

## All Landfills

### Annual landfill gas modelled generation and collection data summed over all 36 landfills

Modeled Landfill Gas Generation Rate  $k = .04$  &  $Lo = 100$ .

Note: Values may differ slightly from prior versions of this table due to data revision and error correction.

Year	Modelled LFG Generation Rate (ft <sup>3</sup> /yr)	Number of LFs Modelled*	LFG Collection Rate (ft <sup>3</sup> /yr)	Number of LFs		Decomposable Waste Only (tons)
				Collecting LFG**	Total Waste (tons)	
1979	0	16		0	2,603,013	2,498,040
1980	630,183,841	16		0	1,781,193	1,680,130
1981	1,029,322,587	17		0	1,992,744	1,783,204
1982	1,438,813,493	17		0	2,025,323	1,903,895
1983	1,862,694,909	17		0	2,077,350	2,028,405
1984	2,301,365,998	19		0	2,315,751	2,242,777
1985	2,776,916,447	21		0	2,513,907	2,438,778
1986	3,283,265,835	22		0	2,922,640	2,805,670
1987	3,862,317,007	25		0	3,095,195	2,887,110
1988	4,439,208,373	26		0	3,501,158	3,263,217
1989	5,088,360,625	28		0	3,885,653	3,515,031
1990	5,775,594,623	29		0	4,328,046	3,905,706
1991	6,534,427,954	29	204,523,459	1	4,563,585	4,033,207
1992	7,295,671,784	30	204,523,459	1	5,167,870	4,443,245
1993	8,130,507,647	32	340,878,844	2	5,514,997	4,811,501
1994	9,025,509,555	33	414,203,947	2	6,164,403	5,206,443
1995	9,985,050,408	34	452,737,401	2	6,112,683	4,533,050
1996	10,737,104,678	34	1,297,020,352	6	6,959,101	4,975,762
1997	11,571,338,820	34	2,152,286,068	7	7,497,212	5,724,426
1998	12,561,728,517	34	4,513,327,708	10	7,980,658	5,806,206
1999	13,533,915,415	35	6,392,918,980	14	8,213,134	6,295,909
2000	14,591,520,316	35	9,810,774,188	20	8,255,264	6,383,787
2001	15,629,825,076	35	11,612,068,168	21	8,794,574	7,053,250
2002	16,796,304,264	36	12,102,541,289	21	8,695,603	6,774,551
2003	17,846,736,539	36	13,178,648,035	23	8,628,220	6,808,754
2004	18,864,609,259	36	14,851,962,537	23	9,584,866	7,618,866
2005	20,046,938,674	36	15,865,387,552	23	9,828,655	7,658,344
2006	21,192,867,776	36	18,157,587,129	25	9,914,622	7,596,605
2007	22,277,612,543	36	19,613,111,664	27	9,382,204	7,411,432
2008	23,273,787,186	36	20,350,477,202	28	9,054,447	7,084,902
2009	24,148,526,374	36	20,785,334,852	29	7,680,200	5,476,685
2010	24,583,254,521	36	22,012,827,560	30	7,126,960	4,613,110
2011	24,783,086,794	36	22,676,560,075	30	6,909,905	4,791,603
2012	25,020,112,023	36	22,309,775,174	30	7,581,729	4,618,064
2013	25,204,064,562	36	21,589,983,799	30	6,749,764	4,465,922
2014	25,342,423,151	36	19,880,678,273	30	7,236,175	4,707,232
2015	25,536,232,153	36	19,246,052,000	30	7,115,099	4,752,991
2016	25,733,985,418	36	20,259,900,818	30	7,177,343	4,753,212
2017	25,924,040,424	36	20,329,130,296	30	7,406,124	5,027,813
2018	26,175,917,442	36	19,774,299,693	30	7,646,511	5,092,121
2019	26,434,141,105	36	20,704,926,317	30	7,571,991	5,049,376
2020	26,671,242,864	36	20,173,359,893	30	6,474,861	4,636,251
Total=	597,940,526,981		401,257,806,734		260,030,733	199,156,583

\*The 'Number of LFs Modelled' represents the number of landfills included in the modeling that received waste in or prior to the given year. The dates of initial waste receipt vary from 1979 to 2002 for the 36 landfills currently modeled.

\*\*The 'Number of LFs Collecting LFG' represents the number of landfills extracting landfill gas (LFG) for the given year. Note that the number of LFs collecting LFG may differ from the total number of landfills because LFG collection may begin later than the first year of waste acceptance.

## Privately Owned Landfills

### Annual landfill gas modelled generation and collection data summed over 15 private landfills

Modeled Landfill Gas Generation Rate  $k = .04$  &  $Lo = 100$ .

Note: Values may differ slightly from prior versions of this table due to data revision and error correction.

Year	Modelled LFG Generation Rate (ft <sup>3</sup> /yr)	Number of LFs Modelled*	LFG Collection Rate (ft <sup>3</sup> /yr)	Number of LFs		Decomposable Waste Only (tons)
				Collecting LFG**	Total Waste (tons)	
1979	0	10		0	1,576,029	1,549,942
1980	391,005,910	10		0	1,027,093	956,136
1981	616,880,037	10		0	1,128,911	955,665
1982	833,778,693	10		0	1,134,804	1,045,350
1983	1,064,797,584	10		0	1,110,687	1,095,663
1984	1,299,450,622	10		0	1,204,325	1,174,824
1985	1,544,872,825	10		0	1,132,101	1,103,411
1986	1,762,656,542	10		0	1,304,713	1,247,845
1987	2,008,337,186	11		0	1,513,060	1,369,665
1988	2,275,116,292	11		0	1,847,897	1,651,108
1989	2,602,434,947	11		0	2,155,586	1,928,365
1990	2,986,873,280	11		0	2,402,181	2,191,607
1991	3,422,635,989	11		0	2,785,175	2,457,758
1992	3,908,454,287	12		0	3,219,000	2,766,546
1993	4,453,121,834	12	136,355,384	1	3,492,196	3,009,306
1994	5,037,674,030	13	209,680,487	1	4,141,916	3,366,295
1995	5,689,363,591	14	248,213,942	1	4,357,082	2,904,995
1996	6,199,142,420	14	627,669,223	4	5,354,034	3,608,259
1997	6,866,330,900	14	1,527,310,447	5	6,036,731	4,507,444
1998	7,734,196,994	14	3,659,991,056	7	6,650,406	4,720,229
1999	8,621,713,212	15	5,005,913,241	10	6,809,541	5,103,183
2000	9,571,037,757	15	7,805,202,190	13	6,901,279	5,333,795
2001	10,541,315,590	15	9,381,319,254	13	7,724,452	6,097,688
2002	11,666,257,204	15	9,866,040,650	13	7,434,373	5,771,523
2003	12,664,806,306	15	10,390,941,547	14	7,410,543	5,796,685
2004	13,630,549,438	15	11,840,601,026	14	8,303,128	6,516,401
2005	14,739,989,127	15	12,619,316,671	14	8,467,067	6,539,034
2006	15,811,636,889	15	14,621,831,559	15	8,311,628	6,199,043
2007	16,755,494,270	15	15,884,210,740	15	7,587,693	5,868,664
2008	17,578,998,032	15	16,809,738,547	15	7,080,772	5,423,011
2009	18,257,785,737	15	17,355,249,981	15	6,030,863	4,217,354
2010	18,605,805,205	15	18,208,349,451	15	5,434,737	3,409,487
2011	18,736,376,924	15	18,335,612,989	15	5,270,354	3,598,026
2012	18,909,391,757	15	17,972,415,685	15	5,939,930	3,427,399
2013	19,032,578,265	15	17,462,172,734	15	5,166,926	3,386,568
2014	19,140,634,167	15	15,790,193,514	15	5,591,525	3,622,146
2015	19,303,882,709	15	15,696,797,769	15	5,397,271	3,579,742
2016	19,450,032,871	15	16,602,263,224	15	5,532,539	3,530,230
2017	19,577,961,900	15	16,680,567,724	15	5,688,975	3,739,122
2018	19,753,572,188	15	16,034,406,725	15	5,891,410	3,765,404
2019	19,928,926,875	15	16,686,903,270	15	5,760,588	3,671,171
2020	20,073,633,492	15	16,527,674,759	15	4,646,347	3,236,801
Total=	423,049,503,880		323,986,943,790		195,955,868	145,442,889

\*The 'Number of LFs Modelled' represents the number of landfills included in the modeling that received waste in or prior to the given year. The dates of initial waste receipt vary from 1979 to 2002 for the 36 landfills currently modeled.

\*\*The 'Number of LFs Collecting LFG' represents the number of landfills extracting landfill gas (LFG) for the given year. Note that the number of LFs collecting LFG may differ from the total number of landfills because LFG collection may begin later than the first year of waste acceptance.

## Large Municipally Owned Landfills

### Annual landfill gas modelled generation and collection data summed over 6 large municipal landfills

Modeled Landfill Gas Generation Rate  $k = .04$  &  $Lo = 100$ .

Note: Values may differ slightly from prior versions of this table due to data revision and error correction.

Year	Modelled LFG Generation Rate (ft3/yr)	Number of LFs Modelled*	LFG Collection Rate (ft3/yr)	Number of LFs		Total Waste (tons)	Decomposable Waste Only (tons)
				Collecting LFG**			
1979	0	3	0	0		406,034	327,148
1980	82,530,057	3	0	0		294,637	264,531
1981	146,027,591	4	0	0		386,810	350,516
1982	228,726,900	4	0	0		390,895	358,921
1983	310,303,864	4	0	0		388,970	355,049
1984	387,705,354	4	0	0		406,597	367,802
1985	465,289,105	6	0	0		647,788	606,156
1986	599,960,630	6	0	0		766,448	711,691
1987	755,974,970	6	0	0		743,437	744,682
1988	914,194,677	6	0	0		759,278	772,816
1989	1,073,307,901	6	0	0		861,021	868,772
1990	1,250,389,239	6	0	0		865,760	843,891
1991	1,414,250,206	6	204,523,459	1		751,975	728,023
1992	1,542,456,054	6	204,523,459	1		759,144	723,933
1993	1,664,603,019	6	204,523,459	1		745,879	709,083
1994	1,778,214,303	6	204,523,459	1		743,540	709,752
1995	1,887,539,595	6	204,523,459	1		730,126	695,790
1996	1,989,055,969	6	669,351,129	2		741,276	665,093
1997	2,078,847,856	6	624,975,620	2		780,847	702,919
1998	2,174,661,368	6	853,336,652	3		746,674	682,278
1999	2,261,510,845	6	862,834,004	3		807,413	730,652
2000	2,357,158,279	6	945,894,564	4		685,596	619,460
2001	2,421,004,771	6	1,200,926,238	5		605,446	567,698
2002	2,469,289,739	6	1,181,889,844	5		635,308	571,069
2003	2,516,531,832	6	1,553,638,730	5		877,217	779,581
2004	2,614,523,133	6	1,604,482,140	5		1,033,023	929,982
2005	2,746,613,999	6	1,929,454,939	5		780,622	608,550
2006	2,792,437,434	6	2,109,324,103	5		766,709	640,641
2007	2,844,559,745	6	2,085,130,672	5		943,859	775,872
2008	2,928,753,213	6	1,893,822,968	5		989,935	775,841
2009	3,009,637,649	6	2,070,304,297	6		816,142	618,848
2010	3,047,745,668	6	2,264,565,577	6		849,727	636,745
2011	3,088,874,351	6	2,284,782,550	6		853,886	641,836
2012	3,129,674,669	6	2,468,200,079	6		1,216,957	940,399
2013	3,244,194,064	6	2,346,839,322	6		1,345,118	930,912
2014	3,351,829,792	6	2,384,458,689	6		1,283,806	909,090
2015	3,449,739,998	6	2,281,418,208	6		1,494,553	1,029,510
2016	3,574,189,601	6	2,546,294,298	6		1,425,778	1,076,102
2017	3,705,513,291	6	2,691,517,788	6		1,506,756	1,139,995
2018	3,847,806,077	6	2,814,073,124	6		1,556,492	1,178,144
2019	3,994,143,382	6	3,186,115,818	6		1,607,845	1,198,454
2020	4,139,652,998	6	2,893,268,772	6		1,619,480	1,216,916
Total=	88,279,423,187		48,769,517,422			36,618,804	30,705,144

\*The 'Number of LFs Modelled' represents the number of landfills included in the modeling that received waste in or prior to the given year. The dates of initial waste receipt vary from 1979 to 2002 for the 36 landfills currently modeled.

\*\*The 'Number of LFs Collecting LFG' represents the number of landfills extracting landfill gas (LFG) for the given year. Note that the number of LFs collecting LFG may differ from the total number of landfills because LFG collection may begin later than the first year of waste acceptance.

## Small Municipally Owned Landfills

### Annual landfill gas modelled generation and collection data summed over 7 small municipal landfills

Modeled Landfill Gas Generation Rate  $k = .04$  &  $Lo = 100$ .

Note: Values may differ slightly from prior versions of this table due to data revision and error correction.

Year	Modelled LFG Generation Rate (ft3/yr)	Number of LFs Modelled*	LFG Collection Rate (ft3/yr)	Number of LFs		Decomposable Waste Only (tons)
				Collecting LFG**	Total Waste (tons)	
1979	0	0	0	0	0	0
1980	0	0	0	0	0	0
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	1	0	0	1,100	1,100
1987	277,498	1	0	0	22,465	6,492
1988	1,904,363	2	0	0	21,685	9,592
1989	4,249,478	4	0	0	37,407	23,749
1990	10,074,045	5	0	0	63,610	52,394
1991	22,896,540	5	0	0	65,751	62,067
1992	37,656,477	5	0	0	75,314	63,840
1993	52,284,821	6	0	0	85,276	70,289
1994	67,966,668	6	0	0	86,471	72,062
1995	83,480,832	6	0	0	70,537	62,869
1996	96,067,547	6	0	0	88,572	68,021
1997	109,460,432	6	0	0	87,343	67,241
1998	122,131,403	6	0	0	82,388	68,139
1999	134,532,077	6	0	0	86,472	67,967
2000	146,403,124	6	0	0	77,270	65,175
2001	157,104,358	6	0	0	86,191	67,950
2002	168,086,044	7	0	0	118,881	102,395
2003	187,326,618	7	0	0	126,717	106,438
2004	206,832,691	7	0	0	165,013	113,730
2005	227,413,482	7	0	0	139,576	108,230
2006	245,799,796	7	53,926,885	1	150,828	124,356
2007	266,856,961	7	148,045,257	3	151,895	121,903
2008	287,146,101	7	109,639,362	3	167,925	131,168
2009	308,976,712	7	98,158,669	3	167,539	113,644
2010	325,525,638	7	90,918,359	3	209,797	117,386
2011	342,374,809	7	92,862,492	3	190,843	132,288
2012	362,322,589	7	95,433,809	3	183,787	122,269
2013	378,960,679	7	95,323,428	3	191,613	129,207
2014	396,696,638	7	91,062,407	3	299,002	144,783
2015	417,666,539	7	93,357,795	3	193,789	139,032
2016	436,363,385	7	75,590,924	3	184,202	140,685
2017	454,744,122	7	82,953,518	3	175,139	143,892
2018	473,213,175	7	89,830,629	3	185,575	146,911
2019	491,719,652	7	79,658,339	3	203,558	179,751
2020	517,785,070	7	76,037,786	3	209,034	182,534
Total=	7,542,300,364		1,372,799,660		4,452,565	3,329,548

\*The 'Number of LFs Modelled' represents the number of landfills included in the modeling that received waste in or prior to the given year. The dates of initial waste receipt vary from 1979 to 2002 for the 36 landfills currently modeled.

\*\*The 'Number of LFs Collecting LFG' represents the number of landfills extracting landfill gas (LFG) for the given year. Note that the number of LFs collecting LFG may differ from the total number of landfills because LFG collection may begin later than the first year of waste acceptance.

## Closed Landfills

### Annual landfill gas modelled generation and collection data summed over 8 closed landfills

Modeled Landfill Gas Generation Rate  $k = .04$  &  $Lo = 100$ .

Note: Values may differ slightly from prior versions of this table due to data revision and error correction.

Year	Modelled LFG Generation Rate (ft3/yr)	Number of LFs Modelled*	LFG Collection Rate (ft3/yr)	Number of LFs		Decomposable Waste Only (tons)
				Collecting LFG**	Total Waste (tons)	
1979		3		0	620,950	620,950
1980	156,647,874	3		0	459,463	459,463
1981	266,414,960	3		0	477,023	477,023
1982	376,307,900	3		0	499,624	499,624
1983	487,593,461	3		0	577,693	577,693
1984	614,210,022	5		0	704,829	700,151
1985	766,754,517	5		0	734,018	729,211
1986	920,648,662	5		0	850,379	845,034
1987	1,097,727,352	7		0	816,233	766,271
1988	1,247,993,041	7		0	872,298	829,701
1989	1,408,368,299	7		0	831,639	694,144
1990	1,528,258,059	7		0	996,495	817,814
1991	1,674,645,219	7		0	960,684	785,359
1992	1,807,104,965	7		0	1,114,412	888,926
1993	1,960,497,974	8		0	1,191,646	1,022,823
1994	2,141,654,553	8		0	1,192,476	1,058,334
1995	2,324,666,390	8		0	954,938	869,397
1996	2,452,838,742	8		0	775,219	634,389
1997	2,516,699,632	8		0	592,291	446,822
1998	2,530,738,752	8		0	501,190	335,560
1999	2,516,159,280	8	524,171,736	1	509,708	394,107
2000	2,516,921,155	8	1,059,677,433	3	591,119	365,357
2001	2,510,400,357	8	1,029,822,675	3	378,485	319,914
2002	2,492,671,277	8	1,054,610,795	3	507,041	329,564
2003	2,478,071,783	8	1,234,067,758	4	213,743	126,050
2004	2,412,703,998	8	1,406,879,371	4	83,702	58,752
2005	2,332,922,066	8	1,316,615,942	4	441,390	402,530
2006	2,342,993,657	8	1,372,504,582	4	685,457	632,565
2007	2,410,701,567	8	1,495,724,995	4	698,757	644,993
2008	2,478,889,841	8	1,537,276,325	5	815,815	754,882
2009	2,572,126,276	8	1,261,621,906	5	665,656	526,839
2010	2,604,178,010	8	1,448,994,173	6	632,699	449,492
2011	2,615,460,709	8	1,963,302,044	6	594,822	419,453
2012	2,618,723,009	8	1,773,725,601	6	241,055	127,998
2013	2,548,331,554	8	1,685,648,315	6	46,107	19,235
2014	2,453,262,554	8	1,614,963,663	6	61,842	31,213
2015	2,364,942,908	8	1,174,478,227	6	29,486	4,707
2016	2,273,399,561	8	1,035,752,372	6	34,824	6,195
2017	2,185,821,110	8	874,091,266	6	35,254	4,805
2018	2,101,326,002	8	835,989,215	6	13,034	1,662
2019	2,019,351,197	8	752,248,890	6	0	0
2020	1,940,171,304	8	676,378,577	6	0	0
Total=	79,069,299,549		27,128,545,862		23,003,496	19,679,002

\*The 'Number of LFs Modelled' represents the number of landfills included in the modeling that received waste in or prior to the given year. The dates of initial waste receipt vary from 1979 to 2002 for the 36 landfills currently modeled.

\*\*The 'Number of LFs Collecting LFG' represents the number of landfills extracting landfill gas (LFG) for the given year. Note that the number of LFs collecting LFG may differ from the total number of landfills because LFG collection may begin later than the first year of waste acceptance.