

Webinar Series Session 3:

18 May 2021

Food Waste Solutions for Businesses



Welcome!

Meeting guidelines:

- We have everyone's audio muted automatically – please keep yours muted and your video off during the presentation. Thank you!
- Q and A will be at the end: please put questions in the chat.
- This meeting is being recorded and will be available to attendees after the event.
- We will email links to the recording and the presentation slides to attendees.



Today's Agenda:

- **2:30-2:35pm:** Introductions/logistics (Poll #1)
- **2:35-2:45pm:** Food Waste Overview
 - Rick Innes of Clear View Composting
- **2:45-3:05pm:** Recycling Works in MA
 - Khrysti Smyth Barry of the Center for EcoTechnology and RW
- **3:05-3:25pm:** Compost program logistics and successful models
 - Amy Donovan, Franklin County Solid Waste Management District
- **3:25-3:30pm:** Food Waste Overview
 - Rick Innes of Clear View Composting
- **3:30-4pm:** Questions and discussion!

Thank you!

- **Mount Grace Land Trust/Greater Quabbin Food Alliance**
 - Food Waste Recovery and Composting Subgroup
- **Worcester County Conservation District**
- **Drawdown Montague**



Food Waste 101

Rick Innes

Clear View Composting, Orange, MA



U.S FOOD WASTE

Did you know?

- 30-40% is wasted
- Valued at \$165 billion annually
- Rotting food in landfills releases greenhouse gases

Source: NRDC

CLIMATE  CENTRAL

FOOD WASTE CONSUMES:



21%

OF ALL FRESH WATER



19%

OF ALL FERTILIZER



18%

OF CROPLAND

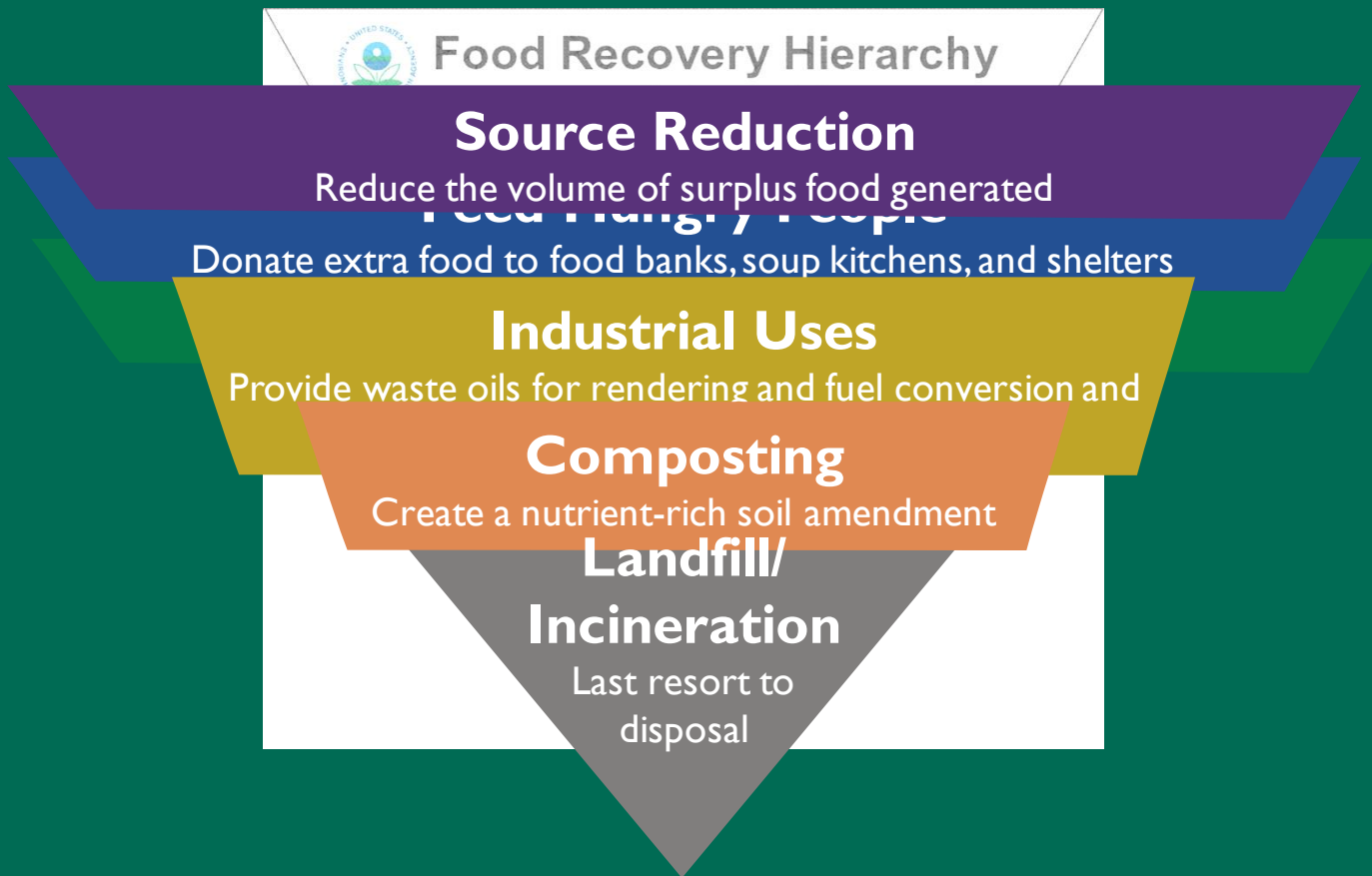


21%

OF LANDFILL VOLUME

EPA Food Recovery Hierarchy

Today's presentations will follow this progression





Remember: whatever you can do now
is a step in the right direction!

RecyclingWorks in MA, Source Reduction, and Food Recovery

Khrysti Smyth Barry

Center for EcoTechnology and RecyclingWorks in MA
Northampton, MA



Free Assistance for Businesses & Institutions



RecyclingWorks in MA is funded by MassDEP, delivered under contract by the Center for EcoTechnology
recyclingworksma.com



Free Assistance for Businesses

RecyclingWorks in MA Case Study:

The Gardner Ale House



Massachusetts Waste Bans

- Commercial food waste
 - Recyclable metal, glass, & plastic containers
 - Cardboard
 - Paper
 - White goods
-
- Commercial food waste
 - New 2021 threshold will be 0.5 tons/week or more
 - (previously 1 ton/week)



FOOD WASTE ESTIMATOR

<https://recyclingworksma.com/food-waste-estimation-guide/>

Restaurants

Note: RecyclingWorks now breaks out all forms of estimating food waste by the NAICS code definition for limited and full-service restaurants. Limited-Service Restaurants (**NAICS 722211**) are defined as “establishments primarily engaged in providing food services ... where patrons generally order or select items and pay before eating.” Full-Service Restaurants (**NAICS 722511**) are defined as “establishments primarily engaged in providing food services to patrons who order and are served while seated ... and pay after eating. Actual food waste generation rates within each of these categories can vary widely. Factors such as whether your establishment prepares food from scratch, offers buffet-style dining, or has mostly patrons that eat-in can contribute to higher amounts of food waste. Take into account your restaurant’s operations when considering which metri

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

Assisted Living Facilities

Colleges and Universities

Corporate Cafeterias

Correctional Facilities

Elementary and Secondary Schools

Hospitals

Lodging and Hotels

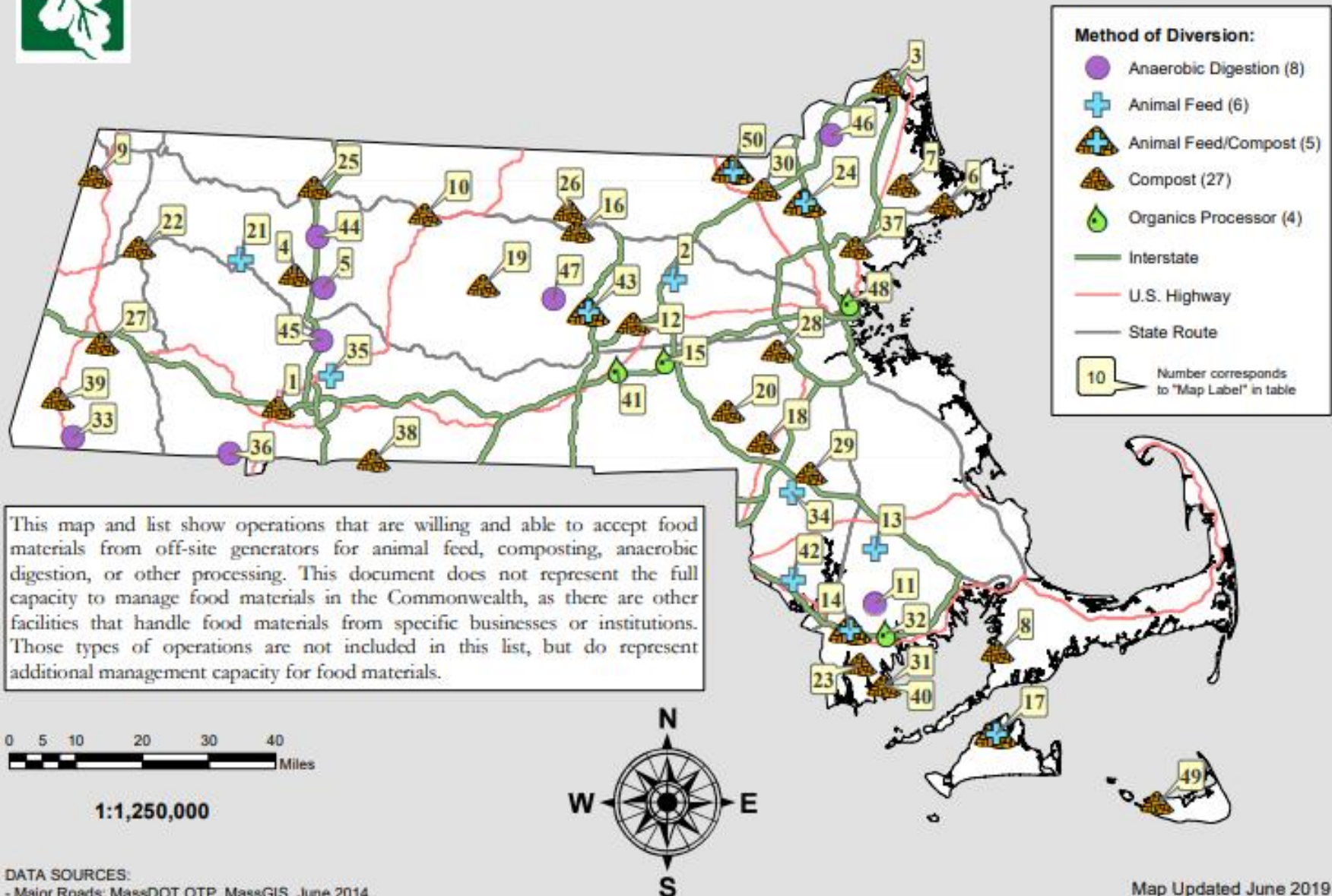
Restaurants

Supermarkets and Grocery Stores

Venues and Events



Sites Accepting Diverted Food Material



DATA SOURCES:

- Major Roads: MassDOT OTP, MassGIS, June 2014
- Food Material Diverters: MassDEP BAW, June 2019

Map Updated June 2019
MassDEP, BAW. J Cook

Additional RecyclingWorks Resources

- Tip sheets
- Materials guidance
- Best Management Practices
- Sector-specific food waste estimation guide



TIPS FOR WASTE REDUCTION AT WORKPLACE EVENTS



When your workplace hosts an event, the waste needs may be different from your day-to-day operations. With some planning, you can reduce waste and ensure that materials from your event are recycled. Events are also a good opportunity to collect food scraps for composting if your business does not do so already. If your event is taking place off-site, use this document as a guide for the conversation with your contact at the off-site venue to clearly communicate your waste reduction goals.

Contact RecyclingWorks in Massachusetts at **888-254-5525** or email info@recyclingworksma.com for assistance.

Reduce Waste

Maximize the impact by reducing the amount of waste you create in the first place.

- Provide reusable serveware instead of disposable.
- Purchase refreshments and other packaged items with minimal packaging (avoid single-serving condiments).
- Serve water in pitchers or dispensers and encourage guests to bring a reusable water bottle.
- Use post-consumer recycled content paper, and print double-sided.
- Use reusable materials for name tags. Collect them after the event.
- Require frequent updated headcounts prior to the event, and on the day of the event, to ensure you have the appropriate, but not excessive, amount of food.

Refer to the RecyclingWorks Source Reduction of Food Waste Guidance page for more information on strategies for reducing food waste. recyclingworksma.com/source-reduction-guidance



Reducing Contamination in Recycling and Composting

If you plan to use disposable plates and/or cups, consult with your hauler about what materials are accepted as recyclable or compostable.

Food-soiled items are never accepted with recycling, unless cleaned first.

The following plastic items are typically **not** accepted for recycling:

Utensils	Plates	Bowls	Straws	Stir Sticks	Plastic Cups*
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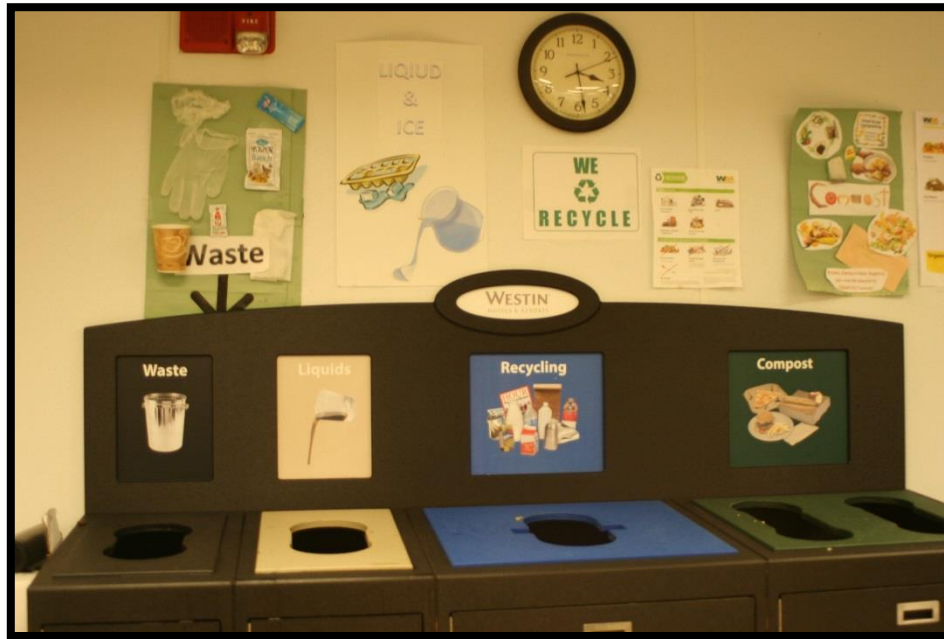
*Check with your hauler! Exceptions may be made for certain clear plastic cups.

Most compost sites accept paper napkins and paper towels along with food scraps but only certain compost sites accept compostable plates, bowls, and cups, and they frequently have restrictions on the type or quantity of these materials.

Check with your waste hauler before purchasing compostable serveware and never put these items in the recycling bin!



Signage & Training



Food Scraps



COMPOST
All Food Scraps, Napkins,
& Compostable Packaging

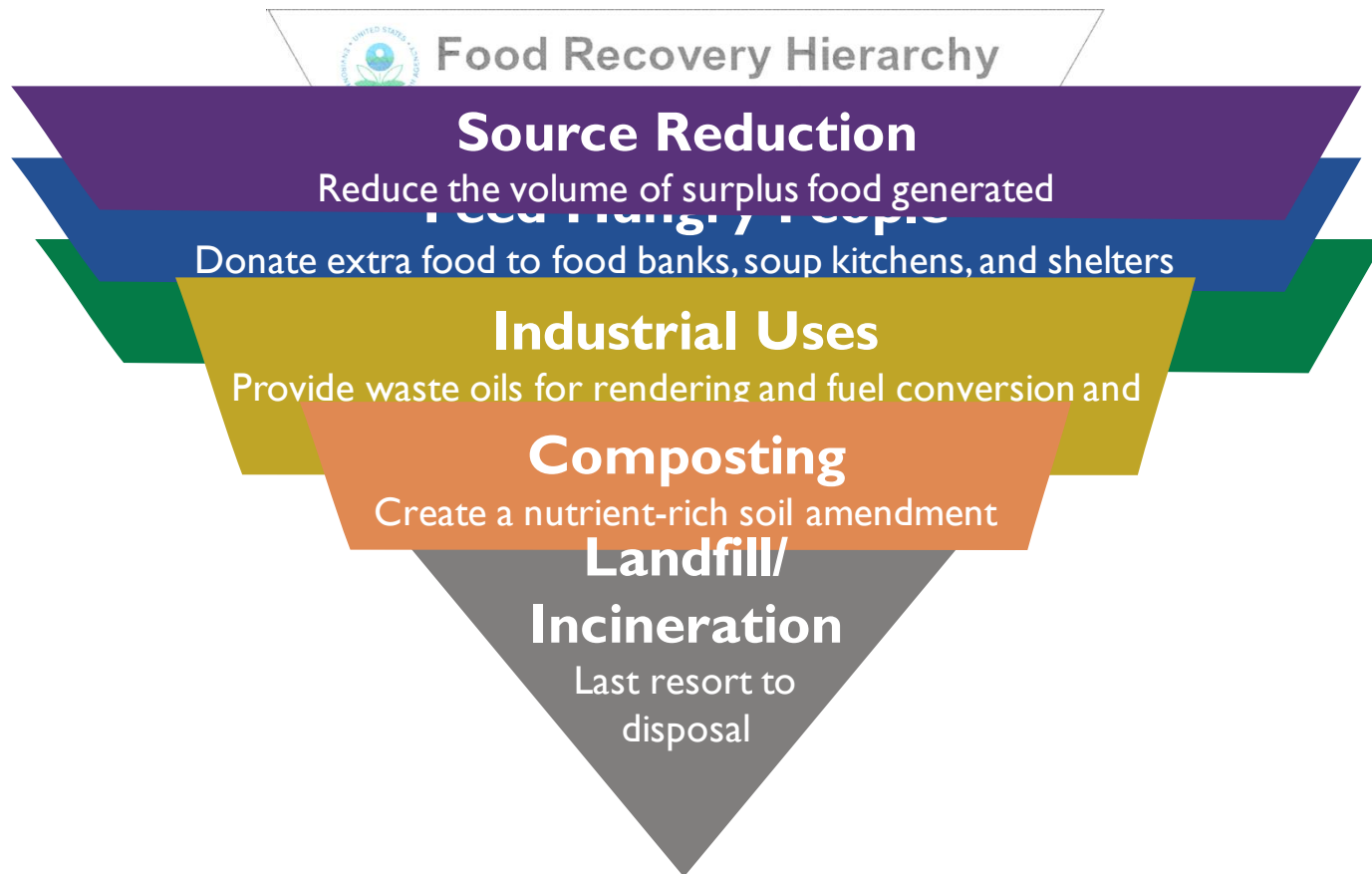
Fruits, vegetables,
dairy, bread, grains,
meat & fish, bones
& shells, eggs



NO
No plastic, coffee cups,
wrappers, Styrofoam,
or any other trash



OUR APPROACH TO ADDRESSING WASTED FOOD



Source Reduction Guidance

- Front-of-house
- Back-of-house
 - Tech: Phood, LeanPath, etc
- Purchasing/Mgmt
 - Meal planning
 - Portioning
 - Donations
- Signage & training



Food Donation Guidance

Less than 10% of unsellable food from manufacturers, retailers, restaurants, and food service providers combined is donated each year

- Liability protections
 - Emerson Good Samaritan Act (no one has *ever* been sued for donated food)
- Partner with a food rescue organization
 - Coordinate pickup ahead of time
- Repurpose into new meals
 - Keep to time/temp: display smaller portions so any excess stays hot/cold for longer
- Send leftovers home with staff or attendees

SOURCE SEPARATION GUIDANCE

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

Kitchen Separation

Recommended practices for source separation, starting in the kitchen



Hauler Collection Frequencies

Suggested timelines for hauler collection of food waste



Outdoor Storage Practices

Guidelines for proper storage, from cleanliness to container maintenance



Additional RecyclingWorks Resources

✉ info@recyclingworksma.com

Facebook

Twitter

📄 Subscribe to Newsletter

🔍 Contact Us

📞 CALL HOTLINE: (888) 254-5525



ABOUT US

RECYCLE

FOOD WASTE

MATERIALS

REUSE

BLOG/EVENTS



RECYCLINGWORKS TECHNICAL ASSISTANCE

- COMPLY WITH THE ORGANICS WASTE BAN
- ESTIMATE YOUR FOOD WASTE
- SOURCE REDUCTION GUIDANCE
- FOOD DONATION GUIDANCE
- SOURCE SEPARATION GUIDANCE
- COMPOST SITE TECHNICAL ASSISTANCE

RecyclingWorks in Massachusetts is able to provide no-cost technical assistance to help businesses and institutions maximize recycling, reuse, and food recovery opportunities. Through this one-on-one technical assistance, RecyclingWorks can help your organization:



- Evaluate existing waste streams
- Identify opportunities to prevent, recover, and divert waste
- Empower employees through education and training
- Create customized waste bin signage
- Conduct a cost analysis for starting or expanding a waste diversion program
- Connect with waste haulers and processors of recyclables and organics

Find A Recycler

Choose A Material

Any Material

Location

Enter location

50 mi

Pick Up/Drop Off

Pick Up/Drop Off

Keyword

RecyclingWorks in MA Hotline
(888) 254-5525
info@recyclingworksma.com
recyclingworksma.com

Khrysti Smyth Barry
Customer Solutions Specialist
khrysti.barry@cetonline.org
413-586-7350 x366



Composting Program Logistics and Successful Models

Amy Donovan

Franklin County Solid Waste Management District
Greenfield, MA



Commercial/municipal compost (“organics”) -

Accepts ALL food waste, paper waste, wood, compostable “plastics”

Franklin County: 11 municipal transfer stations, 30 public schools,
35 + events, plus restaurants, markets, food factories...

Composting is happening in Franklin County!



Martin's Farm in Greenfield



**Windrow turner at
Martin's Farm**

**Compost thermometer
in windrow shows 140°**

Compostable Tableware

*Collaborative
Purchasing?
Local purchasing*

PAPER:

- To-go boxes, paper plates, paper cups – brand that's BPI-certified (bpiworld.org)
- Paper napkins and towels
- Cardboard/pizza boxes

WOOD:

- Birch, bamboo utensils
- Chopsticks, skewers
- Toothpicks (no plastic frills)

COMPOSTABLE “PLASTIC”

- Made from corn, or PLA
- Commercial composting only: not for home bins
- Clear compostable beer cups, cold cups: Greenware, Eco Products...
- Utensils: Greenwave, World Centric...
- **MUST be BPI-certified:**

bpiworld.org



Transfer Station Compost Programs

Rick Innes, Clear View Composting services: New Salem, Orange, Wendell Transfer Stations





Triple T Trucking hauls to Martin's Farm from the Transfer Stations in:

- Bernardston
- Deerfield
- Greenfield
- Leverett
- Northfield
- Montague
- Whately



**Greenfield TS (\$5) +
Martin's Farm:
Compost dumpsters
for anyone to use!**

The Compost Cooperative, Greenfield



- Residential pickups (pails)
- Commercial p/u (toters)
- Services restaurants and businesses in Greenfield, Turners Falls, expanding...
- Conway Transfer Station
- Worker owned Co-Op providing jobs for the formerly incarcerated
- Hauls to Martin's Farm, Just Roots, more...

Restaurants / SF Compost Collaborative



Shelburne Falls Compost Collaborative



- Three restaurants*, an art school, and the Bridge of Flowers
- Share a centrally located compost dumpster (since 2010)
- Hauler: Triple T Trucking; composted at Martin's Farm
- Managed by FC Solid Waste District
- *The Blue Rock, West End Pub, Hearty Eats



*Pictured >
West End Pub
table bussing
area in tiny
restaurant*



Hearty Eats, Shelburne Falls

Front of house: bussing area has 1 quart trash bin



Hope & Olive, Greenfield

Back of house: compost pails at dish area, deck



Hope & Olive



Current Haulers:

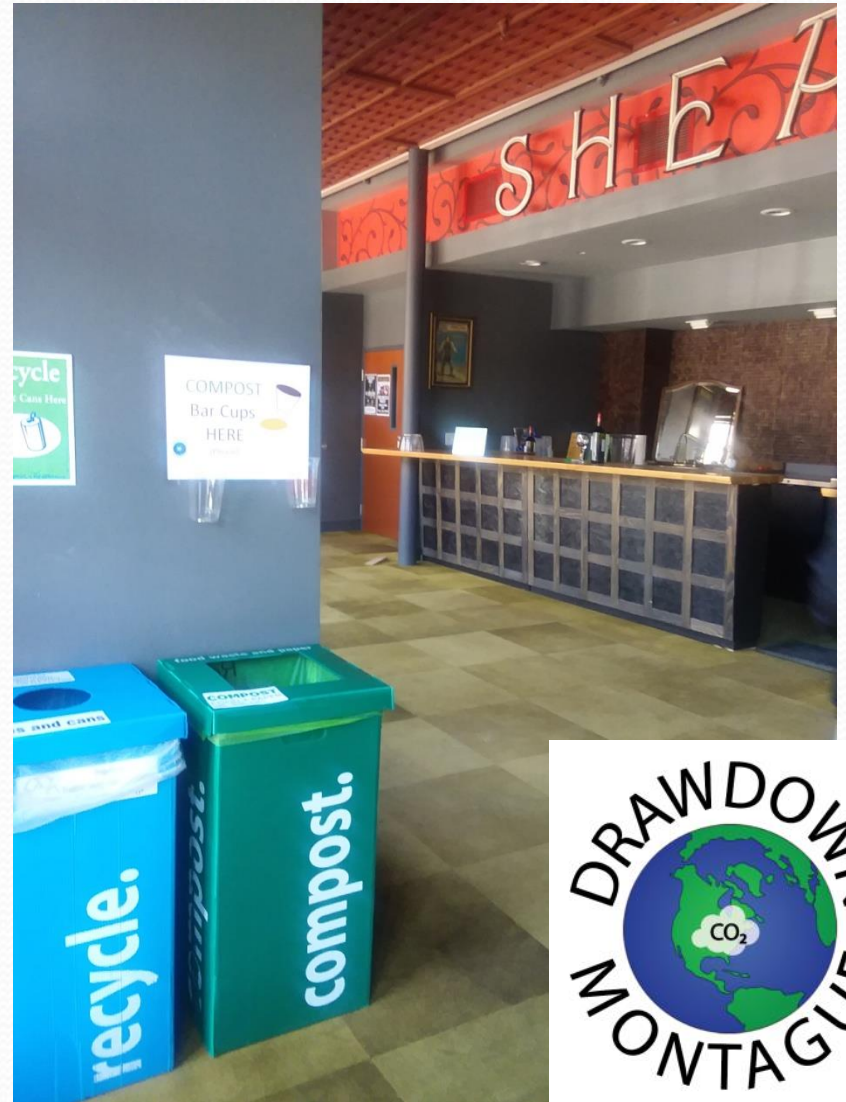
- Triple T Trucking (trash, cardboard)
- (Some eateries combine cardboard and food waste)
- Compost Cooperative (food waste)
- Composted at Martin's Farm, Greenfield



Event Venue: Shea Theater

March 2019:

- Started composting, improved recycling
- FCSWMD donated bins, signs (town owns building)
- Drawdown Montague (DM) - signage, funded compostable cups, bags
- Pre-Covid: DM volunteers haul to nearby compost dumpsters at schools
- Future: pick up at theater?



Green River Festival

Greenfield MA

- 15,000 + attendees
- National acts
- 63% diversion rate
- 50 recycle bins, 35 compost bins
- Compost dumpster: Martin's Farm
- Staffed by volunteers (free admission)



North Quabbin Garlic & Arts Festival: A Zero Waste Leader!

- 10,000 attendees
- Only 2 bags of trash!
- 144 bags organics! That's:
 - 2.01 tons, or
 - 15.85 cubic yards
- Composted at Clear View Composting
- 25 bags recyclables
- No bottled water sold: free water in dispensers, compostable cups
- Requires compostable; sells vendors Greenwave utensils; encourages wooden utensils





Franklin County
Solid Waste Management District

Amy Donovan
Program Director
Franklin County Solid Waste Management District

amy@franklincountywastedistrict.org

www.franklincountywastedistrict.org

117 Main St., 2nd Floor
Greenfield, MA 01301
(413) 772-2438

*Pictured: Recycle/Compost
Station at Franklin County
Fairgrounds*



Clear View Case Study

Rick Innes

Clear View Composting, Orange, MA





- Residential and commercial collection
- Customizable services
 - Reporting on weight and/or volume
- Swift River School
 - Cost savings
- Case study: Quabbin Harvest Co-op
 - Exterior collection bins
 - Interior collection bins

Resource Panel

Rick Innes

Khrysti Smyth Barry

Amy Donovan



Questions?

(Poll #2)



REDUCTION
RECYCLING
COMPOSTING
DISPOSAL



Franklin County
Solid Waste Management District