

I. Disposal Activities

Table 1. Status of Vermont landfills that were permitted for waste acceptance in 2017

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 2017

	Total Tons	OOS Tons	VT Tons
	(as reported by disposal facilities)		(Total tons minus OOS tons)
MSW	359,426	---	359,426
C&D	7,765	7,755	10
Sludge (WWTP)	28,297	15,228	13,069
Asbestos	36,759	35,152	1,607
Ash	1,031	1,031	---
Contaminated Soil	51,427	50,945	482
Sewer Grit	959	43	916
Paper Sludge	1,741	---	1,741
Medical Waste	97	---	97
Other	6,214	2,598	3,615
TOTAL	493,716	112,753	380,963

Table 3. Solid waste sourced in Vermont but sent for management at an Out-of-State facility in 2017

	Massachusetts	New Hampshire	New York	Quebec	Total
MSW	331	37,609	81,580		119,520
C&D		13,120	3,091	5,644	21,855

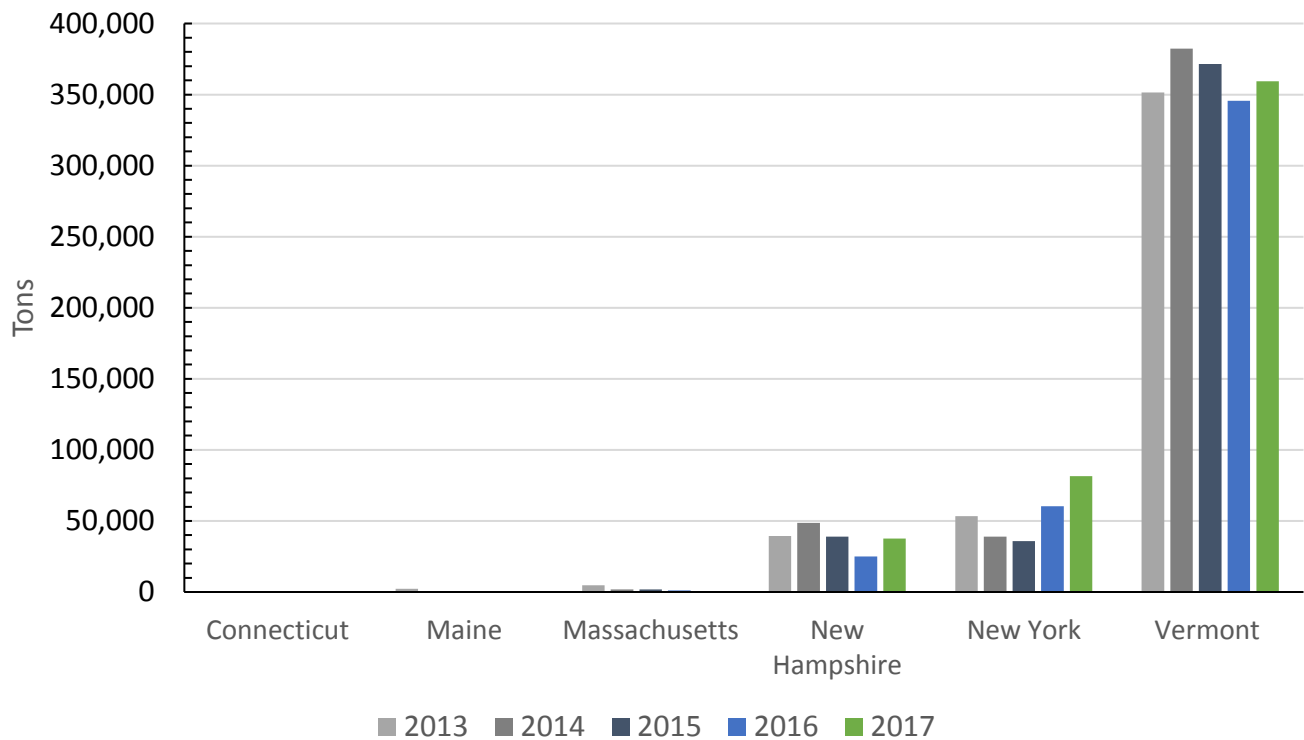


Figure 1: Destination of disposed MSW that was generated in Vermont in 2017, with recent years for comparison.

Table 4. Beneficial use of solid waste materials within Vermont landfill operations in 2017

Material	Use	Tonnage
Paper Sludge	Landfill Alternative Daily Cover	148
Contaminated Soils	Landfill Alternative Daily Cover	40,530
Sludge – cut with soil	Landfill Alternative Daily Cover	7,901
Processed C&D	Landfill Road Base	1,825
Sawdust	Landfill Road Base	1,977
Total		52,381

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

	Reported Tonnages	C&D tonnage (12.85% of reported MSW)	Remaining MSW Tonnage
Vermont MSW In-state Disposal	359,426	46,186	313,240
Vermont MSW Out-of-State Disposal	119,520	15,358	104,162
Total Vermont MSW Disposal	478,946	61,544	417,402

II. Diversion Activities

Table 6. Summary of Vermont's 2017 diversion activities

(in tons)	Fibers	Containers	Single Stream	C&D	Scrap Metal	Organics	Foodbank Food Rescue	Miscellaneous
A- From Reporting Facility to Market	70,953	11,678	1,044	12,036	9,320	12,613		98
B- Estimate of Direct to Broker or Market (Economic Recycling)	33,495 [†]	17,480* 117 [†]			251 [†]			
C- Reported Reuse Activities	176	6,240		4			4,320 [†]	269
D – Estimated Household Composting						33,355 [†]		
TOTALS	104,624	35,515	1,044	12,040	9,571	45,968	4,320	367
	A + B + C + D = 213,449							

*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 Vermont's Municipal Solid Waste Diversion Rate 2001 study (2002, DSM Environmental). See above descriptions of the diversion groups for details.

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

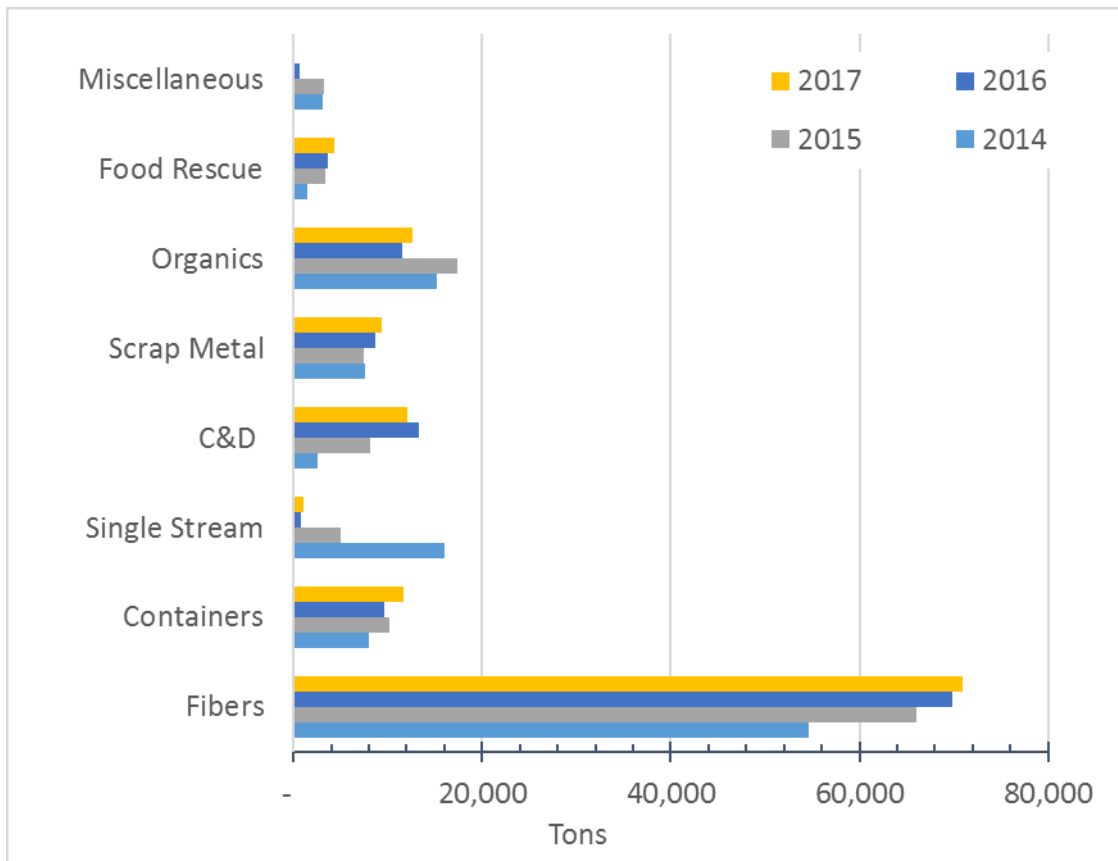


Figure 2: 2014-2017 comparison of materials marketed directly from Vermont solid waste facilities (Group A from Table 6 and Food Rescue).

III. Total Municipal Solid Waste Generation and Summary

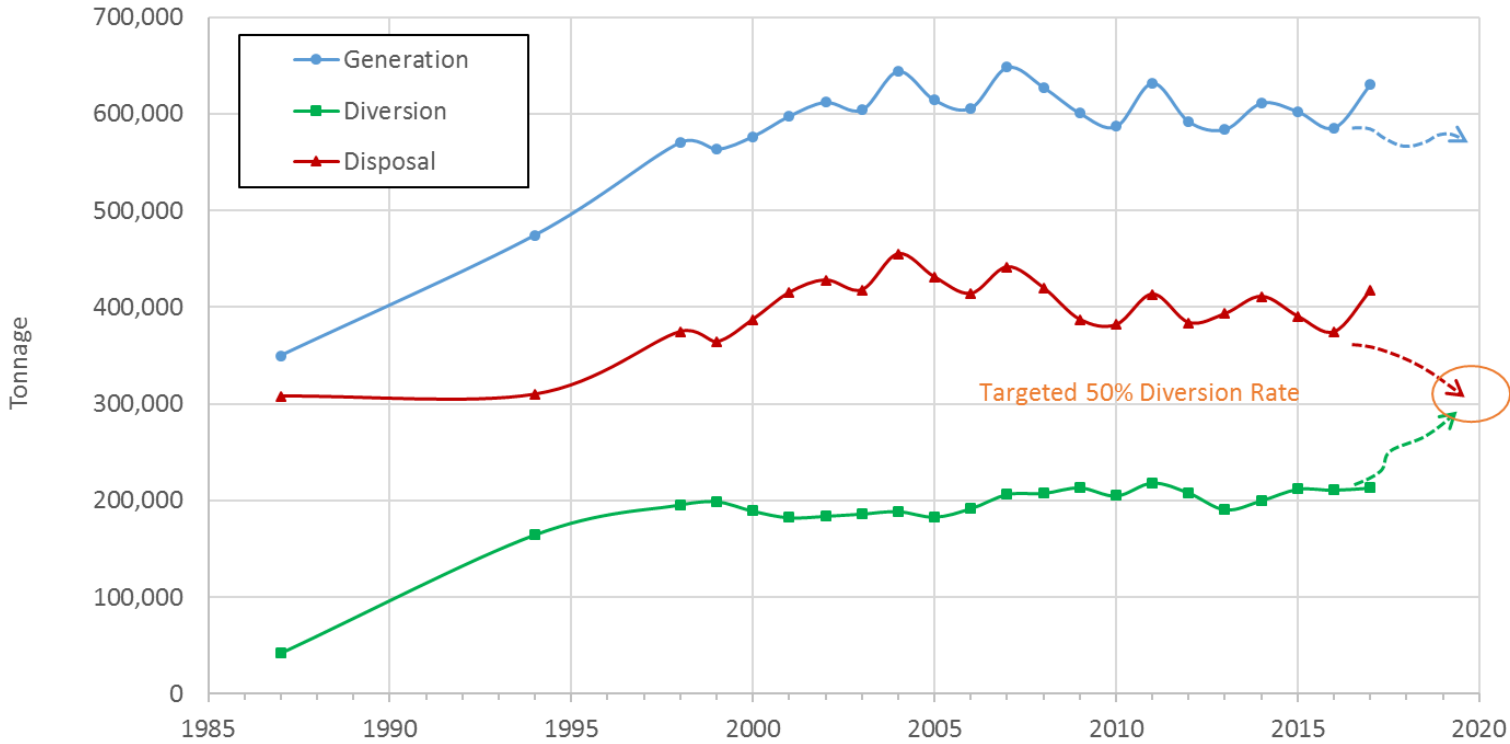


Figure 3: Projections of municipal solid waste generation, diversion, and disposal with the implementation of Universal Recycling over coming years.

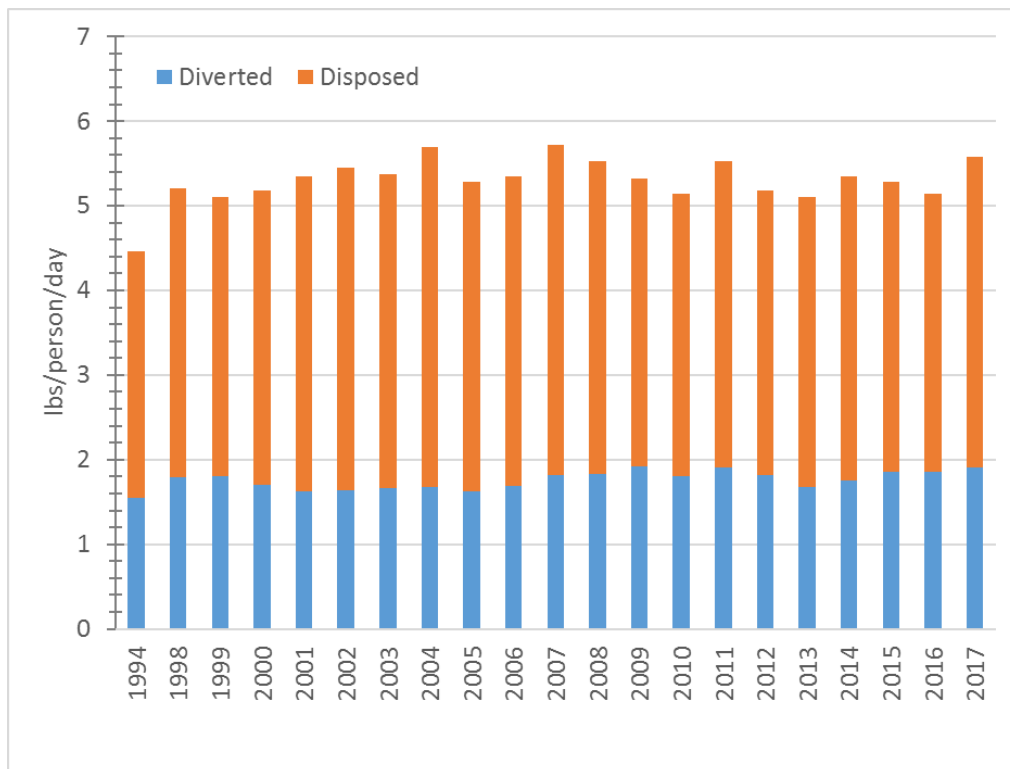


Figure 4: Pounds of waste generated per day per person (disposed + diverted) by Vermonters.

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

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Generation	577,449	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
Diversion	149,319	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
Disposal	428,130	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
Population [1]	615,250	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
Per Capita MSW Generation (Tons/Year)	0.94	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
(Pounds/Day)	5.14	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
Per Capita MSW Diversion (Tons/Year)	0.24	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
(Pounds/Day)	1.33	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
Per Capita MSW Disposal (Tons/Year)	0.70	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
(Pounds/Day)	3.81	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
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Generation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Diversion	26%	27%	25%	26%	28%	28%	29%	32%	31%	31%	31%	33%	33%	35%	36%	34%
Disposal	74%	73%	75%	74%	72%	72%	71%	68%	69%	69%	69%	67%	67%	65%	64%	66%

[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

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