

# Penn State's Waste Management Program

Fall 2014



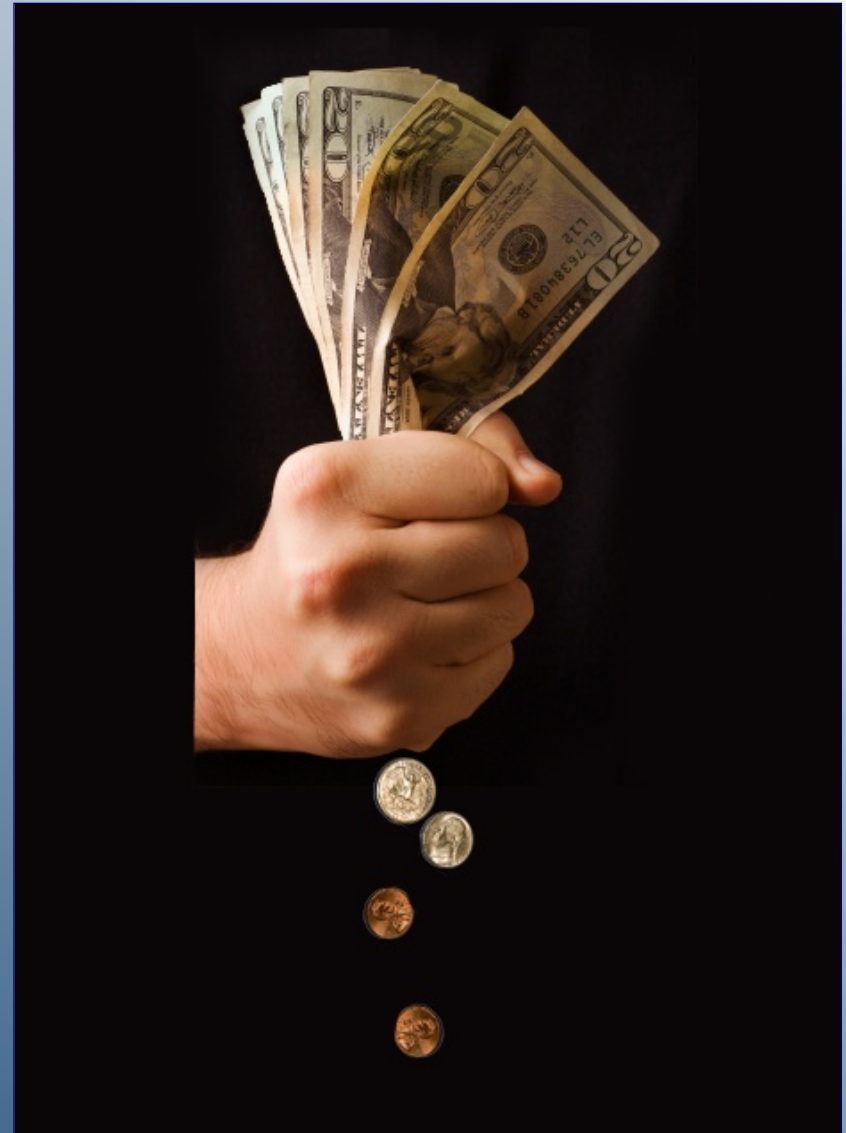
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# OBJECTIVES

- Appreciate Penn State's commitment to recycling/reuse initiatives
- Understand Penn State's refuse / recycling efforts
- Identify waste handling opportunities in your facilities
- Introduce the REDI Index concept

# WHY?

- ACT 101
- AD 34
- Savings
- Environmental Stewardship





# WHAT?

- Waste Audit
- Waste Stream Characterization
- Low hanging fruit
- Pilot and data
- Development of programs and processes
- Modify, modify, modify...



# WHO?



National Recycling Coalition



- PSU waste manager
- County / local recycling coordinator
- Partners
- Advocates
- Professional organizations (NRC, PROP, PRC)
- Campus community



# HOW?

- Monitor key components
- Education and outreach
- Diversify waste capture scheme
- Stimulate advocacy
- Stay the course





# COSTS

- Refuse \$67 / ton
- Recycling \$20 / ton (bagged)  
\$ 5 / ton (unbagged)



# PSU WASTE MANAGEMENT 1990 OPERATION OVERVIEW:

## REFUSE

- Primary Routes

## RECYCLING

- Cans
- Glass
- Newspaper





# PSU WASTE MANAGEMENT 2013 OPERATION OVERVIEW:

## REFUSE

- Primary Route
- Compactor Route

## RECYCLING

- OCC Route
- Mixed office paper route
- Cans, glass, plastic containers, newspaper (campus stream)
- Compost, newspaper (readership stream)
- Special event, shredding, soil



# PSU WASTE MANAGEMENT 2013 OPERATION OVERVIEW:

- Pallets
- Used Motor oil, antifreeze, parts cleaner
- Batteries – lead acid, NiCad
- Ferrous / Non-ferrous scrap metal
- Fluorescent lamps (hazardous waste)

## CONTRACT SERVICE

- Roll off (20 and 30 yard)



# PSU WASTE MANAGEMENT 2013 OPERATION OVERVIEW: SPECIAL EVENT RECYCLING

- Beaver Stadium Recycling Effort
- Bryce Jordan Recycling Effort
- Four Diamond Recycling Effort
- Zero-waste tailgate
- 100 Ton Glass Challenge Effort
- State College Spike Recycling Effort





# PSU WASTE MANAGEMENT 2013 OPERATION OVERVIEW: SPECIAL EVENT RECYCLING

- Doing Innovative Recycling Today
- Post Game Recycling Volunteer Effort
- Newspaper Readership Scholarship
- Environmental Resource Management Scholarship
- Special Requests:
  - Ag Progress Days
  - Ag Alumni Tailgate
  - Special Olympics

Trash=cost  
Recycling=free



# PSU WASTE MANAGEMENT 2013 OPERATION OVERVIEW:

## Trash to Treasure Sale (to date)

- 790 tons diverted
- \$600,000 donated to United Way



# PSU WASTE MANAGEMENT

## Future Initiatives

- Green Committees
- Green Paw Award
- Styrofoam capture
- “No can” do. Can you?
- Promote ReDi Index
- Runkle Hall Pilot
- County MRF Pilot
- Commodity Blending





# PSU WASTE MANAGEMENT

## 2013 Waste Stream Data

|                                     |             |
|-------------------------------------|-------------|
| ■ Total Waste                       | 14,204 tons |
| ■ Total waste recycled              | 8,480 tons  |
| ■ Recycled percentage               | 60%         |
| ■ Savings through tip fee reduction | \$660,200   |
| ■ Recycled potential                | 89%         |
| ■ Potential Savings                 | \$185,000   |

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# PSU WASTE MANAGEMENT

## 2013 Waste Stream Data

- Largest stream – PSU organics
- Second largest stream paper

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# PSU WASTE MANAGEMENT

## 2013 Waste Stream Data

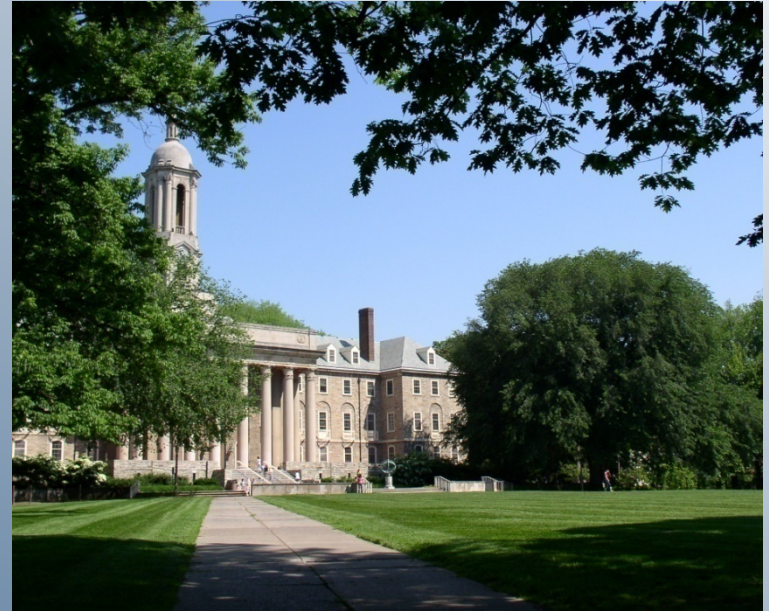
|                            |            |
|----------------------------|------------|
| ■ Mixed paper recycled     | 886 tons   |
| ■ Cardboard                | 720 tons   |
| ■ Food waste composted     | 1,403 tons |
| ■ Cans recycled            | 57 tons    |
| ■ Glass recycled           | 96 tons    |
| ■ Plastic bottles recycled | 251 tons   |
| ■ Computers recycled       | 409 tons   |



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# Questions ?

# Comments



# Thank You!

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**Labor – Equipment – Solid Waste**