

Sustainable Materials Management (SMM) Web Academy Webinar:  
Innovative Collaborations in the Hospitality Sector to Increase Food Recovery

# Food Scrap Diversion Hospitality

February 25, 2016



we make green make sense<sup>SM</sup>

Lorenzo Macaluso-Director of Green Business Services

The Center for EcoTechnology helps  
people and businesses in New England  
save energy and reduce waste.



we make green make sense<sup>SM</sup>

# Recycling Works in Massachusetts

Funded by MassDEP



MassDEP



# RecyclingWorks in Massachusetts

- Services include:
  - Online Resources
  - Email and Phone Hotline
  - Technical Assistance
  - Events and Workshops
  - C&U Program Administration



Sustainable Materials Management

# Food Recovery Challenge



CHANGING HOW WE THINK ABOUT OUR RESOURCES FOR A BETTER TOMORROW

- WasteWise Program Administration – and Food Recovery Challenge



Preserving Resources,  
Preventing Waste

<http://www.recyclingworksma.com/wastewise/>



# BMPS for Source Separation



**RECYCLINGWORKS MASSACHUSETTS**

info@recyclingworksma.com  
CALL OUR HOTLINE: (888)254-5525

Recycling Assistance for Businesses & Institutions

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## Local Health Department Guidance for Commercial Food Waste Separation

The RecyclingWorks in Massachusetts program has worked with local health officials to develop recommended Best Management Practices (BMPs) for use by health agents to support and inform local oversight of commercial food waste collection programs. The commercial organics waste disposal ban affects any business or institution that disposes of one ton or more of food waste per week, effective October 1, 2014. These BMPs are also intended to serve as a resource to businesses and institutions and their haulers. This is not regulatory language and these practices may need to be modified to fit varying site specific conditions. The RecyclingWorks program will consider revising the BMPs in the future as needed. Any suggestions should be sent to [info@recyclingworksma.com](mailto:info@recyclingworksma.com).

Two meetings with local health officials were held; Springfield (February 28th, 2013) and Worcester (March 28th, 2013). A survey was then sent in April to over 100 public health professionals, yielding 17 responses. RecyclingWorks presented an early draft to the MassDEP Organics Subcommittee meeting held on June 10. In addition, a draft document was shared with representatives of all of the major public health organizations in Massachusetts, who were given a chance to provide comments. This BMP document is based on the results of this process.

**Kitchen Separation**

**UPCOMING EVENTS**

- EPA Webinar: Innovative Collaborations in the Hospitality Sector to Increase Food Recovery  
02 / 25 / 2016
- RecyclingWorks Compost Workshop  
03 / 15 / 2016  
Worcester
- MassRecycle 2016 R3 Recycling & Organics Conference  
03 / 29 / 2016  
Quincy

**Find a Recycler**

Use our [Recycler Database](#) to find a Processor or a Hauler for the materials you need recycled.

Search by material, zip code or key word

<http://www.recyclingworksma.com/local-health-department-guidance-for-commercial-food-waste-separation/>



# BMPS for Food Donation



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## Food Donation Guidance for Massachusetts Businesses

The RecyclingWorks in Massachusetts program has worked with state and local health officials, food rescue organizations, food banks, and organizations with established food donation programs to develop this Food Donation guidance document by holding three stakeholder meetings across the state in Springfield (March 25, 2015), Worcester (April 9, 2015) and Boston (April 29, 2015). The information gained from the meetings was used to create this guidance document.

The US EPA's Food Recovery Hierarchy ranks feeding hungry people near the top of its priorities as a strategy to reduce wasted food. Businesses should consider how each strategy on the EPA Hierarchy can contribute to a comprehensive food waste reduction plan.

This document is intended to provide guidance to organizations interested in establishing Food Donation programs by offering a broad overview of how successful food donation programs should be structured. In order to have a successful food donation program there are four major steps that must be taken:

1. Identify the types and amounts of food to be donated
2. Identify partner organizations in your area with which to work
3. Determine packaging, storage, and labeling requirements to ensure food safety



**Food Recovery Hierarchy**  
www.epa.gov/foodrecoverychallenge

- Source Reduction**  
Reduce the volume of landfill food generated
- Feed Hungry People**  
Donate extra food to food banks, soup kitchens and shelters
- Food Animals**  
Divert food scraps to animal feed
- Industrial Uses**  
Process waste into bio-energy and fuel, methane and food scraps for hydrogen to generate energy
- Composting**  
Create a nutrient rich soil amendment
- Landfill/Incineration**  
Last resort disposal

### UPCOMING EVENTS

- MassRecycle's 25th Anniversary Celebration  
10 / 14 / 2015  
Cambridge
- BioCycle Refor15  
10 / 19 / 2015  
Danvers
- Food Day  
10 / 23 / 2015  
Boston
- SWANA Southern New England Recycling & Solid Waste Conference  
11 / 4 / 2015  
Foxborough
- NERC Fall Forum: Glass Recycling - Exploring Possible Solutions  
11 / 9 / 2015  
Providence

### Find a Recycler



Use our [Recycler Database](#) to find a Processor or a Hauler for the materials you need recycled.





# Estimating Food Waste

HOME FIND A RECYCLER FOOD WASTE LEARN MORE HOW TO WASTEWISE NEWS/EVENTS ABOUT

## How to Estimate Food Waste from Commercial Organics

### A Guide for Businesses and Institutions

Massachusetts' Commercial Organics Waste Ban, effective July 1, 2014, will require all businesses and institutions disposing of organic material to divert that organic material from disposal. If you have any questions about the ban itself, please contact us.

### So, how can you tell if your business is complying?

The most accurate ways to estimate food waste are through daily tracking programs and composting. However, these may require contracting or purchasing specialized equipment. There are a number of simpler methods to estimate your food waste.

If you need assistance at any point, please call the RecyclingWorks hotline at (888) 254-5525 or [info@recyclingworksma.com](mailto:info@recyclingworksma.com).

COMPLY WITH THE ORGANICS WASTE BAN

ESTIMATE YOUR FOOD WASTE

REDUCE YOUR FOOD WASTE

DONATE FOOD

HEALTH DEPARTMENT GUIDANCE

## the Ban

### Massachusetts

Massachusetts' Commercial Organics Waste Ban, effective July 1, 2014, will require all businesses and institutions disposing of organic material per week to divert that organic material from disposal. If you have any questions about the ban itself, please contact us.

### How much organic waste per week?

The most accurate ways to estimate food waste are through daily tracking programs and composting. However, these can take time and may require contracting or purchasing specialized equipment. There are a number of simpler methods to estimate your food waste.

## UPCOMING EVENTS

Webinar: Composting is a Team Sport - Greening Stadiums and Arenas

09 / 17 / 2014

R3 Webinar - Diversion Options for Mattresses

09 / 25 / 2014

Students For Zero Waste Summit

10 / 3 / 2014

Durham

SWANA Recycling and Solid Waste Conference

10 / 7 / 2014

Barnstable

## Find a Recycler



Use our [Recycler Database](#) to find a Processor or a Hauler for the materials you need recycled.

Search by material, zip code or key word to get a full list of Recyclers.

### What is Commercial Organic Material as defined by the waste ban?

#### Food Material

Includes but is not limited to: fruits, vegetables, grains, fish, and animal products and byproducts.

#### Vegetative Material <sup>1</sup>

Plant material

### General Conversions

1 ton = 2,000 lbs

Commercial-industrial waste

1 yd<sup>3</sup> (cubic yard) = 300 to 600 lbs

Food scraps

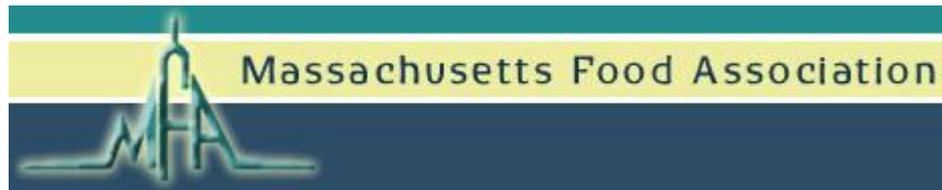
55 gallons = 200 to 450 lbs

Based on EPA's standard volume-to-weight conversions.

# Collaboration

THE CHAMBER  
Northampton

- Chambers of Commerce
- Business Improvement Districts
- Associations
- Local Health Departments



# Peers as Leverage

- Neighbors talking
- Value of Written and Video Case Studies




Call our Hotline  
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www.recyclingworksma.com

**At a Glance:**

- Genzyme's Framingham location began a food waste diversion program in August, 2012.
- 6,620 pounds of food waste was diverted from landfills in the first year of the program.
- Consolidated collection and external storage

**Corporate Food Waste Composting Case Study**  
Genzyme, a Sanofi Company  
Framingham, Massachusetts

*Summary:* Genzyme, a Sanofi Company, has been pioneering treatments for rare diseases since 1981. With nearly 10,000 employees worldwide distributing seven major marketed products, minimizing their environmental footprint is one of Genzyme's corporate goals. Steps being enacted to meet these goals include sending zero materials to landfill disposal and diverting 50% of their non-hazardous wastes, such as paper, cardboard, metal, plastics, wood, and organics for recycling and composting. Of the five campuses in Massachusetts, the three with cafeterias have compost programs in place or planned for future implementation.

**Diversion Program:** Genzyme's Cambridge, Massachusetts headquarters began diverting food waste in 2007, with a total of 26,720 pounds composted to date. Their Framingham location began an organics diversion program in August of 2012. This campus consists of 14 buildings, including 3 full service cafeterias all within ¼ of a mile of each other. Daily food preparation consists



## MA Restaurant Association

- Outreach and Collaboration
- December 2015 Newsletter
- Technical Assistance:
  - Restaurant requesting assistance



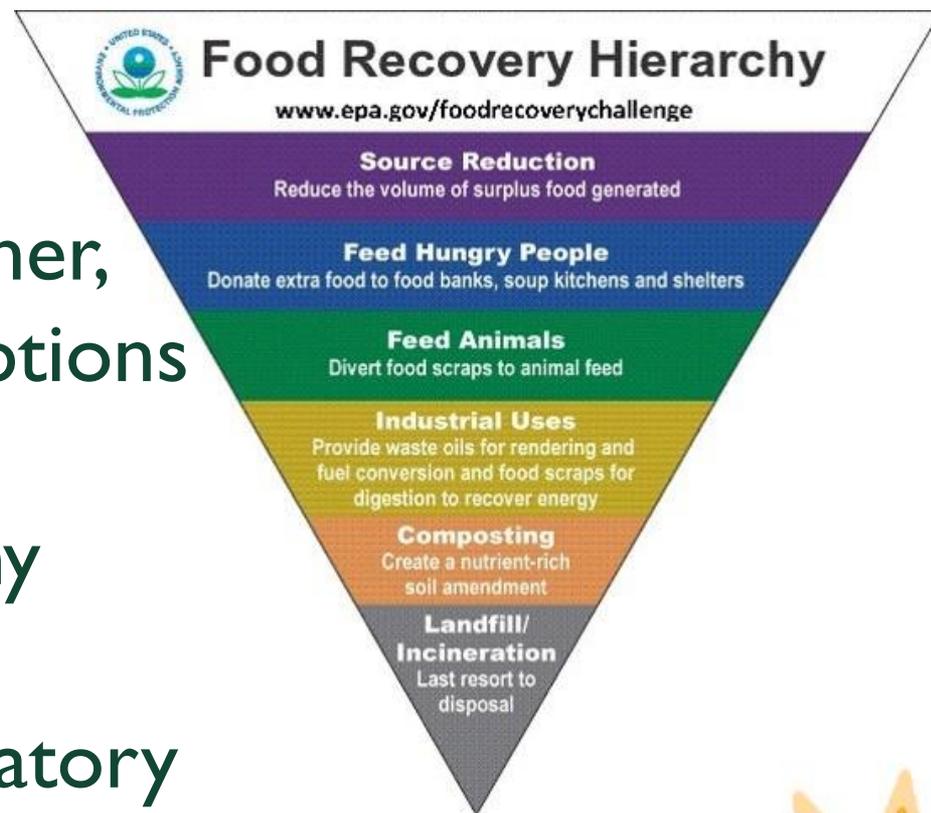
# Approach

- Meet the businesses where they are
- Not their core business
- Current provider 1<sup>st</sup>
- Engage decision makers
- Provide pros + cons



# Value of 3<sup>rd</sup> Party Facilitator

- How to not pick a winner, present the range of options
- Applies across hierarchy
- De-coupled from regulatory
- No “horse in the race”



# Town of Lenox

- Aggregation:  
Voluntary  
organics  
diversion
- Town  
Environmental  
Committee/  
Chamber



# Phased Approach

- Focus on generators where you have traction
- Don't spin your wheels on trying to get EVERY generator



## Town of Lenox

- Worked with RecyclingWorks to set up a food waste separation program
- Sending food waste for composting



# The Lenox Hotel in Boston, MA

- Worked with RecyclingWorks to set up 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



# Gardner Ale House in Gardner, MA

- Outreach through business association
- Using pig farm



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