



Nebraska On-Farm Research Network

Full Rate vs. Three-Fourths Rate Corn Rootworm Insecticide

Study ID: 092155199301

County: Saunders

Year: 1993

OBJECTIVE: To determine and document the profitability of a full versus a reduced rate of corn rootworm insecticide.

FULL RATE

Treatment:

Anhydrous

Herbicide: 1 pint Roundup, 1 pint 2,4-D,
1 pint Buctril and .667 ounce
Accent

Insecticide: 8.7 pounds/acre Lorsban 150

Planting

Harvest

Costs: 1993

Insecticide (Full rate) \$14.79/acre

Comparative cost \$14.79/acre

REDUCED RATE (.75 rate)

Treatment:

Anhydrous

Herbicide: 1 pint Roundup, 1 pint 2,4-D,
1 pint Buctril and .667 ounce
Accent

Insecticide: 6.5 pounds/acre Lorsban .150

Planting

Harvest

Costs: 1993

Insecticide (.75 rate) \$11.05/acre

Comparative cost \$11.05/acre

Nebraska Soybean & Feed Grains Profitability Project



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Full vs. Three-Fourths vs. Zero Rate Corn Rootworm Insecticide Page 2

VARIABLE		CORN
Final population (seeds/acre)	Full	20,100
	Reduced	19,700
Moisture (%)	Full	19.3
	Reduced	19.2
Test weight (pounds/bushel)	Full	57.7
	Reduced	57.5
Yield (15.5 %) (bushels/acre)	Full	111 **
	Reduced	109

****** significantly different at 95% confidence level

summary: The full insecticide rate yield was significantly higher than the reduced rate in 1993.
Full insecticide rate costs were about \$4.00/acre higher than the three-fourths rate.

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