Bt Corn Yields

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Objective

To examine the yield performance of new Bt corn varieties.

Background

Crop Year: 1997  
Soil Test: pH 7.0; P 23ppm; K 154ppm
Cooperator: Tom Weiler  
Fertilizer Applied: 180# NH₃ pre-plant; 11 gal.
County/Town: Morrow/ Chesterville  
10-34-0 + 46# P₂O₅ + 120# K₂O
Drainage: Systematic  
Herbicide: Dual II 1 qt.; Atrazine 1.8#;
Major Soil Type: Millgrove  
Bladex 1.8#
Previous Crop: Soybean
Tillage: Fall chisel; field cultivate
Planting Rate: 26,700 seeds/A
Planting Date: April 30, 1997
Harvest Pop. 25,800 plants/A
Harvest Date: October 15, 1997

Methods and Results

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity (# days)</th>
<th>Moisture (% Harvest)</th>
<th>Yield (bu/A)</th>
<th>% of Tester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countrymark N6800 Bt</td>
<td>112</td>
<td>27.2</td>
<td>198.38</td>
<td>118</td>
</tr>
<tr>
<td>Countrymark N4640 Bt</td>
<td>103</td>
<td>19.9</td>
<td>122.74</td>
<td>72</td>
</tr>
<tr>
<td>Pioneer 35N05</td>
<td>105</td>
<td>22.4</td>
<td>157.76</td>
<td>93</td>
</tr>
<tr>
<td>Pioneer 33Y09</td>
<td>113</td>
<td>28.8</td>
<td>174.26</td>
<td>103</td>
</tr>
<tr>
<td>Pioneer 3335 (Tester)</td>
<td>111</td>
<td>25.3</td>
<td>169.42</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Summary and Notes

The weed pressure in this study was light. The reduced annual grass control in treatments 1 and 4 is due to the lack of rapid soybean canopy closure after application, because the soybeans were only at the second trifoliate at application. Despite the lower weed control in treatments 1, 4, and 7, there was no significant reduction in yield.

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