

# The Effect of SoyExcel Inoculant on Soybean Yield

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## Objective

The objective of this field trial was to evaluate the effect of SoyExcel soybean inoculant on soybean yield. SoyExcel is produced and marketed by Brett-Young Seeds Limited, Canada.

## Background

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Cooperator:	Steve Ruhl	Fertilizer:	200#/ac of 0-0-60
County:	Morrow	Herbicides:	Glyphosate 32 oz. & AMS (twice)
Nearest town:	Williamsport	Planting Date:	May 11, 2005
Drainage:	Moderately drained	Planting Rate:	188,220 seeds/acre
Soil Type:	Sleeth silt loam	Row Width:	10-inch
Tillage:	No-till	Harvest Date:	October 5, 2004
Previous Crop:	Corn		
Variety:	Syngenta S32-G5		
Soil Test:	pH = 6.0		
	P = 78 ppm		
	K = 232 ppm		

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## Method

The study consisted of two treatments, inoculated and no inoculation, replicated four times in a randomized complete block design. The seed was inoculated with 4.5 grams of SoyExcel inoculant per kilogram of seed and planted immediately into moist soil. Prior to inoculating the seed was moistened slightly to increase adherence of the inoculation material to the seed. Plots were 30 x 600 feet in size with the center 15-feet harvested and weighed using a weigh wagon.

## Results

Table 1. Effect of SoyExcel Inoculant on Soybean Yields

<u>Treatment</u>	<u>Yield (Bu/Ac)</u>
No Treatment	45.2
SoyExcel Inoculant	45.7
	LSD (5%) = NS
	CV% = 2.9

## **Summary**

Yields of the two treatments were not statistically different. Rainfall was abundant during July-September resulting in excessive vegetative growth that resulted in plant lodging the last six weeks before harvest.

This was a one-year study using SoyExcel. Further studies of soybean inoculation are warranted.

## **Acknowledgement**

The author would like to thank Brett-Young Seeds Limited of Winnipeg, Manitoba, Canada for providing the SoyExcel inoculant.

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