



**Partners in Pollution Prevention Intern:** Derek Wallin

**Major:** Mechanical Engineering

**School:** University of Nebraska-Lincoln

### **History of Lindsay Corporation:**

In 1955 Paul Zimmerer started his own farm equipment business in Lindsay Nebraska. In the 1960's his kids designed and built the first Zimmatic center pivot. In the early 2000's Lindsay Corporation went large, buying other companies and expanding to a global company by putting up plants around the world. Over the years Lindsay Corporation has hired 3 other P3 interns proving their goal to become more environmentally friendly and energy efficient. Lindsay Corporation is constantly changing and expanding to lead the world in center pivot irrigation and other markets.



### **Business and Project Description:**

During the summer of 2014, Lindsay Corporation was approached to get re-involved with the Partners in Pollution Prevention (P3). Derek Wallin, a previous intern at Lindsay Corporation, was sent to analyze Lindsay Corporation's product flow and other areas within the plant. Derek Wallin suggested 5 equipment location changes to improve product flow and reduce material handling, product reformation, and other general suggestions.

### **Pollution Prevention Benefits:**

The suggestions given will save Lindsay Corporation money and reduce their environmental impact. Also, some of the suggestions, like the forklift scales, will decrease/eliminate the long lines at the weigh scale, allowing material handlers to move to the next item on hand.

### **Results:**

The Pollution Prevention benefits and results are given in Table 1.

**Table 1: Pollution Prevention Benefits**

Description	Annual Savings	Annual Reductions
General	\$19,450/yr	100 MTCO <sub>2</sub> E/yr
Product Reformation	\$262,000/yr	580 MTCO <sub>2</sub> E/yr
Product Flow Benefits	\$19,800/yr	3 MTCO <sub>2</sub> E/yr
<b>Total</b>	<b>\$300,000/yr</b>	<b>680 MTCO<sub>2</sub>E/yr</b>