



Nebraska On-Farm Research Network

Years: 2012
Title: Seed Treatment
Crop: Soybean
Study ID: 108155201205
County: Saunders
Objective: Study effect of various seed treatments on soybean production and profitability.
Treatments: Fungicide/Insecticide/Inoculant

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Information: 2012

Soybeans Seed Treatment

Fungicide: Allegiance

Fungicide: TRILEX

Insecticide: GAUCHO

Inoculant: HP Vault - BioStacked

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More Return From Every Acre

Just one additional soybean per plant can result in an additional bushel per acre of yield. At \$13 per bushel, soybeans treated with VAULT[®] HP returned an extra \$42 per acre income (3.3 bushel-per-acre yield advantage) over non-inoculated soybeans in 2010 field trials. That's more than a **9-to-1 return on investment** using average treatment costs.

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Advanced production techniques, packaging materials plus special nutrient and extender technology enables VAULT HP to deliver industry-leading 125+ days of on-seed *rhizobia* survival.

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The *rhizobia* in VAULT HP are produced fresh for each growing season to ensure superior performance in treatment systems and in the field. *Rhizobia*, like vaccines and yeast, are living organisms whose numbers are reduced over time in storage and with temperature variations. Fewer *rhizobia* will be available from two-year dated products than from made-fresh-each-season VAULT HP.


BioStacked[™] Technology Advantage

Becker Underwood[®] is the global leader in research, development and production of inoculant and advanced biological products. Our BioStacked technology permits the delivery of multiple beneficial biological components that work together as a system to deliver maximum nitrogen fixation, enhanced plant vigor and increased yield potential. Stacking biological components with multiple modes of action and benefits helps deliver more consistent and dependable performance improvements to growers across a broader range of environmental conditions.

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Results: 2012

	Soybeans	
	<u>Fungicide + Insecticide +Inoculant</u>	
Treatment	Check	Treated
Yield, bu/ac @13%	66.2	66.0
Cost/Acre	---	\$11.77
Prob>/T/ 0.6923 ns	A	A
Moisture, %	8.27	8.14
Prob>/T/ 0.0005***	A	B
Field #	F2.36ne	
Practice	Irrigated	
Planted: 5/16/12 Harvested: 9/27/12		
Hybrid Pioneer 92Y70 @ 150k		
No-Till on Corn		

Note: Field included a dryland corner that became increasingly prominent to one side of the study area. Splitting plot to contain the dryland influence lowered the plot variability but did not produce a statistically significant value.

Summary: The combination of fungicide+insecticide+inoculant did not increase irrigated soybean yield versus the untreated check. However, the seed treatment did result in slightly lower moisture level at harvest.

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