

**Soil Technologies Corp.**  
**Research and Development Department**



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## **Research Report**

**Title:** Intercept<sup>1</sup> Effect on Sugar Beet Yields

**Location:** Morehead, MN USA

**Principal Investigators:** Dr. Dick Watkins  
American Crystal Sugar Co. Research Center

**Crop:** Sugar beet

**Date:** 1980

### **Abstract:**

The purpose of this study was to evaluate the effect of Intercept and Maneb<sup>2</sup> on sugar beet yields. Tests were performed on 100 ft rows of sugar beets. Percentage of sucrose, root yield, impurity index, and extracted sucrose were evaluated. One block was left untreated as a control, another was treated with Maneb, and a third treated with Intercept. The blocks treated by Intercept had the highest percentage of sucrose and extracted sucrose and the lowest impurity index. Results show there is potential for beneficial effects on sugar beets from applications of Intercept.

### **Methods:**

The test design was set up with five repetitions of three blocks. Each block consisted of a 100 ft row of sugar beets. One block was treated with Maneb, one block was treated with Intercept as a peat inoculum at a rate of 105 viable cells/seed. The third block was a control with no treatment.

### **Results:**

Data was collected in order to evaluate the results of the study in four categories: percentage of sucrose, root yield, impurity index, and extracted sucrose. The blocks treated by Intercept had the highest percentage of sucrose and extracted sucrose and the lowest impurity index. The results are shown in Table 1.

<sup>1</sup>Intercept is an OMRI listed soil microbial inoculant.

Intercept is manufactured by Soil Technologies Corp. Fairfield, IA USA.

<sup>2</sup>Maneb is a chemical fungicide registered with the US EPA.

<b>Treatment</b>	<b># Plants per 100 ft.</b>	<b>% Sucrose</b>	<b>Root Yield</b>	<b>Impurity Index</b>	<b>Extracted Sucrose</b>
Control	103	17.6	16.7	782	5178
Maneb	110	17.6	17.3	760	5414
Intercept	100	18.2	17	694	5536
No. of Reps.	5	5	5	5	5

Table 1: Results

**Conclusions:**

The results of this study show that the use of Intercept has potential for beneficial effects on sugar beets including percentage of sucrose and extracted sucrose and the lowest impurity index.