

# ECO Project - Environment and Conservation Opportunities

Reduce Solid Waste Generated and  
Discarded at MCF-Rush City and  
Ultimately Throughout the Department of  
Corrections Facilities.

# ECO Team Members

ECO Team Leader:

- Flore Allen, OPH

ECO Team Members:

- Kelly Hagen, ML
- Steve Forrest, RC
- Terri Hamernick, SHK
- Julie Schmidt, MINNCOR

Team Champion:

- Reena Abraham

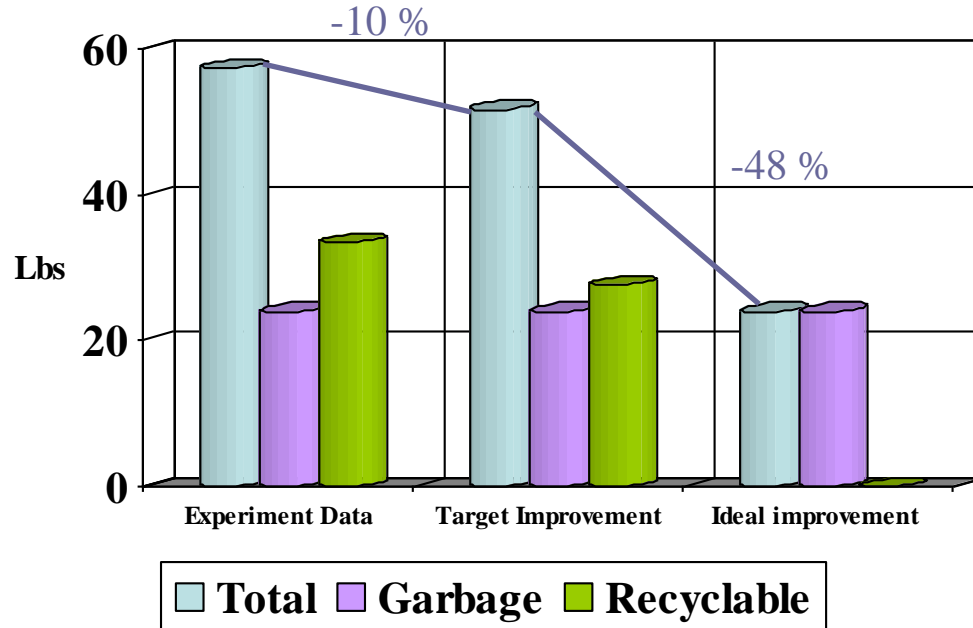


# Garbage separation experiment

- One Experiment on Friday, March 20<sup>th</sup>, 2008.
- 7 Bags Randomly Selected.



Total Solid Waste

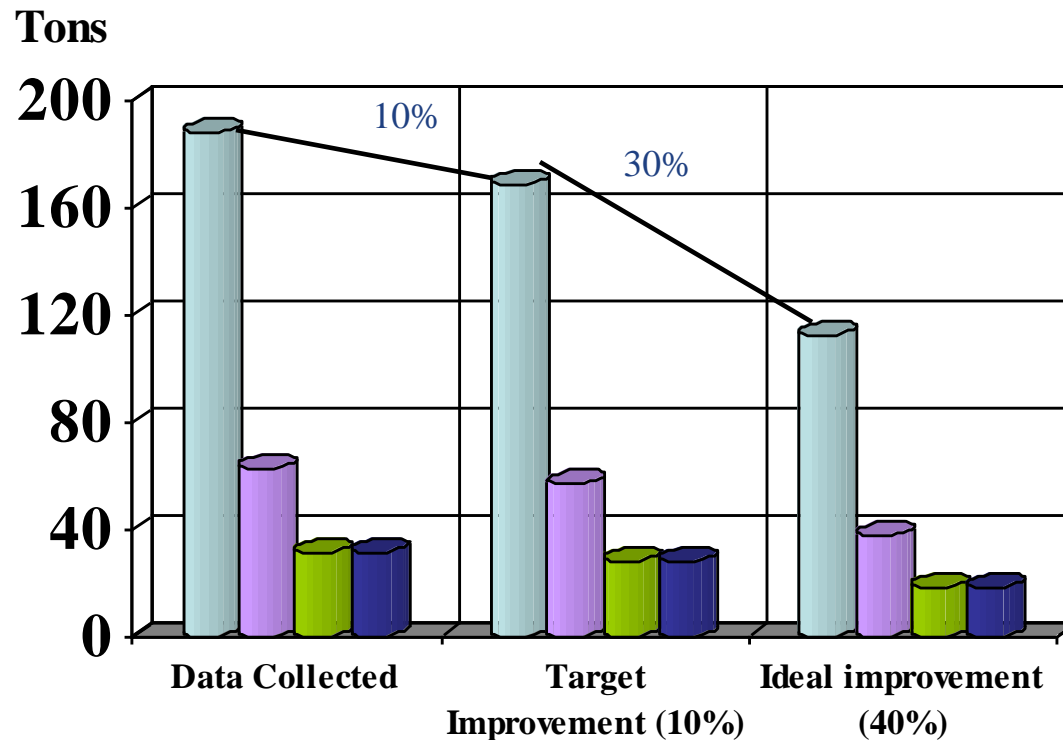


Recyclable

Garbage

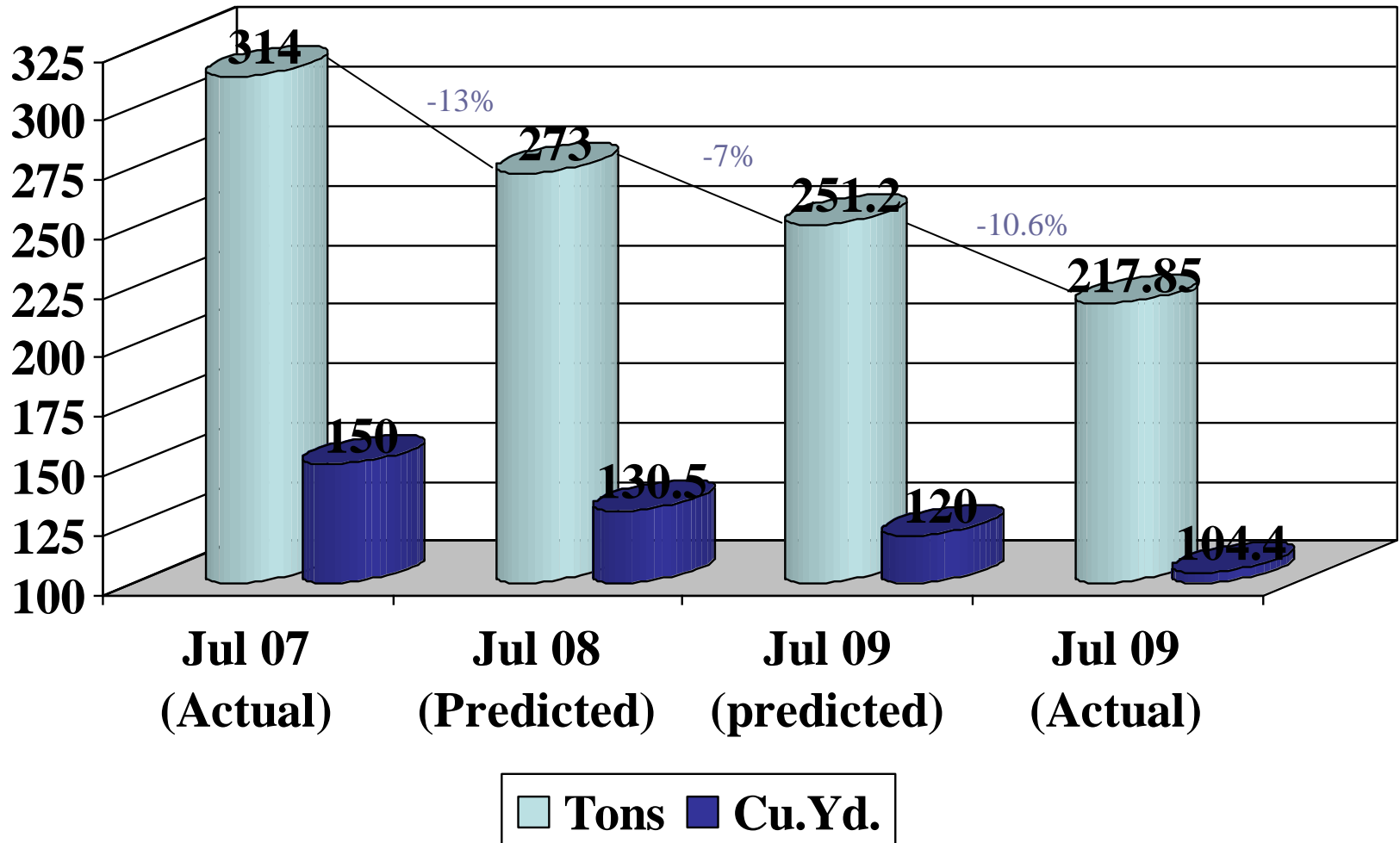
# Performance Measure Targets

- One Week Collection and Separation.
- Garbage Originating From All Areas of Facility.



■ Kitchen ■ Offender Support ■ Employee Support ■ Industry

# Data Progression - Expectations



# Areas of Focus

- Facility Parted in Four Areas of Focus:
  - Kitchen
  - Offenders Support Services
  - Employee Support Services
  - Industry

# Kitchen – Waste Disposal Process

- Creation of a Recycling Center (Bins, Labels, Signs, ...)

⇒ Increased Recycling:

⇒ Food Scraps

⇒ Cardboard

⇒ Plastic

⇒ Cans

# Kitchen – Additional Green Efforts

- Styrofoam Vs. Paper Cups
- Disposable Vs. Reusable Utensils
- Staff Lounge Recycling
- [Kitchen Grease](#)



# Kitchen – Costs/Benefits

- Costs:
  - Increase in Food Waste Recycling/year: \$733
  - Develop Waste Disposal Process: \$4,913
  - Reusable Utensils: \$314
  - Increase in Recycling/year: \$1,485
- Benefits:
  - Disposable utensils not purchased/year: \$175
  - Grease recycled/year: \$960
  - Decrease in Solid Waste/year: \$3,912

Initial Costs: **\$7,445**, Subsequent Annual Savings: **\$2,829**

# Offender Support Services

- Discontinued Use of Paper Bags in Living Units
- Establish Offender Clothing Recycling
- Installed Electric Hand Dryers to Replace Paper Towels
- Increase Living Units Recycling (Posters, Batteries, ...)
- Increase Awareness (Handbook, Offender Channel, Training, ...)

# Offender Support Services – Costs/Benefits

- Costs:
  - Offender awareness: \$578
  - Hand Dryers: \$52,000
  - Increase in Recycling/year: \$297
- Benefits:
  - Discontinued Paper Bags Use/year: \$5,800
  - Switch to Hand Dryers/year: \$5,296
  - Decrease in Solid Waste/year: \$1,304

Initial Costs: **\$52,875**, Subsequent Annual Savings: **\$12,103**

# Employee Support Services

- Increase Document Destruction
- Provide Recycling Bins and Adequate Signage
- Installed Electric Hand Dryers
- New Employee Orientation

# Employee Support Services – Costs/Benefits

- Costs:
  - Document Destruction/year: \$480
  - Increase in Recycling/year: \$148.50
  - Hand Dryers: \$78,000
- Benefits:
  - No Shredders/year: \$200
  - Decrease in Solid Waste/year: \$391.20
  - Switch to Hand Dryers/year: \$1,324

Initial Costs: **\$78,628.50**

Subsequent Annual Savings: **\$1,766.70**

# Realized/Expected Benefits

- 30.6 % Reduction of Solid Waste (7/1/09)
- Increase Recycling Pick-Ups
- Reduce RC Environmental Impact
- Avoid Fines
- Positive Public Image

# Project Cost/Benefits

- Initial Cost: **\$119,189**  
(Hand dryer initiative \$130,000)
- Savings Subsequent Years:  
**\$16,687**
- Collect Data to Support Progress

# Continuous Improvement

- DOC Green Committee / Website
- DOC Surplus Site
- Share Project (Workshop / Presentations)



# Questions and Comments