

Industrial Assessment Team Intern: Sam Ghormley
Major: M. S. Environmental Engineering
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Project Description:

In the summer of 2015, the University of Nebraska-Lincoln's Partner's in Pollution Prevention (P3) program formed an Industrial Assessment Team (IAT) to give free assistance to businesses throughout Nebraska. The IAT consisted of five members: Sam Ghormley, Tanner Gosda, Dave Hansen, Aaron Ratigan, and Xingtao Wang. Dr. Williams provided direct support to the interns.



Five Nebraska businesses were given assistance over the course of the summer: Neapco in Beatrice, the University of Nebraska-Lincoln MME Machine Shop, Hughes Brothers in Seward, Omaha Steel in Wahoo, and Tyson Beef in Lexington. IAT interns visited each site for an initial inspection and to discuss with the business the focus they wished to see for the summer project. Using these guidelines, interns researched opportunities for pollution prevention (P2), increased energy efficiency (E2), and waste reduction for each company. A summary of the cost savings and P2 opportunities for the locations assessed by Sam Ghormley is shown below in Table 1.

Table 1. Breakdown of Potential Cost Savings, Pollution Reduction, and Greenhouse Gas Reduction

	Total Cost Savings per year	Solid Waste Reduction per year	Energy Reduction per year	Total Emissions Reduction per year
Neapco	\$160,000	--	961,000 kWh	680 MTCO _{2e}
Omaha Steel	\$110,000	2,200 Tons	1,200 Gallons (Diesel)	12 MTCO _{2e}
Total	\$50,000	2,200 Tons	961,000 kWh, 1,200 Gallons (Diesel)	690 MTCO_{2e}