

# Soybean Inoculant Trials

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## Objective

The objective of this trial was to compare the performance of new soybean inoculum products on three farms in Wyandot County.

## Background

Cooperator:	Dean Koehler	Rod Philips	Gary Walter
Nearest Town:	Nevada	Carey	Upper Sandusky
Variety:	322 STS	DeKalb 267	Callahan 7383
Planting Date:	May 21, 1998	May 22, 1998	May 23, 1998
Planting Rate:	235,000	225,000	230,000
Tillage:	No-till	No-till	No-till
Soil Type:	Blount A	Lykins A	Blount A
Previous Crop:	Corn	Corn	Corn

## Methods

A new pre-mixed, humus-based inoculant containing a USDA-patented strain of Rhizobium with sticking agent was compared to not using any inoculant on three producer fields. Dean Koehler used 30' by 900' long strip plots. Rod Phillips and Gary Walter both used 45' by 1/2 mile long strips. The experiment design was a randomized, complete block with six replications at each site. Harvested sections of each strip plot were as follows: Koehler farm, 0.82 acre; Phillips farm, 0.30 acre; and Walter farm, 0.28 acre.

## Results

	Koehler Farm	Phillips Farm	Walter Farm
No Inoculum Yield (bu/A)	54	65.4	54
Inoculum Yield (bu/A)	54.3	65.9	54.3
F test	0.24	0.67	2.39
Significance (P=0.05)	NS	NS	NS
CV	1.40%	3.00%	3.90%

## Summary and Notes

On all three farms the inoculum treatment did not significantly increase yields. Experimental error was well controlled as indicated by low coefficients of variation.

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