Row Starter Compared to Broadcast P&K on Corn

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Objective

To compare corn-yield performance under two different fertilizer programs.

Background

Crop Year: 1997  
Fertilizer Applied: 190# 7-34-20, 150# N sidedress  
Herbicide: 5 qt. Extazone; 1 pt. Weedone  
4/30/97 with water on 1 rep.  
5/17/97 with 28% N on 2 reps.  
Cooperator: Dennis Baker  
County/Town: Darke/ Greenville  
Drainage: Subsurface  
Major Soil Type: Miami  
Previous Crop: Wheat  
Tillage: None  
Soil Test: pH 7.0; P 46ppm; K 206ppm  
Variety: Pioneer 3313  
Planting Rate: 28,000 seeds/A  
Planting Date: April 23, 1997  
Harvest Date: October 21, 1997

Materials and Methods

These plots compared row-applied N-P-K fertilizer to row-applied N only with P and K broadcast. Plots were field length replicated three times and completely randomized.

Results

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
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<tbody>
<tr>
<td>Row N-P-K</td>
<td>82.3 bu./A</td>
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<tr>
<td>Row N/Broadcast P&amp;K</td>
<td>82.1 bu./A</td>
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No significant difference with LSD of 6.2 bu/A at the 5% level of probability. Coefficient of variation equaled 2.1%.

Summary and Notes

Low corn yields were due primarily to wet conditions at planting as well as dry conditions in July and August. Corn did not tassel until late July.

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