Insecticide Use on First-Year Corn

Steve Ruhl, AGNR Extension Educator- Morrow County

Objective

To investigate the use of rootworm insecticide on first-year corn.

Background

Crop Year:	1997	Soil Test:	pH 7.0; P 23ppm; K 154 ppm
Cooperator:	Tom Weiler	Fertilizer Applied:	180# NH_3 pre-plant; 46# P_2O_5; 120# K_2O; 11 gal. 10-34-0
County/Town:	Morrow/ Chesterville		
Drainage:	Systematic	Herbicide:	Dual II 1 qt.; Atrazine 1.8#; Bladex 1.8#
Major Soil Type:	Millgrove		
Previous Crop:	Soybean	Variety:	Pioneer 3335
Tillage:	Fall chisel; field cultivate twice	Planting Rate:	26,700 seeds/A
		Planting Date:	April 30, 1997
		Harvest Pop.:	25,800 plants/A
		Harvest Date:	October 11, 1997

Methods and Results

Variety	Insecticide	Rate	Yield (bu/A)
Pioneer 3335	Force	5 oz/Ac	153.7
Pioneer 3335	None	-	150.7
LSD (.05)			12.9 (NS)

Summary and Notes

This research project was designed to study the effect of insecticide use on first-year corn. Force insecticide was used at the 5-oz.-per-acre rate. Pioneer 3335 was used as the corn variety. The results are the average of five side-by-side one-fifth acre plots. Each plot was six rows wide. Yield differences were not significantly different. The improvement in yield received would barely cover the cost of insecticide used. Normally in Ohio a planter-box treatment with insecticide is not recommended on first-year corn by Ohio State University.

For additional information, contact:

Steve Ruhl
The Ohio State University
ruhl.1@osu.edu