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

Treatment	Yield
Row N-P-K	82.3 bu./A
Row N/Broadcast P&K	82.1 bu./A

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.

For additional information, contact:

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