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	REDUCED RATE (Three-fourths rate)	ZERO RATE (1994 and 1995 only)
Treatment:	**Treatment:**	**Treatment:**
Fertilizer: Anhydrous Ammonia	Fertilizer: Anhydrous Ammonia	Fertilizer: Anhydrous Ammonia
Herbicide: 1994-2.5 pounds Extrazine, 1 pound Atrazine, 1 pint 2,4-D and 1 pint Buctril	Herbicide: 1994-2.5 pounds Extrazine, 1 pound Atrazine, 1 pint 2,4-D and 1 pint Buctril	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	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

Comparative cost (per acre) 1994		Comparative cost (per acre) 1994		Comparative cost (per acre) 1994	
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.**