

Residual Effects of Generate® and Vitazyme® on Soybeans

Study ID: 314023201601

County: Butler

Soil Type: Grigston silt loam; Zook silty clay loam; Muir silt loam

Tillage: Ridge-till

Row Spacing (in): 30

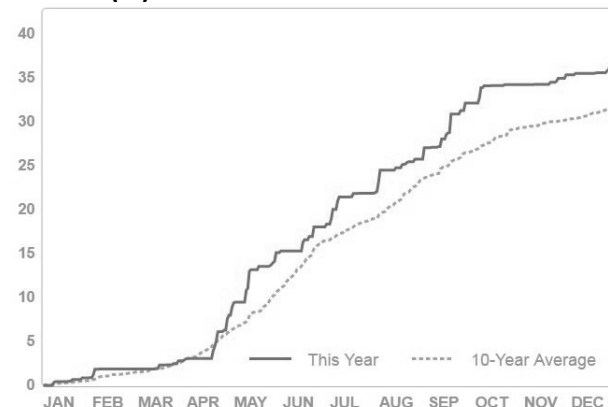
Reps: 4

Previous Crop: Rye (fall/winter)

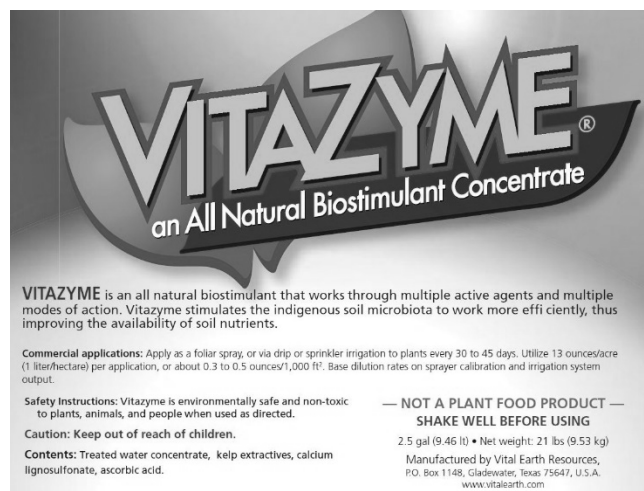
Fertilizer: 9 gal/ac of solution which consisted of 50 gal 32-0-0, 2.5 gal SuperPhos™, 2.5 gal Z-Max, 2.5 gal Start-L, 2.5 gal BREAKOUT®, 2.5 gal Soil-Max®, and 120 gal water.

Irrigation: Pivot

Rainfall (in):



Introduction: 16 oz/acre Generate® and 13 oz/acre Vitazyme® were each applied in the seed furrow when popcorn was planted. The popcorn crop was lost to disease in early June and soybeans were planted directly into the same row where the corn was planted. The objective of this study was to evaluate the residual effect from an application of Generate and Vitazyme prior to soybean planting. Product information is below.



Product information from:

<http://www.greenearthagandturf.com/vitazyme-label.pdf>

Generate®	
GUARANTEED ANALYSIS	PLANT NUTRIENT DERIVED FROM:
Cobalt (Co).....1.04%	Cobalt Carbonate, Iron Oxide, Manganese Oxide, Copper Sulfate, Zinc Sulfate
Copper (Cu)0.28%	
Iron (Fe)0.56%	
Manganese (Mn).....0.26%	
Zinc (Zn)0.22%	

Product information from:

http://www.kellysolutions.com/erenewals/documentsubmit/KellyData/ND%5CFertilizer%5CProduct%20Label%5CGenerate_for_Crops____new__1_2_2015_3_32_14_PM.pdf

Results:

	Height (in) July 20	Pods/plant Aug. 11	Yield (bu/acre)†	Seeds per lb	Protein (%)	Oil (%)	Marginal Net Return‡ (\$/ac)
Check	15.0 A*	31 A	68 A	2,524 A	38.4 B	19.4 A	\$629.00
Generate	15.5 A	31 A	66 A	2,478 A	38.8 AB	19.4 A	\$600.75
Vitazyme	15.3 A	25 B	67 A	2,494 A	39.0 A	19.4 A	\$612.23
P-Value	0.490	0.035	0.329	0.318	0.075	0.815	N/A

*Values with the same letter are not significantly different at a 90% confidence level.

†Bushels per acre corrected to 13% moisture.

‡Marginal net return based on \$9.25/bu soybean, \$9.75/ac Generate, and \$7.52/ac Vitazyme.

Summary: The residual effects of Generate and Vitazyme did not increase yield, seeds per pound, or oil. The residual Vitazyme treatment resulted in higher protein than the untreated check. The check treatment had the highest marginal net return.

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