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# FREE ASSISTANCE FOR BUSINESSES & INSTITUTIONS

RecyclingWorks MA is funded by Massachusetts Department of Environmental Protection (MassDEP), delivered under contract by the Center for EcoTechnology



recyclingworksma.com







	Average Measurement	
Meals Served [Full-Service]	1	lbs/meal
Meals Served [Limited-Service]	0.5	lbs/meal
Employees [Full-Service]	3,000	lbs/employee/year
Employees [Limited-Service]	2,200	lbs/employee/year
Disposed Waste <sup>1</sup> [Full-Service]	66	% of disposed waste by weight
Disposed Waste <sup>1</sup> [Limited-Service]	51	% of disposed waste by weight



## **Estimating Food Waste Generation**

recyclingworksma.com/food-waste-estimation-guide



## **No-Cost Technical Assistance**

Evaluate existing waste streams

Identify opportunities to prevent, recover, and divert waste

Employees education and training

Customized waste bin signage

Cost analysis for starting or expanding a waste diversion program

Connect with waste haulers and processors

Implementation assistance



recyclingworksma.com/how-to/recyclingworks-technical-assistance/

## **Updated Website Resources**

### **For Property Managers**

#### Collecting Mattresses and Textiles for Reuse and Recycling

On November 1 2022, the MassDEP added textiles and mattresses to the list of materials that are banned from disposal. Most textile material, including apparel, linens, and other fabrics, and mattress components, such as wood, scrap metal, and foam can be recovered for reuse, repurposing, or recycling. Contact RecyclingWorks for a customized list of reuse organizations, recyclers, and haulers in your area.

Textiles – It is important to collect and recover textiles separately, as they do not belong in recycling containers of any kind and can cause equipment damage and worker safety challenges at recycling facilities. For residential properties, consider facilitating monthly or seasonal donation collection pick-ups with a **local organization**. Some commercial tenants, such as clothing retailers, may also generate textiles. If your property includes multiple businesses that generate textiles, consider siting one or more collection containers for shared use.

**Mattresses** (including foundations or box springs) – There is a growing infrastructure for recycling in Massachusetts, and many **mattress recyclers offer pick-up services**. Consid closed or covered container, particularly if there is a season when your property has a lar<sub>1</sub> number of move-outs. Many Massachusetts municipalities offer **mattress recycling prog** including drop-off options that residents of multifamily properties can access. These prog typically do not provide pick-up options for private multifamily properties.

#### recyclingworksma.com/how-to/business-sectorguidance/property-managers/



### **Food Waste Estimation Guide**

**General Conversions** 

**Commercial-industrial waste** 

 $1 \text{ yd}^3$  (cubic yard) = 250 to 300 lbs

Food scraps

55 gallons = 200 to 450 lbs

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

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

> <u>Vegetative Material</u> <sup>1</sup> Plant material

<sup>1</sup> Leaf and yard waste is covered under a separate existing was

#### recyclingworksma.com/food-waste-estimation-guide/

### **C&D** Materials Guidance

This guidance is intended to provide guidelines for contractors, architects, and property owners interested in increasing C&D reuse and recycling. The scope of this guidance covers a range of types of projects and project scales. It covers deconstruction, demolition and renovation projects, the reuse of building materials and donation of usable materials, on-site source separation of C&D material, and mixed C&D recycling.



#### Massachusetts Waste Bans

In 1990, the Massachusetts Department of Environmental Protection (MassDEP) introduced its first bans on landfilling and combustion of easy-to-recycle and toxic materials. Additional **"waste bans**" een phased in over time. The following materials and items, which may be encountered in uction, demolition, or renovation projects, are prohibited from disposal and/or transfer for al in Massachusetts:

#### shalt pavement, brick & concrete (ABC)

rous & non-ferrous metal ated & untreated wood & wood waste (banned from landfills only) an gypsum wallboard yclable **paper, cardboard** & paperboard ite goods (large appliances)

#### recyclingworksma.com/constructiondemolition-materials-guidance/

## **New Business Spotlights**



Historic Legacy with a Bold Future: Spotlight on Bombyx Center for Arts and Equity's Sustainable Initiatives

#### Cassie Rogers 🛗 April 2, 2024

Located on Pine Street in the heart of Florence, Bombyx Center for Arts and Equity is a vibrant hub that enriches the community and carries on the building's legacy of activism through their performance venue. Also known as the Florence Congregational Church, the historic building operates two houses of worship, a performance art space, a daycare, and a preschool.



In alignment with their commitment to innovation and caring for the future, the Executive Director of Bombyx, Cassandra Holden, enlisted support from RecyclingWorks in Massachusetts (RecyclingWorks) to help implement a food scrap collection program. The Reform Synagogue, Beit Ahavah, also participated as a partner in establishing the waste program. The new program is poised to divert 2.5 tons of food waste annually.

The kitchen is used for both the building's own events and as a prep space for several food trucks. Because of all these activities, it is clear why Bombyx needs a strong and efficient waste



Reducing Waste One Dumpling at a Time: Mei Mei's Sustainability Initiatives

#### Cassie Rogers 🛗 May 15, 2024

Mei Mei Dumplings, located in South Boston, is setting a great example for sustainable business practices. Since opening their doors in 2012, Mei Mei has been dedicated to reducing waste and minimizing their environmental impact.



Mei Mei has always been passionate about diverting food scraps, and through a partnership with **CERO** they've implemented a comprehensive food scrap separation program. While they do use compostable materials in their front-of-house operations, Mei Mei focuses on training their back-ofhouse staff to prevent contamination, ensuring that their source separated kitchen

food scraps are a high-quality stream. With a conveniently placed food scraps bin in the kitchen at their new location and with thorough staff training, they've made it easy for their staff to do the right thing.

### recyclingworksma.com/blog/



#### Olivia 📋 August 10, 2023

A green demolition project at **Simmons University** in Boston recovered over a dozen tons (24,000 pounds) of material including furniture, fixtures, and glassware items.

This massive reuse undertaking emerged from the remodeling of the University's Park Science Center.



Advanced planning is key to the success of material reuse and deconstruction projects. The timeline that The Reuse Team has followed so far is shown below. This timeline can serve as a model for other institutions and businesses planning for similar projects.

The project entailed one year's worth of planning and coordination among Simmons University staff, Elkus Manfredi Architects (and their dedicated team of staff volunteers), the City of Boston, Skanska, The Carbon Leadership Forum of Boston – Reuse Group, and RecyclingWorks in Massachusetts (RecyclingWorks), making up "The Reuse Team".



## **Johnny's Luncheonette Case Study**



# and you can too!

### Educational signage for staff and customers

Collects 600-700 pounds of food scraps per week for composting

### Reduced nuisance conditions in trash area





#### **Restaurant Composting Case Study** Johnny's Luncheonette

A diner that has been adored by residents of Newton for 25 years, Johnny's Luncheonette offers breakfast, lunch, and dinner in a bright atmosphere with retro decor. When the current owners, Kay and Kevin Masterson, took over in 2014, they expanded the restaurant's sustainability efforts and elevated its classic diner fare to include locally-sourced ingredients. Johnny's Luncheonette is fondly referred to as the "Anytime Place for Everyone", representing the establishment's commitment to its diverse community partnerships. Along with supporting nearby farms through their intentional procurement, the diner works with local organizations to develop children's placemats that feature activities to increase consumer knowledge of sustainability, local history, and food systems, all of which encourage diners to think about how food arrives on their plate and where their leftovers end up. Johnny's thoughtful approach to their menu-which includes all-day breakfast, locally-caught white fish, nostalgic matzoh ball soup, and other treats-is not limited to their preparation and ingredients, but also encompasses responsible waste management.

#### At A Glance

- Johnny's Luncheonette is a charming diner in Newton with a robust recycling system and a food scrap collection program for composting.
- The diner's creative children's placemats and patio signage offer guests the chance to engage with information related to local sustainability.
- The diner collects 600-700 pounds of food scraps per week, which are composted by Black Earth Compost. Thanks to this partnership, food waste is recovered for its nutrients instead of discarded.
- Since implementing their new food scrap diversion program, Johnny's Luncheonette has showcased their composting efforts to customers and provided a positive example for their business neighbors. Johnny's is determined to minimize their environmental impact and works with local stakeholders in their efforts to do so.

#### info@recyclingworksma.com | recyclingworksma.com | (888) 254-5525

contract by the Center for EcoTechnology that helps businesses and institutions reduce waste and maximize recycling, reuse, and food recovery opportunities

## Outreach and Program Awareness

7,516 Monthly newsletter subscribers16 Blog posts

33 Events reaching over 1,117 people

1,298 Followers on Facebook and Twitter (X)

Chambers of Commerce, Industry Associations, Business Organizations



### RecyclingWorks Newsletter | August 2023

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#### Seeking participants for reusable takeout container stakeholder meetings!

On behalf of the Massachusetts Department of Environmental Protection (MassDEP) and the Massachusetts Department of Public Health (DPH), RecyclingWorks is coordinating a series of meetings that will inform the development of guidance on how restaurants, colleges and universities, and other food service entities can transition away from single-use foodware containers to reusable containers.

# Website Data

### In FY24, there have been 234,855 visits to the RW website. Most visited pages during FY24:

- 1. Recyclers Search Results: 32,468 views
- 2. Recycling Assistance for Businesses & Institutions (homepage): 31,156 views
- 3. Recycling Mattresses: 9,957 views
- 4. Recycling Textiles: 6,726 views
- 5. Construction Materials: 5,731 views
- 6. About the Find-A-Recycler-Tool: 5,631 views
- 7. Food Waste Estimation Guide: 3,701 views
- 8. Recycle Electronics: 3,685 views
- 9. Recycle Pallets: 3,555 views
- 10. About RecyclingWorks: 3,521 views



# Best Management Practices for Reusables in Food Service Update

#### SOURCE REDUCTION OF FOOD WASTE GUIDANCE

SEPA Foo

The US EPA's Food Recovery Hierarchy ranks source reduction at 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. While this guidance focused on preventing food waste, other RecyclingWorks guidance addresses food donation and source separation of food material for composting, anaerobic digestion or animal feed.

Why should my business reduce food waste? Waste Tracking Meal Planning Food Purchasing and Procurement Reduction Strategies Back of House

1	24 1 1 2 4
	Find A Recycler
Recovery Hierarchy	Choose A Material
Henry Personne Henry Personne at Lanna, son Millions aut Kotten And Antoniala	Any Material
of anyon to privat head Anatheniad Selama and also be remaining and and also remaining and any to remain and head	A CONTRACTOR OF STREET, STREET
Land	Location
	Enter location
	50 mi
	Pick Up/Drop Off
	Pick Up/Drop Off
	Keyword

#### FOOD DONATION GUIDANCE

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





#### SOURCE SEPARATION GUIDANCE

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. Effective November 1, 2022, the MassDEP is lowering the threshold for the commercial organics ban so that it applies to businesses and institutions generating one-half ton or more food waste per week. 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**.

#### Kitchen Separation

Recommended practices for source separation, starting in the kitchen

Find A Recycler		
Choose A Material		
Any Material	~	
Location		
Enter location	©	
50 mi	~	
Pick Up/Drop Off		
Pick Up/Drop Off	~	
Keyword		
OR, try a keyword or biz name	Q	

### recyclingworksma.com/source-reduction-guidance/

### recyclingworksma.com/donate/

recyclingworksma.com/local-health-departmentguidance-for-commercial-food-waste-separation/

## **Process Overview & Goals**

• Developing recommended best management practices (BMPs) for use of reusable food service ware.

- For use by local health officials and food service businesses.
- Enable increased use of reusable service ware.

• Ensure food safety and consistency with Food Code.



## **Process Overview**

- First stakeholder meeting held October 12, 2023
- Second stakeholder meeting December 7, 2023
- RecyclingWorks conducted 12 1-on-1 meetings
- RecyclingWorks incorporated input from stakeholder meetings and 1-1's into outline and submitted to MassDEP and MassDPH for feedback
- MassDEP and MassDPH feedback and outstanding questions incorporated
- Developing into draft document to share with stakeholders for comment
- Publish and share revised BMPs
- Update in future, as needed

### Key Stakeholders Include:

State, Local and Regional Public Health Officials Restaurant Owners and Other Food Services Professionals Reusable Container/Service Providers Environmental Advocacy Organizations



## Three distinct scenarios have emerged

- 1. Establishment-provided containers for take-out
- 2. Consumer-provided beverage containers for take-out
- 3. Consumer-provided containers for bulk retail use







# Food Code, Guidance and other Inputs

Massachusetts Merged Food <u>Code</u> 105 CMR 590 adopted 11/16/18

**Guidance document for Safe Use of Reusable Containers** approved at national

2023 Biennial Conference for Food Protection Meeting

Other guidance, e.g. Reusable Container Quick Start Guidance from

Circular Philadelphia and Echo Systems

Variance examples

Local interpretation

## **Establishment-Provided Reusable Containers**

### Container selection

- National Sanitation Foundation food grade durable, designed for reuse, commercial dishwasher safe
- Filling methods
  - Employee fills reusable container behind the counter/back of house in food preparation area avoiding cross-contamination
  - Employee serving food for dine-in, providing consumer with the reusable container for leftovers
- Collecting returned containers
  - Monitored location away from food preparation areas
  - Containers are regularly collected for cleaning
- Washing and sanitizing
  - Same requirements and washing procedures as for other durable dishware/containers used on-site



### What we've heard so far...

# **Establishment-Provided Reusable Containers**

- Drying and Storage
  - $\,\circ\,$  Allow time and space for full air drying
  - $\,\circ\,$  Store inverted to avoid contamination
- Inspection
  - $\,\circ\,$  Visibly clean, not damaged
  - $\,\circ\,$  Process to remove container from circulation



Source: Recirclable

# **Consumer-Provided Beverage Containers**

- 105 CMR 590.003-304.17 Refilling Returnables
- Suitable Container/Inspection
- Size variation can affect pricing and recipe
- Does the cup cross the counter?







www.foodprotect.org/media/guide/cfp-guidance-documentsinglepages-final0623.pdf

## **Consumer-Provided Containers in Bulk Retail**



Suitable container



Determine tare weight and inspect



Specify customer filling practices

# **Next Steps**

- Today's slides will be shared by email.
- Opportunity to schedule 1-on-1 conversation with RecyclingWorks MA team.
- RecyclingWorks MA team will receive written feedback on draft.



Contact RecyclingWorks MA 888-254-5525 info@recyclingworksma.com heather.billings@cetonline.org