

# Organics Subcommittee Meeting



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September 20, 2019

# Overview

- Organics SC meetings recap
- Waste ban development schedule
- Food waste disposal & generation estimates

# December 2018

- Presentations and discussion topics
  - Compostable products and packaging
  - Anaerobic digestion
  - 2018 Organics Progress Report
- Key discussion takeaways and action items
  - Lower the organics ban threshold
  - Quantify current organics source reduction activities and practices

# March 2019

- Presentations and discussion topics
  - Food waste reduction progress
  - Food waste reduction strategies for different sized generators
- Key discussion takeaways and action items
  - Consider food waste as target material for upcoming grant rounds
  - Conduct more direct outreach to businesses subject to the organics ban
  - Schedule additional Organics SC meetings to discuss lowering the ban threshold

# April, 2019

- Presentations and discussion topics
  - Food waste reduction strategies for small/residential generators
  - Lowering the waste ban threshold
- Key discussion takeaways and action items
  - Send letters to select businesses requesting more information on food waste generation and compliance
  - Develop an updated, more detailed Organics Action Plan to supplement the SWMP

# May, 2019

- Presentations and discussion topics
  - Organics Action Plan review
  - Lowering the waste ban threshold: generator estimates, capacity, issues and barriers
- Key discussion takeaways and action items
  - Continue to work with haulers and associations to disseminate information to generators
  - Conduct sector-specific analysis to share at a future meeting

# Updated Food Waste Data

Processing Type	2016 Tonnages	2017 Tonnages	2018 Tonnages
Compost	80,000	53,000	44,000
Animal Feed	26,000	27,000	40,000
Anaerobic Digestion	48,000	88,000	160,000
Other	14,000	13,000	8,000
Food Donation	23,000	26,000	26,000
Total	190,000	206,000	278,000

- 2017 reporting errors (composting)
- Does not include via wastewater
- Understates animal feed
- Source reduction
  - 145 businesses
  - >1,000 tons/year reduction
- 55 NONs + 5 penalties
  - $\frac{3}{4}$  since start of 2018

# Waste Ban Development Schedule

- Fall 2019-Spring 2020: internal draft regulation development
  - Comprehensive set of revisions
  - 310 CMR 16.00 and 19.000
- Mid-late 2020 : publish draft regulations
- Fall –winter 2020: public comment & hearings on draft regulations
- Spring-summer 2021: publish revised regulations; ramp up technical assistance and outreach
- TBD: new regulations effective



# Waste Characterization Data

- Food waste 26% of trash at waste combustors
- Statewide MSW total = 4,470,000 tons
- May be some differences between this trash & trash at landfills and transfer stations (esp. bulky waste)
- But if apply across the board = 1,160,000 tons of food waste disposed in trash
- About 55% commercial = 640 K tons
- About 45% residential = 520K tons

# “Generation” vs. Disposal

- Food waste generation estimates much higher
- About 1.3 million tons vs. 640K tons
  - 280k tons diverted
  - Additional managed through wastewater, rendering, other byproducts
  - Some uncertainty with generation estimates
    - Esp. for manufacturers/processors

# 2014 Regulation Estimates

- 600 K tons of business food waste disposed in trash
- Could capture 1/3 through ban & supporting strategies
  - 200K tons

# Total Businesses in Analysis

Sector	Total #
Hospitals	262
Nursing Homes and Residential Facilities	920
Full service Restaurants	10,003
Limited service Restaurants	1,901
Supermarkets	4,832
Warehouse Clubs & Supercenters	37
Hotels	1,634
Correctional Facilities (Inmates)	17
Schools, Colleges, and Universities (Students)	91
Manufacturers & Processors	1,006
Distributors & Wholesalers	506
Primary & secondary schools	1,785

# Generation by Size Category

Size Category (tons per week)	Number Generators	% of Generators	Total Est. Generation (tons per year)	% of Total Generation
>2	955	4%	265,657	21%
1-1.99	1,942	8%	734,961	57%
0.5-0.99	1,872	8%	94,547	7%
<0.5	18,204	79%	196,395	15%
Totals	22,973	100%	1,291,561	100%

Sector	Businesses generating over 1 ton of food waste/week	Businesses generating over ½ ton of food waste/week	Percent of business sector subject to proposed waste ban
Hospitals	77	158	60%
Nursing Homes and Residential Facilities	8	39	4%
Full Service Restaurants	850	1,659	17%
Limited Service Restaurants	111	622	33%
Supermarkets	468	583	12%
Warehouse Clubs and Supercenters	31	31	84%
Hotels	137	229	14%
Correctional Facilities	10	13	76%
Schools, Colleges, and Universities	70	79	87%
Manufacturers and Processors	774	897	89%
Distributors and Wholesalers	355	430	85%
Primary and Secondary Schools	0	29	2%
<b>Total</b>	<b>2,891</b>	<b>4,769</b>	

Sector	Annual sector-wide tonnage subject to current ban	Annual sector-wide tonnage subject to proposed ban
Hospitals	20,747	23,528
Nursing Homes and Residential Facilities	985	2,177
Full Service Restaurants	91,158	120,000
Limited Service Restaurants	7,180	25,813
Supermarkets	101,672	105,677
Warehouse Clubs and Supercenters	7,533	7,533
Hotels	17,357	20,507
Correctional Facilities	1,455	1,560
Schools, Colleges, and Universities	28,793	29,116
Manufacturers and Processors	614,848	649,006
Distributors and Wholesalers	66,944	70,663
Primary and Secondary Schools	0	867
<b>Total</b>	<b>958,670</b>	<b>1,056,445</b>

# Next Steps

- Continue regulation development process
- Determine proposed effective date of reduced ban threshold
- Establish priorities for supporting programs
  - Outreach
  - Compliance assistance
- Update Organics Action Plan