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2019 Solid Waste Data Update

October 2020

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Goals and Methodology Summary

MassDEP’s current waste reduction goal in the 2020 Solid Waste Master Plan is to reduce disposal on an annual basis from 6,550,000 tons in 2008 to 4,550,000 tons by 2020. In the *Draft 2030 Solid Waste Master Plan*, MassDEP has proposed a goal to reduce waste disposal from 5,660,000 tons in 2018 to 4,020,000 tons by 2030, a reduction of 1,640,000 tons on an annual basis. Table 1 summarizes the methodology for the disposal reduction calculation in future years.

| Table 1: Methodology Summary | | |
|-------------------------------------|---|--|
| | | Equation |
| Disposal Tonnage | = | In State Disposal (Landfill & Municipal Waste Combustor) + Export for Disposal – Import for Disposal |
| Disposal Tonnage Reduction | = | 2008 Disposal Tons – Current Year (2019) Disposal Tons |
| % Disposal Reduction | = | $\frac{2008 \text{ Disposal Tons} - \text{Current Year (2019) Disposal Tons}}{2008 \text{ Disposal Tons}}$ |

Progress in Meeting Current Disposal Reduction Milestone

Total disposal in 2019 was 5,510,000 tons, a decrease of 1,040,000 tons, or 16 percent, from 2008.

Solid Waste Management Overview

Table 2 highlights how solid waste disposal changed from 2018 to 2019, measured in tonnage and percent change. From 2018 to 2019, total disposal decreased by 3 percent. Of the total waste that required disposal, 3,870,000 tons were disposed in-state, of which 880,000 tons were land filled and 2,990,000 tons were combusted. Massachusetts collectively exported 1,970,000 tons for disposal and imported 330,000 tons, and thus was a net exporter of about 1,640,000 tons of waste requiring disposal. See Table 6 for a more detailed picture of disposal import and export data by state.

| 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% |

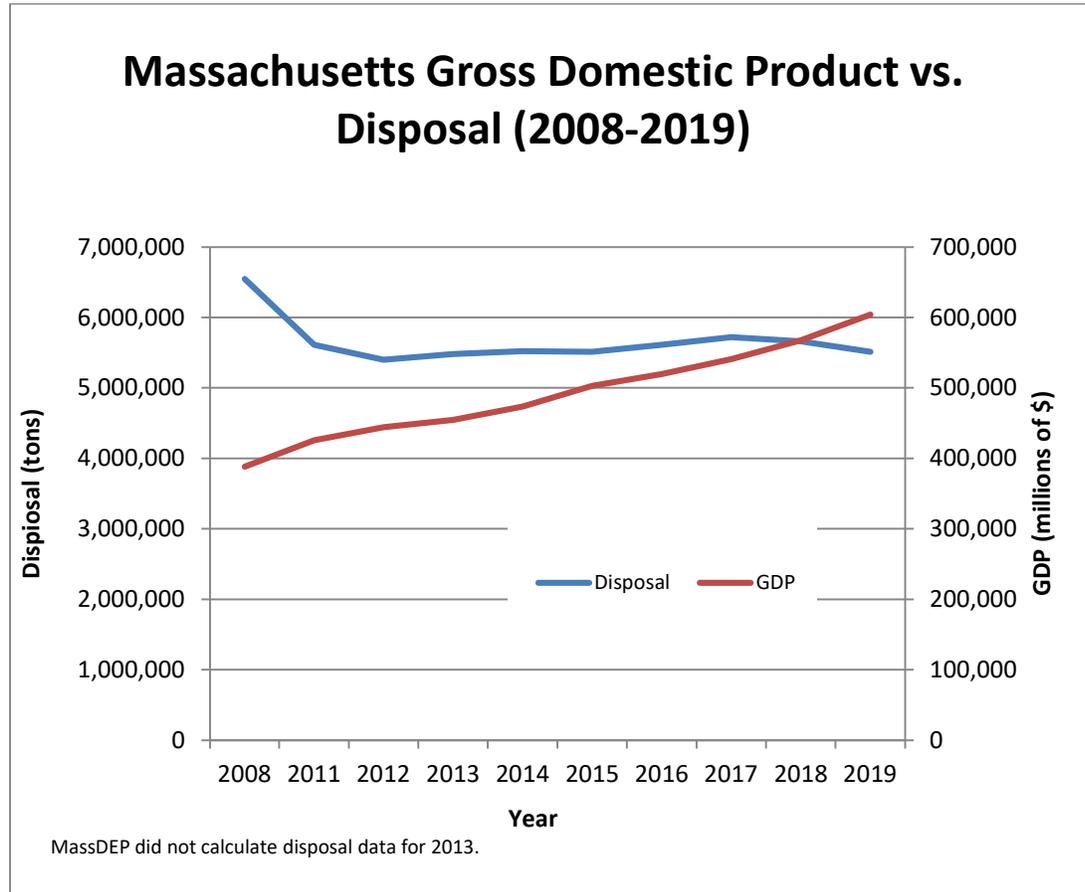
Note: % Change is calculated based on the rounded amounts in this table. Percentages may not add exactly to 100% due to rounding.

Table 3 presents solid waste disposal data from 2010-2019, excluding 2013, when MassDEP did not publish statewide solid waste data. Tables 3 and 4 also show the Master Plan baseline year of 2008 for comparison purposes. Table 4 shows how municipal solid waste (MSW) and non-MSW disposal changed from 2010 through 2019. Total MSW disposal decreased by 260,000 tons from 2018-2019, and total non-MSW disposal increased by 30,000 tons.

| 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 |

| Table 4 MSW and NON MSW Disposal 2010-2019 | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
| | 2010 | 2011 | 2012 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | % change vs 2018 |
| Total Disposal (Tons) | 5,440,000 | 5,620,000 | 5,390,000 | 5,510,000 | 5,510,000 | 5,620,000 | 5,720,000 | 5,650,000 | 5,490,000 | -0.03 |
| MSW | 4,700,000 | 4,880,000 | 4,680,000 | 4,640,000 | 4,670,000 | 4,600,000 | 4,560,000 | 4,510,000 | 4,300,000 | -0.05 |
| Non-MSW | 740,000 | 740,000 | 710,000 | 870,000 | 840,000 | 1,020,000 | 1,160,000 | 1,140,000 | 1,190,000 | 0.04 |

Comparing Disposal Trends to State Economic Trends



The chart above gives a visual representation of Massachusetts waste disposal totals from 2008-2019 in the context of the state's Gross Domestic Product (GDP) over the same time frame, measured in millions of current dollars. While GDP has grown by 55 percent from 2008-2019, disposal decreased by 16 percent during that same period. From 2018 to 2019, GDP increased by 7 percent and disposal decreased by 3 percent. Note that the 2013 disposal data in Table 5 below is estimated based on averaging 2012 and 2014 disposal.

Table 5: Gross Domestic Product by State (millions of current dollars)

| | 2008 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | % change vs. 2008 | % change vs. 2018 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|-------------------|
| GDP (millions of dollars) | 388,583 | 425,593 | 444,330 | 454,346 | 473,454 | 502,678 | 519,741 | 540,949 | 567,255 | 604,208 | 55% | 7% |
| Total Disposal (tons) | 6,550,000 | 5,610,000 | 5,400,000 | 5,480,000 | 5,520,000 | 5,510,000 | 5,610,000 | 5,720,000 | 5,660,000 | 5,510,000 | -16% | -3% |

Accessed from the BEA website - <https://bea.gov/regional/index.htm> - July 2020

Disposal Import/Export Data for 2018-2019

Table 6 shows MSW and construction and demolition debris (C&D) data exported and imported for disposal by state. The export and import data for Massachusetts was collected from annual facility reports (AFR) submitted to MassDEP and from direct correspondence with other states. In some instances, the export data provided in the AFR differed from that reported from other states. In order to calculate the most inclusive estimate of export, the higher number from the two

sources was used. For example, if an AFR reported that Massachusetts sent Connecticut 10,000 tons of MSW, and Connecticut reported receiving 29,000 tons of MSW from Massachusetts, 29,000 tons of export was used.

Table 6 Disposal Import/Export Data by State (tons): 2018-2019

| MSW Exported | | | C&D Exported | | |
|---------------------|----------------|----------------|-------------------------|----------------|----------------|
| State | 2018 | 2019 | State | 2018 | 2019 |
| AL | - | 959 | CT | - | 18 |
| CT | 1,857 | 12,200 | ME | 20,647 | 209 |
| ME | 40,762 | 27,652 | NH | 108,147 | 29,959 |
| MI | - | 86 | NY | 77,037 | 63,899 |
| NH | 388,499 | 382,764 | OH | 556,091 | 617,597 |
| NY | 164,743 | 287,255 | RI | 11,474 | - |
| OH | 140,229 | 38,038 | VA | - | 13,093 |
| RI | - | - | VT | - | 457 |
| SC | - | 51,345 | TOTAL | 773,396 | 725,232 |
| VA | 15,966 | 21,935 | | | |
| TOTAL | 752,056 | 822,234 | | | |

| MSW Imported | | | C&D Imported | | |
|---------------------|----------------|----------------|-------------------------|--------------|---------------|
| State | 2018 | 2019 | State | 2018 | 2019 |
| CT | 93,516 | 44,851 | CT | 596 | 1,407 |
| ME | 52 | 6 | ME | 79 | 1 |
| NH | 290,444 | 89,231 | NH | 6,219 | 13,947 |
| NY | 33,970 | 6,564 | NY | 1 | - |
| RI | 191,336 | 163,720 | RI | 643 | 532 |
| VT | 2,012 | 2,620 | VT | 0 | 16 |
| TOTAL | 611,330 | 306,992 | TOTAL | 7,538 | 15,903 |

Management of Ash from Municipal Waste Combustors

Table 7 shows the amount of ash generated by individual MWCs and where it was disposed, as well as the amount of metal recovered from each. Table 7A shows the Massachusetts landfills accepting municipal waste combustion (MWC) ash and their anticipated lifespan according to current permit conditions.

| Combustion Facility | Ash Disposed (tons) | Disposal Facilities | Pre-Combustion Metal Recovery (tons) | Post-Combustion Metal Recovery (tons) |
|----------------------------|----------------------------|-------------------------------|---|--|
| Haverhill | 151,230 | Ward Hill, Haverhill | 175 | 15,033 |
| Millbury | 206,665 | Shrewsbury | 55 | 9,339 |
| North Andover | 98,394 | Shrewsbury | | 7,762 |
| Pittsfield | 6,100 | Bondi's Island, Springfield | | 2,187 |
| Saugus | 110,068 | Saugus, Shrewsbury | | 6,946 |
| SEMASS | 182,568 | Bourne, Carver/Marion/Wareham | 28,769 | 10,940 |
| Springfield | 36,901 | Bondi's Island, Springfield | 167 | 4,425 |
| Totals | 791,926 | | 29,166 | 56,632 |

| Landfill | Projected Closure Year |
|---------------------------|-------------------------------|
| Bondi Island, Springfield | 2030 |
| Carver Marion Wareham | 2020 |
| Ward Hill Neck, Haverhill | 2021 |
| Peabody | 2025 |
| Wheelabrator Saugus | 2022 |
| Wheelabrator Shrewsbury | 2028 |

Rail Transfer Capacity

Table 8 illustrates the growing trend of increased rail disposal capacity in Massachusetts, including the current permit status, tons/day, tons/year, and types of waste accepted.

| Facility Name | Region | Town | Current Status | Tons/Day | Tons/Year | Waste |
|--|--------|-------------|------------------|---------------|------------------|----------|
| Champion City Recovery | SERO | Brockton | Operating | 1,000 | 286,000 | C&D |
| Devens Recycling Center | CERO | Devens | Operating | 1,500 | 390,000 | MSW, C&D |
| Lenox Valley Waste Transfer Facility | WERO | Lenoxdale | Operating | 198 | 53,262 | MSW, C&D |
| McNamara Transfer Station | WERO | Springfield | Operating | 699 | 181,740 | MSW, C&D |
| New England Waste Disposal | SERO | Taunton | Operating | 940 | 244,400 | MSW, C&D |
| Tri-County Recycling | WERO | Ware | Operating | 750 | 195,000 | C&D |
| Trojan Recycling | SERO | Brockton | Operating | 500 | 140,400 | MSW, C&D |
| Upper Cape Regional Transfer Station | SERO | Falmouth | Operating | 286 | 74,360 | MSW, C&D |
| Western Recycling | WERO | Wilbraham | Operating | 645 | 167,700 | MSW, C&D |
| Yarmouth-Barnstable Regional Rail Transfer Station | SERO | Yarmouth | Operating | 530 | 137,800 | MSW |
| Casella | WERO | Holyoke | Permitted | 1,250 | 382,500 | MSW, C&D |
| Howard Transfer Station | NERO | Roxbury | Permitted | - | - | - |
| United Materials Management of Leominster | CERO | Leominster | Permitted | 1,000 | 300,000 | MSW, C&D |
| Wood Recycling, Inc. | NERO | Peabody | Permitted | - | - | - |
| Parallel Products of New England | SERO | New Bedford | Seeking approval | 1,500 | 390,000 | MSW, C&D |
| TLA Holbrook | SERO | Holbrook | Seeking Approval | 1,000 | 260,000 | MSW |
| Totals | | | | 10,099 | 2,721,422 | |

Waste Management Capacity Projections

The disposal capacity projections in Table 9 reflect either actual permitted capacity, approved capacity contingent on receiving permits, or capacity based on facility contract commitments. However, some landfills may take in less than their permitted tonnage in a particular year. In these cases, capacity for a particular landfill may last beyond the date shown in these projections. In other cases, a landfill may choose to accept a different material than MSW, such as municipal waste combustion ash, so that a portion of this permitted capacity may not be available for MSW. MassDEP attempts to take these factors into account by projecting only the percent of potential landfill capacity that is actually used for MSW and C&D disposal. The combustion capacity is shown as level based on permit limits, although this actual amount managed will always be somewhat lower than these limits.

The waste management capacity projections shown in Table 10 show two scenarios:

1. Baseline Disposal Tonnage – Assumes that disposal tonnage remains at 2019 levels through 2030.
2. Reduced Disposal Tonnage – Assumes that disposal tonnage will decrease in line with achieving the proposed 2030 disposal reduction goal of 4,000,000 tons.

| 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 |
| ADJUSTED TOTAL COMBUSTION CAPACITY* | | | | 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. | | | | | | | | | | | | | | |

| 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. | | | | | | | | | | | | |

Landfill Cover Material

Table 11 shows the amount of materials that Massachusetts landfills reported using as cover material in 2019. This material is not included in the disposal data shown earlier in this report.

| Table 11: Landfill Cover Material Use in 2019 | |
|--|----------------|
| Material Type | Tons |
| Contaminated Soil | 486,501 |
| Auto Shredder Residue/Auto Fluff | 100,659 |
| Soil/Sand | 77,598 |
| Bottom Ash | 65,177 |
| WWTP Grit | 20,750 |
| C&D Fines | 19,143 |
| Other | 17,221 |
| Street Sweepings | 15,673 |
| Compost | 9,126 |
| Cullet (crushed glass) | 5,554 |
| Wood Chips | 4,312 |
| Foundry Sand | 2,814 |
| Sludge Ash | 1,835 |
| C&D Residuals | 109 |
| Total | 826,472 |