

Huma[®] OM Soil Activator Increases Cotton Yield 20%, With 141% ROI

Research Report

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Background

In an earlier in-house research project, it was observed that **OM Soil Activator** (formerly known as Fertilgold[®] Soil) caused plants to grow better and improve soil characteristics. The product was then released for field trial status.

Objective

The focus of this study was to observe if **OM Soil Activator** could improve cotton yield under field condition.

Materials & Methods

Experimental plots for cotton were established at the Agricenter International research facility in Memphis, Tenn. The experiment was a randomized complete block design with six replications. The cotton was planted on May 26 in a field that did not have any humic products prior to this study. The crop was harvested on November 14.

The grower standard (GS) fertilizer program, including the source and application timings, are outlined in Table. 1. **OM Soil Activator** was applied at planting and again 41 days later during the growing season (Table 1). At planting, **OM Soil Activator** tank-mixed with 10-34-0 fertilizer was applied in-furrow. **OM Soil Activator** was then broadcast sprayed on the plants and the soil surface.

Table 1. Grower Standard and Huma® Treatment FertilizerPrograms

	Product	Amount	Method	Timing
GS 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	123 lb/a	Side-dress	Pinhead Square
Huma® Treatment	GS Control (all products above)			
	OM Soil Activator	1qt/a	In-furrow	At Planting
	OM Soil Activator	1qt/a	Spray	41 days

Results

The difference between the two treatments was statistically significant ($p \le 0.05$). The addition of **OM Soil Activator** to GS increased lint yield over the GS

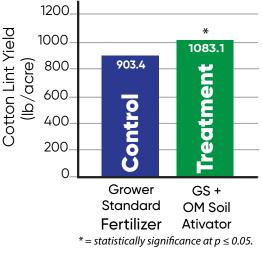


Figure 1. Cotton Yield Response to Soil Treatment

alone (Figure 1). Adding **OM Soil Activator** to GS caused the lint yield to increase by 179.7 lb/acre over the GS program alone.

Conclusions

This field study confirmed results from previous trials (follow the QR Code below) that including **OM Soil Activator** in crop production can increase yield. The yield bump of 20% and the ROI of 141% resulted in over \$50 per acre net income gain.

Product

Huma® **OM Soil Activator**, OMRI-Listed for organic crops, improves soil structure and enhances the beneficial soil microbial community. This product balances the carbonoxygen ratio, creating carbon-rich soil with an active rhizosphere. Huma® **OM Soil Activator** increases availability of nutrients blocked by mineralization in soils and indirectly helps to diminish the stress of saline soils and pH extremes.



For more **OM Soil Activator** Research Reports, product documentation, and other information, follow this QR Code.