Nebraska On-Farm Research Network

Full Rate vs. Three-Fourths Rate Corn Rootworm Insecticide

Study ID: 092155199501

Year: 1995
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	REDUCED RATE (Three-fourths rate)	ZERO RATE
Treatment:	**Treatment:**	**Treatment:**
Fertilizer: Anhydrous Ammonia	Fertilizer: Anhydrous Ammonia	Fertilizer: Anhydrous Ammonia
Herbicide: 1995—.6 gallons Bicep and 1 pint 2,4-D	Herbicide: 1995—.6 gallons Bicep and 1 pint 2,4-D	Herbicide: 1995—.6 gallons Bicep and 1 pint 2,4-D
Insecticide: Lorsban 15G 8.7 pounds/acre	Insecticide: Lorsban 15G 6.5 pounds/acre	Insecticide: None
Plant	Plant	Plant
Harvest	Harvest	Harvest

Nebraska Soybean & Feed Grains Profitability Project

Nebraska On-Farm Research Network

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

Comparative cost (per acre) 1995		Comparative cost (per acre) 1995		Comparative cost (per acre) 1995	
Insecticide	$14.95	Insecticide	$10.73	Insecticide	$0.00.
Total	**$14.95**	**Total**	**$10.73**	**Total**	**$ 0.00**

1995 CORN

VARIABLE		
Final population (seeds/acre)		
	Full	17,700
	Reduced	17,200
	None	18,300
Moisture (%)		
	Full	15.5
	Reduced	15.4
	None	15.6
Test weight (pounds/bushel)		
	Full	**58.5**
	Reduced	**58.6**
	None	**58.5**
Yield (15.5 %) (bushels/acre)		
	Full	**78**
	Reduced	**77**
	None	**80**

** significantly different at 95% confidence level

summary: **In 1995, the insecticide treatment did not significantly influence grain yield.**