

Impact of Generate® In-Furrow at Planting on Soybean Yield

Study ID: 0709047201802

County: Dawson

Soil Type: Cozad silt loam 0-1% slope; Cozad silty clay loam 0-1% slope

Planting Date: 5/17/18

Harvest Date: 10/10/18

Population: 140,000

Row Spacing (in): 30

Variety: Pioneer® P31A22X

Reps: 5

Previous Crop: Corn

Tillage: Ridge-Till

Herbicides: Post: 24 oz/ac Buccaneer® 5 Xtra, 12.8 oz/ac Engenia®, and 2.5 oz/ac Valor® XLT on 5/23/18; 24 oz/ac Buccaneer® 5 Xtra, 12.8 oz/ac Engenia®, and 10 oz/ac Charger Basic® on 6/28/18;

8 oz/ac Atlas® on 7/3/18

Seed Treatment: None

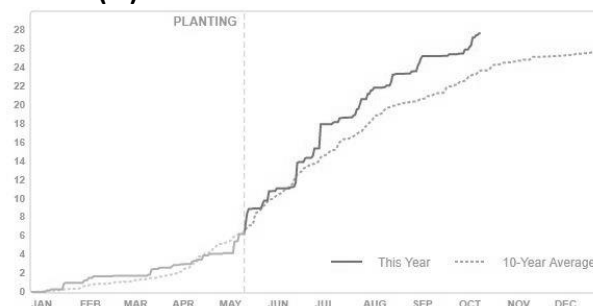
Foliar Insecticides: None

Foliar Fungicides: None

Fertilizer: None

Irrigation: Gravity, Total: 0"

Rainfall (in):



Soil Test (January 2018) – 4 samples were taken in the study area:

Sample	pH	Soluble Salts	OM	KCl Nitrate	Mehlich P-III	CaPO ₄ SO ₄ -S	K	Ca	Mg	Na	Sum of Cations	Zn
		mS/cm	(%)	ppm lb/ac	ppm	ppm	ppm	ppm	ppm	ppm	meq/100g	ppm
1	7.2	0.6	2.4	12 29	111	27	550	2858	575	134	21	4.0
2	7.4	0.7	2.5	12 29	100	42	648	2370	594	271	20	3.0
3	7.3	0.7	2.1	8 19	46	55	591	2471	502	192	19	1.7
4	7.2	1.0	2.1	22 53	111	66	664	2184	484	201	18	3.8

Introduction: This study was looking at Generate® applied in-furrow at soybean planting. The product was applied at a rate of 1 pt/ac and was compared to an untreated check. Product information is at right. Yield was recorded using a yield monitor and weigh wagon scale. Yield from the weigh wagon is reported here.

Generate®

GUARANTEED ANALYSIS

Cobalt (Co)..... 1.04%
 Copper (Cu) 0.28%
 Iron (Fe) 0.56%
 Manganese (Mn)..... 0.26%
 Zinc (Zn) 0.22%

DERIVED FROM: Cobalt Carbonate, Cobalt Sulfate, Copper (II) Carbonate, Iron (III) Oxide, Manganese (II) Oxide, Zinc Carbonate, Zinc Sulfate

Product information from: *Ralco Nutrition, Inc.*

Results:

	Harvest Stand Count (plants/ac)	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ (\$/ac)
Check	59,914 A*	12.8 A	66 A	489.00 A
Generate In-Furrow	59,333 A	12.9 A	66 A	476.04 B
P-Value	0.859	0.648	0.453	0.029

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

†Bushels per acre adjusted to 13% moisture.

‡Marginal net return based on \$7.40/bu soybean and \$9.75/ac Generate.

Summary:

- The addition of Generate® resulted in no difference in stand counts, moisture, or yield.
- Due to the additional cost of the Generate® product and no yield increase, the untreated check had a \$12.96/ac higher marginal net return.

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