

I. Disposal Activities

Table 1. Status of Vermont landfills that were permitted for waste acceptance in 2018

Solid Waste Landfills	Location	Status	Permitted Fill Rate (tons/year)
New England Waste Services, Vermont (NEWSVT): Phase IV: Cells 1-4	Coventry	Operating	600,000
Salisbury Landfill	Salisbury	Operating, unlined	1,000
Northwest Solid Waste District – Sheldon: Cell 1	Sheldon	Permitted, no current plans for construction, not operating	20,000

Table 2. In-state and Out-of-State (OOS) materials disposed *within* Vermont landfills, as reported in 2018

	Total Tons (as reported by disposal facilities)	OOS Tons	VT Tons (Total tons minus OOS tons)
MSW	379,210	---	379,210
C&D	7,025	7,005	20
Sludge (WWTP)	44,854	32,086	12,767
Asbestos	36,604	34,171	2,432
Ash	6,680	6,674	5
Contaminated Soil	14,946	12,695	2,250
Sewer Grit	960	126	834
Paper Sludge	2,616	---	2,616
Medical Waste	110	---	110
Other	19,418	11,682	7,736
TOTAL	512,421	104,440	407,981

Table 3. Solid waste sourced in Vermont but sent for management at an Out-of-State facility in 2018

	Massachusetts	New Hampshire	New York	Quebec	Total
MSW	352	38,600	72,463	---	111,415
C&D	---	10,782	4,520	2,956	18,258

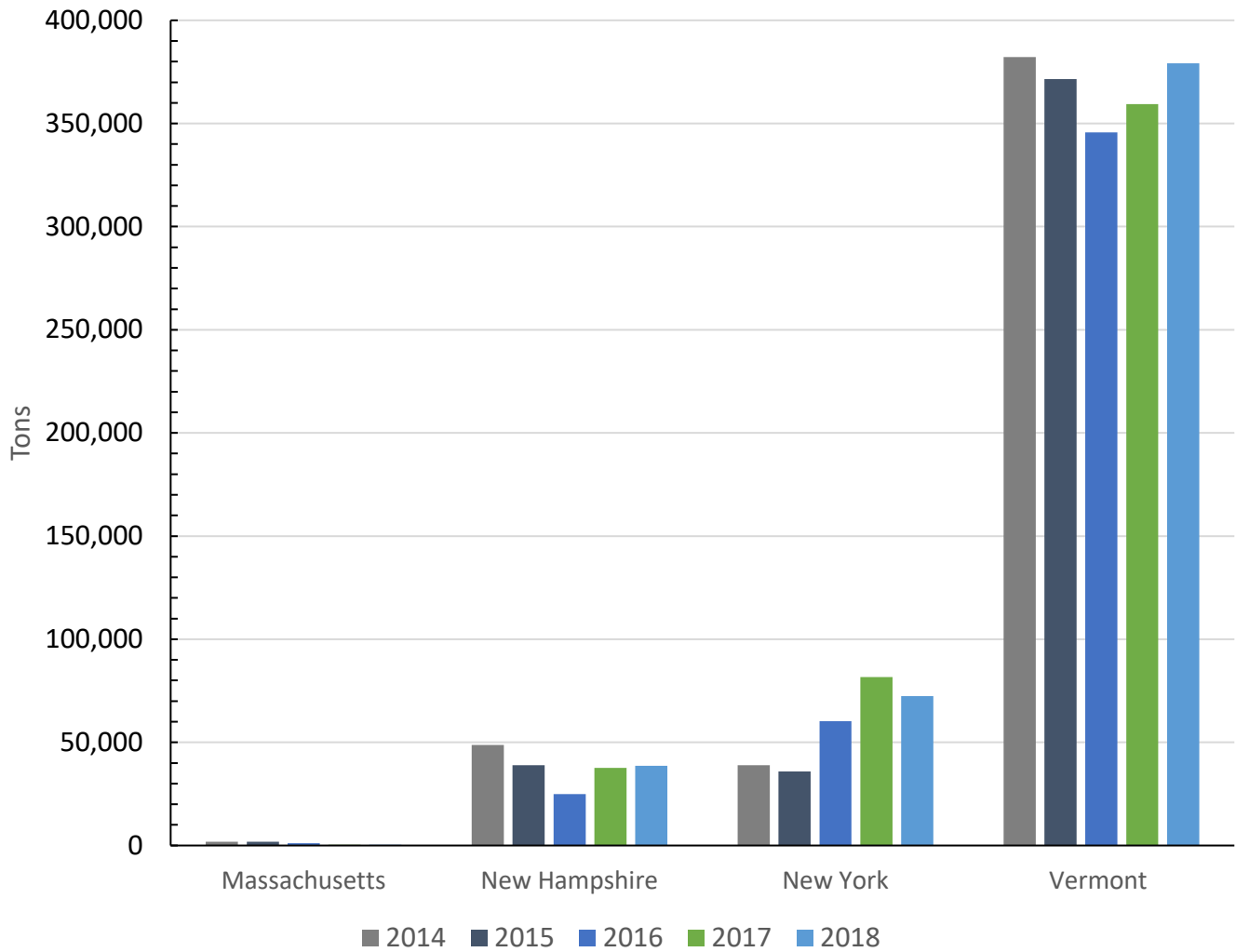


Figure 1: Destination of disposed MSW that was generated in Vermont in 2018, with recent years for comparison.

Table 4. Beneficial use of solid waste materials within Vermont landfill operations in 2018

Material	Use	Tonnage
Paper Sludge	Landfill Alternative Daily Cover	87
Contaminated Soils	Landfill Alternative Daily Cover	21,880
Sludge – cut with soil	Landfill Alternative Daily Cover	4,710
Asphalt, Brick, Concrete	Landfill Road Base	281
Processed C&D	Landfill Road Base	2,542
Sawdust	Landfill Road Base	772
Mixed, Crushed Glass	Landfill Road Base	3,639
Total		33,911

Table 5. Adjustment of MSW tonnage for estimated C&D component

	Reported Tonnages	C&D tonnage (11.1% of reported MSW)	Remaining MSW Tonnage
Vermont MSW In-state Disposal	379,210	42,092	337,118
Vermont MSW Out-of-State Disposal	111,415	12,367	99,048
Total Vermont MSW Disposal			436,166

II. Diversion Activities

Table 6. Summary of Vermont's 2018 diversion activities

(in tons)	Fibers	Containers	Single Stream	C&D	Scrap Metal	Organics	Foodbank Food Rescue	Miscellaneous
A- From Reporting Facility to Market	81,164	12,975	692	10,441	10,686	14,019		94
B- Estimate of Direct to Broker or Market (Economic Recycling)	20,707 [†]	17,480* 2,686 [†]			1,616 [†]	2,552 [†]		1,159 [†]
C- Reported Reuse Activities	151	4,164		10			3,911	417
D – Estimated Household Composting						16,434 [§] 35,879 [†]		
TOTALS	102,022	37,305	692	10,451	12,302	68,884	3,911	1,670
	A + B + C + D = 237,237							

* Denotes an estimate derived from the System Analysis of the Impact of Act 148 on Solid Waste management in Vermont (2013, DSM Environmental Services, Inc.)

[†] Denotes an estimate derived from the 2018 Vermont Waste Characterization Report (2018, DSM Environmental). See above descriptions of the diversion groups for details.

[‡] Denotes values determined from tonnages provided by the Vermont Foodbank.

[§] Denotes a leaf and yard waste estimate derived from the Vermont's Municipal Solid Waste Diversion Rate 2001 study (2002, DSM Environmental). See above descriptions of the diversion groups for details

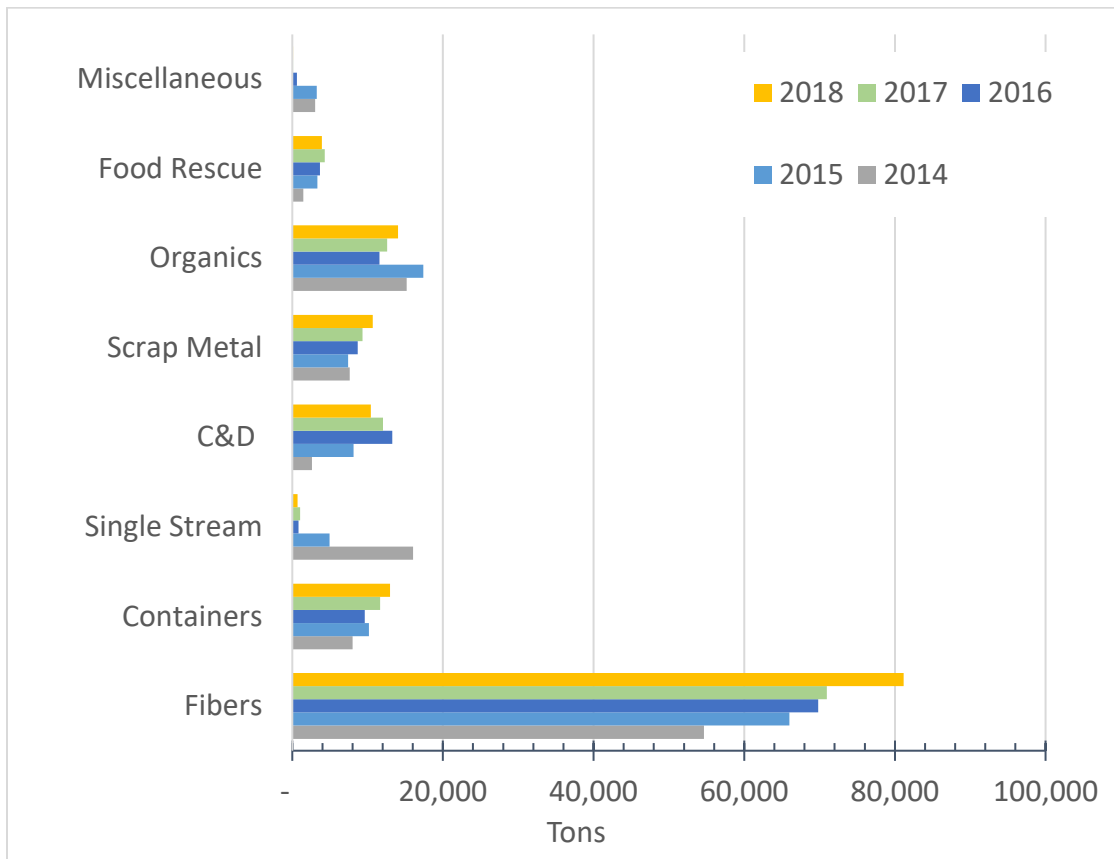


Figure 2: 2014-2018 comparison of materials marketed directly from Vermont solid waste facilities (Group A from Table 6 and Food Rescue).

III. Total Municipal Solid Waste Generation and Summary

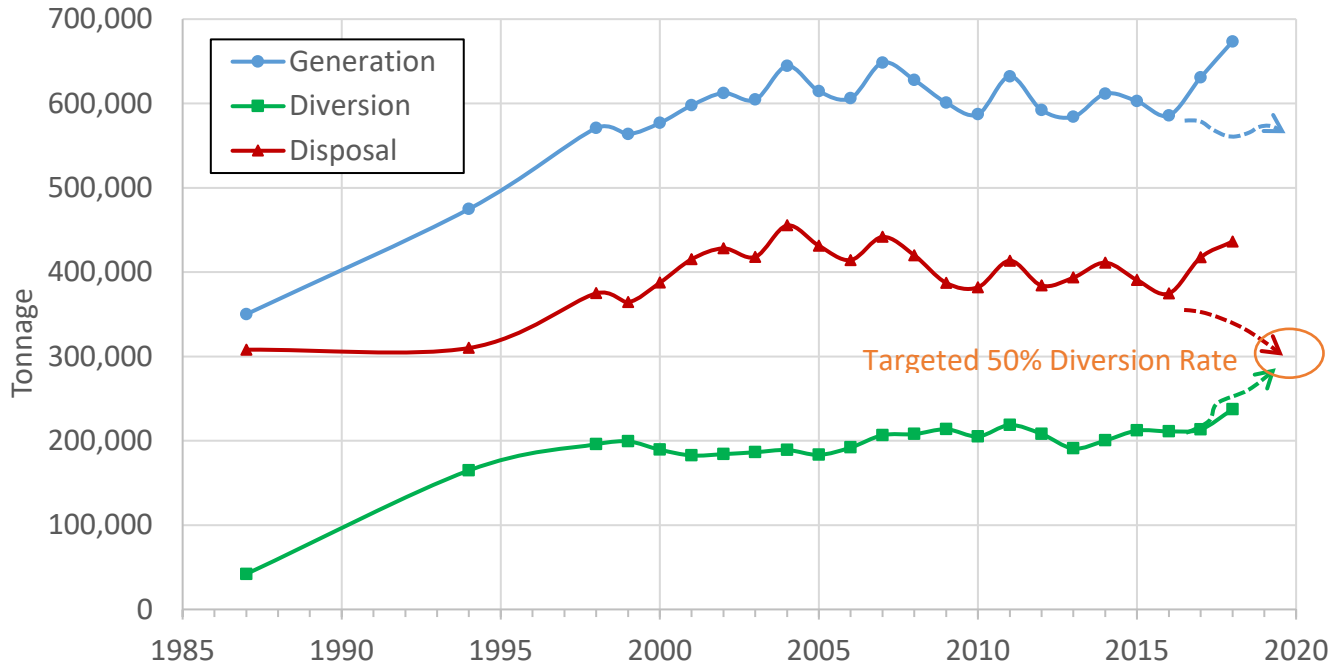


Figure 3: Projections of municipal solid waste generation, diversion, and disposal with the implementation of Universal Recycling over coming years.

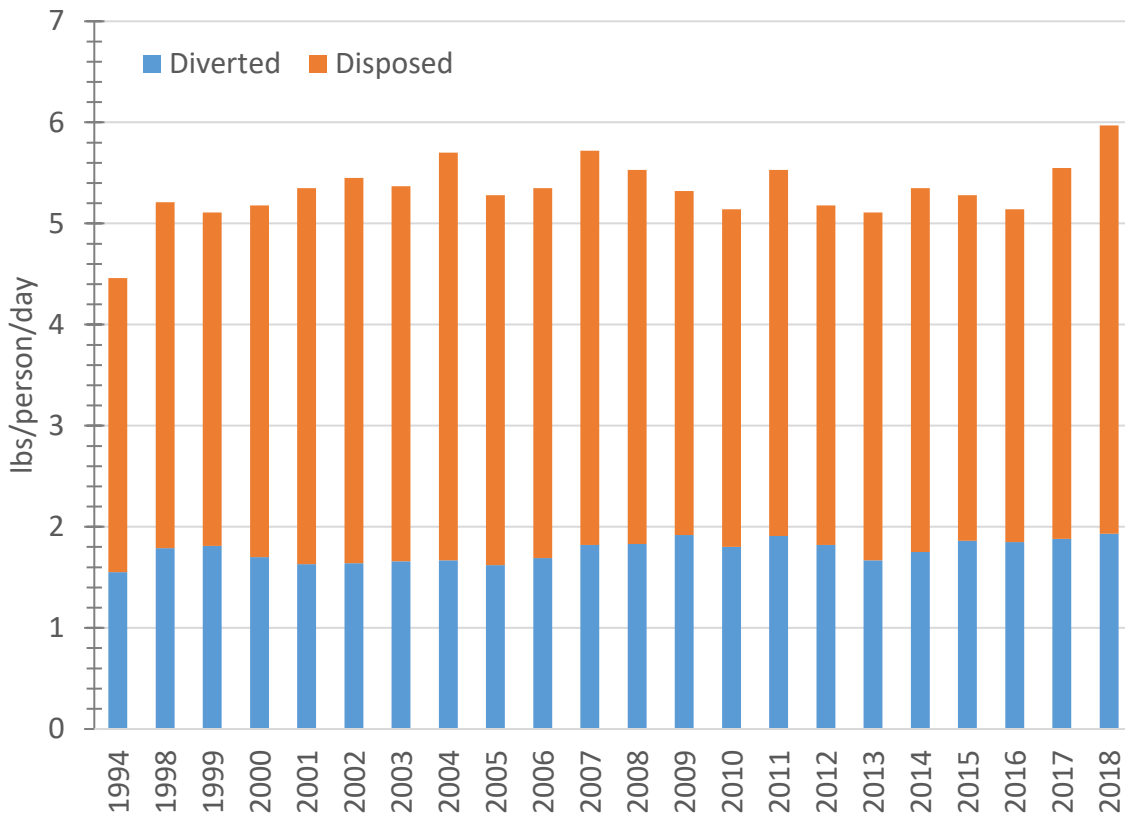


Figure 4: Pounds of waste generated per day per person (disposed + diverted) by Vermonters.

Table 7. Vermont generation, diversion and disposal totals for municipal solid waste. Includes tonnages, per capita breakdowns and percentage rates.

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Generation	569,612	609,497	579,689	571,446	613,517	592,981	566,042	552,297	597,254	557,302	584,235	611,472	602,617	585,789	630,851	673,403
Diversion	151,577	154,217	148,459	157,173	171,818	173,024	178,796	170,326	183,737	173,258	190,797	200,272	212,065	211,152	213,449	237,237
Disposal	418,035	455,281	431,230	414,273	441,699	419,957	387,246	381,971	413,517	384,044	393,438	411,200	390,552	374,637	417,402	436,166
Population [1]	617,101	618,794	619,736	620,778	621,254	621,270	621,750	625,741	626,592	625,953	626,630	626,562	626,042	624,594	623,657	626,299
Per Capita MSW Generation (Tons/Year)	0.92	0.98	0.94	0.92	0.99	0.95	0.91	0.88	0.95	0.89	0.93	1.0	0.96	0.94	1.01	1.08
(Pounds/Day)	5.06	5.40	5.13	5.04	5.41	5.23	4.99	4.84	5.22	4.88	5.11	5.35	5.27	5.14	5.54	5.89
Per Capita MSW Diversion (Tons/Year)	0.25	0.25	0.24	0.25	0.28	0.28	0.29	0.27	0.29	0.28	0.30	0.32	0.34	0.34	0.34	0.38
(Pounds/Day)	1.35	1.37	1.31	1.39	1.52	1.53	1.58	1.49	1.61	1.52	1.67	1.75	1.86	1.85	1.88	2.08
Per Capita MSW Disposal (Tons/Year)	0.68	0.74	0.70	0.67	0.71	0.68	0.62	0.61	0.66	0.61	0.63	0.66	0.62	0.60	0.67	0.70
(Pounds/Day)	3.71	4.03	3.81	3.66	3.90	3.70	3.41	3.34	3.62	3.36	3.44	3.60	3.41	3.29	3.67	3.82
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Generation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Diversion	27%	25%	26%	28%	28%	29%	32%	31%	31%	31%	33%	33%	35%	36%	34%	35%
Disposal	73%	75%	74%	72%	72%	71%	68%	69%	69%	69%	67%	67%	65%	64%	66%	65%

[1] Population Estimate, Vermont. US Census: <http://census.gov>

IV. Other Material Management Activities – Not included in disposal or diversion tonnages

Table 8. Summary of historic hazardous waste collections and participation

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007
Total HHW and CEG tons	906	865	1,069	899	452	525	460	467	489	566	436	444
% participating VT households	9%	10%	8%	6%	7%	7%	9%	7%	6%	8%	9%	7%
Pounds collected per household (avg.)	60	60	86	131	102	62	34	47	46	45	30	39