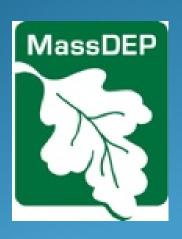
2030 Solid Waste Master Plan

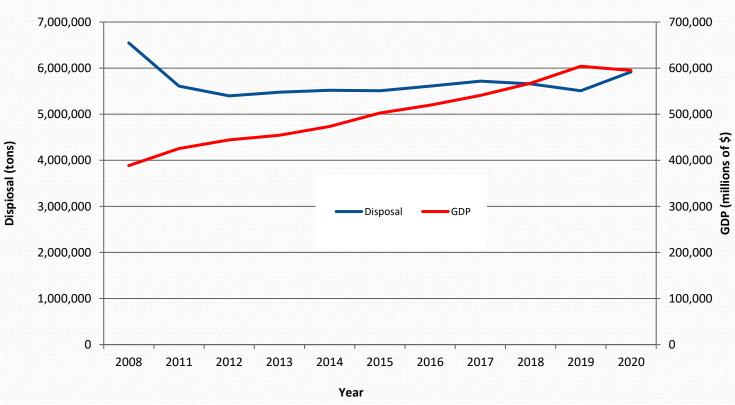


Greg Cooper November 2022

Solid Waste in Massachusetts

- Dispose of about 5.7 million tons of waste per year
 - Includes trash from residents, businesses, and construction activities
 - 3.0 million tons/year to in state waste to energy facilities
 - 650,000 tons/year (& declining) to in-state landfills
 - 2.2 million tons/year disposed out of state on net basis
 - Exports minus imports
- 1650 lbs per person per year

Massachusetts Gross Domestic Product vs. Disposal (2008-2020)



MassDEP did not calculate disposal data for 2013.

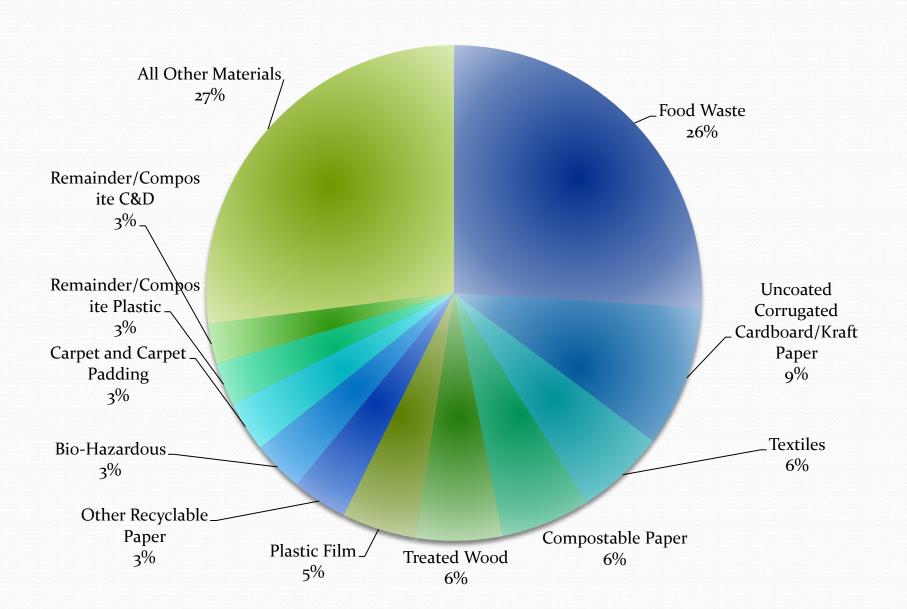
Solid Waste in Massachusetts

- 5 waste to energy facilities
- 5 active landfills that accept solid waste
- About 200 waste transfer stations
- About 20 construction waste processing facilities
- 9 material recovery facilities (MRFs) that process and sort recyclables
- About 50 locations that accept food materials
 - Animal feed, compost, or anaerobic digestion
- About 150 leaf and yard waste compost sites

Waste Management Capacity

- Limited capacity
 - Disposal in state and in region
 - All but one Mass landfill projected to close by 2030
 - Recycling (MRFs)
- Available capacity
 - Solid waste transfer (growing rail capacity)
 - Anaerobic digestion capacity
 - Construction materials processing capacity

Top 10 Materials in the Trash (2016)



Massachusetts Solid Waste Master Plan

- MassDEP statutorily obligated to develop Plan
- Provides overall policy framework for managing solid waste in Massachusetts
- 10 year planning periods current plan 2020-2030
- Ensure environmentally safe ways to manage our solid waste
- Has always emphasized reducing trash disposal
- Includes trash from residents, businesses, and construction

Proposed 2030 and 2050 Goals

- 2030 goal
 - reduce disposal by 1.7 million tons (30 percent) from 5.7 to 4.0 million tons
- 2050 goal
 - reduce disposal by 5.1 million tons (90 percent) to 570K tons
- Reduce the toxicity of the solid waste stream

Key Elements of Plan

- Reduce & Reuse
- 2. Organics (Food Waste) Diversion
- 3. Residential Waste Reduction
- 4. Commercial Waste Reduction
- 5. Recycling Market Development
- 6. Solid Waste Facility Oversight

Waste Ban History & Approach

- First waste bans promulgated in early 1990s
- Boost recycling and encourage recycling investment
- Develop and implement new waste bans over period of several years
- Combine technical assistance, education and outreach, municipal grants and market development initiatives
- New bans emphasize compliance assistance initially
- Inspections, Compliance & Enforcement

New Waste Disposal Bans

- Effective date of new bans November 1, 2022
 - Mattresses
 - Textiles
 - Food waste threshold (from 1 ton to ½ ton per week)

Food Waste Ban

- Food waste largest portion of MSW about 1/5th
- Will add about 2,000 entities restaurants are the sector with the largest increase
- May affect about 30 largest public schools, RecyclingWorks
 Food Waste Estimator Tool
 - https://recyclingworksma.com/food-waste-estimationguide/
- RecyclingWorks Technical Assistance and Guidance

Textiles

- Dispose about 260K tons/year about 5% of trash
- All types of textiles bedding, clothing, curtains, fabric, footwear, towels, stuffed animals, etc
- Even worn, torn, and stained items
- Key is material must be clean, dry, not contaminated
- Many active charity and private collection programs in Mass.
 - https://www.mass.gov/doc/textile-collection-organizationsoperating-in-massachusetts-august-2022/download

the secret double life of donated textiles

NEARLY 00%
OF DONATED TEXTILES ARE RECYCLED! They are separated into three grades:

45%







Recycled fiber products SAVE MONEY and RESOURCES by using existing materials.



Recycled cloth rags use LESS WATER, LESS ENERGY and create a LOWER CARBON FOOTPRINT than all other alternatives.



SECOND LIFE ...



old denim --- household insulation

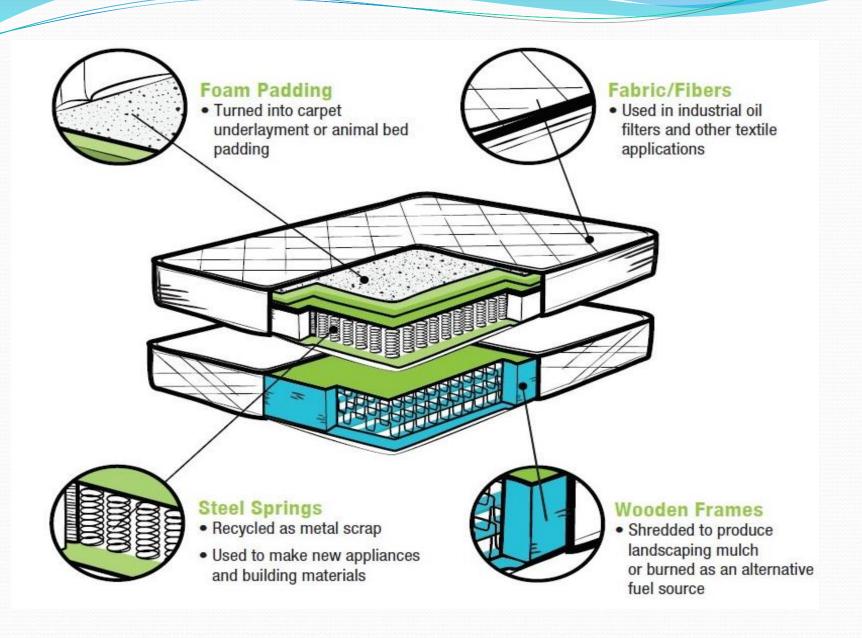
teddy bear 🚗 —> car seat stuffing



wiping cloth

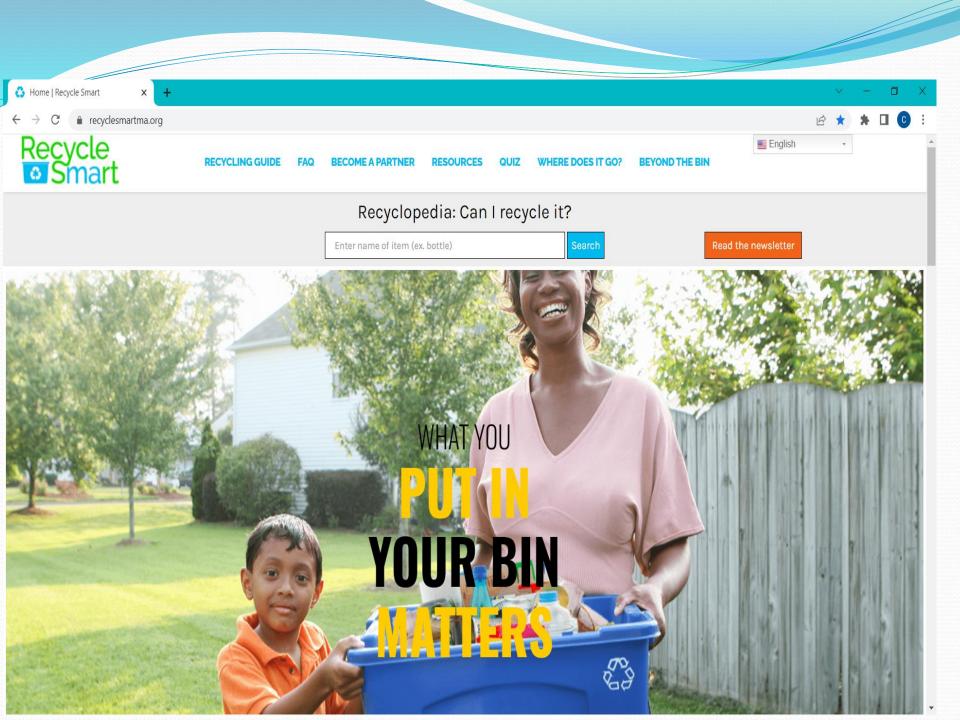
Mattresses

- About 600K mattresses generated/year about 200K residential
- All size mattresses and box springs
- Includes foam mattresses
- Over 75% of mattresses recyclable (springs, wood, fabric, foam)
- Municipal collection programs, retailer takeback, local cleanout companies
- Recycling infrastructure in place and growing



MassDEP Waste Reduction Support

- Municipal grants & technical assistance
- Commercial business assistance –Recycleworks in MA
- Recycling industry grants and loans
- Public education and outreach Recycle Smart



For More Information

- https://www.mass.gov/guides/solid-waste-master-plan
- https://www.mass.gov/guides/massdep-waste-disposal-bans
- https://www.mass.gov/service-details/mattress-recycling
- https://www.mass.gov/guides/massdep-textile-recovery
- https://www.mass.gov/lists/massdep-waste-recycling-grantsassistance
- https://www.recyclingworksma.com
- https://recyclesmartma.org/
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