

On-Farm Comparison Results

- GRIMES

Nebraska Soybean & Feed Grains Profitability Project

Years: 2001 - 2003

Title: Soybean Rhizobia Inoculation

Crop: Soybeans

NSFGPP Operator: David Grimes, Lancaster County

Private Industry Cooperator: Earle Raun

Objective: To determine and document the effect of using seed applied inoculum on the profitability of producing soybeans

Treatments: None vs. Regular Inoculum vs. CellTech Inoculum (Regular Inoculum vs. CellTech Inoculum in 2002)

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Results:

	<u>Variable</u>	<u>None</u>	<u>Regular</u>	<u>CellTech</u>	<u>Prob >F</u>
2001	Yield , bu/ac at 13.0%	49	48	47	0.554 ns
	Moisture, %	9.5	9.5	9.5	1.000 ns
	Test Wt., lbs/bu	55.7	55.7	55.6	0.495 ns
	Cost/ac		\$0.44	\$1.04	
2002	Yield , bu/ac at 13.0%	---	45	47	----
	Moisture, %	---	12.9	13.0	----
	Test Wt., lbs/bu	---	55.0	55.0	----
	Pop., 1,000 plants/acre	---	135.0	136.4	----
	Cost/ac	---	\$0.50	\$1.00	
Variety: Stine 3183-4					

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	<u>Variable</u>	<u>None</u>	<u>Regular</u>	<u>CellTech</u>	<u>Prob >F</u>
	Yield , bu/ac at 13.0%	39	37	40	0.278 ns
	Moisture, %	10.5	11.4	10.6	0.408 ns
2003	Cost/ac (Stine 2783-4)	---	\$.50	\$.92	

Summary: The application of Rhizobium Inoculum had no effect on the growth and seed yield of soybeans in 2001 or 2003. In 2002, treatments were not randomized; thus, no conclusions could be drawn.