

Three Rates of Vitazyme® at First Flower on Soybeans

Study ID: 611023201601

County: Butler

Soil Type: Butler silt loam; Hastings silt loam; Hastings silty clay loam; Fillmore silt loam

Planting Date: 5/15/16

Harvest Date: 10/3/16

Population: 180,000

Row Spacing (in): 15

Hybrid: Channel 3303R2

Reps: 4

Previous Crop: Corn

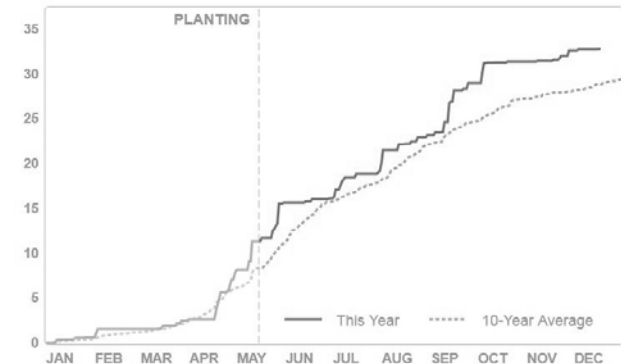
Tillage: No-Till

Herbicides: Pre: 4 oz/ac Fierce® XLT, 16 oz/ac 2,4-D, 17 lb/100 gal AMS, and Glyphosate on 4/11/16

Post: FirstRate®, Glyphosate, and 17 lb/100 gal AMS on 6/23/16

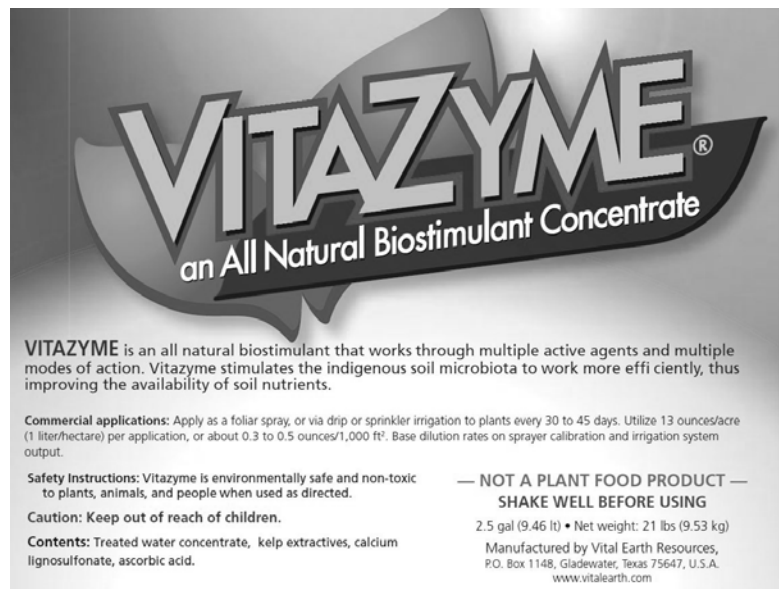
Irrigation: None

Rainfall (in):



Introduction:

Differing rates of biostimulants can potentially result in different levels of plant response. This study was conducted to compare and document soybean response to three rates of Vitazyme®. Product information for Vitazyme is at right. Vitazyme was applied on June 30 at 20 gpa. No surfactants were used.



Product information from:

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

Results:

	Stem Height (in)	Trifoliolate Nodes	Yield (bu/acre)†	Seeds per lb	Protein (%)	Oil (%)	Marginal Net Return‡ (\$/ac)
Check	11.2 A*	7 A	68 A	2,626 A	38.5 A	17.7 A	\$629.00
Vitazyme at 7 oz/ac	11.5 A	7 A	69 A	2,601 A	38.9 A	17.9 A	\$627.38
Vitazyme at 13 oz/ac	11.3 A	7 A	69 A	2,621 A	39.0 A	17.7 A	\$623.91
Vitazyme at 26 oz/ac	12.1 A	7 A	68 A	2,543 A	38.7 A	18.2 A	\$607.15
P-Value	0.244	0.111	0.959	0.540	0.621	0.745	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 and \$0.58/oz Vitazyme and \$6.82/ac application cost.

Summary: There were no differences in plant height, number of trifoliolate nodes, yield, seed density, % protein, or % oil between the treatments tested. The untreated check resulted in the greatest profit due to lower input costs.

Sponsored by:



In Partnership with:



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture. University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.