

2019 Solid Waste & Waste Reduction Data

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Solid Waste Advisory Committee
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Food Waste Diversion Data

Processing Type	2016 Tonnage	2017 Tonnage	2018 Tonnage	2019 Tonnage
Compost	79,586	52,991	42,321	40,569
Animal Feed	26,250	26,777	39,593	40,014
Anaerobic Digestion	48,234	87,856	159,563	187,947
Other	13,277	12,819	8,065	9,552
Food Donation	22,712	25,940	26,637	27,703
Total	190,059	206,382	276,180	305,785

Solid Waste Master Plan

Disposal Reduction Goals and Progress

2020 SWMP GOALS

- 30% reduction by 2020 from 2008 baseline
 - 6,550,000 to 4,550,000 tons
- 80% reduction by 2050 (to 1,310,000 tons)

PROGRESS

- 2019 disposal = 5,510,000 tons
- 16 % reduction from 2008

2018-2019 Solid Waste Data

Table 2: Solid Waste Tonnage and Percent Change Summary: 2018-2019						
		2018	2019	Tons Change	% Change	
Disposal (Incl. Net Exports)		5,660,000	5,510,000	(150,000)	-2.7%	
In-State Disposal		4,470,000	3,870,000	(600,000)	-13.4%	
	Landfill	1,270,000	880,000	(390,000)	-30.7%	
	MSW	1,190,000	820,000	(370,000)	-31.1%	
	C&D	-	-	-	-	
	Other	70,000	60,000	(10,000)	-14.3%	
Combustion		3,200,000	2,990,000	(210,000)	-6.6%	
	MSW	3,180,000	2,970,000	(210,000)	-6.6%	
	Non-MSW	20,000	10,000	(10,000)	-50.0%	
Net Exports		1,190,000	1,640,000	450,000	37.8%	
	Exports	1,820,000	1,970,000	150,000	8.2%	
	MSW	750,000	820,000	70,000	9.3%	
	Non-MSW	1,070,000	1,140,000	70,000	6.5%	
	Imports	630,000	330,000	(300,000)	-47.6%	
	MSW	610,000	310,000	(300,000)	-49.2%	
	Non-MSW	20,000	20,000	-	0.0%	

Note: % Change is calculated based on the rounded amounts in this table.

Percentages may not add exactly to 100% due to rounding.

2018-2019 Disposal

- MSW
 - 2018 = 4,510,000 tons
 - 2019 = 4,300,000 tons
 - Decrease of 210,000 tons (5% decrease)
 - Household & business trash
- Non-MSW
 - 2018=1,140,000 tons
 - 2019 = 1,190,000 tons
 - Increase of 50,000 tons (4% increase)
 - Includes C&D, but also materials like contaminated soil, sludges, dredge material, etc.

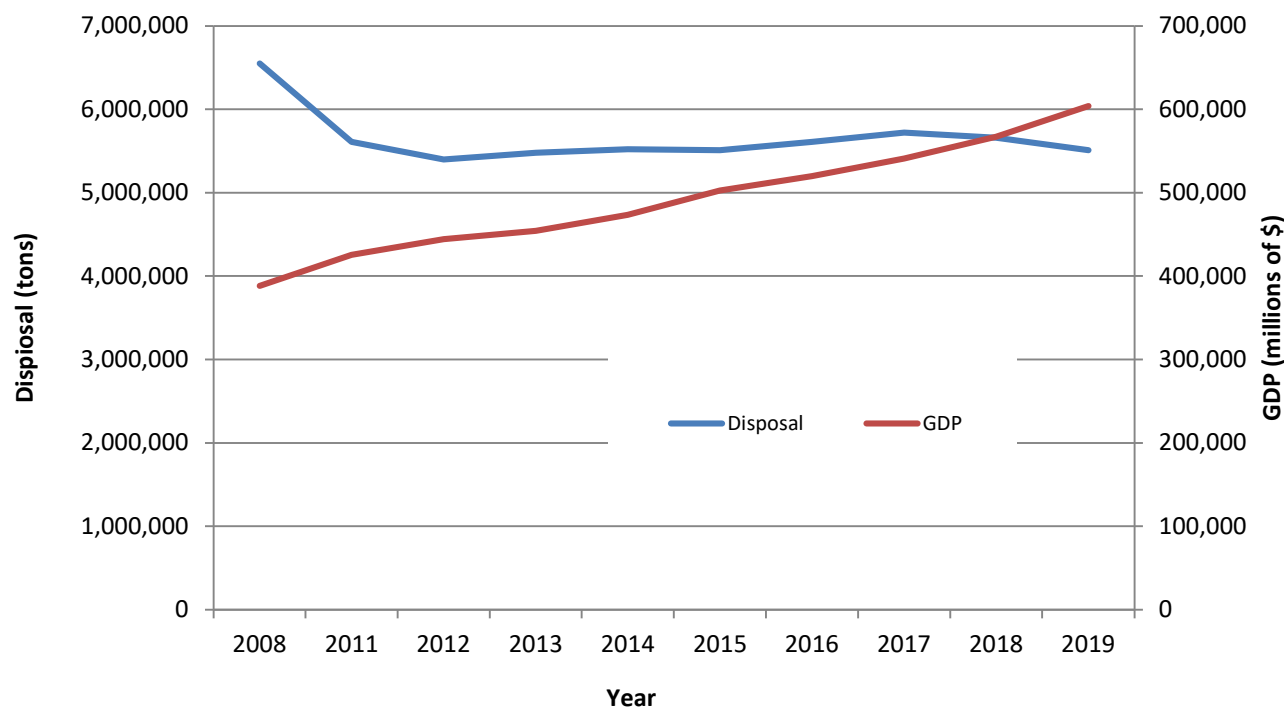
Disposal 2010-2019

Table 3 Solid Waste Disposal 2010-2019 (all data in tons)

			2010	2011	2012	2014	2015	2016	2017	2018	2019
Disposal			5,430,000	5,610,000	5,400,000	5,520,000	5,510,000	5,610,000	5,720,000	5,660,000	5,510,000
	Landfill		1,560,000	1,650,000	1,700,000	1,560,000	1,380,000	1,330,000	1,310,000	1,270,000	880,000
		MSW	1,280,000	1,390,000	1,380,000	1,380,000	1,260,000	1,170,000	1,140,000	1,190,000	820,000
		C&D	120,000	70,000	100,000	50,000	50,000	70,000	70,000	0	0
		Other	170,000	190,000	220,000	130,000	70,000	90,000	110,000	70,000	60,000
	Combustion		3,180,000	3,260,000	3,210,000	3,270,000	3,250,000	3,190,000	3,180,000	3,200,000	2,990,000
		MSW	3,170,000	3,250,000	3,210,000	3,260,000	3,250,000	3,170,000	3,140,000	3,180,000	2,970,000
		Non-MSW	10,000	10,000	0	0	10,000	20,000	30,000	20,000	10,000
	Net Exports		690,000	700,000	490,000	690,000	880,000	1,090,000	1,230,000	1,190,000	1,640,000
		Exports	1,270,000	1,340,000	1,050,000	1,190,000	1,380,000	1,560,000	1,790,000	1,820,000	1,970,000
		MSW	690,000	630,000	510,000	460,000	620,000	680,000	820,000	750,000	820,000
		Non-MSW	580,000	710,000	540,000	730,000	760,000	880,000	970,000	1,070,000	1,140,000
		Imports	580,000	640,000	560,000	490,000	500,000	460,000	570,000	630,000	330,000
		MSW	440,000	390,000	420,000	460,000	460,000	420,000	540,000	610,000	310,000
		Non-MSW	140,000	240,000	150,000	40,000	50,000	40,000	20,000	20,000	20,000

Disposal Data vs. Economic Change

**Massachusetts Gross Domestic Product vs. Disposal
(2008-2019)**



MassDEP did not calculate disposal data for 2013.

MSW Export for Disposal

MSW Exported		
State	2018	2019
AL	-	959
CT	1,857	12,200
ME	40,762	27,652
MI	-	86
NH	388,499	382,764
NY	164,743	287,255
OH	140,229	38,038
RI	-	-
SC	-	51,345
VA	15,966	21,935
TOTAL	752,056	822,234

MSW Import for Disposal

MSW Imported		
State	2018	2019
CT	93,516	44,851
ME	52	6
NH	290,444	89,231
NY	33,970	6,564
RI	191,336	163,720
VT	2,012	2,620
TOTAL	611,330	306,992

C&D Export for Disposal

C&D Exported		
State	2018	2019
CT	-	18
ME	20,647	209
NH	108,147	29,959
NY	77,037	63,899
OH	556,091	617,597
RI	11,474	-
VA	-	13,093
VT	-	457
TOTAL	773,396	725,232

C&D Import for Disposal

C&D Imported		
State	2018	2019
CT	596	1,407
ME	79	1
NH	6,219	13,947
NY	1	-
RI	643	532
VT	0	16
TOTAL	7,538	15,903

Projected Disposal Capacity

Table 9: Projected Disposal Capacity 2020-2030 (Tons Per Year)

Table 9: Projected Disposal Capacity 2020-2030 (Tons Per Year)														
Municipality	Permitted Capacity	End of current permitted capacity	Lifetime of LF	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Active Landfills														
Bourne	30,000	2021	2024	30,000	30,000	219,000	219,000	219,000	0	0	0	0	0	0
Carver	101,125	2020	2020	101,125	0	0	0	0	0	0	0	0	0	0
Dartmouth	115,000	2024	2026	115,000	115,000	115,000	115,000	115,000	115,000	115,000	0	0	0	0
Middleborough	60,000	2020	2031	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Nantucket	26,000	2029	2029	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	0
Taunton	120,120	2019	2020	35,954	0	0	0	0	0	0	0	0	0	0
Westminster	390,000	2020	2024	390,000	538,200	538,200	538,200	538,200	0	0	0	0	0	0
Municipal Waste Combustors														
Agawam	131,400			131,400	131,400	131,400	131,400	131,400	131,400	131,400	131,400	131,400	131,400	131,400
Haverhill	602,250			602,250	602,250	602,250	602,250	602,250	602,250	602,250	602,250	602,250	602,250	602,250
Millbury	529,575			529,575	529,575	529,575	529,575	529,575	529,575	529,575	529,575	529,575	529,575	529,575
North Andover	460,500			460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500
Pittsfield	84,000			84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000	84,000
Rochester	1,250,000			1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000
Saugus	460,500			460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500	460,500
TOTAL PERMITTED COMBUSTION CAPACITY	3,518,225			3,518,225	3,518,225	3,518,225	3,518,225	3,518,225	3,518,225	3,518,225	3,518,225	3,518,225	3,518,225	3,518,225
ADJUSTED TOTAL COMBUSTION CAPACITY*				3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000
TOTAL PERMITTED CAPACITY				4,276,304	3,689,225	3,659,225	3,659,225	3,659,225	3,544,225	3,544,225	3,544,225	3,544,225	3,544,225	3,518,225
TOTAL POTENTIAL CAPACITY				3,918,079	3,929,200	4,118,200	4,118,200	4,118,200	3,361,000	3,361,000	3,246,000	3,246,000	3,246,000	3,220,000
KEY:														
Permitted Capacity	Number without shading													
Potential Additional Cap.	Number with shading													
ESTIMATED TOTAL POTENTIAL AVAILABLE CAPACITY				3,918,079	3,929,200	4,118,200	4,118,200	4,118,200	3,361,000	3,361,000	3,246,000	3,246,000	3,246,000	3,220,000
100% of potential for LFs and 90 % of potential for combustion														
Actual combustion varies per year, has never reached capacity														
Total Potential	Landfill Capacity			758,079	769,200	958,200	958,200	958,200	201,000	201,000	86,000	86,000	86,000	60,000
Actual 2019 disposal for MWCs is actual tonnage burned minus post combustion metal recovery.														
MWC disposal capacity is not a fixed tonnage amount, but rather a function of the facility's air permit and may vary slightly.														
2019 % Landfill Capacity	100%													
2015-2019 % Permitted Combustion Capacity Used	89.82%													
Average total combustion (last five years):														
3162000														
Note: Bourne -85% of annual capacity to SEMASS ash disposal ENDS De. 2021.														

Waste Management Capacity Projections

Table 10: Waste Management Capacity Projections: 2020-2030

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Disposal (baseline)	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000	5,510,000
Total Disposal (reduced)	5,510,000	5,350,210	5,195,054	5,044,397	4,898,110	4,756,065	4,618,139	4,484,213	4,354,171	4,227,900	4,105,291	3,986,237
Combustion Capacity	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000	3,160,000
Potential LF Capacity	842,245	758,079	769,200	958,200	958,200	958,200	201,000	201,000	86,000	86,000	86,000	60,000
In-state Disposal Capacity	4,002,245	3,918,079	3,929,200	4,118,200	4,118,200	4,118,200	3,361,000	3,361,000	3,246,000	3,246,000	3,246,000	3,220,000
Net Disposal Export (baseline disposal)	1,640,000	1,591,921	1,580,800	1,391,800	1,391,800	1,391,800	2,149,000	2,149,000	2,264,000	2,264,000	2,264,000	2,290,000
Net Disposal Export (reduced disposal)	1,640,000	1,432,131	1,265,854	926,197	779,910	637,865	1,257,139	1,123,213	1,108,171	981,900	859,291	766,237
Assumptions for Annual Percent Change:												
Baseline Disposal Tonnage	0.0%											
Decreased Disposal Tonnage/year	2.9%											
2019 data shows actual figures.												

Contact Information

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