

I. Disposal Activities

Table 1. Status of Vermont landfills that were permitted for waste acceptance in 2020

Solid Waste Landfills	Location	Status	Permitted Fill Rate (tons/year)
New England Waste Services, Vermont (NEWSVT): Phase VI	Coventry	Operating	600,000
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 2020

	Total Tons (as reported by disposal facilities)	OOS Tons	VT Tons (Total tons minus OOS tons)
MSW	378,307	---	378,307
C&D	12,743	8,823	3,920
Sludge (WWTP)	38,304	24,701	13,602
Asbestos	7,710	6,961	749
Ash	4	0	4
Contaminated Soil	13,593	7,575	6,017
Sewer Grit	1,155	93	1,062
Paper Sludge	2,724	---	2,724
Medical Waste	129	---	129
Other	41,503	35,111	6,392
TOTAL	496,170	83,265	412,905

Table 3. Solid waste sourced in Vermont but sent for management at an Out-of-State facility in 2020

	Massachusetts	New Hampshire	New York	Total
MSW	---	29,601	44,398	73,999
C&D	---	11,831	5,322	17,152

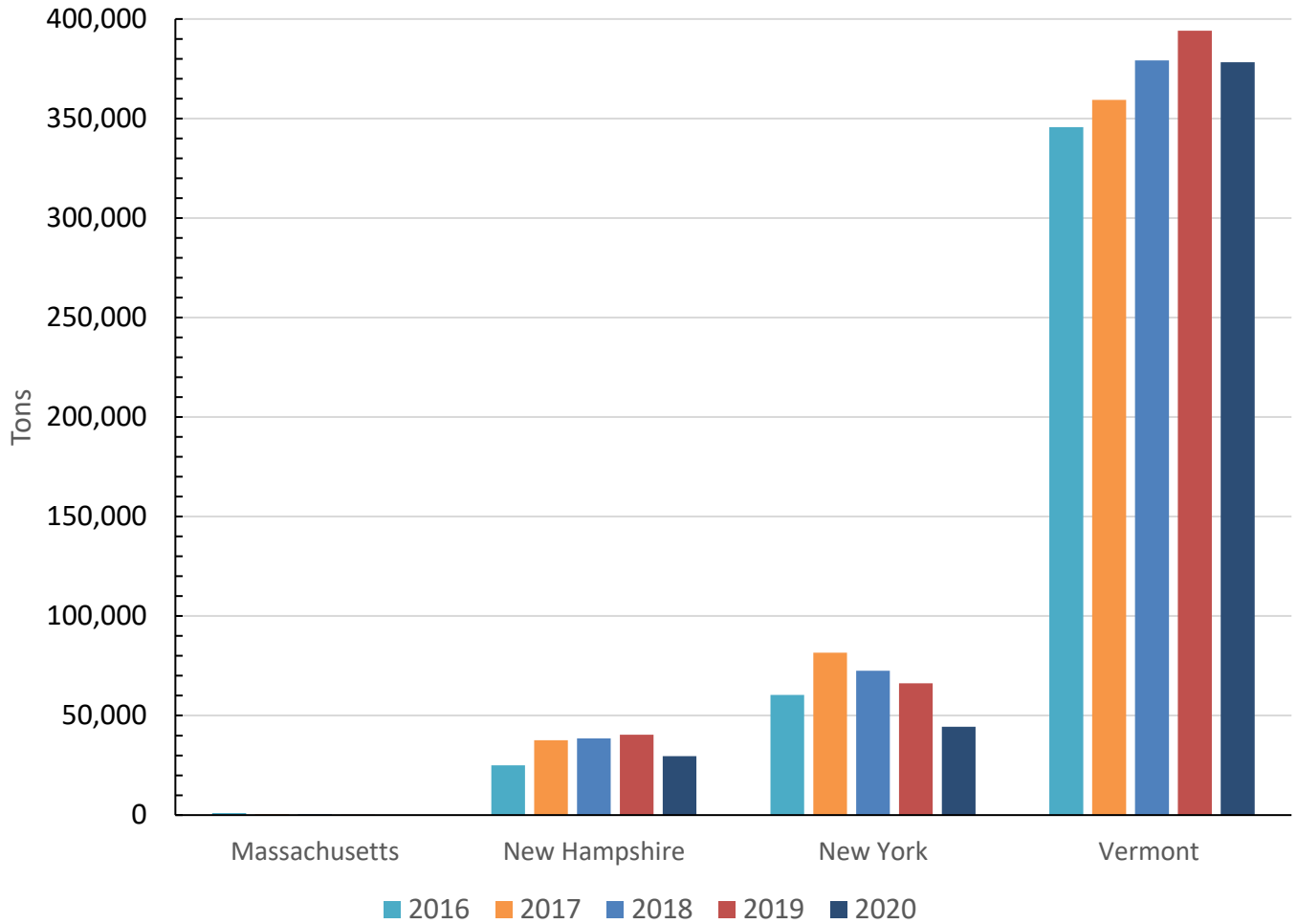


Figure 1: Destination of disposed MSW that was generated in Vermont in 2020, with recent years for comparison.

Table 4. Beneficial use of solid waste materials within Vermont landfill operations in 2020

Material	Use	Tonnage
Paper Sludge	Landfill Alternative Daily Cover	333
Contaminated Soils	Landfill Alternative Daily Cover	6,125
Sludge – cut with soil	Landfill Alternative Daily Cover	2,078
Sand Blast Grit	Landfill Alternative Daily Cover	17
Wood Waste	Landfill Road Base	609
Asphalt, Brick, Concrete	Landfill Road Base	0
Processed C&D	Landfill Road Base	4,095
Sawdust	Landfill Road Base	992
Mixed, Crushed Glass	Landfill Road Base	0
Total		14,249

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	378,307	41,992	336,315
Vermont MSW Out-of-State Disposal	73,999	7,876	65,785
Total Vermont MSW Disposal			402,100

II. Diversion Activities

Table 6. Summary of Vermont's 2020 diversion activities

(in tons)	Fibers	Containers	Single Stream	C&D	Scrap Metal	Organics	Foodbank Food Rescue	Miscellaneous
A- From Reporting Facility to Market	65,651	19,575	1,474	3,724	13,810	12,787		74
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	444	182		65			4,369	107
D- Estimated Household Composting						17,061 [§] 37,246 [†]		
TOTALS	86,802	39,923	1,474	3,789	15,426	69,646	4,369	1,340
	A + B + C + D = 222,769							

* 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

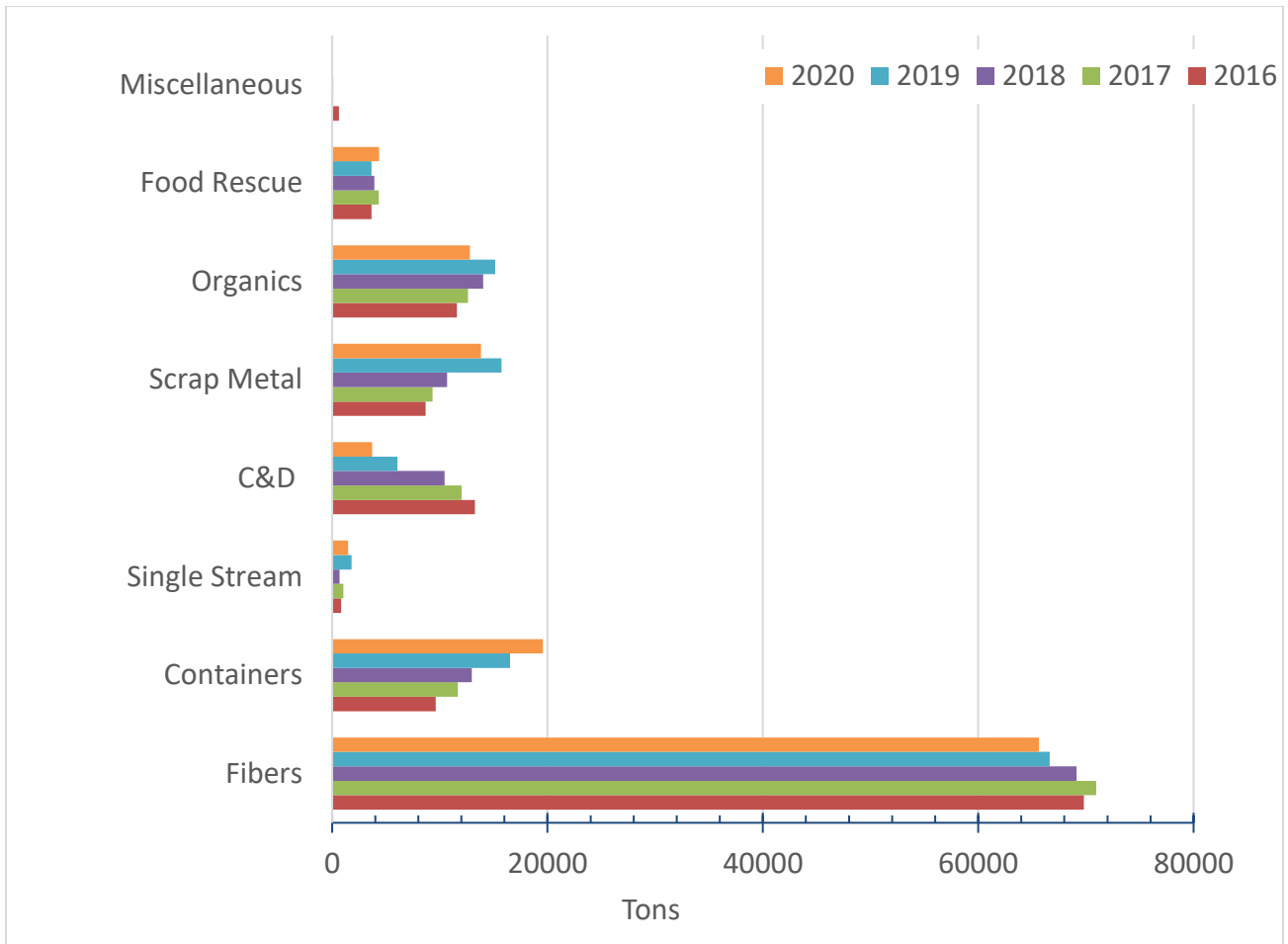


Figure 2: 2016-2020 comparison of materials marketed directly from Vermont solid waste facilities (Group A from Table 6 and Food Rescue).

III. Total Municipal Solid Waste Generation and Summary

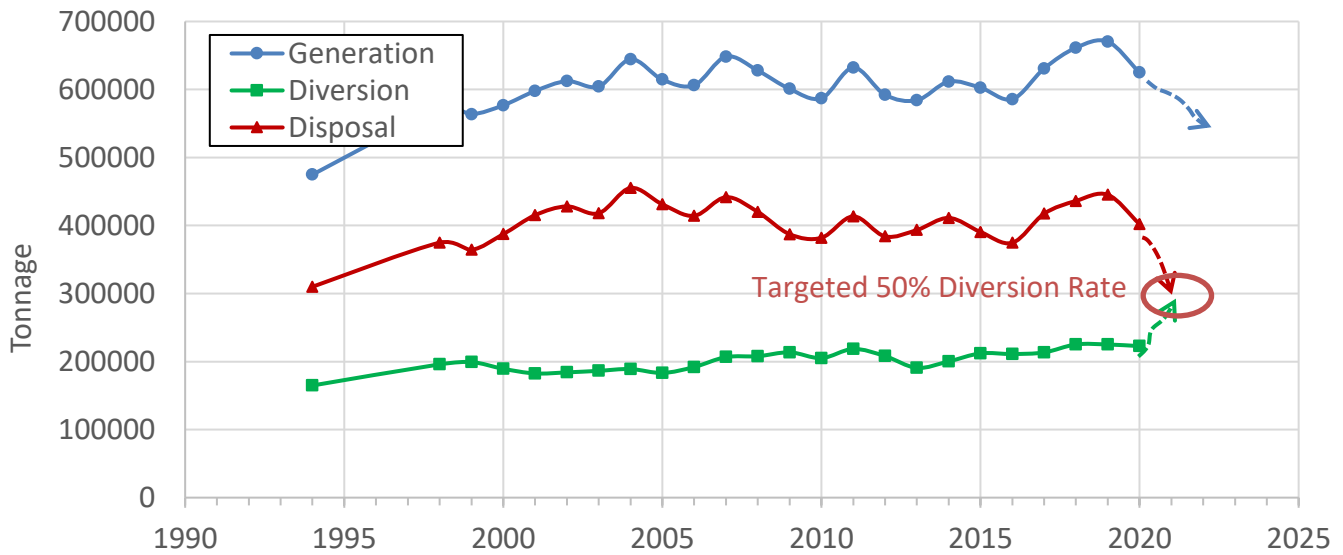


Figure 3: Projections of municipal solid waste generation, diversion, and disposal with the implementation of Universal Recycling over coming years.

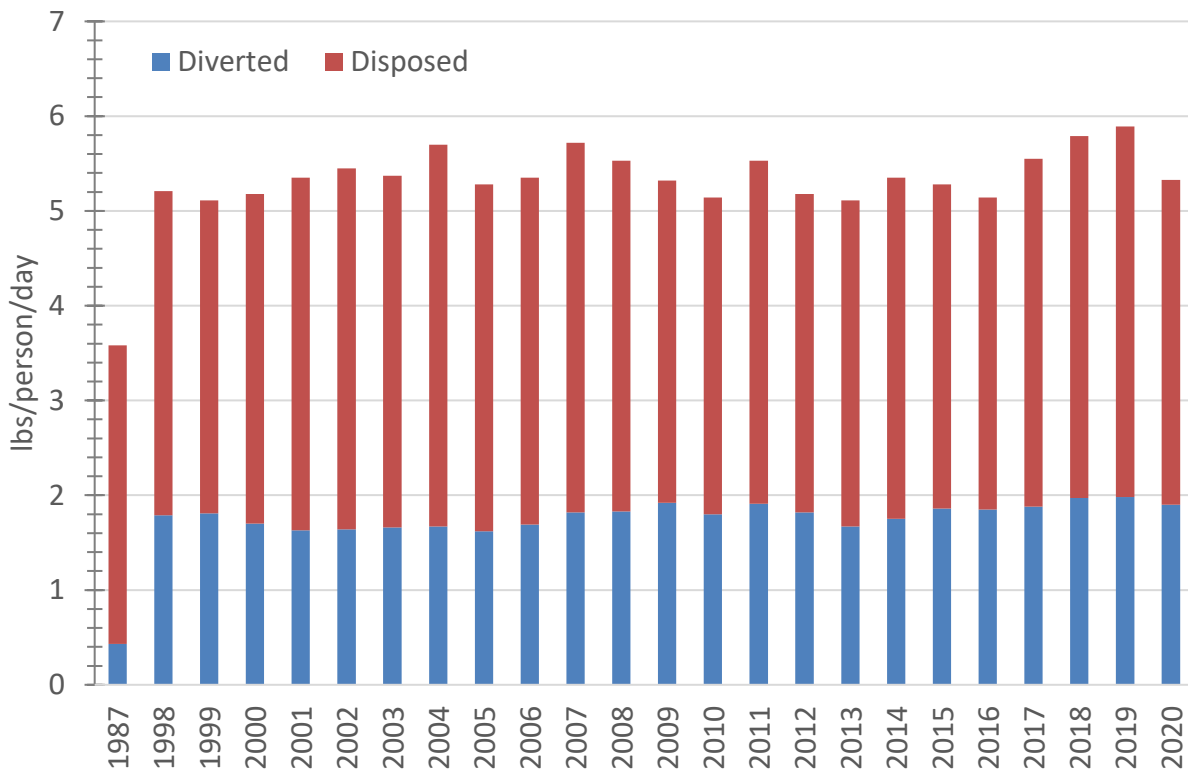


Figure 4: Pounds of waste generated per day per person (disposed + diverted) by Vermonters.

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

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Generation	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	661,385 *673,403	670,348	642,869
Diversion	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	225,219 *237,237	225,122	222,769
Disposal	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	445,226	402,100
Population [1]	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	623,989	643,077
Per Capita MSW Generation (Tons/Year)	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	1.08	0.97
(Pounds/Day)	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	5.88	5.30
Per Capita MSW Diversion (Tons/Year)	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	0.36	0.35
(Pounds/Day)	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	1.97	1.90
Per Capita MSW Disposal (Tons/Year)	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	0.71	0.62
(Pounds/Day)	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	3.91	3.40
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Generation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Diversion	26%	28%	28%	29%	32%	31%	31%	31%	33%	33%	35%	36%	34%	34%	34%	36%
Disposal	74%	72%	72%	71%	68%	69%	69%	69%	67%	67%	65%	64%	66%	66%	66%	64%

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

* There was an error in the 2018 diversion data. The corrected value is above.

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

Table 8. Summary of historic hazardous waste collections and participation

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total HHW and CEG tons	566	489	467	460	525	452	899	1,069	865	906	935	788
% Participating VT Households	8%	6%	7%	9%	7%	7%	6%	8%	10%	9%	11%	7%
Pounds collected per Household (avg.)	45	46	47	34	62	102	131	86	60	60	55	80

Table 9: Summary of historic mercury collections

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
# of Mercury Lamps			125,361	154,157	205,155	233,820	191,060	158,079	209,400	186,652	144,751
# Mercury Thermostats	3,349	3,574	3,036	2,111	2,169	2,000	2,246	2,468	2,369	2,069	1,897

Table 10: Summary of historic electronic collections

	2012	2013	2014	2015	2016	2017	2018	2019	2020
Lbs Electronics	4,819,602	4,865,266	4,888,400	4,897,778	4,814,188	4,312,381	3,685,448	3,460,051	3,028,996

Table 11: Summary of historic battery collections

	2015	2016	2017	2018	2019	2020
Lbs Primary Batteries	3,350	64,366	81,381	94,424	113,451	101,275
Lbs Rechargeable Batteries	36,477	52,617	52,238	51,677	53,426	45,122

Table 12: Summary of historic paint collections

	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Gallons of Paint	60,000	116,691	108,466	96,109	110,567	115,142	99,838