



# Casella Waste Management of Massachusetts

SWAP- Solid Waste and Recycling Meeting  
Medway, MA

*February 20, 2023*



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# Massachusetts DEP: 2030 Solid Waste Master Plan

## Capacity for Waste and Recycling

- Declining disposal capacity for both landfill and incineration
- Recycling facilities are near capacity (as of 2021)
- Organics facilities (compost and digestion) have available capacity
- Other recycling capacity is emerging for mattresses, donation, etc.
- Capacity to export waste is logistically limited

## Targets for to reduce disposal

- 2030: Reduce by 30% (1.7 million tons)
- 2050: Reduce by 90% (5.1 million tons)

## Capacity Gap

- Even if 2030 goal is met, DEP expects a 700k ton per year capacity gap

Massachusetts  
2030 Solid Waste Master Plan:  
Working Together Toward Zero Waste  
October 2021



<https://www.mass.gov/doc/2030-solid-waste-master-plan-working-together-toward-zero-waste/download>

# Massachusetts DEP: Diversion / Reduction Priorities

1. Divert Materials with significant potential.
    - Food (570,000 tons), Cardboard (220,000 tons), Untreated wood (135,000 tons), Textiles (130,000 tons), Bulky materials (130,000 tons)
  2. Reduce or phase out materials that are difficult to recycle.
    - Target single use packaging, encourage better packaging and purchasing habits to reduce waste.
  3. Increase reuse and donation opportunities.
    - Food donation, building materials, office furniture, textiles
  4. Develop local markets for recycling/reuse/management.
    - Food, mattresses, glass, textiles
- Also noted: Recycling Contamination
    - Every ton of contamination removed is a ton of capacity for clean recyclables

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# Casella in Massachusetts

## Infrastructure

- (5) Hauling Facilities
- (2) Single Stream MRF + (1) Industrial Recycling Facility
  - Boston MA- 5<sup>th</sup> largest MRF in the U.S.- added 70k tons of capacity
  - Recycling Education
- (1) C&D Processing Facility in Holyoke, MA
  - 15% diversion rate
- (6) Owned or Operated Transfer Stations

## Partnerships

- Close to 100 municipal partnerships across the state
- Over 600 municipal partnerships across footprint



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# Commodity Markets

	Jan-23	24-Jan
Cardboard (OCC)	\$ 35	\$ 95
Mixed Paper	\$0	\$ 50
PET	\$ 227	\$ 228
HDPE Natural	\$ 1,232	\$ 569
HDPE Colored	\$ 180	\$ 371
Steel/Tin	\$ 138	\$ 189
Aluminum	\$ 1,303	\$ 1,225

Recycling is real!



**Cardboard**  
becomes



**Present Boxes**

**Paper**  
becomes



**Egg Cartons**

**Plastic**  
becomes



**Fleece Jackets**

**Glass**  
becomes



**Roadways**

**Metal**  
becomes



**New Cans**



# Mattress Recycling

## November 2022 Massachusetts Waste Ban

- The general rule of thumb for the residential mattresses is 4% of the population discards a mattress every year.
- Commercial volume is estimated to add an additional 2%, meaning 6% of a given population will discard mattresses every year. For a 1,000,000 population, 60,000 units will be discarded.

In New York and New England alone, just over 2 million mattresses are discarded each year!



METAL

- Springs are removed and shredded for recycling as scrap metal
- The metal is used to make new appliances and also can be transformed into building materials



WOOD

- Wood is processed via large wood grinders
- The processed wood can then be used to create animal bedding, mulch, and fuel



FOAM

- Foam padding from the mattress is separated and baled
- The foam is recycled into carpet underlayment



COLLECTION LOGISTICS

- We provide trailers or open top containers on-site for your convenience
- Mattresses can also be delivered into our network of transfer facilities



PROTECTING THE ENVIRONMENT

- We recycle over 190,000 mattresses and box springs, which equates to more than 4,900 tons of material recovered from disposal



LOCAL JOBS

- Our facilities provide a variety of local job opportunities and create meaningful career paths for a wide range of skill sets



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# Move towards Automated Collection

- Safety improvements- industry initiative
  - 7<sup>th</sup> most dangerous industry to work in
- Labor shortages
- More efficient collection method- reduces fuel consumption and carbon emissions.
- Limiting factor at the curb
  - PAYT system collaboration



# Take aways- Actionable

1. Pay per unit structures in collaboration with haulers
2. Siting of recycling infrastructure for new streams
  - Mattresses, biosolids, textiles, glass
3. Education & Outreach to reduce recycling contamination
  - Improves quality, additional capacity, increases value



Thank You!



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To learn more, please visit [casella.com](https://casella.com)