when applied just after tasseling on corn in Illinois. Crop-Gard® is designed to nutritionally boost the plant’s natural defenses (Zn, Mn, Cu, S) as well as provide the proper nutrients to the plant to fight off diseases and abiotic stresses. Proud 3® on the other hand, is an OMRI listed EPA 25B exempted biopesticide that is a contact killer to control foliar diseases and soft bodied insects through desiccation, with 0 days reentry interval.

Materials & Methods

This trial was conducted as a product demonstration with a farmer in Macon County, Illinois. The standard fungicide program consisted of an application of 7oz/ac of FMC’s Adastrio fungicide. The Huma products replaced the post tassel application. The corn was harvested on September 23rd with the following results:

TRIAL	DATE	TREATMENT	OUNCES PER AC	COST PER AC	YIELD	PRICE/BU	EXTRA COST	CHANGE IN YIELD	ROI
Grower’s Standard	July 26	FMC Adastrio®	7	\$16.50	257 bu/Ac	\$4.40	N/A	N/A	N/A
Huma Program	July 26	PROUD 3®	6.4	\$4.33	272 bu/Ac	\$4.40	\$4.04	15 bushels	1,533%
		CROP-GARD®	64	\$16.21					

Results

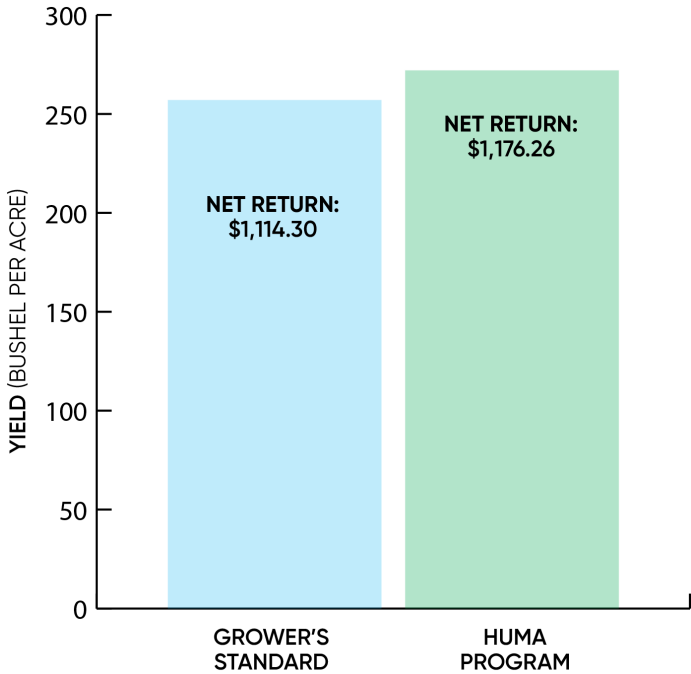
Application of Huma® products replacing the 2nd conventional fungicide application improved corn yield by 5% from 257bu to 272bu. Neither treatment saw phytotoxicities, disease pressure flair ups, nor tank mixing issues. This gave a 1,533% return on investment.

ROI = Net return/cost

Net Return = 15bu/ac * \$4.40bu = \$66/ac

Cost = \$4.04/ac

ROI = (\$66-\$4.04)/\$4.04 = 15.33 to 1 or 1,533%.



Conclusion

The Huma® fungicide replacement program translated into a higher net gain of \$61.96 per acre (15 bushels priced at \$4.40) and a ROI of 15:1 when compared with the conventional fungicide program alone.