



Best Management Practices for Reusable Food and Beverage Containers in Food Establishments

**MHOA Conference
November 14, 2024**



CET

Resilient climate solutions



FREE ASSISTANCE FOR BUSINESSES & INSTITUTIONS

RecyclingWorks MA is funded by MassDEP, delivered under contract by CET

recyclingworksma.com

RecyclingWorks Resources to support

Food Establishment Inspection Report – City/Town of _____

Establishment: _____	Date: _____	Page 2 of _____
GOOD RETAIL PRACTICES AND MASSACHUSETTS-ONLY SECTIONS		
IN = in compliance OUT = out of compliance N/O = not observed N/A = not applicable COS = corrected on-site during inspection R = repeat violation		

Compliance Status		IN	OUT	N/A	N/O	COS	R
Safe Food and Water							
30	Pasteurized eggs used where required						
31	Water & ice from approved source						
32	Variance obtained for specialized processing methods						
Food Temperature Control							
33	Proper cooling methods used; adequate equipment for temperature control						
34	Plant food properly cooked for hot holding						
35	Approved thawing methods used						
36	Thermometers provided & accurate						
Food Identification							
37	Food properly labeled; original container						
Prevention of Food Contamination							
38	Insects, rodents, & animals not present						

Compliance Status		IN	OUT	N/A	N/O	COS	R
48	Warewashing facilities: installed, maintained, & used; test strips						
49	Non-food contact surfaces clean						
Physical Facilities							
50	Hot & cold water available; adequate pressure						
51	Plumbing installed; proper backflow devices						
52	Sewage & waste water properly disposed						
53	Toilet features: properly constructed, supplied, & cleaned						
54	Garbage & refuse properly disposed; facilities maintained						
55	Physical facilities installed, maintained, & clean						
56	Adequate lighting; designated areas used						
Additional Requirements listed in 105 CMR 590.011							
M4	Anti-choking procedures in food						

Massachusetts Waste Disposal Bans

Commercial Food Waste

Applies to businesses & institutions generating one-half (0.5) tons or more food waste per week

Textiles & Mattresses & Box Springs

Cardboard & Paper

Metal, Glass, and Plastic Containers

Construction & Demolition Materials

Yard Waste

White Goods

recyclingworksma.com/waste-bans-and-compliance/



One-half ton of food waste fills approximately four of these 64-gallon carts.

	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 ¹ [Full-Service]	66	% of disposed waste by weight
Disposed Waste ¹ [Limited-Service]	51	% of disposed waste by weight

Estimating Food Waste Generation

What Is Technical Assistance?

Evaluate existing waste streams

Identify opportunities to prevent, recover, and divert waste

Connect with service providers

Create customized waste bin signage

Conduct cost analysis

Implementation assistance – education

and training



Find-A-Recycler Tool

Recycling Assistance for Businesses & Institutions

Any Material Enter location Pick Up/Drop Off

OR, try a keyword or biz name

RecyclingWorks in Massachusetts is a recycling assistance program that helps businesses and institutions maximize recycling, reuse, and food waste diversion opportunities.

[LIST YOUR BUSINESS](#)

[ABOUT RECYCLINGWORKS](#)

[ABOUT THE FIND-A-RECYCLER TOOL](#)

Best Management Practice Guidance Developed by RecyclingWorks

Source Reduction
Guidance



<https://recyclingworksma.com/source-reduction-guidance/>

Food Donation Guidance



<https://recyclingworksma.com/donate/>

Source Separation
Guidance



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

Guidance for Businesses
Contracting for Trash,
Recycling, and Food Waste
Services



<https://recyclingworksma.com/hauler-contracting-bmp/>

A man with a beard and glasses, wearing a blue polo shirt and a red apron, is standing in a market. He is holding a clipboard and a pen, looking down at it. The background is filled with various fruits and vegetables, including tomatoes and bananas, in wooden crates. The lighting is bright and natural, suggesting an outdoor market environment.

Source Reduction Guidance

Cost savings

Waste tracking

Meal planning

Food purchasing and
Procurement

Storage

recyclingworksma.com/source-reduction-guidance/

Food Donation Guidance

Why should my business donate?

What foods can be donated?

Building a donation program

Finding partner food rescue organizations

Food transportation

recyclingworksma.com/donate/

Food Donation



Is there extra food that can be donated today?

DONATE

- Whole fruits & vegetables
- Fresh dairy; milk and cheeses
- Grains; rice, bread, pasta
- Non-perishables in original packaging
- Perishable foods in original packaging
- Prepared Foods



NO

- Moldy, rotten, spoiled food
- Items past expiration date
- Food not held at proper temperatures

Call _____ at _____ today
with questions or to schedule pickup!
Store food in fridge located _____
Label and keep temperature log every _____ minutes.

If you can't donate it - compost it!
Compost bins are located _____





Food Scraps Source Separation Guidance

Collect for composting, animal feed, or anaerobic digestion

Container placement and color coding

Clear signage

Easily accessible and available bins

Good housekeeping practices



recyclingworksma.com/source-separation-guidance

K-12 Schools



Reusable Trays

Dishwashers

Compost Site Technical Assistance

Assist commercial-scale sites with composting food scraps

Site layout and design

Operational best management practices

Pest and odor management

recyclingworksma.com/learn-more/compost-site-technical-assistance

Compost Site Operator Workshops

Opportunity for composters to tour a compost site and learn about best practices for composting food scraps

Reducing Waste from Restaurant Takeout and Delivery Meals



REDUCING WASTE FROM RESTAURANT TAKEOUT AND DELIVERY MEALS



Reducing your restaurant's single-use packaging can save money, reduce waste, and show commitment to sustainable practices. Prevent unnecessary waste and prioritize reusable materials to reap the most financial and environmental benefits.

Provide clear guidance to customers on what to do with the materials you give them. Remember that recyclables must be free of food and liquid residue.

TIPS FOR REDUCING UNNECESSARY WASTE

- Avoid single-use materials that cannot be recycled or composted.
- Require customers to request single-use utensils, napkins, straws, and condiment packets.
- Ask whether customers need a bag and avoid double-bagging.
- When possible, consolidate foods into the same container and do not individually wrap items.
- Take action to reduce wasted food! Click here to review our [food waste diversion](#) resources.

Tips for reducing unnecessary waste

Compostable and recyclable packaging options

Consider a reusable container program

**Consensus-Based Best Management
Practices for Reusable Food and
Beverage Containers in Food
Establishments**

Guidance Introduction

This guide provides best management practices for reusable takeout containers that align with the Massachusetts Food Code, aiming to help food service establishments in Massachusetts reduce waste from single-use disposables.

Reusable takeout container serviceware: durable containers, plates, bowls, and utensils used to hold food and/or beverages. Local health departments maintain the authority to interpret the Food Code as it applies to reusable serviceware.

Please note: Switching from single-use disposables to durable reusable containers **is not being mandated**. For establishments interested in making the switch, this guide offers best practices to consider



Who Should Use This Guide?

Resources in this guidance may also be helpful for:

- Food-serving establishments
- Health department officials
- Recycling coordinators
- Organizations and advocacy groups for reusables and/or waste prevention
- Industry associations for restaurants, colleges and universities, etc.
- Service providers for reusable serviceware and/or takeout container systems
- Vendors of reusable serviceware containers

Project Background

- RecyclingWorks held 3 stakeholder meetings (2023-2024) and 1-on-1 meetings to inform the outline
- Ensure food safety and consistency with MA Food Code
- Developed best management practice (BMP) recommendations for use of reusable food serviceware
 - Goal: Support increased use of reusable serviceware
 - Supports: Aligns with MassDEP's Solid Waste Master Plan & Reduce & Reuse Action Plan
- Previous BMP developed for composting food scraps and food donation

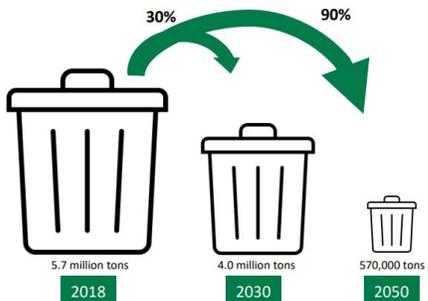


Figure 1 | Massachusetts Waste Reduction Goals established in the 2030 Solid Waste Master Plan

Key Stakeholders Include:

State, Local and Regional Public Health Officials

Restaurant Owners and Other Food
Services Professionals

Reusable Container/Service Providers

Environmental Advocacy Organizations



Why should my business switch to reusable takeout containers?

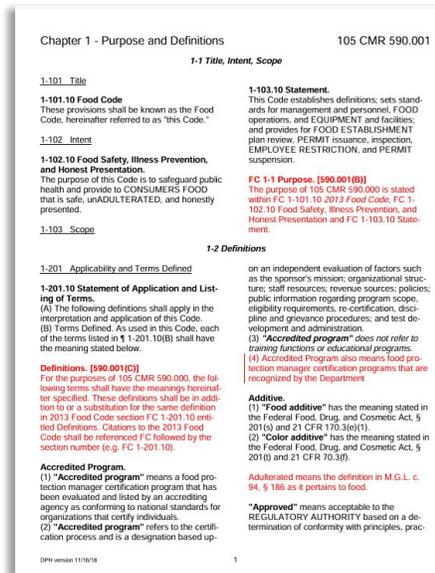
1. **Long-term Financial Savings:** After initial costs, switching to reusable containers can significantly reduce ongoing purchasing and disposal expenses.
2. **Encourage Customer Loyalty:** Providing reusable options may attract new and repeat consumers, as they may be more inclined to purchase again when returning their reusables.
3. **Marketing Opportunities:** Reuse supports community sustainability goals and appeals to eco-conscious customers.
4. **Environmental Benefits:** Switching to reusables reduces waste, conserves resources, saves water and mitigates greenhouse gas emissions created in with single-use items.

A Note on the Food Code; Health and Safety

The Massachusetts Food Code and local Health Departments are the best resources on ensuring reusable containers are being offered and utilized in accordance with public health standards. Since food establishments are **locally** permitted and inspected, please check with your local health department for any specific requirements.

For Food Code questions, contact Mark Carleo, Senior Food Safety Trainer, MassDPH, at mark.l.carleo@mass.gov.

In general, entities that are in the business of preparing and serving food to the public are *already* practicing the measures necessary to adopt the safe use of reusable food containers.



Three distinct scenarios emerged:

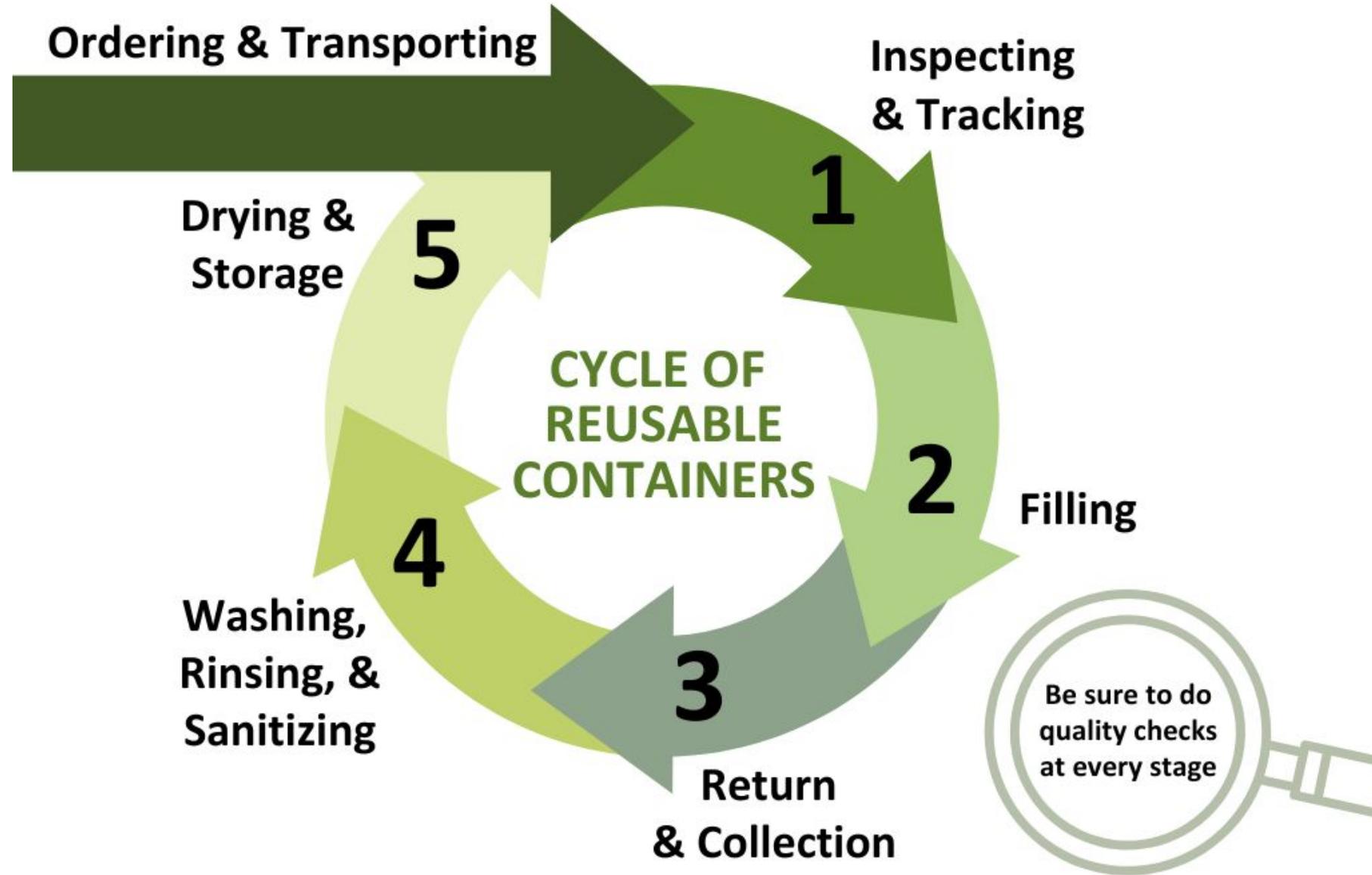
- Establishment provided containers for takeout and leftovers
- Beverage containers - consumer provided containers for take out
- Retail and Bulk use - consumer provided containers



Establishment-Provided Reusable Containers



Cycle of Establishment Provided Reusable Containers



Food & Beverage Containers in Food Service: Container Selection

Defined as: Any durable bowl, plate, box, container or cup provided by the establishment for consumer use (on and off-site).

Health & Safety: Containers must be designed and constructed for reuse and in accordance with the requirements specified in the Massachusetts Food Code (if a product is NSF-certified, it is compliant with the Massachusetts Food Code). For more in-depth evaluation, The Center for Environmental Health (CEH) and Clean Production Action (CPA) have created GreenScreen Certified® for Reusable Food Packaging, Service Ware, & Cookware

The reusable container must be:

- Durable, corrosion-resistant, and non-absorbent;
- Sufficient in weight and thickness to withstand repeated washing and sanitizing;
- Finished to have a smooth, easily cleanable surface; and
- Resistant to pitting, chipping, crazing, scratching, scoring, distortion, and decomposition.

Consider intricacy of container structure and how that will affect the washing and sanitation process.

Food & Beverage Containers in Food Service: Receiving Shipments

Receiving and storing reusables should follow the same guidelines as for storing equipment and utensils. The container holding the reusables needs to be clean and stored in a manner to prevent contamination.

Reusable serviceware must be stored 6" off the ground, covered or inverted, and not exposed to splash, dust, or pests.

When receiving a shipment of new reusables, follow similar protocol to receiving other materials, with staff to appropriately unload, inspect, and move the reusables to the storage area.



Food & Beverage Containers in Food Service: Inspecting, Tracking & Decommissioning/Retiring

All reusable containers should be visually inspected by an employee to verify that the container meets the requirements specified in the Massachusetts Food Code.

After they are washed, rinsed, and sanitized, check for food residue, remaining debris, or physical damage, as one would any washed durable good, at every phase of the reusable container cycle, and containers identified for removal should be removed immediately.

Visual signs to take a container out of circulation may include:

Cracks

Dented beyond use

Heavy scratches

Lid (if applicable) doesn't fit securely

QR code damaged, if applicable

Food & Beverage Containers in Food Service: Filling

Reusable takeout containers should be filled in the same prep area and with the same methods as in-house food: **avoid cross-contamination and consider allergens when filling and handling** the containers.

If applicable, ensure the lid is closed securely after filling.



Food & Beverage Containers in Food Service: Container Return and Collection

Restaurants should determine a clear and convenient front-of-house collection method for consumers to efficiently drop off used containers. Maintain a collection schedule to prevent unsanitary conditions; this may occur at the same time as other bus buckets are emptied. Clearly communicate (or display) standards for the condition in which consumers should return the container. Clean and sanitize non-food contact collection bin (e.g. bus bucket) as necessary.

Institutions should establish distinct and easily identifiable collection receptacles and signage for returning reusable containers. Return receptacles may contain washable collection tote(s) inside to be removed and emptied as necessary. For convenience, consider placing the container return near the tray return.

Food & Beverage Containers in Food Service: Washing, Rinsing, & Sanitizing

Scrape and rinse any food residue from containers returned by consumers before washing and sanitizing. If needed, identify an off-site location for warewashing (see also: [Island Eats: Standard Operating Procedure for Washing & Transportation](#))

FDA Washing Guidelines for mechanical washing:

- Must automatically dispense detergent and sanitizer
- Minimum wash tank temps:
 - § 150°F - 165°F (high temp sanitization)
 - § 120°F (chemical sanitization)
 - § 180°F Minimum final rinse temp (high temp sanitization)

FDA Washing Guidelines for manual washing:

- Use a triple basin. One sink each for:
 - Washing (detergent required) at 110°F minimum
 - Rinsing
 - Sanitizing
 - Fully submerge ware in chemical sanitizer sink
 - manufacturer-specified amount of time. Time may also be dependent on the type of chemical agent used.

Food & Beverage Containers in Food Service: Air Drying & Storage

After washing and sanitizing, **air dry all reusable containers** and ensure complete drainage and drying

Considerations for ensuring proper air drying

Consider the intricacy of container structure (e.g. gaskets, grooves etc.) that may complicate drying. Adjust drying methods accordingly to compensate for intricate structures (e.g., allow more dry time; remove parts to dry separately). **Serviceware cannot be towel dried** under the Food Code. Use special trays with partitions and racks to enhance drying efficiency.

Considerations for storage

Standards for storing reusables are the same as in-house dining plates and other serviceware. Reusables may be kept in areas previously used to store single-use containers. Store dry reusables inverted or covered in National Sanitation Foundation (NSF)-certified racks or bins to prevent contamination.

Examples of Businesses with Successful Programs



Blog Post

Grainmaker Reduces Waste with Reusable Takeout Containers

Kat McCarthy | October 22, 2020

During the pandemic takeout meals have become the norm, enabling restaurants across Massachusetts to continue serving customers when in-person dining is limited. For consumers, this convenience comes with a trade-off: an abundance of packaging and single-use items that often cannot be recycled. For the food service industry, this means spending money to purchase items that often cannot be recycled, and leaving customers with extra packaging waste.

Grainmaker, a fast-casual restaurant with locations in Boston and Somerville, has embraced its values of strengthening the community and being a positive influence by creating a program to reduce packaging waste from to-go orders. After less than a year of implementation, this program is already reducing waste and saving the business and customers money. RecyclingWorks in Massachusetts (RecyclingWorks) recently spoke with Grainmaker owner Chris Freeman to learn more about their Zero Waste Project.



[Grainmaker Blog](#)



Blog Post

Johnny's Luncheonette Implements a Reusable Takeout Container Program

Olivia | September 29, 2023



Johnny's Luncheonette, an iconic Newton diner with robust recycling and food waste diversion programs, continues to push the envelope in sustainability.

The diner now offers a reusable takeout container program! Customers who choose to join the program can order menu items for takeout in containers that won't end up in any waste, recycling, or composting bins, but rather be returned, thoroughly sanitized, and re-used in a continuous cycle.

Through a collaboration with **Recircable**, Johnny's Luncheonette now provides a selection of its breakfast and lunch menu items in easily recognizable green-hued

reusable to-go containers. The containers are manufactured by Preserve and Ozzi, and are composed of readily available and recyclable BPA-free polypropylene (#5 Plastic). These containers can be used up to 1,000 times, and at their end-of-life, Preserve and Ozzi take the containers back to have them recycled. As evidenced, this initiative is helping to reduce both the disposal and purchasing of single-use takeout items.

[Johnny's Luncheonette Blog](#)



Blog Post

Returnable Takeout Packaging: A Step Toward Zero Waste

Olivia | November 28, 2022

The dining halls and eateries at colleges and universities are ripe with waste prevention opportunity. Transitioning away from single-use takeout containers is one way institutions can significantly reduce their waste and carbon footprints.

This year, **Mount Holyoke College swapped out its single-use food containers and cups for returnables**. The college accomplished this by partnering with **USEFULL**, a company that customizes durable stainless steel foodservice containers that are made to be used, returned, washed, and reused.



In an average year, Mount Holyoke was using around 250,800 compostable containers. Their switch to returnable packaging is projected to prevent 5,488 pounds of single-use material from entering the waste stream each year.

Here is the impact of Mount Holyoke's transition to USEFULL containers since they implemented the program in February 2022:

[Mount Holyoke Blog](#)

Consumer-Provided Reusable Containers



Beverage Containers in Food Service: Container Considerations

Consumer provided reusable beverage containers are referenced in the Massachusetts Food Code. The Conference for Food Protection developed the “Guidance Document for the Safe Use of Reusables” to ensure safe consumption and suitability for reusable beverage containers.

Consumers can use insulated containers to store hot beverages. Containers intended for cold beverages should not be used for hot beverages.

Beverage Containers in Food Service: Filling & Rinsing

The beverage container may be filled by an employee or the consumer as long as it follows a contamination-free filling process as specified in the Massachusetts Food Code.

Ensure consumer-provided beverage container does not come into contact with back-of-house prep space.

It is not necessary to rinse a consumer's beverage container if it passes visual inspection by an establishment employee. Establishments may choose to rinse beverage containers that do not pass visual inspection if containers can be rinsed with "fresh, hot water that is under pressure and not recirculated are provided as part of the dispensing system"

Consumer-Provided Food Containers

Consumers may transfer their freshly prepared meals or in-house dining leftovers from the establishment's dishware into personal containers at their dining table, **as long as the consumer-owned container remains within the consumer area and has not been taken into the back of the house** (behind the counter, into the kitchen, etc.).



Reusable Containers for Bulk Retail



Reusable bulk food containers

Containers should be:

- Suitable for the intended use
- Durable, corrosion-resistant, and nonabsorbent;
- Sufficient in weight and thickness to withstand warewashing (washing and sanitizing);
- Finished to have a smooth, easily cleanable surface; and
- Resistant to pitting, chipping, crazing, scratching, scoring, distortion, and decomposition.

Additional Considerations:

If a product is National Sanitation Foundation Institute (NSF)-certified, it is compliant with the Massachusetts Food Code. Business should defer to their local health department to inquire about any specific requirements for consumer-provided containers.



Inspecting

All reusable bulk food containers must be visually inspected by a food establishment employee to verify that the container meets requirements specified in the Massachusetts Food Code, or that the container is NSF-certified.

Employees must visually inspect consumers' reusable containers before they are filled. If customers pay for bulk by weight, employees could visually inspect containers when taring (weighing) them before customers fill them.

Containers should be free of:

- Visible soil or food debris
- Pitting, cracking, chipping, crazing (visual cracks on the surface), scratching, scoring and distortion

Filling

When filling reusable bulk food containers, the food establishment's dispensers, utensils, and other equipment **should not come into contact with the container.**

Here are examples of contamination-free filling methods:

- Gravity-fed dispensers (self-service, bulk gravity flow)
- Self-service, non-gravity fed (scoop bins, spice containers, bulk foods with utensils)
- Intermediary liners (full-service, employee refilling, using liners such as wax paper)

Please refer to the Conference for Food Protection [Guidance Document for Safe Use of Reusable Containers](#) for detailed descriptions of each of the above filling methods.



Washing, Rinsing, Sanitizing, Drying, & Storage

Retail and bulk food establishments should ensure that scoops, tongs, ladles, or other utensils used to fill containers are sanitized at least every 24 hours.

For guidance on washing, rinsing, sanitizing, drying, and storing Establishment-Provided bulk food reusable containers, see the applicable sections in the Establishment-Provided Food Containers in Foodservice section.

Guidance Conclusion

This collection of best management practices focuses on the use of reusable take out containers in foodservice and retail/bulk food settings in alignment with the Massachusetts Food Code.

For any questions about switching to reusable containers or would like no-cost assistance with implementing a reusables program, contact our hotline:

Phone: 888-254-5525

Email: info@RecyclingWorksMA.com



Additional Resources

- [MassDEP Reduce and Reuse Working Group](#)
- [MassDEP Reduce & Reuse Action Plan](#)
- [Massachusetts Merged Food Code](#)
- [Guidance Document for Safe Use of Reusable Containers, Conference for Food Protection](#)
- [NSF Food Storage Containers webpage](#)
- **Third Party Container provider examples:**
 - [DeliverZero](#), [Muuse](#), [Ozzi](#), [Recirclable](#), [ReThink Disposable](#), [ReUser](#), [Preserve](#), and [USEFULL](#)
- [Reusable Container Quickstart Guide, Circular Philadelphia](#)
- [Toolkit Refilling Consumer owned Containers _1_.docx](#)
- [The New Reuse Economy: The Future of Food Service is Reusable](#) (an **UPSTREAM resource**)



recyclingworksma.com/reusable-containers-guidance/

Heather Billings

508-479-3713

heather.billings@cetonline.org

info@recyclingworksma.com