

Reduce

Prevent food waste generation



Donate

Donate unused food to people in need



Process

On-Site Options

Off-Site Options

Anaerobic
Digestion

Animal
Feed

Compost

Industrial
Uses

Massachusetts Commercial Organics Waste Ban

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June 12, 2014



Waste Bans Background

Purpose:

- Implement as part of a comprehensive approach
- Ensure materials available for recycling & composting facilities
- Limit need for disposal capacity

Waste Ban Background

Who do they apply to?

310 CMR 19.017(3)(a): “No person shall dispose, transfer for disposal, or contract for disposal of the restricted material...”

- **Solid Waste Facilities**
- **Haulers**
- **Generators**

Banned Materials

- Recyclable Paper/Cardboard
- Glass, Metal, Plastic Containers
- Leaves and Yard Waste
- Asphalt Pavement, Brick, Concrete, Metal, Wood and Clean Gypsum Wallboard
- Lead Acid Vehicle Batteries and Tires
- Cathode Ray Tubes
- White Goods (large appliances)
- * *Tires and Wood can be accepted at municipal waste combustors*
- **Overall, waste ban materials = about 40% of trash disposed**

MassDEP Waste Ban Compliance Strategy

- Using facility and third party data
 - Outreach and targeting inspections
- Increased inspections and enforcement
 - Inspections at solid waste facilities
 - Looking for large amounts of banned materials
 - More than 150 enforcement actions since January 2013
- RecyclingWorks resources and assistance

Cardboard



Paper



Bottles and Cans



Leaves and Yard Waste



Organics Policy and Goals

- Solid Waste Master Plan
 - Overall goal – reduce disposal by 2 million tons (30 %) annually by 2020
 - Reduce disposal by 80% by 2050
- Primary Goal – Divert additional 350,000 tons per year of organic materials from disposal by 2020
- Clean Energy Results Program
 - Support the development of renewable energy in Mass.
 - Goal to have 50 MW of anaerobic digestion in place by 2020

Why focus on food waste/organics?

- Food waste and other organics >25% of disposal in Mass. > 1 million tons per year
- In 2010 (fall & winter sampling)
 - Food waste estimated 15% of MSW disposal
 - Compostable paper 6 % of MSW disposal
- In 2013 (spring & summer sampling)
 - Food waste 19% of MSW
 - Compostable paper 8% of MSW

Benefits

- Opportunity to digest for energy and/or compost to produce soil amendments/fertilizers
- Management solutions for dairy manure & wastewater residuals
- Opportunity to generate energy at farms, waste water plants, other locations
- Cost effective materials management for businesses/institutions
- Reduced reliance on disposal capacity

Organics Action Plan Overview

- Comprehensive, integrated set of strategies
- Developed working with stakeholders
- Focused on 2020 goal – 350 K tons additional diversion annually
 - Data Analysis
 - Collection Infrastructure
 - Processing Capacity/Market Development
 - Regulatory Reform/Waste Ban

Current Status/Progress to Date

- Estimate baseline 100,000 tons of food waste diversion
- Composting – farms and small commercial sites – about 30 locations
- Pig farms/animal feed
- On-site systems
- Estimated 1,400 businesses/institutions now diverting food waste – includes 300 supermarkets
- Growth in organics hauling services

Improved Data

- Food waste density mapping study – updated 2011
- Waste characterization study data
- Completed survey of food waste management at state facilities
- Will be reviewing facility reports to update diversion data

Building Collection Infrastructure

- Guidance on food waste reduction/donation
- Best management practices guidance
 - By business sector
 - For local health departments/haulers
- Recycling Loan Fund – haulers eligible
- Residential/small business collection pilot programs
- Regionally focused projects
 - Pioneer Valley, Devens, Worcester
 - Build route density

Technical Assistance to Generators

- RecyclingWorks in Massachusetts
 - Website
 - Service provider database
 - Guidance/fact sheets/case studies
 - Site specific TA
 - WasteWise and other workshops
- Assistance to targeted sectors

Growing Processing Capacity/Markets

- Solid waste regulations siting changes
 - Promulgated November 2012
 - Clarify requirements, reduce siting barriers
 - Facilities taking source separated materials do not require solid waste facility site assignment
- Financial assistance matrix available online
 - MassDEP Recycling Loan Fund
 - MassDEP Municipal Grants
 - Mass Clean Energy Center Organics to Energy program

Commercial Organics Waste Ban

- Will take effect October 1, 2014
- Food waste and vegetative material
- Does not apply to management in wastewater
- Commercial/institutional organics – dispose > 1 ton/week
- Estimate – 1,700 businesses/institutions subject to the ban
- Focus now on outreach and compliance assistance

Additional Guidance

- Waste bans monitored/enforced @ solid waste facilities
- Proposed threshold is 1 ton/week disposed, not generated
- Q&A for generators/haulers
- Resources on how to comply on RecyclingWorks web site

Common Questions

- Pre-consumer/post-consumer?
- How applied to university campus?
- Exceed threshold seasonally?
- How can my facility comply?
- Is packaged food subject?

Contact Information

www.mass.gov/dep/public/committee/swacorg.htm

www.mass.gov/dep/recycle/reduce/commorg.htm

<http://www.mass.gov/dep/cleanenergy.htm>

www.recyclingworksma.com

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