

VERMONT SOLID WASTE GENERATION - SUMMARY 2008

MATERIALS	(TONS)
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MUNICIPAL SOLID WASTE (MSW)	
MSW Materials Diverted (Table 2)	207,854
MSW Materials Disposed (Table 3 or 4)	419,957
TOTAL MSW:	627,811

CONSTRUCTION & DEMOLITION WASTE (C&D) & WOOD	
C&D/Wood Used in Landfills - VT Waste (Table 4B)	10,532
C&D/Wood Used in Landfills - Waste From Other States (Table 4B)	45
C&D Disposed - VT Waste (Tables 4 & 4A)	97,651
C&D Disposed - Waste From Other States (Tables 4 & 4A)	456
Wood Burnt (Table 2 worksheet & Table 3)	25
C&D Unaccounted - Diverted or Disposed (Estimated) ¹	84,041
TOTAL C&D/WOOD:	192,750

OTHER SOLID WASTE (Does Not include Biosolids)	
Other Diverted	-
Other Used in Landfills - VT Waste (Table 4B)	27,262
Other Used in VT Landfills - Waste From Other States (Table 4B)	1,650
Other Disposed - VT Waste (Tables 4 & 4A, see below for biosolids)	8,719
Other Disposed - Waste From Other States (Table 4A)	583
TOTAL OTHER:	38,214

HHW, CEG, MERCURY & ELECTRONICS COLLECTION BY DISTRICTS & TOWNS (Table 7)	
HHW Diverted	364
CEG Diverted	72
Mercury - Products, Debris, Elemental & Lamps	292
Electronics	846
TOTAL HHW & CEG:	1,574

Biosolids	
Beneficial Reuse (Table 6)	17,322
Used in Landfills - VT Biosolids (Table 4B)	-
Used in Vermont Landfills - Biosolids From Other States (Table 4B)	-
Landfilled, Incinerated - Vermont Biosolids (Tables 4A & 6)	31,209
Disposed in VT Landfills - Biosolids From Other States (Table 4A)	6,924
TOTAL BIOSOLIDS:	55,455

TOTAL SOLID WASTE GENERATED (tons) : 915,804

¹ Difference between C&D tonnages reported and estimated C&D Waste Generation rate of of 192,750 tons (1.7# per person per day). Source: 2007 Massachusetts Construction and Demolition Debris industry Study DSM Environmental Services May 16, 2008.
6/23/2009

TABLE 1

**GENERATION , DIVERSION AND DISPOSAL
VERMONT MUNICIPAL SOLID WASTE**

**1987, 1994, 1998 - 2008 (ACTUAL) & 2009 - 2011 (PROJECTIONS)^[1]
(2009-2011 PROJECTION IN ORDER TO REACH 50% DIVERSION RATE)**

MSW Generation, Diversion & Disposal - Actual 1987, 1994, 1998-2008 & Projection For 2009-2011 (Tons)																	
	1987 ^[2]	1994 ^[2]	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Projection 2009	Projection 2010	2011 Projection	50%
Generation	350,000	474,800	570,750	563,564	576,797	597,811	612,279	604,442	644,327	614,519	606,276	648,347	627,811	622,690	624,110	625,806	
Diversion	42,000	164,830	195,930	199,301	189,401	182,562	184,149	186,407	189,047	183,289	192,003	206,648	207,854	256,105	288,117	312,903	
Disposal	308,000	309,970	374,820	364,263	387,396	415,249	428,130	418,035	455,281	431,230	414,273	441,699	419,957	368,591	338,225	312,903	
Population ^[3]	535,000	583,836	600,416	604,683	609,909	612,225	615,250	617,101	618,794	619,736	620,778	621,254	621,270	622,690	624,110	625,806	
Per Capita MSW Generation (Tons/Year)	0.65	0.81	0.95	0.93	0.95	0.98	1.00	0.98	1.04	0.99	0.98	1.04	1.01	1.00	1.00	1.00	
(Pounds/Day)	3.58	4.46	5.21	5.11	5.18	5.35	5.45	5.37	5.71	5.43	5.35	5.72	5.54	5.48	5.48	5.48	
Per Capita MSW Diversion (Tons/Year)	0.08	0.28	0.33	0.33	0.31	0.30	0.30	0.30	0.31	0.30	0.31	0.33	0.33	0.41	0.46	0.50	
(Pounds/Day)	0.43	1.55	1.79	1.81	1.70	1.63	1.64	1.66	1.67	1.62	1.69	1.82	1.83	2.28	2.51	2.74	
Per Capita MSW Disposal (Tons/Year)	0.58	0.53	0.62	0.60	0.64	0.68	0.70	0.68	0.74	0.67	0.67	0.71	0.68	0.59	0.54	0.50	
(Pounds/Day)	3.15	2.91	3.42	3.30	3.48	3.72	3.81	3.71	4.03	3.66	3.66	3.90	3.70	3.20	2.97	2.74	
% of MSW Waste Generation																	
	1987	1994	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	50% Projection	
Generation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Diversion	12%	34.7%	34.3%	35.4%	32.8%	30.5%	30%	31%	29%	30%	32%	32%	33%	41%	46%	50%	
Disposal	88%	65.3%	65.7%	64.6%	67.2%	69.5%	70%	69%	71%	70%	68%	68%	67%	59%	54%	50%	

NOTES:

^[1] MSW generation projection for 2009-2011 is based on the average of the per capita MSW generation rate for 2001 through 2008: 1.0 TON/PERSON/YR. Vermont Population Projections for 2009- 2011 is based on the same rate of changes as 2000- 2008- 1420 people/year.

^[2] Table 1.1, 2001 State of Vermont Revised Solid Waste Management Plan

^[3] In July 2008 the U.S. Census Bureau made adjustments to the Vermont 2000-2007 population estimates. This table has been updated to include the adjusted July 1 estimates for years 2000 through 2007. 2008 - <http://www.census.gov/popest/states/tables/NST-EST2008-01.xls>

TABLE 2
SOLID WASTE DIVERSION - 2008
2008 - ESTIMATED BY MATERIAL TYPE & DIVERSION ACTIVITY

MATERIAL	SOURCE OF MATERIAL						TOTAL (Tons)
	Recycling Facilities ⁽³⁾	Soft Drink and Beer Distributors ⁽¹⁾⁽²⁾ (Broker Direct)	Economic Recycling ⁽⁴⁾ (Direct to Market)	Scrap Metal Facilities	Organics Composting	Reuse Facilities & Programs ⁽⁴⁾	
SINGLE STREAM	4,722						4722
FIBERS	60,391	386	33,495			137	94,409
CONTAINERS	14,556	17,500	117			19	32,192
SCRAP METAL			251	34,830		159	35,240
ORGANIC WASTES					36,112	0	36,112
MISCELLANEOUS	2,998		14			2,167	5,179
Total:	82,667	17,886	33,877	34,830	36,112	2,482	207,854

2008 MSW DISPOSED (tons): 419,957

2008 MSW DIVERSION RATE: 33%

⁽¹⁾ Total includes 13375 tons of deposit return containers processed by Vermont recycling facilities.

⁽²⁾ Data for containers from report titled *Analysis of Vermont's Bottle Bill: Costs, Impacts and Expansion*, Northbridge Environmental Management Consultants, December 2006. Data for fibers from report titled *Vermont's Municipal Solid Waste Diversion Rate 2001*, DSM Environmental Services, September 2002

⁽³⁾ Included in "Scrap Metal Facilities" totals.

⁽⁴⁾ Data from report prepared for the Vermont Department of Environmental Conservation titled *Vermont's Municipal Solid Waste Diversion Rate 2001*, DSM Environmental Services, September 2002

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2008 Table 2 Worksheet using 2008 Quarters data - grouped by containers, fibers and other (tons)

Material Code	Material	MRF Total	TS Direct to Market	Total MRF VT+ TS Direct	Subtract materials from other states into VT MRF system	Subtract materials which are part of Soft Drink and Beer Distributors	Total diverted 2008
AC	Aluminum Cans		0.45				0.45
CN	Cans	2704.09	43.79		-78.39	-1201.37	1468.12
CT	Containers, co-mingled	1862.15	117.52		-389.72		1589.95
GL	Glass	20716.36	206.66		-1255.28	-11450.85	8216.89
HD	HDPE (#2)	1098.91	17.84		-82.24		1034.51
PE	PETE (#1)	2025.75	19.31		-146.84	-722.97	1175.25
PO	Other plastics	1241.11	0		-207.00		1034.11
PM	Mixed #1 & #2		12.8				12.80
RE	Redemption Bags	21.5	2.6				24.10
TC	Tin Cans		0.00				0.00
	TOTAL:	29669.87	420.97	30090.84	-2159.47	-13375.19	14556.18

Material Code	Material	MRF Total	TS Direct to Market	Total MRF VT+ TS Direct	Subtract materials from other states into VT MRF system		Total diverted 2008
BK	Books	120.94	77.41				198.35
BX	Boxboard/Paperboard	1006.34	30.13		-1		1035.47
CC	Corrugated Cardboard	33214.85	283.49		-5275.58		28222.76
FC	Fibers, co-mingled	2308.07	701.46		-160.06		2849.47
MA	Magazines	41					41
NP	Newspapers	25719.58	113		-2552.97		23279.61
OP	Mixed Paper	6683.49	441.88		-2414.82		4710.55
PA	Paper Co-mingled	35.23			-22.9		12.33
WP	White Office Paper	41.29					41.29
	TOTAL:	69170.79	1647.37	70818.16	-10427.33		60390.83

Material Code	Material	MRF Total	TS Direct to Market	Total MRF VT+ TS Direct	Subtract materials from other states into VT MRF system		Total diverted 2008
1S	Contain.&Fibers		2659.84	2659.84	-597.44		4722.24

Material Code	Material	MRF Total	TS Direct to Market	Total MRF VT+ TS Direct	Subtract materials from other states into VT MRF system		Total diverted 2008
AB	Automobile Batteries	13.82	86.75				100.57
AF	Antifreeze	0.48	7.97				8.45
BA	Batteries		0.94				0.94
BL	Ballast						
EL	Electronics	141.03	595.99		-5.64		731.38
EX	Waste Exchange / Reuse		15.94				15.94
FL	Florescent Bulbs	5.02	39.13				44.15
HG	Mercury Products-not f.bulbs		0.96				0.96
LY	Leaf and Yard		23.18				23.18
OR	Other Recyclables						
OT	Other Waste	20.04	0.03		-13.03		7.04
PB	PCB Devices		1.89				1.89
PP	Propane Tanks		9.71				9.71
PT	Paint		66.19				66.19
TX	Textiles	59.15	204.5				263.65

UF	Used Oil Filters	2.1	10.46				12.56
UO	Used Motor Oil	6.53	95.28				101.81
WG	Wood, clean - ground						
WW	Stumps, Brush, Wood		1609.38				1609.38
	TOTAL:	248.17	2768.3	3016.47	-18.67		2997.8

Total MSW Diverted (not including bottle redemption): 82667.05

Other Diverted:

DW	Dry Wall (sheet rock)		19.84				19.84
CR	Con/Demo Debris Recycling		0.49				0.49
IN	Inerts- Concrete, Masonry etc.						
RB	Road, Bridge or Highway Debris		15091.28				15091.28
NF	Non-ferrous Metals						
SA	Salvage		7.19				7.19
TI	Tires	184.98	950.23				1135.21
TI	Tires - Burning						
UO	Used Oil - burning		20.25				20.25
WG,WG,LY	Burning- McNeil		3,024				3024.1
LY,ww	On-site burn		97.27				97.27
						total	19395.63

Not included because embedded in MSW diverted:

ME	Scrap metal, appliances & wg's	385.42	6340.58		-0.62		6725.38
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From Table 1a

UO	Use Oil Burnt	3.89
TI	Tires - Burnt/disposed	323.6

2007 Organics Composting:

Included in MSW Diversion:

Material Code	Material	Total
CF	Food Waste	2939.49
CP	Paper	1000.7
WG	Wood waste	1104.58
LY	Yard Waste	6066.78
OC,OT,PA	Other compostable materials	208.95

Total Categorical and Full Certification: 11320.5

Backyard Composting (Estimate):	23925
Exempt (2005 estimate):	866
Included in MSW Diversion:	36111.5

Composting Not included in MSW diversion - Industry

Material Code	Material	Total
CI	Ice Cream waste	
CW,CS	Liquid Food Waste	2450.93
DA	Dead animal remains	3.9
MN	Manure	4130.92
Total:		6585.75

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TABLE 3

**Vermont Solid Waste - 2008
Disposal & Incineration**

DESTINATION	TYPE OF WASTE					Waste Used in Landfill ^[2]
	MSW (Tons)	C&D/Wood (Tons)	Other ^[1] (Tons)	Total (Tons)	% Disposed	
In-State						
Landfill	319,425	90,661	45,319	455,405	80.79%	29,107
Incineration ^[3]		25			0.00%	
Subtotal:	319,425	90,686	45,319	455,430	80.79%	
Out-of-State						
Landfill	67,286	7,436	270	74,992	13.30%	10,382
Incineration	33,246	10	20	33,276	5.90%	
Subtotal:	100,532	7,446	290	108,268	19.21%	
Total (tons):	419,957	98,132	45,609	563,698	100%	39,489

NOTES:

^[1] Refer to Table 4A for specific wastes disposed in Vermont landfills including some wastes from other states.

^[2] Refer to Table 4B for specific wastes used in landfills including some wastes from other states.

^[3] On site clean wood burn at transfer stations.

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TABLE 4 DESTINATIONS FOR VERMONT SOLID WASTE - 2008 DISPOSAL & INCINERATION

State	Facility	MSW (Tons)	C&D & Wood (Tons)	OTHER (Tons) ⁽¹⁾	Total (Tons)	Waste Used In Landfill ⁽²⁾
VT	Coventry Landfill (Waste USA) ⁽⁴⁾	216,439	69,890	36,263	322,592	12,808
	Moretown Landfill (previously WSI)	102,453	15,487	5,255	123,195	16,191
	2 - 1000 Ton Landfills	533		5	538	108
	Burgess C&D Landfill ⁽³⁾		1,409	626	2,034	
	On-site Disposal - Transfer Stations & Cat.Cert Sites		3,876	3,170	7,046	
	On-site Burning, clean wood - Transfer Stations		25		25	
	Total Vermont (tons):	319,425	90,686	45,319	455,430	29,107
MA	ECO - Pittsfield Waste To Energy	3,327			3,327	
	South Hadley Landfill	7,899			7,899	-
	Total Massachusetts (tons):	11,226	-		11,226	-
NH	Wheelabrator Waste To Energy, Claremont	15,245			15,245	
	Lebanon Landfill	14,750		270	15,020	1,547
	North Country Landfill, Bethlehem	4,657	677		5,334	
	Waste Management	12,654			12,654	
	Mt Carbury Landfill	1,268			1,268	
	Total New Hampshire (tons):	48,574	677	270	49,521	1,547
NY	Wheelabrator Waste To Energy, Hudson Falls	14,674	10	20	14,704	
	Clinton County Landfill	14694.89	6,759		21,454	
	High Acres LF, Waste Management				-	8,835
	Seneca Meadows Landfill, Waterloo NY	11,363			11,363	
	Total New York (tons):	40,732	6,769	20	47,521	8,835
Total Out-Of-State (tons):		100,532	7,446	290	108,268	10,382
Total In-State & Out-Of-State (tons):		419,957	98,132	45,609	563,698	39,489

(1) Refer to Table 4A for specific wastes disposed in Vermont landfills including some waste from other states.

(2) Refer to Table 4B for specific wastes used in landfills including some waste from other states.

(3) Includes 455.60 tons of C&D from NH & NY

(4) Includes VT MSW & CD hauled to the Casella Gobin TS (10,697tons MSW & 6113 tons CD) and Casella LaBombard (All Waste) (4014 tons CD) TS and then transferred to the Coventry landfill.

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TABLE 4A
OTHER WASTES DISPOSED IN VERMONT LANDFILLS 2008
 (Detailing Column E from Table 4)

	Waste USA Landfill - VT Waste	Waste USA Landfill - Waste From Other states	WSI - VT Waste	WSI Landfill - Waste From Other states	Burgess Bros. Landfill	1000 Ton Landfills - Salisbury and Bristol	Transfer Stations & Cat Cert Disposal - On-site Disposal	TOTAL TONS
Asbestos	206	50	189					445
Bulky Wastes								-
Biosolids	25,117	6,873	3,976	51				36,017
Contaminated Soils	1,479	25	759					2,263
Medical Waste			27					27
Paper Sludge								-
Sewer Grit	620	558						
Other Wastes	1,335		252		626	5	3,170	5,388
TOTAL TONS:	28,757	7,506	5,204	51	626	5	3,170	45,319
	NOTES:	NH, NY, MA PQ		NH				

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TABLE 4B
Waste Used in Landfills (Tons) - 2007
(Detailing Column H from Table 4)

	Waste USA Landfill - VT Waste	Waste USA Landfill - Waste From Other states	WSI - VT Waste	WSI Landfill - Waste From Other states	Salisbury Landfill - VT Waste	Salisbury Landfill - Waste From Other states	Hartford TS VT C&D to Lebanon LF	Hubbard & Castleton TSs - VT C&D to NY Landfill(s)	Burgess	TOTAL TONS
Cover Material:										
Biosolids										
C&D										-
Contaminated Soils	8,148	53	7,225	266						15,692
Foundary Sand		22	4,071							4,093
Paper Sludge	2,537		2,157	1,201		108				6,003
Other Wastes	1,920		1,204							3,123
Road Base:										
C&D							1,547	8,835		10,382
Crushed Glass										
Ground Wood Waste	128		22	45						195
TOTAL TONS:	12,733	75	14,679	1,512	-	108	1,547	8,835	-	39,489
NOTES:		NH		MA,NH		NY	Also processed 294.66 tons C&D - NH	Waste Man. Landfill(s)		

DATE

TABLE 5**Operating & Permitted Solid Waste Disposal Capacity in Vermont^[3]****Status 1/1/08**

Solid Waste Landfills	Remaining Capacity For Waste(tons)	Capacity Estimate Based on	Maximum Permitted Fill Rate		Permit Year
			(tons/day)	(tons/year)	
Waste USA Landfill, ^[1] Phase I, II, III & IV-1, IV-2A	800,000	Ground Survey - 3/19/08	2,500	370,000	4/1-3/31
NEWS Landfill, ^[1] Phase IV- 2B, IV- 3A&B, IV-4A&B	5,000,000	Not Constructed Yet			
WSI Landfill ^[2] Cell 3A & 3B	767,520	Survey - 10/2008	1,000	286,000	1/1-12/31
Burgess C&D Landfill	52,670	Estimate 1/2007	100	8,000	10/1-9/30
Totals	6,567,520			664,000	

Maintains ANR Solid Waste Certification:

Greater Upper Valley Solid Waste District Hartland - Phase 1 North	250,000		200	50,000	Not planning to construct in near Future
Northwest Solid Waste District - Sheldon - Cell 1	130,000		125	20,000	Not planning to construct in near Future

Designing New Landfill and preparing application for submittal to ANR:
Chittenden Solid Waste District - Williston

Solid waste disposed in VT landfills and landfills and waste to energy facilities in other states (2007): 577,258 Tons

^[1] Waste USA Landfill. Coventry, Vermont. Also called NEWS (New England Waste Services) Landfill or Coventry Landfill.

^[2] Moretown Landfill. Moretown, Vermont. Previously called WSI Landfill.

^[3] Does not include the two 1000 TPY unlined landfills operating in Bristol Town and Salisbury and a C&D landfill in Bennington .

TABLE 6

2008 Estimated Quantities of Biosolids Managed In and Out of State

(As reported to RMS¹ from Vermont facility generators)

Amounts are in wet tons at 15% solids²

Management Option	In-State (wet tons)	Out-of-State (wet tons)	Total (wet tons)	Percent of Total	Percent Managed
Beneficial Uses:					
Land Application	6,840	0	6,840	12%	
Composted	7,782	2,700	10,482	19%	
Subtotal	14,622	2,700	17,322		
					31%
Non-Beneficial Uses:					
Landfill	36,865	66	36,931	65%	
Incineration ³	0	2,116	2,116	4%	
Subtotal	36,865	2,182	39,047		
					69%
Total:	51,487	4,882	56,369	100%	100%
Percent of Total In & Out of State	91%	9%			

¹RMS - Residuals Management Section. Wastewater Management Division. (802) 241-3822

²All amounts of biosolids reported to DEC are converted to dry tons. Then the dry tons are converted to wet weight assuming 15% solids, which is generally the percent solids that can qualify to be land filled.

³Please note that nearly all biosolids sent to incinerators are in liquid form and the actual weight is greater than that in this table.

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2008 Quantities of Septage Managed In and Out of State

(As reported to RMS)⁴

Amounts are in gallons

Management Option	In-State (gallons)	Out-of-State (gallons)	Total (gallons)	Percent of Total	Percent Managed
Beneficial Uses:					
Land Application	8,359,118	57,550	8,416,668	25.0%	
Composted	3,881,808	665,608	4,547,416	14.0%	
Subtotal	12,240,926	723,158	12,964,084		
					38%
Non-Beneficial Uses:					
Landfill	104,000	1,328,000	1,432,000	4.0%	
Incineration	0	1,756,673	1,756,673	5.0%	
WWTF	15,316,887	2,654,420	17,971,307	53.0%	
Subtotal	15,420,887	5,739,093	21,159,980		62%
Total:	27,661,813	6,462,251	34,124,064	100%	100%
Percent of Total In & Out of State	81%	19%			

⁴ Includes all septage generated in Vermont regardless of where disposed, and all septage disposed in Vermont regardless of where generated. It is estimated that <1% of the total volume is generated out-of-state and disposed in Vermont.

TABLE 7

SUMMARY OF 2008 VERMONT HHW/CEG HAZARDOUS WASTE PROGRAM ACTIVITY

TOWN/DISTRICT	COLLECTION EVENTS	HH UNITS	PARTICIPANTS	BUSINESSES	REPEAT PARTICIPANTS	% REPEAT PARTICIPANTS	% TOTAL PROGRAM PARTICIPATION	PROGRAM COST	\$/PART	HHW POUNDS OF WASTE	CEG POUNDS OF WASTE	POUNDS OF WASTE PER HHW PARTICIPANT	POUNDS OF WASTE PER CEG PARTICIPANT	POUNDS OF MERCURY-ADDED PRODUCTS/DEBRIS	POUNDS OF ELEMENTAL MERCURY	FLUORESCENT LAMPS (FT)	POUNDS OF ELECTRONICS
1 Addison County SWMD	208	12736	1275	115	637	49.36	10.34	\$65,182.00	\$51.91	71257	20751	56	180	31	0	44750	191000
2 Bennington CRC ¹		6575	389	3	207	53.21	5.96	\$62,226.55	\$134.26	13648	280	36	93	100	0	3000	36740
3 Central Vermont SWMD ²	6	27751	674	35	312	46.29	2.55	\$81,966.38	\$121.61	63495	6529	94	187	87	0	10161	90000
4 Chittenden SWMD	290	62358	8850	687	0	0.00	15.29	\$545,817.00	\$61.67	219193	96792	25	141	328	0	295660	597140
5 Greater U.V. SWMD (GUV) ³	3	14955	348	12	226	64.34	2.41	\$24,836.66	\$71.37	20544	0	59	0	0	0	16247	59585
6 Lamoille RSWMD	4	12780	379	23	222	58.58	3.15	\$31,107.00	\$62.08	24949	3600	66	157	0	0	22027	118320
7 Londonderry Group	2	1889	130	6	0	0.00	7.20	\$19,888.94	\$152.99	13672	874	105	146	184	0	2181	0
8 Mad River SWA	2	6111	355	48	133	37.46	4.97	\$30,669.00	\$67.32	14600	2360	49	50	56	0	4108	26040
9 NE Kingdom SWMD	306	23088	2482	5	221	8.87	10.82	\$44,892.42	\$18.01	27520	1808	11	320	10	0	33098	117760
10 Northwest SWMD	12	13758	434	7	315	72.58	3.21	\$42,438.24	\$97.78	25920	0	60	0	0	0	14200	41500
11 Rutland County SWMD	265	22500	761	141	0	0.00	4.01	\$142,059.00	\$186.67	17993	6040	24	43	608	0	70962	112260
12 Solid Waste Alliance Committee	10	6546	241	0	0	0.00	3.68	\$13,290.30	\$55.15	8000	0	33	0	3.25	0	2558	11595
13 S. Wind/Windham SWMD	2	20104	490	4	216	44.08	2.46	\$27,286.84	\$55.69	30784	680	63	170	0	0	7776	0
14 Tri-town Agreement	2	3074	385	3	240	62.34	12.62	\$30,287.14	\$78.67	17426	560	45	187	10.5	0	6756	12172
15 White River Alliance	2	4769	137	0	0	0.00	2.87	\$9,527.32	\$69.54	8520	0	62	0	25	0	8515	44900
16 Windham SWMD	394	19468	5169	32	1295	25.05	26.72	\$49,149.50	\$9.51	54860	2880	11	80	100	0	11353	177120
17 Waste USA (NEK) ⁴	2	5760	321	8	0	0.00	5.71	\$47,848.35	\$149.06	22090	0	69	0	0	0	4550	13776
18 Bennington/Woodford	2	6908	387	21	269	66.93	5.91	\$26,337.00	\$68.05	16186	0	42	0	40	13.5	5799	3173
19 Bristol	3	1546	150	0	100	66.67	9.70	\$13,036.00	\$86.91	6550	0	44	0	0	0	4475	0
20 Burke ⁵	1	892	75	0	25	33.33	8.41	\$3,891.50	\$51.89	3480	0	46	0	0	0	4104	5220
21 Fairfax	2	1249	272	0	89	32.72	21.78	\$11,172.00	\$41.07	5680	0	21	0	7	0	78	5640
22 Franklin/HIGHgate	2	2111	64	0	32	50.00	3.03	\$3,252.00	\$50.81	2800	0	44	0	0	0	1412	0
23 Salisbury	2	628	72	0	50	69.44	11.46	\$10,286.00	\$142.86	4160	0	58	0	0	0	1028	15360
24 St. Albans Town	2	2257	267	0	208	77.80	11.83	\$11,310.00	\$42.36	8947	0	34	0	0	0	1040	1155
25 St. Johnsbury	2	3482	220	48	184	83.64	7.64	\$16,116.00	\$73.25	6720	800	31	17	0	0	7206	6624
26 Shelburne ⁶	2	3624	230	0	0	0.00	5.06	\$17,046.97	\$69.73	14800	0	74	0	100	0	2580	0
27 Swanton	2	2689	135	0	88	65.19	5.02	\$5,584.79	\$48.78	4520	0	36	0	30.25	0	1180	0
TOTALS	1442	291478	24672	1196	5059	20.51	8.87	\$1,378,134.90	\$55.90	728534	143766	30	120	1782	33.5	582330	1692055

¹ Includes the towns of Arlington, Dorset, Manchester, Rupert, Sandgate, and Sunderland.

² Includes Towns of Corinth, Fairlee and Newbury wastes.

³ Includes the Town of Hartford.

⁴ Includes the following towns: Barton, Burke, Coventry, Glover, Lowell, and Newport City.

⁵ Participated in one Coventry HHW collection event and held one collection event in Burke.

⁶ Includes the towns of Pownal and Stamford.

SUMMARY

The following 2008 HHW/CEG Hazardous Waste Collection Data was tabulated from Solid Waste Districts, Alliances and Municipalities representing 99% of Vermont households. These statewide collections cost approximately \$1,380,000.00, served approximately 24,000 participants and collected approximately 364 tons of Household Hazardous waste, 71 tons of Conditionally Exempt Generator Waste, 33 pounds of mercury, 1782 pounds of mercury-added products/debris, 582,000 linear feet of fluorescent lamps and approximately 1,692,000 pounds of discarded electronics. In comparison, 2007 saw 96% of Vermont Households represented, cost approximately \$1,300,000, served approximately 19,000 participants and collected approximately 369 tons of Household Hazardous Waste, 74 tons of Conditionally Exempt Generator Waste, 31 pounds of mercury, 1173 pounds of mercury-added products/debris, 639,000 linear feet of fluorescent lamps and approximately 1,441,000 pounds of discarded electronics. The following is a comparison of the 2008 and 2007 collection years.

1. Average statewide cost per participant in 2008 was approximately \$55.90. This is a decrease from 2007 when the average cost per participant was \$68.26. In addition, the total cost for statewide collections in 2008 was approximately \$80,000 more than 2007 (\$1,380,000 vs. \$1,300,000). 2008 when compared to 2007 saw a decrease in the hazardous waste collected (364 tons vs. 369 tons).
2. 2008 Statewide participation saw an increase in the total number of participants in comparison to 2007 (24672 vs. 19,058), and an increase in the average statewide participation (8.87% vs. 7.10%). Of the participants for 2008, 1196 were businesses and 5059 were repeat participants (repeat participants accounted for an average of 20% of the total 2008 participants). Fixed facilities, seasonal collections and some single-day collection events had higher than the state average participation rates (8.41%- 26.72%).
3. The amount of waste collected in 2008 per participant decreased when compared with 2007 (30 vs. 39 pounds).
4. The number of collection events available statewide increased in 2008 compared to 2007 (1442 vs. 1237).
5. Approximately 33 pounds of elemental mercury, 1782 pounds of mercury-added products/debris and 582,000 linear feet of fluorescent lamps was collected in 2008. In comparison, 2007 was approximately 31 pounds of mercury, 1173 pounds of mercury-added products/debris and 639,000 linear feet of fluorescent lamps collected.
6. Approximately 846 tons of electronic waste was collected in 2008 verses 720 tons collected in 2007.

Household estimates were derived from the US Census Bureau: *Population, Housing Units, Area and Density: 2000*.

Conversion factors used were 8 pounds per gallon, 400 pounds per 55-gallon drum, Gaylord or pallet and .15 pounds per linear foot of fluorescent lamps.

This information is a collection of Household Hazardous and Conditionally Exempt Generator (HHW/CEG) Waste surveys completed by various Solid Waste Districts, Alliances and Municipalities throughout the State Of Vermont. All information compiled and represented here was reported by representatives of the Solid Waste District, Alliance and/or Municipality. Every attempt has been made to provide accurate information on Vermont's Household Hazardous Waste and Conditionally Exempt Generator waste collections. Multi-entity collections and districts that provide collection services for other districts or municipalities have reported their collection numbers only (to help prevent any double counting). Any questions, suggestions or corrections, please feel free to contact: Thomas A. Benoit, Sr at (802) 241-3472 or e-mail at thomas.benoit@state.vt.us.

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