

Soybean Seeding Rate Trial

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Objective

To understand the yield impact of varying soybean seeding rates.

Background

Crop Year: 2018	Tillage: Vertical
Location: Bolivar, OH	Planting Date: June 4, 2018
County/Town: Tuscarawas County	Seeding Rate: 100,000; 125,000; 150,000; 175,000; 200,000
Soil Type: Shoals silt loam, Chagrin silt loam	Harvest Date: October 24, 2018
Drainage: None	
Previous Crop: Corn	

Methods

A randomized-complete block design was used. Seeding rates of 100,000, 125,000, 150,000, 175,000, and 200,000 were replicated five times in this 18 acre plot.

Results

This study resulted in no significant difference in yield among the treatments. The seeding rates of 100,000, 125,000, and 150,000 seeding rates were one bushel per acre greater in yield than the 175,000 and 200,000 seeding rates, but there was not a statistically significant difference in yields.

Table 1. Soybean Yield Response to Varying Seeding Rates

	Yield (bushels/acre)
100,000	69 A
125,000	69 A
150,000	69 A
175,000	68 A
200,000	68 A

LSD Not significant

Summary

The results of this study show that, at this location and in this year, soybean seeding rates could be reduced without sacrificing yield. An analysis of returns above seed cost found that the 100,000 seeding rate had the highest return (\$559) above seed cost.

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