

## Project Overview

### Small Business Assistance/Industrial Assessment

**Intern:** Melissa Golden

**Major:** Biological Engineering

**School:** University of Missouri-Columbia



### Company Background

Melissa Golden, 2007 Partners in Pollution Prevention intern, provided small business assistance and industrial assessments for Parker Hannifin Corporation and Western Tire Company in McCook, Nebraska.

Parker Hannifin Corporation is an \$8 billion company employing over 50,000 people in 45 countries. The corporation manufactures aerospace, automation, industrial, control, filtration, fluid connection, and hydraulic equipment. The McCook facility, located at 400 South St, McCook, NE 69001, is an ISO 9001 industrial rubber hose manufacturing operation with around 300 employees. The facility also produces rubber compounds for other facilities to use.

Western Tire Company, located at 808 W. B St, McCook, NE 69001, specializes in oil and tire changes. The facility is open from 8am to 5pm and employs eight employees. Western Tire is a family owned business and has been in operation for over 30 years.

### Project Description

Melissa Golden was placed at the Red Willow County Extension Office where she assisted in various activities over the summer. She made several formal presentations about pollution prevention: one to 8-12 year old children at the 4-H Discoveries Day Camp; the others to the Extension Board and local Rotary Club. Melissa's main pollution prevention business assistance projects involved compressed air, rubber/cardboard/yarn recycling, and general pollution prevention for a maintenance shop. While in Southwest Nebraska, Melissa also performed two reassessments of work conducted previously in North Platte.

### Pollution Prevention Benefits & Results

Many tangible and intangible benefits can be realized from the pollution prevention activities undertaken and recommendations made by the intern. Public outreach and awareness was achieved through three formal presentations, numerous informal conversations, and one newspaper article. Approximately 8,000 people were reached through these efforts. Many pollution prevention opportunities were identified for the businesses assisted. The recommendations included many intangible benefits such as increased employee safety, reduced regulatory burden, and improved public relations. In addition, the tangible benefits included cost savings, energy conservation, and a reduction in landfill volume. A summary of the tangible benefits is outlined below in Table 1.

**Table 1. Summary of Potential Pollution Prevention Benefits**

<b>Business</b>	<b>Cost Savings (per year)</b>	<b>Initial Cost (per year)</b>	<b>Energy Saved</b>	<b>Solid Waste Diverted from Landfill</b>
<b>Parker Hannifin</b>	\$242,600- \$243,600	\$119,426-\$184,826	1,096,000 kWh/yr	2,283,200 lbs/yr
<b>Western Tire</b>	\$542	\$934-\$1,530	5,100 kWh/yr	240
<b>Total</b>	<b>\$243,142 to \$244,142</b>	<b>\$120,360 to \$186,356</b>	<b>1,101,100 kWh/yr</b>	<b>2,283,440 lbs/yr</b>