



Nebraska On-Farm Research Network

Full Rate vs. Three-Fourths Rate Corn Rootworm Insecticide

Study ID: 092155199401

Year: 1994

County: Saunders

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

FULL RATE

Treatment:

Fertilizer:

Anhydrous Ammonia

Herbicide:

1994-2.5 pounds Extrazine ,
1 pound Atrazine, 1 pint
2,4-D and 1 pint Buctril

Insecticide: Lorsban 15G

, 8.7 pounds/acre

Plant

Harvest

REDUCED RATE (Three-fourths rate)

Treatment:

Fertilizer:

Anhydrous Ammonia

Herbicide:

1994-2.5 pounds Extrazine,
1 pound Atrazine, 1 pint
2,4-D and 1 pint Buctril

Insecticide: Lorsban 15G

6.5 pounds/acre

Plant

Harvest

ZERO RATE (1994 and 1995 only)

Treatment:

Fertilizer:

Anhydrous Ammonia

Herbicide:

1994-2.5 pounds Extrazine,
1 pound Atrazine, 1 pint
2,4-D and 1 pint Buctril

Insecticide: None

Plant

Harvest

Nebraska Soybean & Feed Grains Profitability Project



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

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Comparative cost (per acre)		Comparative cost (per acre)		Comparative cost (per acre)	
<u>1994</u>		<u>1994</u>		<u>1994</u>	
Insecticide	\$13.92	Insecticide	\$10.40	Insecticide	\$ 0.00
Total	\$13.92	Total	\$10.40	Total	\$ 0.00

VARIABLE		1994 CORN
Final population (seeds/acre)		
Full		19,900
Reduced		18,800
None		19,500
Moisture (%)		
Full		14.7
Reduced		14.6
None		14.6
Test weight (pounds/bushel)		
Full		58.8
Reduced		58.9
None		58.8
Yield (15.5 %) (bushels/acre)		
Full		151 **
Reduced		148
None		145

** significantly different at 95% confidence level

summary: A significant difference was measured between the full and three-fourths insecticide treatments in 1994.

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