Insecticide Use on First-Year Corn

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Objective

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

Background

Crop Year: 1997
Cooperator: Tom Weiler
Fertilizer Applied: 180# NH₃ pre-plant; 46#
P₂O₅; 120# K₂O; 11 gal. 10-34-0
Drainage: Systematic
Herbicide: Dual II 1 qt.; Atrazine 1.8#;
Major Soil Type: Millgrove
Bladex 1.8#
Previous Crop: Soybean
Variety: Pioneer 3335
Tillage: Fall chisel;
Planting Rate: 26,700 seeds/A
field cultivate twice
Planting Date: April 30, 1997
Harvest Pop.: 25,800 plants/A
Harvest Date: October 11, 1997

Methods and Results

<table>
<thead>
<tr>
<th>Variety</th>
<th>Insecticide</th>
<th>Rate</th>
<th>Yield (bu/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pioneer 3335</td>
<td>Force</td>
<td>5 oz/Ac</td>
<td>153.7</td>
</tr>
<tr>
<td>Pioneer 3335</td>
<td>None</td>
<td>-</td>
<td>150.7</td>
</tr>
</tbody>
</table>

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.

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