




Massachusetts 2007 Solid Waste Data

John Fischer, MassDEP
Solid Waste Advisory Committee
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Waste Reduction Rates

	2005	2006	2007	2010 Milestone
Overall	58%	59%	61%	70%
MSW	42%	45%	47%	60%
Non-MSW	87%	86%	87%	88%

Source Reduction Example - Newsprint

2007 Northeast Newsprint Use

- down 9.4% from 2006
- 1,526,000 to 1,383,000 tons
- ◆ Hard-copy to electronic subscriptions
- ◆ Page width reductions
- ◆ Lighter weight paper
- ◆ Classified ad reductions

Recycling Rates

	2005	2006	2007	2010 Milestone
Overall	47%	46%	44%	56%
MSW	36%	34%	33%	NA
C&D	70%	69%	70%	NA

Source Reduction and Generation

			2006	2007	Tons Change	% Change
Potential Generation			16,130,000	16,450,000	320,000	2%
	MSW		10,370,000	10,530,000	160,000	2%
	Non-MSW		5,760,000	5,920,000	160,000	3%
Source Reduction			2,880,000	4,030,000	1,150,000	40%
	MSW		1,660,000	2,160,000	500,000	30%
	Non-MSW		1,220,000	1,870,000	650,000	53%
Generation			13,260,000	12,420,000	(840,000)	-6%
MSW			8,710,000	8,370,000	(340,000)	-4%
		Residential	3,490,000	3,530,000	40,000	1%
		Commercial	5,220,000	4,840,000	(380,000)	-7%
Non-MSW			4,550,000	4,050,000	(500,000)	-11%
		C&D	4,460,000	3,940,000	(520,000)	-12%
		Other	90,000	110,000	20,000	22%

Diversion

Diversion		6,710,000	6,010,000	(700,000)	-10%
MSW		2,970,000	2,740,000	(230,000)	-8%
	Residential Recycling	530,000	580,000	50,000	9%
	Commercial Recycling	1,690,000	1,480,000	(210,000)	-12%
	Residential Off Site Composting	360,000	340,000	(20,000)	-6%
	Commercial Composting	380,000	340,000	(40,000)	-11%
Non-MSW		3,740,000	3,270,000	(470,000)	-13%
	C&D Recycling	3,070,000	2,750,000	(320,000)	-10%
	Other C&D Diversion	670,000	510,000	(160,000)	-24%

Disposal

Disposal (Incl. Net Exports)			6,550,000	6,410,000	(140,000)	-2%
In-State Disposal			5,180,000	4,870,000	(310,000)	-6%
	Landfill		2,080,000	1,900,000	(180,000)	-9%
		MSW	1,880,000	1,760,000	(120,000)	-6%
		C&D	130,000	60,000	(70,000)	-54%
		Other	70,000	70,000	-	0%
	Combustion		3,100,000	2,970,000	(130,000)	-4%
		MSW	3,090,000	2,960,000	(130,000)	-4%
		Non-MSW	10,000	10,000	-	0%
Net Exports			1,370,000	1,540,000	170,000	12%
	Exports		1,620,000	1,790,000	170,000	10%
		MSW	1,000,000	1,090,000	90,000	9%
		Non-MSW	620,000	690,000	70,000	11%
	Imports		250,000	240,000	(10,000)	-4%
		MSW	230,000	180,000	(50,000)	-22%
		Non-MSW	30,000	60,000	30,000	100%

C&D Debris Management

C&D Management by Tonnage 2005 - 2007			
	2005	2006	2007
Generated	5,100,000	4,460,000	3,940,000
Disposed	700,000	720,000	670,000
In-State	240,000	130,000	60,000
Net Export Out-of-State	460,000	590,000	610,000
Diverted	4,320,000	3,740,000	3,270,000
C&D Recycled	3,530,000	3,070,000	2,750,000
<i>Asphalt, Brick, and Concrete (ABC)</i>	3,330,000	2,840,000	2,550,000
<i>Metal</i>	90,000	90,000	40,000
<i>Wood for Non-fuel Uses</i>	30,000	50,000	90,000
<i>Wood Waste</i>	50,000	50,000	30,000
<i>Other</i>	20,000	40,000	40,000
C&D Other Diversion	930,000	670,000	510,000
<i>C&D Fines/Residual</i>	870,000	580,000	400,000
<i>C&D Wood for Fuel</i>	60,000	90,000	110,000

MSW Export for Disposal

Tons of MSW Exported by Massachusetts to Other States: 2005-2007			
	2005	2006	2007
CT	38,236	29,493	60,108
ME	238,415	207,627	218,445
MI	136	3,879	10,270
NH	281,375	171,570	162,707
NY	224,456	191,616	198,061
OH	85,092	12,255	67,307
PA	4,045	722	
Quebec	0	90	383
RI	6,304	5,684	
SC	479,496	380,266	366,054
VA	1,996	1,554	8,100
VT	4,195		2,145
TOTAL	1,363,746	1,004,756	1,093,580

MSW Import for Disposal

Tons of MSW Imported by Massachusetts from Other States: 2005-2007			
	2005	2006	2007
CT	81,569	114,363	69,291
ME	11,697	1,779	1,779
NH	45,769	42,475	34,579
NY	7,979	7,483	17,735
Quebec	0	1,677	1,278
RI	30,996	31,547	38,941
VT	18,905	26,171	19,862
TOTAL	196,915	225,495	183,465

C&D Export for Disposal

C&D Exported by Massachusetts to Other States: 2005-2007			
	2005	2006	2007
CT	2,179	1,642	4,071
ME	148,691	192,129	224,873
MI			2,460
NH	4,287	73,248	121,987
NJ	0	0	8,360
NY	14,860	16,588	10,452
OH	257,510	279,046	224,534
Quebec	0		7,828
RI	14,409	40,745	51,537
SC		67	
VA			65
VT			273
TOTAL	441,936	603,465	656,440

C&D Import for Disposal

C&D Imported by Massachusetts from Other States: 2005-2007			
	2005	2006	2007
CT	32,003	13,883	39,151
NH	6,763	2,741	2,756
NY			23
RI	1,158	450	5,890
VT	247	140	70
TOTAL	40,171	17,214	47,890

Waste Management Capacity Projections

This chart projects in-state waste management capacity and net export under two scenarios: 1) The same recycling rate is maintained throughout these projections. These figures are shaded in light grey. 2) The recycling rate increases to meet the 56 % goal by 2012. These figures are not shaded.

	2007	2008	2009	2010	2011	2012	2013	2014	2015
Total Generation	12,417,848	12,417,848	12,417,848	12,417,848	12,417,848	12,417,848	12,417,848	12,417,848	12,417,848
Baseline Recycling	5,497,702	5,497,702	5,497,702	5,497,702	5,497,702	5,497,702	5,497,702	5,497,702	5,497,702
Increased Recycling (to meet 56% goal)	0	274,885	563,514	866,575	1,184,789	1,518,914	1,518,914	1,518,914	1,518,914
Total Recycling (to meet 56% goal)	5,497,702	5,772,587	6,061,216	6,364,277	6,682,491	7,016,616	7,016,616	7,016,616	7,016,616
Increased Recycling Rate	44.3%	46.5%	48.8%	51.3%	53.8%	56.5%	56.5%	56.5%	56.5%
C&D Other Diversion	511,148	485,591	461,311	438,246	416,333	395,517	375,741	356,954	339,106
Combustion Capacity	2,968,583	2,968,583	2,968,583	2,968,583	2,968,583	2,968,583	2,968,583	2,968,583	2,968,583
Potential LF Capacity	1,897,481	1,904,906	1,903,124	1,843,844	1,746,564	1,204,972	926,052	854,916	763,625
Total In-state Capacity (baseline recycling)	10,874,914	10,856,781	10,830,720	10,748,374	10,629,182	10,066,774	9,768,078	9,678,155	9,569,016
Total In-state Capacity (total recycling)	10,874,914	11,131,667	11,394,234	11,614,949	11,813,971	11,585,688	11,286,992	11,197,069	11,087,930
Net Export (baseline recycling)	1,542,934	1,561,066	1,587,128	1,669,474	1,788,666	2,351,074	2,649,770	2,739,693	2,848,832
Net Export (total recycling)	1,542,934	1,286,181	1,023,614	802,898	603,877	832,160	1,130,856	1,220,779	1,329,918

Assumptions¹:

Generation Increase	0.0% (annual)
Baseline Recycling Tonnage Increase	0.0% (annual)
Total Recycling Tonnage Increase	5.0% (annual)
C&D Other Diversion Decrease	-5.0% (annual)

Combustion Capacity is projected to remain level from 2008 through 2015.

Landfill capacity is calculated to be 76% of total potential based on historical disposal patterns.

Net export is calculated by subtracting Total In-State Management Capacity from Total Generation.

Total In-State Management Capacity is the sum of Total Diversion, Combustion Capacity and Potential Landfill Capacity.

¹ Generation Increase, Baseline Recycling Tonnage Increase and Total Recycling Increase reduced from 2%, 2% and 7%, respectively, from assumptions in 2006 update.