

### MassDEP Waste Ban History

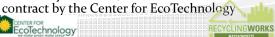
- Solid Waste Master Plan
  - Reduce waste disposal and greenhouse gas emissions
- Introduced MassDEP Waste Ban Regulations in 1990
  - Easy to recycle or toxic items are banned from disposal as trash
  - 310 CMR 19.017 Waste Ban Regulations
    - Cardboard and Paper
    - Glass, Metal and Plastic Containers
    - Scrap Metal, Major Appliances
    - Tires, Lead Acid Batteries
    - Cathode Ray Tubes (old style TV's and Computer Monitors)
    - Leaves & Yard Waste
    - Clean Gypsum Wall Board

    - Wood, Asphalt Pavement, Brick and Concrete
      Commercial Food Waste \* New as of October 1, 2014



# RecyclingWorks in Massachusetts

- Helps businesses and institutions
  - Comply with MassDEP Waste Bans includes commercial food waste!
  - Minimize waste through reduction, donation and diversion.
  - Save money
  - Improve Customer/Employee satisfaction
- Funded by MassDEP, delivered under



# RecyclingWorks in Massachusetts

### Services include:

- Online Resources
- Email and Phone Hotline
- Technical Assistance
- Events and Workshops
- WasteWise Program Administration

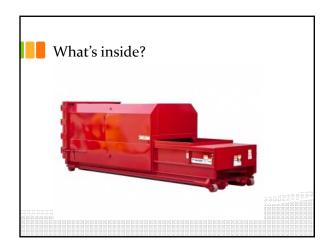




# Our Approach

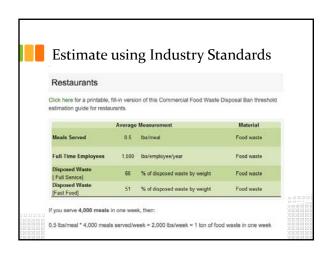
- Meet customer where they are
- Determine goals
- Present a range of options

















# BMP Background Best Management Practices based on

- - $Two\ meetings\ with\ local\ health\ officials\ (Springfield,$ Worcester)
  - Survey sent to over 100 public health professionals
  - MassDEP meeting and participant review
- BMPs Provide:
  - General consensus for acceptable handling, storage and hauling of food waste







# Kitchen Separation

• Source separation of food waste starts in kitchens and dish rooms.





# Back of the House: Collection Process

- Food waste should be collected in dedicated receptacles
  - Containers should be leak proof, located at the points of generation, clearly designated & covered when not in use.





# Back of the House: Containers • Convenient locations • Right sized









### **Hauler Collection Practices**



- Collection frequency based on
  - Hauler routes
  - Truck capabilities
  - Collection container types
  - Site specific generation rate



### **Outdoor Storage Practices**

- Containers should be closable, leak-free, water tight & secure
- All doors/hatches should be closed when not in immediate use
- The storage area should be clearly marked, easily cleanable & if necessary enclosed by fencing







### Case Study:

The Lenox Hotel in Boston, MA

- Worked with RecyclingWorks to set up an off-site composting program
- Rolled program out in all 3 hotel restaurants
- Diverted 550 pounds of food waste in the first 2 days of operation
- Improved performance leading to measurable cost savings





### Food Donation

- Perishable and Non Perishable
- · Fresh or Prepared
- · Packaged or Not Packaged
- Must follow food safety guidelines-
- http://www.recyclingworksma.com/donate/
  - Harvard Food Law and Policy Clinic Fact Sheets
  - Liability-Bill Emerson Good Samaritan Act
  - Tax Implications- recently updated
  - Date Labeling

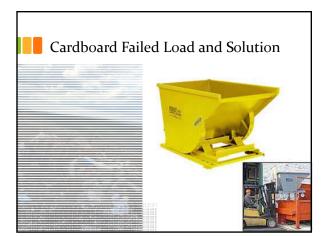
# Food Donation BMP

- · Similar stakeholder input process
- Gathered consensus on guidelines for what can be donated, how to prepare and how to transport to preserve food safety
  - MassDEP, US EPA
  - Health Departments
  - Food Banks and Rescue Agencies
  - Generators
- Harvard Food Law and Policy Clinic-legal fact sheets on liability, date labeling and tax incentives



### Food Donation

- Networking Organizations
  - Food Donation Connection http://www.foodtodonate.com/
  - Spoiler Alert <a href="http://foodspoileralert.com/">http://foodspoileralert.com/</a>
- Food Rescue Organizations
- Food Banks
- Receiving Facility http://www.findafoodpantry.org/

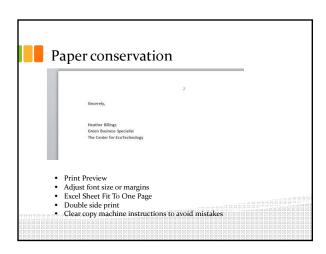
















### The Furniture Trust- Boston

- Connects used office furnishings with local schools, nonprofits and community organizations.
- Eco-Carpentry Challenge for schools



http://www.thefurnituretrust.org/



### The Wish Project-Lowell

- Providing apartment furnishings to help families out of homelessness including beds, couches, curtains, dishes and clothing.







### Textile Reuse-Office Cube Refurbisher

- Secondary Materials and Recycled Textiles (SMART) association helped connect with a market as wiping rags.
- Volume
- Fabric type
- Clean and dry



http://www.smartasn.org/

# Electronics

- Secondary Market Resale or Donation
- Christina Foundation- database from PA <u>https://www.cristina.org/non-profit-locator/</u>
- Next Step Recycling- Retail example in Oregon <a href="http://nextsteprecycling.org/">http://nextsteprecycling.org/</a>
- Electronics Reuse Conference <u>http://www.ereuseconference.com/</u>

### U Mass Amherst and Westfield State

U Mass Amherst

- Composting
- Reduction with trayless dining & smaller plates
- Then LeanPath



Westfield State

- LeanPath
- Composting

### America's Food Basket/CERO

- Worked with RecyclingWorks to set up a food waste separation program for composting
- · Great hauler/generator relationship





### Gardner Ale House

 Worked with RecyclingWorks to set up a food waste separation program for animal feed





Data collection-reporting-recognition  Waste Prevention	
Click on the appropriate button for worksheet instructions and more information on how to calculate quantity disposed, equantity prevented, avoided disposal costs, avoided [50,5000] Prevented	
purchasing costs, or revenue from waste prevention.  Avoided Dipposal Avoided Dipposal Purchasing Costs  Riveruse From Winte Prevention	
Waste Material  Waste Disposed  Muncipal Solid Waste (MSW)  Quantity disposed (lbs)  Waste Disposed	
Materials Prevented Recycled  Paper (type unknown)*  Avoided disposal costs (5)  Avoided purchasing costs (5)	
http://www.recyclingworksma.com/wastewise/	
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Zero Waste Certification	
2010 Waste Continuation	
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Resource Conservation Resources	
• http://www.calrecycle.ca.gov/ReduceWaste/Business/	
• http://www.recyclingworksma.com/resourc es-2/	



### Additional Information

Visit us at www.recyclingworksma.com

RecyclingWorks Hotline

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