

Advancing Sustainable Materials Management: 2015 Tables and Figures

Assessing Trends in Material Generation, Recycling, Composting, Combustion with Energy Recovery and Landfilling in the United States

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Table 1. Materials Generated* in the Municipal Waste Stream, 1960 to 2015 (In thousands of tons and percent of total generation)

				Thousa	ands of Tons				
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard	29,990	44,310	55,160	72,730	87,740	84,840	71,310	68,610	68,050
Glass	6,720	12,740	15,130	13,100	12,770	12,540	11,520	11,480	11,470
Metals		,	,	,			,		
Ferrous	10,300	12,360	12,620	12,640	14,150	15,210	16,920	17,880	18,170
Aluminum	340	800	1,730	2,810	3,190	3,330	3,510	3,530	3,610
Other Nonferrous	180	670	1,160	1,100	1,600	1,860	2,020	2,230	2,220
Total Metals	10,820	13,830	15,510	16,550	18,940	20,400	22,450	23,640	24,000
Plastics	390	2,900	6,830	17,130	25,550	29,380	31,400	33,390	34,500
Rubber and Leather	1,840	2,970	4,200	5,790	6,670	7,290	7,750	8,210	8,480
Textiles	1,760	2,040	2,530	5,810	9,480	11,510	13,220	15,240	16,030
Wood	3,030	3,720	7,010	12,210	13,570	14,790	15,710	16,120	16,300
Other **	70	770	2,520	3,190	4,000	4,290	4,710	5,120	5,160
Total Materials in Products	54,620	83,280	108,890	146,510	178,720	185,040	178,070	181,810	183,990
Other Wastes									
Food	12,200	12,800	13,000	23,860	30,700	32,930	35,740	38,670	39,730
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	33,400	34,500	34,720
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,840	3,970	3,990
Total Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,980	77,140	78,440
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	251,050	258,950	262,430
No. 1 and 1				Percent of	Total Genera	tion			
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard	34.0%	36.6%	36.4%	34.9%	36.0%	33.4%	28.4%	26.5%	25.9%
Glass	7.6%	10.5%	10.0%	6.3%	5.2%	4.9%	4.6%	4.4%	4.4%
Metals									
Ferrous	11.7%	10.2%	8.3%	6.1%	5.8%	6.0%	6.7%	6.9%	6.9%
Aluminum	0.4%	0.7%	1.1%	1.3%	1.3%	1.3%	1.4%	1.4%	1.4%
Other Nonferrous	0.2%	0.6%	0.8%	0.5%	0.7%	0.7%	0.8%	0.8%	0.8%
Total Metals	0.270	0.076	0.670	0.570	0.776	0.770	0.070		0.070
Plastics	12.3%	11.4%	10.2%	7.9%	7.8%	8.0%	8.9%	9.1%	9.1%
i iastics									
Rubber and Leather	12.3%	11.4%	10.2%	7.9%	7.8%	8.0%	8.9%	9.1%	9.1%
	12.3% 0.4%	11.4% 2.4%	10.2% 4.5%	7.9% 8.2%	7.8% 10.5%	8.0% 11.6%	8.9% 12.5%	9.1% 12.9%	9.1% 13.1%
Rubber and Leather	12.3% 0.4% 2.1%	11.4% 2.4% 2.5%	10.2% 4.5% 2.8%	7.9% 8.2% 2.8%	7.8% 10.5% 2.7%	8.0% 11.6% 2.9%	8.9% 12.5% 3.1%	9.1% 12.9% 3.2%	9.1% 13.1% 3.2%
Rubber and Leather Textiles	12.3% 0.4% 2.1% 2.0%	11.4% 2.4% 2.5% 1.7%	10.2% 4.5% 2.8% 1.7%	7.9% 8.2% 2.8% 2.8%	7.8% 10.5% 2.7% 3.9%	8.0% 11.6% 2.9% 4.5%	8.9% 12.5% 3.1% 5.3%	9.1% 12.9% 3.2% 5.9%	9.1% 13.1% 3.2% 6.1%
Rubber and Leather Textiles Wood	12.3% 0.4% 2.1% 2.0% 3.4%	11.4% 2.4% 2.5% 1.7% 3.1%	10.2% 4.5% 2.8% 1.7% 4.6%	7.9% 8.2% 2.8% 2.8% 5.9%	7.8% 10.5% 2.7% 3.9% 5.6%	8.0% 11.6% 2.9% 4.5% 5.8%	8.9% 12.5% 3.1% 5.3% 6.3%	9.1% 12.9% 3.2% 5.9% 6.2%	9.1% 13.1% 3.2% 6.1% 6.2%
Rubber and Leather Textiles Wood Other **	12.3% 0.4% 2.1% 2.0% 3.4% 0.1%	11.4% 2.4% 2.5% 1.7% 3.1% 0.6%	10.2% 4.5% 2.8% 1.7% 4.6% 1.7%	7.9% 8.2% 2.8% 2.8% 5.9% 1.5%	7.8% 10.5% 2.7% 3.9% 5.6% 1.6%	8.0% 11.6% 2.9% 4.5% 5.8% 1.7%	8.9% 12.5% 3.1% 5.3% 6.3% 1.9%	9.1% 12.9% 3.2% 5.9% 6.2% 2.0%	9.1% 13.1% 3.2% 6.1% 6.2% 2.1%
Rubber and Leather Textiles Wood Other ** Total Materials in Products	12.3% 0.4% 2.1% 2.0% 3.4% 0.1%	11.4% 2.4% 2.5% 1.7% 3.1% 0.6%	10.2% 4.5% 2.8% 1.7% 4.6% 1.7%	7.9% 8.2% 2.8% 2.8% 5.9% 1.5%	7.8% 10.5% 2.7% 3.9% 5.6% 1.6%	8.0% 11.6% 2.9% 4.5% 5.8% 1.7%	8.9% 12.5% 3.1% 5.3% 6.3% 1.9%	9.1% 12.9% 3.2% 5.9% 6.2% 2.0%	9.1% 13.1% 3.2% 6.1% 6.2% 2.1%
Rubber and Leather Textiles Wood Other ** Total Materials in Products Other Wastes	12.3% 0.4% 2.1% 2.0% 3.4% 0.1% 62.0%	11.4% 2.4% 2.5% 1.7% 3.1% 0.6% 68.8%	10.2% 4.5% 2.8% 1.7% 4.6% 1.7% 71.8%	7.9% 8.2% 2.8% 2.8% 5.9% 1.5% 70.3%	7.8% 10.5% 2.7% 3.9% 5.6% 1.6% 73.4%	8.0% 11.6% 2.9% 4.5% 5.8% 1.7% 72.9%	8.9% 12.5% 3.1% 5.3% 6.3% 1.9% 70.9%	9.1% 12.9% 3.2% 5.9% 6.2% 2.0% 70.2%	9.1% 13.1% 3.2% 6.1% 6.2% 2.1% 70.1%
Rubber and Leather Textiles Wood Other ** Total Materials in Products Other Wastes Food	12.3% 0.4% 2.1% 2.0% 3.4% 0.1% 62.0%	11.4% 2.4% 2.5% 1.7% 3.1% 0.6% 68.8%	10.2% 4.5% 2.8% 1.7% 4.6% 1.7% 71.8%	7.9% 8.2% 2.8% 2.8% 5.9% 1.5% 70.3%	7.8% 10.5% 2.7% 3.9% 5.6% 1.6% 73.4%	8.0% 11.6% 2.9% 4.5% 5.8% 1.7% 72.9%	8.9% 12.5% 3.1% 5.3% 6.3% 1.9% 70.9%	9.1% 12.9% 3.2% 5.9% 6.2% 2.0% 70.2%	9.1% 13.1% 3.2% 6.1% 6.2% 2.1% 70.1%
Rubber and Leather Textiles Wood Other ** Total Materials in Products Other Wastes Food Yard Trimmings	12.3% 0.4% 2.1% 2.0% 3.4% 0.1% 62.0% 13.8% 22.7%	11.4% 2.4% 2.5% 1.7% 3.1% 0.6% 68.8% 10.6%	10.2% 4.5% 2.8% 1.7% 4.6% 1.7% 71.8%	7.9% 8.2% 2.8% 2.8% 5.9% 1.5% 70.3%	7.8% 10.5% 2.7% 3.9% 5.6% 1.6% 73.4%	8.0% 11.6% 2.9% 4.5% 5.8% 1.7% 72.9%	8.9% 12.5% 3.1% 5.3% 6.3% 1.9% 70.9%	9.1% 12.9% 3.2% 5.9% 6.2% 2.0% 70.2%	9.1% 13.1% 3.2% 6.1% 6.2% 2.1% 70.1% 15.1% 13.3%

^{*} Generation before materials recycling, composting, combustion with energy recovery or landfilling. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Includes electrolytes in batteries and fluff pulp, feces and urine in disposable diapers.

Table 2. Materials Recycled and Composted* in Municipal Solid Waste, 1960 to 2015

(In thousands of tons and percent of generation of each material)

Mataviala	Thousands of Tons								
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard	5,080	6,770	11,740	20,230	37,560	41,960	44,570	44,400	45,320
Glass	100	160	750	2,630	2,880	2,590	3,130	2,990	3,030
Metals									
Ferrous	50	150	370	2,230	4,680	5,020	5,800	5,970	6,060
Aluminum	Neg.	10	310	1,010	860	690	680	710	670
Other Nonferrous	Neg.	320	540	730	1,060	1,280	1,440	1,550	1,500
Total Metals	50	480	1,220	3,970	6,600	6,990	7,920	8,230	8,230
Plastics	Neg.	Neg.	20	370	1,480	1,780	2,500	3,190	3,140
Rubber and Leather	330	250	130	370	820	1,050	1,440	1,440	1,510
Textiles	50	60	160	660	1,320	1,830	2,050	2,260	2,450
Wood	Neg.	Neg.	Neg.	130	1,370	1,830	2,280	2,570	2,660
Other **	Neg.	300	500	680	980	1,210	1,370	1,470	1,430
Total Materials in Products	5,610	8,020	14,520	29,040	53,010	59,240	65,260	66,550	67,770
Other Wastes									
Food^	Neg.	Neg.	Neg.	Neg.	680	690	970	1,940	2,100
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	19,200	21,080	21,290
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,170	23,020	23,390
Total MSW Recycled and Composted - Weight	5,610	8,020	14,520	33,240	69,460	79,790	85,430	89,570	91,160
Materials			P	ercent of Ge	eneration of	Each Mater	rial		
Waterials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard	16.9%	45.00/			42.8%	49.5%	60 50/	C 4 70/	66.6%
Glass	16.9%	15.3%	21.3%	27.8%	42.8%	45.570	62.5%	64.7%	00.0%
<u> </u>	1.5%	15.3%	21.3% 5.0%	27.8% 20.1%	22.6%	20.7%	27.2%	26.0%	26.4%
Metals									
Metals	1.5%	1.3%	5.0%	20.1%	22.6%	20.7%	27.2%	26.0%	26.4%
Metals Ferrous	0.5%	1.3%	5.0% 2.9%	20.1%	22.6%	20.7%	27.2% 34.3%	26.0%	26.4%
Metals Ferrous Aluminum	1.5% 0.5% Neg.	1.3% 1.2% 1.3%	5.0% 2.9% 17.9%	20.1% 17.6% 35.9%	22.6% 33.1% 27.0%	20.7% 33.0% 20.7%	27.2% 34.3% 19.4%	26.0% 33.4% 20.1%	26.4% 33.4% 18.6%
Metals Ferrous Aluminum Other Nonferrous	1.5% 0.5% Neg. Neg.	1.3% 1.2% 1.3% 47.8%	5.0% 2.9% 17.9% 46.6%	20.1% 17.6% 35.9% 66.4%	22.6% 33.1% 27.0% 66.3%	20.7% 33.0% 20.7% 68.8%	27.2% 34.3% 19.4% 71.3%	26.0% 33.4% 20.1% 69.5%	26.4% 33.4% 18.6% 67.6%
Metals Ferrous Aluminum Other Nonferrous Total Metals	0.5% Neg. Neg. 0.5%	1.3% 1.2% 1.3% 47.8% 3.5%	5.0% 2.9% 17.9% 46.6% 7.9%	20.1% 17.6% 35.9% 66.4% 24.0%	22.6% 33.1% 27.0% 66.3% 34.8%	20.7% 33.0% 20.7% 68.8% 34.3%	27.2% 34.3% 19.4% 71.3% 35.3%	26.0% 33.4% 20.1% 69.5% 34.8%	26.4% 33.4% 18.6% 67.6% 34.3%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics	0.5% Neg. Neg. 0.5% Neg.	1.3% 1.2% 1.3% 47.8% 3.5% Neg.	5.0% 2.9% 17.9% 46.6% 7.9% 0.3%	20.1% 17.6% 35.9% 66.4% 24.0% 2.2%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather	1.5% 0.5% Neg. Neg. 0.5% Neg. 17.9%	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4%	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1%	20.1% 17.6% 35.9% 66.4% 24.0% 2.2% 6.4%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles	1.5% 0.5% Neg. Neg. 0.5% Neg. 17.9% 2.8%	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9%	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3%	20.1% 17.6% 35.9% 66.4% 24.0% 2.2% 6.4% 11.4%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 13.9%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles Wood	1.5% 0.5% Neg. Neg. 0.5% Neg. 2.5% Neg. 17.9% 2.8% Neg.	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9% Neg.	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3% Neg.	20.1% 17.6% 35.9% 66.4% 24.0% 2.2% 6.4% 11.4% 1.1%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 13.9% 10.1%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9% 12.4%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5% 14.5%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8% 15.9%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3% 16.3%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles Wood Other **	1.5% Neg. Neg. 0.5% Neg. 17.9% 2.8% Neg. Neg.	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9% Neg. 39.0%	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3% Neg. 19.8%	20.1% 17.6% 35.9% 66.4% 24.0% 2.2% 6.4% 11.4% 1.1% 21.3%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 13.9% 10.1% 24.5%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9% 12.4% 28.2%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5% 14.5% 29.1%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8% 15.9% 28.7%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3% 16.3% 27.7%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles Wood Other ** Total Materials in Products	1.5% Neg. Neg. 0.5% Neg. 17.9% 2.8% Neg. Neg.	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9% Neg. 39.0%	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3% Neg. 19.8%	20.1% 17.6% 35.9% 66.4% 24.0% 2.2% 6.4% 11.4% 1.1% 21.3%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 13.9% 10.1% 24.5%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9% 12.4% 28.2%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5% 14.5% 29.1%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8% 15.9% 28.7%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3% 16.3% 27.7%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles Wood Other ** Total Materials in Products Other Wastes	1.5% Neg. Neg. 0.5% Neg. 17.9% 2.8% Neg. Neg. Neg. 10.3%	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9% Neg. 39.0% 9.6%	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3% Neg. 19.8% 13.3%	20.1% 17.6% 35.9% 66.4% 24.0% 2.2% 6.4% 11.4% 1.1% 21.3% 19.8%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 10.1% 24.5% 29.7%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9% 12.4% 28.2% 32.0%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5% 14.5% 29.1% 36.6%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8% 15.9% 28.7% 36.6%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3% 16.3% 27.7% 36.8%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles Wood Other ** Total Materials in Products Other Wastes Food^	1.5% Neg. Neg. 0.5% Neg. 17.9% 2.8% Neg. Neg. 10.3%	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9% Neg. 39.0% 9.6%	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3% Neg. 19.8% 13.3%	20.1% 17.6% 35.9% 66.4% 24.0% 6.4% 11.4% 1.1% 21.3% 19.8%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 10.1% 24.5% 29.7%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9% 12.4% 28.2% 32.0%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5% 14.5% 29.1% 36.6%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8% 15.9% 28.7% 36.6%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3% 16.3% 27.7% 36.8%
Metals Ferrous Aluminum Other Nonferrous Total Metals Plastics Rubber and Leather Textiles Wood Other ** Total Materials in Products Other Wastes Food^ Yard Trimmings	1.5% Neg. Neg. 0.5% Neg. 17.9% 2.8% Neg. Neg. Neg. Neg. 10.3%	1.3% 1.2% 1.3% 47.8% 3.5% Neg. 8.4% 2.9% Neg. 39.0% 9.6% Neg.	5.0% 2.9% 17.9% 46.6% 7.9% 0.3% 3.1% 6.3% Neg. 19.8% 13.3%	20.1% 17.6% 35.9% 66.4% 24.0% 6.4% 11.4% 1.1% 21.3% 19.8% Neg. 12.0%	22.6% 33.1% 27.0% 66.3% 34.8% 5.8% 12.3% 10.1% 24.5% 29.7% 2.2% 51.7%	20.7% 33.0% 20.7% 68.8% 34.3% 6.1% 14.4% 15.9% 12.4% 28.2% 32.0% 2.1% 61.9%	27.2% 34.3% 19.4% 71.3% 35.3% 8.0% 18.6% 15.5% 14.5% 29.1% 36.6%	26.0% 33.4% 20.1% 69.5% 34.8% 9.6% 17.5% 14.8% 15.9% 28.7% 36.6% 5.0% 61.1%	26.4% 33.4% 18.6% 67.6% 34.3% 9.1% 17.8% 15.3% 16.3% 27.7% 36.8% 5.3% 61.3%

^{*} Recycling and composting of postconsumer wastes; does not include converting/fabrication scrap. Details may not add to totals due to rounding.

^{**} Collection of electrolytes in batteries; probably not recycled.

Neg = Less than 5,000 tons or 0.05 percent.

[^] Includes collection of other MSW organics for composting.

Table 3. Materials Combusted with Energy Recovery* in the Municipal Waste Stream, 1960 to 2015

(In thousands of tons and percent of total combusted)

				Tho	usands of To	ns			
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard		150	860	8,930	9,730	7,800	4,740	4,740	4,450
Glass		60	300	1,810	1,790	1,660	1,360	1,450	1,470
Metals									
Ferrous		60	250	1,690	1,610	1,640	1,810	2,030	2,140
Aluminum		0	30	300	390	410	440	470	500
Other Nonferrous		0	20	60	50	50	60	50	60
Total Metals		60	300	2,050	2,050	2,100	2,310	2,550	2,700
Plastics		0	140	2,980	4,120	4,330	4,530	5,010	5,350
Rubber and Leather		10	70	830	1,970	2,110	1,910	2,620	2,490
Textiles		10	50	880	1,880	2,110	2,270	3,020	3,050
Wood		10	150	2,080	2,290	2,270	2,310	2,540	2,580
Other **		0	30	410	540	510	540	670	690
Total Materials in Products		300	1,900	19,970	24,370	22,890	19,970	22,600	22,780
Other Wastes									•
Food		50	260	4,060	5,820	5,870	6,150	7,200	7,380
Yard Trimmings		90	550	5,240	2,860	2,220	2,510	2,630	2,630
Miscellaneous Inorganic Wastes		10	50	490	680	670	680	780	780
Total Other Wastes		150	860	9,790	9,360	8,760	9,340	10,610	10,790
Total MSW Combusted - Weight		450	2,760	29,760	33,730	31,650	29,310	33,210	33,570
D. d. a. visala				Percent o	of Total Com	busted			
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard		33.3%	31.2%	30.0%	28.8%	24.6%	16.2%	14.3%	13.3%
Glass		13.3%	10.9%	6.1%	5.3%	5.2%	4.6%	4.4%	4.4%
Metals									
Ferrous		13.3%	9.0%	5.7%	4.8%	5.2%	6.2%	6.1%	6.4%
Aluminum		0.0%	1.1%	1.0%	1.2%	1.3%	1.5%	1.4%	1.5%
Other Nonferrous		0.0%	0.7%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%
Total Metals		13.3%	10.8%	6.9%	6.1%	6.6%	7.9%	7.7%	8.1%
Plastics		Neg.	5.1%	10.0%	12.2%	13.7%	15.5%	15.1%	15.9%
Rubber and Leather		2.2%	2.5%	2.8%	5.9%	6.7%	6.5%	7.9%	7.4%
Textiles		2.2%	1.8%	2.9%	5.6%	6.7%	7.7%	9.1%	9.1%
Wood		2.2%	5.4%	7.0%	6.8%	7.2%	7.9%	7.6%	7.6%
Other **		Neg.	1.1%	1.4%	1.6%	1.6%	1.8%	2.0%	2.1%
Total Materials in Products		66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%
Other Wastes									
Food		11.1%	9.4%	13.6%	17.3%	18.5%	21.0%	21.7%	22.0%
Yard Trimmings		20.0%	20.0%	17.6%	8.5%	7.0%	8.6%	7.9%	7.8%
Miscellaneous Inorganic Wastes		2.3%	1.8%	1.7%	1.9%	2.1%	2.3%	2.3%	2.3%
Total Other Wastes		33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%
Total MSW Combusted with Energy Recovery- %		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Products and materials combusted with energy recovery estimated at percentage total MSW after recycling and composting. In 2015, 19.6 percent of MSW after recycling and composting was combusted with energy recovery except for major appliances, tires and lead-acid batteries (see Table 16). No combustion with energy recovery in 1960 (see Table 35). Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Includes electrolytes in batteries and fluff pulp, feces and urine in disposable diapers.

Table 4. Materials Landfilled* in the Municipal Waste Stream, 1960 to 2015 (In thousands of tons and percent of total landfilled)

Matariala				The	ousands of T	ons			
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard	24,910	37,390	42,560	43,570	40,450	35,080	22,000	19,470	18,280
Glass	6,620	12,520	14,080	8,660	8,100	8,290	7,030	7,040	6,970
Metals									
Ferrous	10,250	12,150	12,000	8,720	7,860	8,550	9,310	9,880	9,970
Aluminum	340	790	1,390	1,500	1,940	2,230	2,390	2,350	2,440
Other Nonferrous	180	350	600	310	490	530	520	630	660
Total Metals	10,770	13,290	13,990	10,530	10,290	11,310	12,220	12,860	13,070
Plastics	390	2,900	6,670	13,780	19,950	23,270	24,370	25,190	26,010
Rubber and Leather	1,510	2,710	4,000	4,590	3,880	4,130	4,400	4,150	4,480
Textiles	1,710	1,970	2,320	4,270	6,280	7,570	8,900	9,960	10,530
Wood	3,030	3,710	6,860	10,000	9,910	10,690	11,120	11,010	11,060
Other **	70	470	1,990	2,100	2,480	2,570	2,800	2,980	3,040
Total Materials in Products	49,010	74,960	92,470	97,500	101,340	102,910	92,840	92,660	93,440
Other Wastes	, ,			,	,			,	,
Food	12,200	12,750	12,740	19,800	24,200	26,370	28,620	29,530	30,250
Yard Trimmings	20,000	23,110	26,950	25,560	11,900	9,990	11,690	10,790	10,800
Miscellaneous Inorganic Wastes	1,300	1,770	2,200	2,410	2,820	3,020	3,160	3,190	3,210
Total Other Wastes	33,500	37,630	41,890	47,770	38,920	39,380	43,470	43,510	44,260
Total MSW Landfilled - Weight	82,510	112,590	134,360	145,270	140,260	142,290	136,310	136,170	137,700
				Percen	t of Total La	ndfilled			
Materials	1960	1970	1980	1990	2000	2005	2010	2014	2015
Paper and Paperboard	30.2%	33.2%	31.7%	30.0%	28.8%	24.7%	16.1%	14.3%	13.3%
Glass	8.0%	11.1%	10.5%	6.0%	5.8%	5.8%	5.1%	5.2%	5.1%
Metals									
Ferrous	12.4%	10.8%	8.9%	6.0%	5.6%	6.0%	6.8%	7.3%	7.2%
Aluminum	0.4%	0.7%	1.0%	1.0%	1.4%	1.6%	1.8%	1.7%	1.8%
Other Nonferrous	0.2%	0.3%	0.4%	0.2%	0.3%	0.3%	0.4%	0.5%	0.5%
Total Metals	13.0%	11.8%	10.3%	7.2%	7.3%	7.9%	9.0%	9.5%	9.5%
Plastics	0.5%	2.6%	5.0%	9.5%	14.2%	16.4%	17.9%	18.5%	18.9%
Rubber and Leather	1.8%	2.4%	3.0%	3.2%	2.8%	2.9%	3.2%	3.0%	3.3%
Textiles	2.1%	1.7%	1.7%	2.9%	4.5%	5.3%	6.5%	7.3%	7.6%
Wood	3.7%	3.3%	5.1%	6.9%	7.1%	7.5%	8.2%	8.1%	8.0%
Other **	0.1%	0.4%	1.5%	1.4%	1.8%	1.8%	2.1%	2.2%	2.2%
Total Materials in Products	59.4%	66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%
Other Wastes									
Food	14.8%	11.3%	9.5%	13.6%	17.3%	18.5%	21.0%	21.7%	22.0%
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.0%	8.6%	7.9%	7.8%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	1.9%	2.2%	2.3%	2.3%	2.3%
-	40.69/			32.9%		27.7%	31.9%	31.9%	32.1%
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.7%	27.770	31.9%	31.9%	32.1/0

Landfilling after recycling, composting and combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

Includes electrolytes in batteries and fluff pulp, feces and urine in disposable diapers.

Table 5. Paper and Paperboard Products In MSW, 2015 (In thousands of tons and percent of generation)

Product Category	Generation		ycled	Combusted with Energy Recovery	Landfilled
	(Thousand tons)	(Thousand tons)	(Percent of generation)	(Thousand tons)	(Thousand tons)
Nondurable Goods					
Newspapers/Mechanical Papers†	6,730	4,790	71.2%	380	1,560
Books	800				
Magazines	1,190				
Office-type Papers*	4,530				
Standard Mail**	4,050				
Other Commercial Printing	2,080				
Tissue Paper and Towels	3,680				
Paper Plates and Cups	1,360				
Other Nonpackaging Paper***	3,700				
Subtotal Nondurable Goods excluding Newspaper/Mechanical Papers§	21,390	9,330	43.6%	2,360	9,700
Total Paper and Paperboard Nondurable Goods	28,120	14,120	50.2%	2,740	11,260
Containers and Packaging					
Corrugated Boxes	31,330	28,930	92.3%	470	1,930
Gable Top/Aseptic Cartons‡	590				
Folding Cartons	5,380				
Other Paperboard Packaging	70				
Bags and Sacks	930				
Other Paper Packaging	1,620				
Subtotal Containers and Packaging excluding Corrugated Boxes§	8,590	2,270	26.4%	1,240	5,080
Total Paper and Paperboard Containers and Packaging	39,920	31,200	78.2%	1,710	7,010
Total Paper and Paperboard^	68,040	45,320	66.6%	4,450	18,270

^{*} Starting in 2010, newsprint and groundwood inserts expanded to include directories and other mechanical papers previously counted as Other Commercial Printing.

Neg. = Less than 5,000 tons or 0.05 percent.

^{*} High-grade papers such as copy paper and printer paper; both residential and commercial.

^{**} Formerly called Third Class Mail by the U.S. Postal Service.

^{***} Includes paper in games and novelties, cards, etc.

[§] Valid default values for separating out paper and paperboard sub-categories for recycling, combustion with energy recovery and landfilling were not available.

[‡] Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

[^] Table 5 does not include 10,000 tons of paper used in durable goods (Table 1).

Table 6. Glass Products in MSW, 2015

(In thousands of tons and percent of generation)

Product Category	Generation (Thousand	Recy (Thousand	cled (Percent of	Combusted with Energy Recovery (Thousand	Landfilled (Thousand
	tons)	tons)	generation)	tons)	tons)
Durable Goods*	2,350	Neg.	Neg.	270	2,080
Containers and Packaging					
Beer and Soft Drink Bottles**	5,320	2,230	41.9%	610	2,480
Wine and Liquor Bottles	1,810	500	27.6%	260	1,050
Other Bottles and Jars	1,990	300	15.1%	330	1,360
Total Glass Containers	9,120	3,030	33.2%	1,200	4,890
Total Glass	11,470	3,030	26.4%	1,470	6,970

^{*} Glass as a component of appliances, furniture, consumer electronics, etc.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

Neg. = Less than 5,000 tons or 0.05 percent.

Details may not add to totals due to rounding.

Table 7. Metal Products in MSW, 2015 (In thousands of tons and percent of generation)

Product Category	Generation	Rec	ycled	Combusted with Energy Recovery	Landfilled
	(Thousand tons)	(Thousand (Percent of tons) generation)		(Thousand tons)	(Thousand tons)
Durable Goods					
Ferrous Metals*	15,950	4,440	27.8%	2,020	9,490
Aluminum**	1,550	NA	NA	220	1,330
Lead†	1,520	1,500	98.7%		20
Other Nonferrous Metals‡	700	Neg.	Neg.	60	640
Total Metals in Durable Goods	19,720	5,940	30.1%	2,300	11,480
Nondurable Goods					
Aluminum	220	NA	NA	40	180
Containers and Packaging					
Steel					
Cans	1,740	1,240	71.3%	100	400
Other Steel Packaging	480	380	79.2%	20	80
Total Steel Packaging	2,220	1,620	73.0%	120	480
Aluminum					
Beer and Soft Drink Cans§	1,220	670	54.9%	110	440
Other Cans	130	NA	NA	30	100
Foil and Closures	490	NA	NA	100	390
Total Aluminum Packaging	1,840	670	36.4%	240	930
Total Metals in Containers and Packaging	4,060	2,290	56.4%	360	1,410
Total Metals	24,000	8,230	34.3%	2,700	13,070
Ferrous	18,170	6,060	33.4%	2,140	9,970
Aluminum	3,610	670	18.6%	500	2,440
Other nonferrous	2,220	1,500	67.6%	60	660

^{*} Ferrous metals (iron and steel) in appliances, furniture, tires and miscellaneous durables.

Details may not add to totals due to rounding.

^{**} Aluminum in appliances, furniture and miscellaneous durables.

[†] Lead in lead-acid batteries.

Other nonferrous metals in appliances and miscellaneous durables.

[§] Aluminum can recycling does not include used beverage cans imported to produce new beverage cans. NA = Not Available

Table 8. Plastics in Products In MSW, 2015 (In thousands of tons and percent of generation by resin)

Product Category	Generation	Rec	/cled	Combusted with energy Recovery	Landfilled
Floudet Category	(Thousand tons)	(Thousand tons)	(Percent of generation)	(Thousand tons)	(Thousand tons)
Durable Goods					
PET	500				
HDPE	1,480				
PVC	200				
LDPE/LLDPE	1,940				
PP	4,250				
PS	760				
Other resins	3,370				
Total Plastics in Durable Goods	12,500	830	6.6%	1,490	10,180
Nondurable Goods [‡]					
Plastic Plates and Cups§					
LDPE/LLDPE	20				
PLA	20				
PP	160				
PS	850				
Subtotal Plastic Plates and Cups	1,050	Neg.	Neg.	210	840
Trash Bags					
HDPE	220				
LDPE/LLDPE	910				
Subtotal Trash Bags	1,130			220	910
All other nondurables*	,				
PET	680				
HDPE	560				
PVC	270				
LDPE/LLDPE	1,290				
PLA	30				
PP	1,490				
PS	200				
Other resins	620				
Subtotal All Other Nondurables	5,140	160	3.1%	970	4,010
Total Plastics in Nondurable Goods, by resin					·
PET	680				
HDPE	780				
PVC	270				
LDPE/LLDPE	2,220				
PLA	50				
PP	1,650				
PS	1,050				
Other resins	620				
Total Plastics in Nondurable Goods	7,320	160	2.2%	1,400	5,760

Table 8. Plastics in Products In MSW, 2015 (In thousands of tons and percent of generation by resin)

Product Category	Generation	Rec	ycled	Combusted with energy Recovery	Landfilled
Floudet Category	(Thousand	(Thousand	(Percent of	(Thousand	(Thousand
	tons)	tons)	generation)	tons)	tons)
Plastic Containers & Packaging					
Bottles and Jars**	2.000	200	20.00/	440	4.600
PET	2,980	890	29.9%	410	1,680
Natural Bottles†	7.0	220	20.20/	100	420
HDPE	760	230	30.3%	100	430
Other plastic containers	4.540	240	22.40/		
HDPE	1,540	340	22.1%		
PVC	20	Neg.			
LDPE/LLDPE	40	Neg.			
PP	250	20	8.0%		
PS	90	Neg.			
Subtotal Other Containers	1,940	360	18.6%	310	1,270
Bags, sacks, & wraps					
HDPE	730	40	5.5%		
PVC	60				
LDPE/LLDPE	2,610	490	18.8%		
PP	590				
PS	140				
Subtotal Bags, Sacks, & Wraps	4,130	530	12.8%	710	2,890
Other Plastics Packaging‡					
PET	940	50	5.3%		
HDPE	750	10	1.3%		
PVC	340	Neg.			
LDPE/LLDPE	1,120	Neg.			
PLA	10	Neg.			
PP	990	50	5.1%		
PS	330	30	9.1%		
Other resins	390	Neg.			
Subtotal Other Packaging	4,870	140	2.9%	930	3,800
Total Plastics in Containers & Packaging, by resin					
PET	3,920	940	24.0%		
HDPE	3,780	620	16.4%		
PVC	420	Neg.			
LDPE/LLDPE	3,770	490	13.0%		
PLA	10	Neg.			
PP	1,830	70	3.8%		
PS	560	30	5.4%		
Other resins	390	Neg.	3.170		
Total Plastics in Containers & Packaging	14,680	2,150	14.6%	2,460	10,070

Table 8. Plastics in Products In MSW, 2015

(In thousands of tons and percent of generation by resin)

Product Category	Generation	Rec	Combusted with energy Recovery	Landfilled	
Trouble Category	(Thousand tons)	(Thousand tons)	(Percent of generation)	(Thousand tons)	(Thousand tons)
Total Plastics in MSW, by resin					
PET	5,100	940	18.4%		
HDPE	6,040	620	10.3%		
PVC	890	Neg.			
LDPE/LLDPE	7,930	490	6.2%		
PLA	60	Neg.			
PP	7,730	70	0.9%		
PS	2,370	30	1.3%		
Other resins	4,380	990	22.6%		
Total Plastics in MSW	34,500	3,140	9.1%	5,350	26,010

- ‡ Nondurable goods other than containers and packaging.
- Due to source data aggregation, PET cups are included in "Other Plastic Packaging".
- * All other nondurables include plastics in disposable diapers, clothing, footwear, etc.
- ** Injection stretch blow molded PET containers as identified in *Report on Postconsumer PET Container Recycling Activity in 2014*. National Association for PET Container Resources. Recycling includes caps, lids and other material collected with PET bottles and iars.
- † White translucent homopolymer bottles as defined in the 2014 United States National Postconsumer Plastics Bottles Recycling Report. American Chemistry Council and the Association of Postconsumer Plastic Recyclers.

Neg. = negligible, less than 5,000 tons

HDPE = High density polyethylene PET = Polyethylene terephthalate PS = Polystyrene

LDPE = Low density polyethylene PP = Polypropylene PVC = Polyvinyl chloride

LLDPE = Linear low density polyethylene PLA = Polylactide

‡ Other plastic packaging includes coatings, closures, lids, PET cups, caps, clamshells, egg cartons, produce baskets, trays, shapes, loose fill, etc.

PP caps and lids recycled with PET bottles and jars are included in the recycling estimate for PET bottles and jars.

Other resins include commingled/undefined plastic packaging recycling.

Some detail of recycling by resin omitted due to lack of data.

Table 9. Rubber and Leather Products In MSW, 2015 (In thousands of tons and percent of generation)

Product Category	Generation	Rec	ycled	Combusted with energy Recovery	Landfilled
rroduct category	(Thousand tons)	(Thousand tons)	(Percent of generation)	(Thousand tons)	(Thousand tons)
Durable Goods					
Rubber in Tires*	3,750	1,510	40.3%	1,780	460
Other Durables**	3,600	Neg.	Neg.	490	3,110
Total Rubber & Leather					
Durable Goods	7,350	1,510	20.5%	2,270	3,570
Nondurable Goods					
Clothing and Footwear	860	Neg.	Neg.	170	690
Other Nondurables	270	Neg.	Neg.	50	220
Total Rubber & Leather					
Nondurable Goods	1,130	Neg.	Neg.	220	910
Total Rubber & Leather	8,480	1,510	17.8%	2,490	4,480

^{*} Automobile and truck tires. Does not include other materials in tires.

Neg. = Less than 5,000 tons or 0.05 percent.

Details may not add to totals due to rounding.

^{**} Includes carpets and rugs and other miscellaneous durables.

Table 10. Products Generated* in the Municipal Waste Stream, 1960 to 2015 (In thousands of tons and percent of total generation)

Products				Th	ousands of T	ons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	9,920	14,660	21,800	29,810	38,870	45,060	49,350	53,040	54,150
(Detail in Table 14)									
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	53,250	51,910	51,920
(Detail in Table 18)									
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	75,470	76,860	77,920
Detail in Table 22)									
Total Product** Wastes	54,620	83,280	108,890	146,510	178,720	185,040	178,070	181,810	183,990
Other Wastes									
Food	12,200	12,800	13,000	23,860	30,700	32,930	35,740	38,670	39,730
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	33,400	34,500	34,720
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,840	3,970	3,990
Total Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,980	77,140	78,440
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	251,050	258,950	262,430
Products				Percen	t of Total Ge	neration			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	19.7%	20.5%	20.6%
(Detail in Table 14)									
Nondurable Goods	19.7%	20.7%	22.7%	25.0%	26.3%	25.1%	21.2%	20.0%	19.8%
(Detail in Table 18)									
Containers and Packaging	31.1%	36.0%	34.7%	31.0%	31.2%	30.1%	30.1%	29.7%	29.7%
(Detail in Table 23)									
pecan in rabic 25)									
Total Product** Wastes	62.0%	68.8%	71.8%	70.3%	73.4%	72.9%	70.9%	70.2%	70.1%
,	62.0%	68.8%	71.8%	70.3%	73.4%	72.9%	70.9%	70.2%	70.1%
Total Product** Wastes	62.0%	68.8%	71.8%	70.3%	73.4% 12.6%	72.9%	70.9%	70.2%	70.1% 15.1%
Total Product** Wastes Other Wastes									
Total Product** Wastes Other Wastes Food	13.8%	10.6%	8.6%	11.5%	12.6%	13.0%	14.2%	14.9%	15.1%
Total Product** Wastes Other Wastes Food Yard Trimmings	13.8% 22.7%	10.6% 19.2%	8.6% 18.1%	11.5% 16.8%	12.6% 12.5%	13.0% 12.6%	14.2% 13.3%	14.9% 13.3%	15.1% 13.2%

^{*} Generation before materials recycling, composting, combustion with energy recovery or landfilling. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Other than food products.

Table 11. Products Recycled and Composted* in the Municipal Waste Stream, 1960 to 2015

(In thousands of tons and percent of generation of each product)

Products				The	ousands of T	ons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	350	940	1,360	3,460	6,580	7,970	9,390	10,140	10,250
(Detail in Table 15)									
Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	19,190	16,820	16,190
(Detail in Table 19)									
Containers and Packaging	2,870	3,350	8,490	16,780	28,870	31,500	36,680	39,590	41,330
Detail in Table 24)									
Total Product** Wastes	5,610	8,020	14,520	29,040	53,010	59,240	65,260	66,550	67,770
Other Wastes									
Food^	Neg.	Neg.	Neg.	Neg.	680	690	970	1,940	2,100
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	19,200	21,080	21,290
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,170	23,020	23,390
Total MSW Recycled and Composted - Weight	5,610	8,020	14,520	33,240	69,460	79,790	85,430	89,570	91,160
Products				Percent	t of Total Ge	neration			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	3.5%	6.4%	6.2%	11.6%	16.9%	17.7%	19.0%	19.1%	18.9%
(Detail in Table 15)									
Nondurable Goods	13.8%	14.9%	13.6%	16.9%	27.4%	31.1%	36.0%	32.4%	31.2%
(Detail in Table 19)									
Containers and Packaging	10.5%	7.7%	16.1%	26.0%	38.1%	41.3%	48.6%	51.5%	53.0%
(Detail in Table 25)									
Total Product** Wastes	10.3%	9.6%	13.3%	19.8%	29.7%	32.0%	36.6%	36.6%	36.8%
Other Wastes									
Food^	Neg.	Neg.	Neg.	Neg.	2.2%	2.1%	2.7%	5.0%	5.3%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	57.5%	61.1%	61.3%
					Al.	Non	Nog	Noa	Neg.
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	iveg.
Miscellaneous Inorganic Wastes Total Other Wastes	Neg. Neg.	Neg. Neg.	Neg.	Neg. 6.8%	Neg. 25.4%	29.9%	27.6%	29.8%	29.8%

Recycling and composting of postconsumer wastes; does not include converting/fabrication scrap. Details may not add to totals due to rounding.

^{**} Other than food products.

Includes collection of other MSW organics for composting.
 Neg. = Less than 5,000 tons or 0.05 percent.

Table 12. Products Combusted with Energy Recovery* in the Municipal Waste Stream, 1960 to 2015

(In thousands of tons and percent of total combusted)

Products				The	ousands of	Tons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods		60	440	4,480	6,260	6,750	7,070	8,410	8,600
(Detail in Table 16)									
Nondurable Goods		90	580	7,380	9,000	7,980	6,030	6,880	6,990
(Detail in Table 20)									
Containers and Packaging		150	880	8,110	9,110	8,160	6,870	7,310	7,190
Detail in Table 26)									
Total Product** Wastes		300	1,900	19,970	24,370	22,890	19,970	22,600	22,780
Other Wastes									
Food		50	260	4,060	5,820	5,870	6,150	7,200	7,380
Yard Trimmings		90	550	5,240	2,860	2,220	2,510	2,630	2,630
Miscellaneous Inorganic Wastes		10	50	490	680	670	680	780	780
Total Other Wastes		150	860	9,790	9,360	8,760	9,340	10,610	10,790
Total MSW Combusted with Energy Recovery - Weight		450	2,760	29,760	33,730	31,650	29,310	33,210	33,570
Products				Percent	of Total Co	mbusted			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods		13.3%	15.9%	15.1%	18.6%	21.3%	24.1%	25.4%	25.6%
(Detail in Table 16)									
Nondurable Goods		19.9%	21.0%	24.8%	26.7%	25.2%	20.6%	20.7%	20.9%
(Detail in Table 20)									
Containers and Packaging		33.3%	31.9%	27.3%	27.0%	25.8%	23.4%	22.0%	21.4%
(Detail in Table 27)									
Total Product** Wastes		66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%
Other Wastes									
Food		11.1%	9.4%	13.6%	17.3%	18.5%	21.0%	21.7%	22.0%
Yard Trimmings		20.0%	20.0%	17.6%	8.5%	7.0%	8.6%	7.9%	7.8%
Miscellaneous Inorganic Wastes		2.3%	1.8%	1.7%	1.9%	2.1%	2.3%	2.3%	2.3%
Total Other Wastes		33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%
Total MSW Combusted with Energy Recovery - %		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Products and materials combusted with energy recovery estimated at percentage total MSW after recycling and composting. In 2015, 19.6 percent of MSW after recycling and composting was combusted with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 13. Products Landfilled* in the Municipal Waste Stream, 1960 to 2015 (In thousands of tons and percent of total landfilled)

Products				The	ousands of To	ons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	9,570	13,660	20,000	21,870	26,030	30,340	32,890	34,490	35,300
(Detail in Table 17									
Nondurable Goods	14,940	21,240	29,170	35,990	37,450	35,900	28,030	28,210	28,74
(Detail in Table 21)									
Containers and Packaging	24,500	40,060	43,300	39,640	37,860	36,670	31,920	29,960	29,40
Detail in Table 28)									
Total Product** Wastes	49,010	74,960	92,470	97,500	101,340	102,910	92,840	92,660	93,44
Other Wastes									
Food	12,200	12,750	12,740	19,800	24,200	26,370	28,620	29,530	30,25
Yard Trimmings	20,000	23,110	26,950	25,560	11,900	9,990	11,690	10,790	10,80
Miscellaneous Inorganic Wastes	1,300	1,770	2,200	2,410	2,820	3,020	3,160	3,190	3,21
Total Other Wastes	33,500	37,630	41,890	47,770	38,920	39,380	43,470	43,510	44,26
Total MSW Landfilled - Weight	82,510	112,590	134,360	145,270	140,260	142,290	136,310	136,170	137,70
Products				Percen	t of Total Lar	ndfilled			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	11.6%	12.1%	14.9%	15.0%	18.6%	21.3%	24.1%	25.4%	25.69
(Detail in Table 17)									
Nondurable Goods	18.1%	18.9%	21.7%	24.8%	26.7%	25.2%	20.6%	20.7%	20.99
(Detail in Table 21)									
Containers and Packaging	29.7%	35.6%	32.2%	27.3%	27.0%	25.8%	23.4%	22.0%	21.49
(Detail in Table 29)									
Total Product** Wastes	59.4%	66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9
Other Wastes									
Food	14.8%	11.3%	9.5%	13.6%	17.3%	18.5%	21.0%	21.7%	22.0
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.0%	8.6%	7.9%	7.89
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	1.9%	2.2%	2.3%	2.3%	2.3
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1

^{*} Landfilling after recycling, composting and combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

Neg. = Less than 5,000 tons or 0.05 percent.

^{**} Other than food products.

Table 14. Products Generated* in the Municipal Waste Stream, 1960 to 2015 (With Detail On Durable Goods)

(In thousands of tons and percent of total generation)

Products				The	ousands of 1	ons			
roducts	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	2500	23,0	2300	1330					
Major Appliances	1,630	2,170	2,950	3,310	3,640	3,610	4,020	4,650	4,860
Small Appliances**	_,	_,	_,	460	1,040	1,180	1,830	1,960	1,960
Furniture and Furnishings	2,150	2,830	4,760	6,790	8,120	9,340	10,820	11,860	12,050
Carpets and Rugs**	,	,	,	1,660	2,460	2,960	3,720	3,730	3,630
Rubber Tires	1,120	1,890	2,720	3,610	4,930	4,910	5,130	5,560	5,840
Batteries, Lead-Acid	Neg.	820	1,490	1,510	2,280	2,750	3,020	3,230	3,130
Miscellaneous Durables	-0		,	,	,	,	- 7,	- ,	-,
Selected Consumer Electronics***					1,900	2,630	3,120	3,360	3,090
Other Miscellaneous Durables					14,500	17,680	17,690	18,690	19,590
Total Miscellaneous Durables	5,020	6,950	9,880	12,470	16,400	20,310	20,810	22,050	22,680
Total Durable Goods	9,920	14,660	21,800	29,810	38,870	45,060	49,350	53,040	54,150
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	53,250	51,910	51,920
(Detail in Table 18)	·	Í	, i	•	,	,	,		,
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	75,470	76,860	77,920
(Detail in Table 22)	·	Í	, i	•	,	,	,		,
Total Product Wastes†	54,620	83,280	108,890	146,510	178,720	185,040	178,070	181,810	183,990
Other Wastes					,		,		
Food	12,200	12,800	13,000	23,860	30,700	32,930	35,740	38,670	39,730
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	33,400	34,500	34,720
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,840	3,970	3,990
Total Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,980	77,140	78,440
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	251,050	258,950	262,430
Products				Percent	of Total Ge	neration			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods									
Major Appliances	1.8%	1.8%	1.9%	1.6%	1.5%	1.4%	1.6%	1.8%	1.8%
Small Appliances**									0.70/
Francisco and Francisco				0.2%	0.4%	0.5%	0.7%	0.8%	0.7%
Furniture and Furnishings	2.4%	2.3%	3.1%	0.2% 3.3%	0.4% 3.3%	0.5% 3.7%	0.7% 4.3%	0.8% 4.6%	4.6%
Carpets and Rugs**	2.4%	2.3%	3.1%						4.6%
-	2.4%	2.3%	3.1% 1.8%	3.3%	3.3%	3.7%	4.3%	4.6%	4.6% 1.4%
Carpets and Rugs**				3.3% 0.8%	3.3% 1.0%	3.7% 1.2%	4.3% 1.5%	4.6% 1.5%	4.6% 1.4% 2.2%
Carpets and Rugs** Rubber Tires	1.3%	1.6%	1.8%	3.3% 0.8% 1.7%	3.3% 1.0% 2.0%	3.7% 1.2% 1.9%	4.3% 1.5% 2.0%	4.6% 1.5% 2.1%	4.6% 1.4% 2.2%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid	1.3%	1.6%	1.8%	3.3% 0.8% 1.7%	3.3% 1.0% 2.0%	3.7% 1.2% 1.9%	4.3% 1.5% 2.0%	4.6% 1.5% 2.1%	4.6% 1.4% 2.2% 1.2%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables	1.3%	1.6%	1.8%	3.3% 0.8% 1.7%	3.3% 1.0% 2.0% 0.9%	3.7% 1.2% 1.9% 1.1%	4.3% 1.5% 2.0% 1.2%	4.6% 1.5% 2.1% 1.2%	4.6% 1.4% 2.2% 1.2%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics***	1.3%	1.6%	1.8%	3.3% 0.8% 1.7%	3.3% 1.0% 2.0% 0.9%	3.7% 1.2% 1.9% 1.1%	4.3% 1.5% 2.0% 1.2%	4.6% 1.5% 2.1% 1.2%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables	1.3% Neg.	1.6% 0.7%	1.8%	3.3% 0.8% 1.7% 0.7%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0%	4.3% 1.5% 2.0% 1.2% 1.2% 7.0%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables	1.3% Neg.	1.6% 0.7%	1.8% 1.0%	3.3% 0.8% 1.7% 0.7%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0%	4.3% 1.5% 2.0% 1.2% 1.2% 7.0% 8.3%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7% 20.6%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods	1.3% Neg. 5.7% 11.3%	1.6% 0.7% 5.7% 12.1%	1.8% 1.0% 6.5% 14.4%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8%	4.3% 1.5% 2.0% 1.2% 1.2% 7.0% 8.3% 19.7%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7% 20.6%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods	1.3% Neg. 5.7% 11.3%	1.6% 0.7% 5.7% 12.1%	1.8% 1.0% 6.5% 14.4%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8%	4.3% 1.5% 2.0% 1.2% 1.2% 7.0% 8.3% 19.7%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5%	4.6% 1.4% 2.2% 1.2% 7.5% 8.7% 20.6% 19.8%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18)	1.3% Neg. 5.7% 11.3% 19.7%	1.6% 0.7% 5.7% 12.1% 20.7%	1.8% 1.0% 6.5% 14.4% 22.7%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1%	4.3% 1.5% 2.0% 1.2% 7.0% 8.3% 19.7% 21.2%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0%	4.6% 1.4% 2.2% 1.2% 7.5% 8.7% 20.6% 19.8%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18) Containers and Packaging	1.3% Neg. 5.7% 11.3% 19.7%	1.6% 0.7% 5.7% 12.1% 20.7%	1.8% 1.0% 6.5% 14.4% 22.7%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1%	4.3% 1.5% 2.0% 1.2% 7.0% 8.3% 19.7% 21.2%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7% 20.6% 19.8%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18) Containers and Packaging (Detail in Table 23)	1.3% Neg. 5.7% 11.3% 19.7%	1.6% 0.7% 5.7% 12.1% 20.7%	1.8% 1.0% 6.5% 14.4% 22.7% 34.7%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1%	4.3% 1.5% 2.0% 1.2% 1.2% 7.0% 8.3% 19.7% 21.2%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0%	4.6% 1.4% 2.2% 1.2% 7.5% 8.7% 20.6% 19.8%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18) Containers and Packaging (Detail in Table 23) Total Product Wastes†	1.3% Neg. 5.7% 11.3% 19.7%	1.6% 0.7% 5.7% 12.1% 20.7%	1.8% 1.0% 6.5% 14.4% 22.7% 34.7%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1%	4.3% 1.5% 2.0% 1.2% 1.2% 7.0% 8.3% 19.7% 21.2%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7% 20.6% 19.8% 70.1%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18) Containers and Packaging (Detail in Table 23) Total Product Wastes† Other Wastes	1.3% Neg. 5.7% 11.3% 19.7% 31.1%	1.6% 0.7% 5.7% 12.1% 20.7% 36.0%	1.8% 1.0% 6.5% 14.4% 22.7% 34.7%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0% 31.0%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3% 31.2%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1% 30.1%	4.3% 1.5% 2.0% 1.2% 7.0% 8.3% 19.7% 21.2% 30.1%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0% 29.7%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7% 20.6% 19.8% 70.1%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18) Containers and Packaging (Detail in Table 23) Total Product Wastes† Other Wastes Food	1.3% Neg. 5.7% 11.3% 19.7% 31.1%	1.6% 0.7% 5.7% 12.1% 20.7% 36.0%	1.8% 1.0% 6.5% 14.4% 22.7% 34.7% 71.8%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0% 31.0% 70.3%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3% 31.2%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1% 30.1%	4.3% 1.5% 2.0% 1.2% 7.0% 8.3% 19.7% 21.2% 30.1%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0% 29.7%	4.6% 1.4% 2.2% 1.2% 1.2% 7.5% 8.7% 20.6% 19.8% 70.1% 15.1% 13.2%
Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 18) Containers and Packaging (Detail in Table 23) Total Product Wastes† Other Wastes Food Yard Trimmings	1.3% Neg. 5.7% 11.3% 19.7% 31.1% 62.0%	1.6% 0.7% 5.7% 12.1% 20.7% 36.0% 68.8%	1.8% 1.0% 6.5% 14.4% 22.7% 34.7% 71.8%	3.3% 0.8% 1.7% 0.7% 6.0% 14.3% 25.0% 31.0% 70.3% 11.5% 16.8%	3.3% 1.0% 2.0% 0.9% 0.8% 6.0% 6.7% 16.0% 26.3% 31.2% 73.4%	3.7% 1.2% 1.9% 1.1% 1.0% 7.0% 8.0% 17.8% 25.1% 30.1% 72.9%	4.3% 1.5% 2.0% 1.2% 7.0% 8.3% 19.7% 21.2% 30.1% 70.9%	4.6% 1.5% 2.1% 1.2% 1.3% 7.2% 8.5% 20.5% 20.0% 29.7% 14.9% 13.4%	

^{*} Generation before materials recycling, composting, combustion with energy recovery or landfilling. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Not estimated separately prior to 1990.

[†] Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent.

^{***} Not estimated separately prior to 2000.

Table 15. Products Recycled and Composted* in the Municipal Waste Stream,
1960 to 2015
(With Detail On Durable Goods)

(In thousands of tons and percent of generation of each product)

Products				Thou	sands of To	ons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods									
Major Appliances	10	50	130	1,070	2,000	2,420	2,610	2,710	3,000
Small Appliances**				10	20	20	120	120	120
Furniture and Furnishings	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	10	10	10
Carpets and Rugs**				Neg.	190	250	270	210	190
Rubber Tires	330	250	150	440	1,290	1,640	2,270	2,250	2,350
Batteries, Lead-Acid	Neg.	620	1,040	1,470	2,130	2,640	2,980	3,200	3,100
Miscellaneous Durables									
Selected Consumer Electronics***					190	360	650	1,400	1,230
Other Miscellaneous Durables					760	640	480	240	250
Total Miscellaneous Durables	10	20	40	470	950	1,000	1,130	1,640	1,480
Total Durable Goods	350	940	1,360	3,460	6,580	7,970	9,390	10,140	10,250
Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	19,190	16,820	16,190
(Detail in Table 19)	, ,			· L	,	, , <u>, , , , , , , , , , , , , , , , , </u>	, ,		•
Containers and Packaging	2,870	3,350	8,490	16,780	28,870	31,500	36,680	39,590	41,330
(Detail in Table 24)									•
Total Product Wastes†	5,610	8,020	14,520	29,040	53,010	59,240	65,260	66,550	67,770
Other Wastes	,					,			<u> </u>
Food^	Neg.	Neg.	Neg.	Neg.	680	690	970	1,940	2,100
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	19,200	21,080	21,290
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,170	23,020	23,390
Total MSW Recycled and Composted - Weight	5,610	8,020	14,520	33,240	69,460	79,790	85,430	89,570	91,160
				Percent o	f Total Gen	eration			
Products	1960	1970	1980	Percent o	f Total Gen 2000	eration 2005	2010	2014	2015
	1960	1970	1980	$\overline{}$			2010	2014	2015
Products Durable Goods	1960		1980	1990		2005	2010		
Products Durable Goods Major Appliances		2.3%		1990 32.3%	2000 54.9%	2005 67.0%	64.9%	58.3%	61.7%
Products Durable Goods Major Appliances Small Appliances**	0.6%	2.3%	4.4%	32.3% 2.2%	54.9% 1.9%	67.0% 1.7%	64.9% 6.6%	58.3% 6.1%	61.7% 6.1%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings				1990 32.3% 2.2% Neg.	2000 54.9% 1.9% Neg.	2005 67.0% 1.7% Neg.	64.9% 6.6% 0.1%	58.3% 6.1% 0.1%	61.7% 6.1% 0.1%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs**	0.6% Neg.	2.3% Neg.	4.4% Neg.	32.3% 2.2% Neg. Neg.	54.9% 1.9% Neg. 7.7%	2005 67.0% 1.7% Neg. 8.4%	64.9% 6.6% 0.1% 7.3%	58.3% 6.1% 0.1% 5.6%	61.7% 6.1% 0.1% 5.2%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires	0.6% Neg.	2.3%	4.4%	1990 32.3% 2.2% Neg.	2000 54.9% 1.9% Neg. 7.7% 26.2%	2005 67.0% 1.7% Neg. 8.4% 33.4%	64.9% 6.6% 0.1%	58.3% 6.1% 0.1%	61.7% 6.1% 0.1% 5.2% 40.2%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs**	0.6% Neg.	2.3% Neg.	4.4% Neg.	1990 32.3% 2.2% Neg. Neg. 12.2%	54.9% 1.9% Neg. 7.7%	2005 67.0% 1.7% Neg. 8.4%	64.9% 6.6% 0.1% 7.3% 44.2%	58.3% 6.1% 0.1% 5.6% 40.5%	61.7% 6.1% 0.1% 5.2%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid	0.6% Neg.	2.3% Neg.	4.4% Neg.	1990 32.3% 2.2% Neg. Neg. 12.2%	54.9% 1.9% Neg. 7.7% 26.2% 93.4%	67.0% 1.7% Neg. 8.4% 33.4% 96.0%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7%	58.3% 6.1% 0.1% 5.6% 40.5%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables	0.6% Neg.	2.3% Neg.	4.4% Neg.	1990 32.3% 2.2% Neg. Neg. 12.2%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4%	67.0% 1.7% Neg. 8.4% 33.4% 96.0%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics***	0.6% Neg.	2.3% Neg. 13.2% 75.6%	4.4% Neg. 5.5% 69.8%	1990 32.3% 2.2% Neg. Neg. 12.2%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables	0.6% Neg. 29.5% Neg.	2.3% Neg. 13.2% 75.6%	4.4% Neg. 5.5% 69.8%	1990 32.3% 2.2% Neg. Neg. 12.2% 97.4%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5%
Products Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables	0.6% Neg. 29.5% Neg. 0.2%	2.3% Neg. 13.2% 75.6%	4.4% Neg. 5.5% 69.8% 0.4% 6.2%	1990 32.3% 2.2% Neg. Neg. 12.2% 97.4%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods	0.6% Neg. 29.5% Neg.	2.3% Neg. 13.2% 75.6%	4.4% Neg. 5.5% 69.8%	1990 32.3% 2.2% Neg. Neg. 12.2% 97.4%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19)	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8%	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9%	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6%	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9% 31.2%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods	0.6% Neg. 29.5% Neg. 0.2%	2.3% Neg. 13.2% 75.6%	4.4% Neg. 5.5% 69.8% 0.4% 6.2%	1990 32.3% 2.2% Neg. Neg. 12.2% 97.4%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8%	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9%	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6%	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9% 31.2%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging (Detail in Table 25)	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8%	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9%	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6%	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9% 31.2%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging (Detail in Table 25) Total Product Wastes*	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8% 10.5%	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9% 7.7%	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6% 16.1%	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9% 31.2%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging (Detail in Table 25) Total Product Wastes* Other Wastes Food^	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8% 10.5%	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9% 7.7% 9.6% Neg.	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6% 16.1% Neg.	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9% 26.0%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4% 38.1% 29.7%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1% 41.3%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0% 48.6%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4% 51.5%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 31.2% 53.0%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging (Detail in Table 25) Total Product Wastes† Other Wastes	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8% 10.5% Neg. Neg.	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9% 7.7% 9.6% Neg. Neg.	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6% 16.1% Neg. Neg.	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9% Peg. 12.0%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4% 38.1% 29.7%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1% 41.3% 2.1% 61.9%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0% 48.6% 2.7% 57.5%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4% 51.5% 5.0% 61.1%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 31.2% 53.0%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging (Detail in Table 25) Total Product Wastes* Food^ Yard Trimmings	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8% 10.5% Neg. Neg. Neg. Neg. Neg.	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9% 7.7% 9.6% Neg. Neg. Neg.	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6% 16.1% Neg. Neg. Neg. Neg.	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9% Peg. 12.0% Neg. Neg.	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4% 38.1% 29.7% Neg.	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1% 41.3% 2.1% 61.9% Neg.	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0% 48.6% 2.7% 57.5% Neg.	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4% 51.5% 5.0% 61.1% Neg.	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9% 31.2% 53.0% 53.0%
Durable Goods Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 19) Containers and Packaging (Detail in Table 25) Total Product Wastes† Other Wastes Food^ Yard Trimmings Miscellaneous Inorganic Wastes	0.6% Neg. 29.5% Neg. 0.2% 3.5% 13.8% 10.5% Neg. Neg.	2.3% Neg. 13.2% 75.6% 0.3% 6.4% 14.9% 7.7% 9.6% Neg. Neg.	4.4% Neg. 5.5% 69.8% 0.4% 6.2% 13.6% 16.1% Neg. Neg.	32.3% 2.2% Neg. Neg. 12.2% 97.4% 3.8% 11.6% 16.9% Peg. 12.0%	2000 54.9% 1.9% Neg. 7.7% 26.2% 93.4% 10.0% 5.2% 5.8% 16.9% 27.4% 38.1% 29.7%	2005 67.0% 1.7% Neg. 8.4% 33.4% 96.0% 13.7% 3.6% 4.9% 17.7% 31.1% 41.3% 2.1% 61.9%	64.9% 6.6% 0.1% 7.3% 44.2% 98.7% 20.8% 2.7% 5.4% 19.0% 36.0% 48.6% 2.7% 57.5%	58.3% 6.1% 0.1% 5.6% 40.5% 99.1% 41.7% 1.3% 7.4% 19.1% 32.4% 51.5% 5.0% 61.1%	61.7% 6.1% 0.1% 5.2% 40.2% 99.0% 39.8% 1.3% 6.5% 18.9% 31.2% 53.0%

^{*} Recycling and composting of postconsumer wastes; does not include converting/fabrication scrap. Details may not add to totals due to rounding.

Neg. = Less than 5,000 tons or 0.05 percent.

^{**} Not estimated separately prior to 1990. † Other than food products.

^{***} Not estimated separately prior to 2000.

[^] Includes collection of other MSW organics for composting.

Table 16. Products Combusted with Energy Recovery* in the Municipal Waste Stream, 1960 to 2015
(With Detail On Durable Goods)

(In thousands of tons and percent of total combusted)

Products				Tho	usands of	Tons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods									
Major Appliances ^{± §}		0	0	0	0	0	0	0	0
Small Appliances**				90	200	200	310	370	370
Furniture and Furnishings		Neg.	90	1,150	1,570	1,700	1,910	2,320	2,350
Carpets and Rugs**				290	440	490	610	690	670
Rubber Tires§		Neg.	30	400	2,260	2,390	2,000	3,080	2,780
Batteries, Lead-Acid [±]		0	0	0	0	0	0	0	0
Miscellaneous Durables									
Selected Consumer Electronics									
Other Miscellaneous Durables									
Total Miscellaneous Durables⁵		60	320	2,550	1,790	1,970	2,240	1,950	2,430
Total Durable Goods		60	440	4,480	6,260	6,750	7,070	8,410	8,600
Nondurable Goods		90	580	7,380	9,000	7,980	6,030	6,880	6,990
(Detail in Table 20)									
Containers and Packaging		150	880	8,110	9,110	8,160	6,870	7,310	7,190
(Detail in Table 26)									
Total Product Wastes†		300	1,900	19,970	24,370	22,890	19,970	22,600	22,780
Other Wastes									
Food		50	260	4,060	5,820	5,870	6,150	7,200	7,380
Yard Trimmings		90	550	5,240	2,860	2,220	2,510	2,630	2,630
Miscellaneous Inorganic Wastes		10	50	490	680	670	680	780	780
Total Other Wastes		150	860	9,790	9,360	8,760	9,340	10,610	10,790
Total MSW Combusted with Energy Recovery -		450	2,760	29,760	33,730	31,650	29,310	33,210	33,570
Weight		450	2,760	29,700	33,730	31,030	29,310	55,210	33,370
Products				Percent	of Total Co	mbusted			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods									
Major Appliances ^{± §}		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Small Appliances**				0.3%	0.6%	0.6%	1.1%	1.1%	1.1%
Furniture and Furnishings		Neg.	3.3%	3.9%	4.7%	5.4%	6.5%	7.0%	7.0%
Carpets and Rugs**				1.0%	1.3%	1.5%	2.1%	2.1%	2.0%
Rubber Tires§		Neg.	1.1%	1.3%	6.7%	7.6%	6.8%	9.3%	8.3%
Batteries, Lead-Acid [±]		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Miscellaneous Durables									
Selected Consumer Electronics									
Other Miscellaneous Durables									
Total Miscellaneous Durables§		13.3%	11.6%	8.6%	5.3%	6.2%	7.6%	5.9%	7.2%
Total Durable Goods		13.3%	15.9%	15.1%	18.6%	21.3%	24.1%	25.4%	25.6%
Nondurable Goods		19.9%	21.0%	24.8%	26.7%	25.2%	20.6%	20.7%	20.9%
(Detail in Table 20)									
Containers and Packaging		33.3%	31.9%	27.3%	27.0%	25.8%	23.4%	22.0%	21.4%
(Detail in Table 27)									
Total Product Wastes†		66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%

Table 16. Products Combusted with Energy Recovery* in the Municipal Waste Stream, 1960 to 2014 (With Detail On Durable Goods)

(In thousands of tons and percent of total combusted)

Products		Percent of Total Combusted									
	1960	1970	1980	1990	2000	2005	2010	2014	2015		
Other Wastes											
Food		11.1%	9.4%	13.6%	17.3%	18.5%	21.0%	21.7%	22.0%		
Yard Trimmings		20.0%	20.0%	17.6%	8.5%	7.0%	8.6%	7.9%	7.8%		
Miscellaneous Inorganic Wastes		2.3%	1.8%	1.7%	1.9%	2.1%	2.3%	2.3%	2.3%		
Total Other Wastes		33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%		
Total MSW Combusted with Energy Recovery - %		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

^{*} Products and materials combusted with energy recovery estimated at percentage total MSW after recovery for recycling and composting. In 2015, 19.6 percent of MSW after recycling and composting was combusted with energy recovery except for major appliances, tires and lead-acid batteries. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

- ** Not estimated separately prior to 1990.
- Other than food products.
- § Tires: tires to fuel based on industry percentage estimates applied to tire generation. *Total Miscellaneous Durables*: calculated as difference between total durable goods going to combustion and individual durable goods shown. The amounts of consumer electronics going to combustion with energy recovery are not available and are included in Total Miscellaneous Durables.
- ± Energy Recovery Council, 2016. Major appliances and lead-acid batteries are not accepted at waste-to-energy facilities.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 17. Products Landfilled* in the Municipal Waste Stream, 1960 to 2015 (With Detail On Durable Goods)

(In thousands of tons and percent of total landfilled)

Products				Tho	usands of T	ons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods									
Major Appliances	1,620	2,120	2,820	2,240	1,640	1,190	1,410	1,940	1,860
Small Appliances**				360	820	960	1,400	1,470	1,470
Furniture and Furnishings	2,150	2,830	4,670	5,640	6,550	7,640	8,900	9,530	9,690
Carpets and Rugs**				1,370	1,830	2,220	2,840	2,830	2,770
Rubber Tires	790	1,640	2,540	2,770	1,380	880	860	230	710
Batteries, Lead-Acid		200	450	40	150	110	40	30	30
Miscellaneous Durables									
Selected Consumer Electronics***									
Other Miscellaneous Durables									
Total Miscellaneous Durables	5,010	6,870	9,520	9,450	13,660	17,340	17,440	18,460	18,770
Total Durable Goods	9,570	13,660	20,000	21,870	26,030	30,340	32,890	34,490	35,300
Nondurable Goods	14,940	21,240	29,170	35,990	37,450	35,900	28,030	28,210	28,740
(Detail in Table 21)									
Containers and Packaging	24,500	40,060	43,300	39,640	37,860	36,670	31,920	29,960	29,400
(Detail in Table 28)									
Total Product Wastes†	49,010	74,960	92,470	97,500	101,340	102,910	92,840	92,660	93,440
Other Wastes									
Food	12,200	12,750	12,740	19,800	24,200	26,370	28,620	29,530	30,250
Yard Trimmings	20,000	23,110	26,950	25,560	11,900	9,990	11,690	10,790	10,800
Miscellaneous Inorganic Wastes	1,300	1,770	2,200	2,410	2,820	3,020	3,160	3,190	3,210
Total Other Wastes	33,500	37,630	41,890	47,770	38,920	39,380	43,470	43,510	44,260
Total MSW Landfilled- Weight	82,510	112,590	134,360	145,270	140,260	142,290	136,310	136,170	137,700
Products				Percent	of Total La	ndfilled			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods Major Appliances	2.0%	1970	2.1%	1990	1.2%	0.8%	1.0%	1.4%	2015
Major Appliances				1.5%	1.2%	0.8%	1.0%	1.4%	1.4%
Major Appliances Small Appliances**	2.0%	1.9%	2.1%	1.5% 0.2%	1.2% 0.6%	0.8% 0.7%	1.0% 1.0%	1.4% 1.1%	1.4% 1.1%
Major Appliances Small Appliances** Furniture and Furnishings	2.0%	1.9%	2.1%	1.5% 0.2% 3.9%	1.2% 0.6% 4.7%	0.8% 0.7% 5.4%	1.0% 1.0% 6.5%	1.4% 1.1% 7.0%	1.4% 1.1% 7.0%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs**	2.0%	1.9%	2.1%	1.5% 0.2% 3.9% 0.9%	1.2% 0.6% 4.7% 1.3%	0.8% 0.7% 5.4% 1.5%	1.0% 1.0% 6.5% 2.1%	1.4% 1.1% 7.0% 2.1%	1.4% 1.1% 7.0% 2.0%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables	2.0%	1.9% 2.5% 1.5%	2.1% 3.5% 1.9%	1.5% 0.2% 3.9% 0.9% 1.9%	1.2% 0.6% 4.7% 1.3% 1.0%	0.8% 0.7% 5.4% 1.5% 0.6%	1.0% 1.0% 6.5% 2.1% 0.6%	1.4% 1.1% 7.0% 2.1% 0.2%	1.4% 1.1% 7.0% 2.0% 0.5%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid	2.0%	1.9% 2.5% 1.5%	2.1% 3.5% 1.9%	1.5% 0.2% 3.9% 0.9% 1.9%	1.2% 0.6% 4.7% 1.3% 1.0%	0.8% 0.7% 5.4% 1.5% 0.6%	1.0% 1.0% 6.5% 2.1% 0.6%	1.4% 1.1% 7.0% 2.1% 0.2%	1.4% 1.1% 7.0% 2.0% 0.5%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables	2.0%	1.9% 2.5% 1.5% 0.2%	2.1% 3.5% 1.9% 0.3%	1.5% 0.2% 3.9% 0.9% 1.9%	1.2% 0.6% 4.7% 1.3% 1.0%	0.8% 0.7% 5.4% 1.5% 0.6%	1.0% 1.0% 6.5% 2.1% 0.6%	1.4% 1.1% 7.0% 2.1% 0.2%	1.4% 1.1% 7.0% 2.0% 0.5%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics***	2.0%	1.9% 2.5% 1.5%	2.1% 3.5% 1.9%	1.5% 0.2% 3.9% 0.9% 1.9%	1.2% 0.6% 4.7% 1.3% 1.0%	0.8% 0.7% 5.4% 1.5% 0.6%	1.0% 1.0% 6.5% 2.1% 0.6%	1.4% 1.1% 7.0% 2.1% 0.2%	1.4% 1.1% 7.0% 2.0% 0.5%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables	2.0% 2.6% 1.0% Neg.	1.9% 2.5% 1.5% 0.2%	2.1% 3.5% 1.9% 0.3%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg.	1.4% 1.1% 7.0% 2.0% 0.5% Neg.
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables	2.0% 2.6% 1.0% Neg.	1.9% 2.5% 1.5% 0.2%	2.1% 3.5% 1.9% 0.3%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg.	1.4% 1.1% 7.0% 2.0% 0.5% Neg.
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods	2.0% 2.6% 1.0% Neg. 6.1% 11.6%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg.	1.4% 1.1% 7.0% 2.0% 0.5% Neg.
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods	2.0% 2.6% 1.0% Neg. 6.1% 11.6%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg.	1.4% 1.1% 7.0% 2.0% 0.5% Neg.
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21)	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 18.1%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21) Containers and Packaging	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 18.1%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21) Containers and Packaging (Detail in Table 29)	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 18.1%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7% 32.2%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7% 27.0%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1% 12.8% 24.1% 20.6% 23.4%	1.4% 1.1% 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21) Containers and Packaging (Detail in Table 29) Total Product Wastes†	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 18.1% 29.7%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7% 32.2%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1% 12.8% 24.1% 20.6%	1.4% 1.1% 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21) Containers and Packaging (Detail in Table 29) Total Product Wastes† Other Wastes Food Yard Trimmings	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 18.1% 29.7%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9% 35.6%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7% 32.2%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8% 27.3%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7% 27.0%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2% 25.8%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1% 12.8% 24.1% 20.6% 23.4% 68.1%	1.4% 1.1% 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9% 21.4%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21) Containers and Packaging (Detail in Table 29) Total Product Wastes† Other Wastes Food	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 18.1% 29.7%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9% 35.6% 66.6%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7% 32.2% 68.8%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8% 27.3%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7% 27.0%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2% 25.8%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1% 12.8% 24.1% 20.6% 23.4%	1.4% 1.1% 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7% 22.0%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9% 21.4% 67.9%
Major Appliances Small Appliances** Furniture and Furnishings Carpets and Rugs** Rubber Tires Batteries, Lead-Acid Miscellaneous Durables Selected Consumer Electronics*** Other Miscellaneous Durables Total Miscellaneous Durables Total Durable Goods Nondurable Goods (Detail in Table 21) Containers and Packaging (Detail in Table 29) Total Product Wastes† Other Wastes Food Yard Trimmings	2.0% 2.6% 1.0% Neg. 6.1% 11.6% 12.7% 14.8% 14.8% 24.2%	1.9% 2.5% 1.5% 0.2% 6.1% 12.1% 18.9% 35.6% 66.6% 11.3% 20.5%	2.1% 3.5% 1.9% 0.3% 7.1% 14.9% 21.7% 32.2% 68.8% 9.5% 20.1%	1.5% 0.2% 3.9% 0.9% 1.9% 0.1% 6.5% 15.0% 24.8% 27.3% 67.1% 13.6% 17.6%	1.2% 0.6% 4.7% 1.3% 1.0% 0.1% 9.7% 18.6% 26.7% 27.0% 72.3%	0.8% 0.7% 5.4% 1.5% 0.6% 0.1% 12.2% 21.3% 25.2% 25.8% 72.3%	1.0% 1.0% 6.5% 2.1% 0.6% 0.1% 12.8% 24.1% 20.6% 23.4% 68.1%	1.4% 1.19 7.0% 2.1% 0.2% Neg. 13.6% 25.4% 20.7% 22.0% 68.1%	1.4% 1.1% 7.0% 2.0% 0.5% Neg. 13.6% 25.6% 20.9%

^{*} Landfilling after recycling, composting and combustion with energy recovery. Details may not add to totals due to rounding.

^{**} Not estimated separately prior to 1990.

^{***} The amount of consumer electronics going to combustion with energy recovery versus landfilling are not available. These products are included in Total Miscellaneous Durables.

[†] Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 18. Products Generated* in the Municipal Waste Stream, 1960 to 2015 (With Detail on Nondurable Goods)

(In thousands of tons and percent of generation of each product)

Products		•		Tho	usands of To	ns	,		
roducts	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	9,920	14,660	21,800	29,810	38,870	45,060	49,350	53,040	54,150
(Detail in Table 14)	, ,	, i	·	,	,	•	,	, ,	,
Nondurable Goods									
Newspapers/Mechanical Papers†	7,110	9,510	11,050	13,430	14,790	12,790	9,880	7,620	6,730
Directories†**			·	610	680	660	-	-	-
Other Paper Nondurable Goods									
Books and Magazines	1,920	2,470	3,390						
Books**			·	970	1,240	1,100	990	830	800
Magazines**				2,830	2,230	2,580	1,590	1,260	1,190
Office-Type Papers***	1,520	2,650	4,000	6,410	7,420	6,620	5,260	4,530	4,530
Standard Mail§	, , ,	,	,	3,820	5,570	5,830	4,340	4,050	4,050
Other Commercial Printing†	1,260	2,130	3,120	4,460	7,380	6,440	2,480	2,190	2,080
Tissue Paper and Towels	1,090	2,080	2,300	2,960	3,220	3,460	3,490	3,640	3,680
Paper Plates and Cups	270	420	630	650	960	1,160	1,350	1,380	1,360
Other Nonpackaging Paper	2,700	3,630	4,230	3,840	4,250	4,490	4,190	3,970	3,700
Total Other Paper Nondurable Goods	,	7,111	,	-,-	,	,	23,690	21,850	21,390
Disposable Diapers	Neg.	350	1,930	2,700	3,230	3,410	3,700	4,180	4,280
Plastic Plates and Cups§	1156		190	650	870	930	890	1,020	1,050
Trash Bags**				780	850	1,060	980	1,000	1,130
Clothing and Footwear	1,360	1,620	2,170	4,010	6,470	7,890	9,100	11,170	11,940
Towels, Sheets and Pillowcases**	_,	_,		710	820	980	1,290	1,270	1,350
Other Miscellaneous Nondurables	100	200	1,410	3,340	4,030	4,250	3,720	3,800	4,050
Total Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	53,250	51,910	51,920
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	75,470	76,860	77,920
(Detail in Table 22)	,,	10,000	0=/0:0	0 1,000		. 0,000	,	. 0,000	,
Total Product Wastes‡	54,620	83,280	108,890	146,510	178,720	185,040	178,070	181,810	183,990
Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,980	77,140	78,440
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	251,050	258,950	262,430
Products					neration of E				
Products	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	19.7%	20.5%	20.6%
(Detail in Table 14)	11.570	12.1/0	14.4/0	14.570	10.076	17.070	13.770	20.5/6	20.076
Nondurable Goods									
Newspapers/Mechanical Papers†	8.1%	7.9%	7.3%	6.4%	6.1%	5.0%	3.9%	2.9%	2.6%
Directories***	0.170	7.570	7.570	0.4%	0.3%	0.3%	3.370	2.570	2.070
Other Paper Nondurable Goods				0.570	0.570	0.570	-	-	
Books and Magazines	2.2%	2.0%	2.2%						
Books**	2.270	2.070	2.270	0.5%	0.5%	0.4%	0.4%	0.3%	0.3%
Magazines**				1.4%	0.9%	1.0%	0.4%	0.5%	0.5%
Office-Type Papers***	1.7%	2.2%	2.6%	3.1%	3.0%	2.6%	2.1%	1.8%	1.8%
Standard Mail§	1.770	2.270	2.070	1.8%	2.3%	2.3%	1.7%	1.6%	1.5%
Other Commercial Printing†	1.4%	1.8%	2.1%	2.1%	3.0%	2.5%	1.0%	0.8%	0.8%
Tissue Paper and Towels	1.2%	1.7%	1.5%	1.4%	1.3%	1.4%	1.4%	1.4%	1.4%
Paper Plates and Cups	0.3%	0.3%	0.4%	0.3%	0.4%	0.5%	0.5%	0.5%	0.5%
Other Nonpackaging Paper	3.1%	3.0%	2.8%	1.8%	1.7%	1.8%	1.7%	1.6%	1.5%
Total Other Paper Nondurable Goods	3.1/0	3.070	2.070	1.0/0	1.770	1.0/0	9.4%	8.5%	8.3%
Disposable Diapers	Nog	0.3%	1.3%	1.3%	1.3%	1.3%	1.5%	1.6%	1.6%
Plastic Plates and Cups§	Neg.	0.570	0.1%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%
Trash Bags**			0.1%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%
11a511 Dags				0.4%	0.5%	0.4%	0.4%	0.4%	0.4%

Table 18. Products Generated* in the Municipal Waste Stream, 1960 to 2015 (With Detail on Nondurable Goods)

(In thousands of tons and percent of generation of each product)

Products			Pe	rcent of Ge	neration of	Each Produc	:t		
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Clothing and Footwear	1.5%	1.3%	1.4%	1.9%	2.7%	3.1%	3.6%	4.3%	4.5%
Towels, Sheets and Pillowcases**				0.3%	0.3%	0.4%	0.5%	0.5%	0.5%
Other Miscellaneous Nondurables	0.1%	0.2%	0.9%	1.6%	1.7%	1.7%	1.5%	1.5%	1.5%
Total Nondurables	19.7%	20.7%	22.7%	25.0%	26.3%	25.1%	21.2%	20.0%	19.8%
Containers and Packaging	31.1%	36.0%	34.7%	31.0%	31.2%	30.1%	30.1%	29.7%	29.7%
(Detail in Table 23)									
Total Product Wastes‡	62.0%	68.8%	71.8%	70.3%	73.4%	72.9%	70.9%	70.2%	70.1%
Other Wastes	38.0%	31.2%	28.2%	29.7%	26.6%	27.1%	29.1%	29.8%	29.9%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

- * Generation before materials recycling, composting, combustion with energy recovery or landfilling. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.
- * Starting in 2010, newsprint and groundwood inserts expanded to include directories and other mechanical papers previously counted as Other Commercial Printing.
- ** Not estimated separately prior to 1990.
- *** High-grade paper such as printer paper; generated in both commercial and residential sources.
- § Standard Mail: Not estimated separately prior to 1990. Formerly called Third Class Mail and Standard (A) Mail by the U.S. Postal Service.
- § Plastic Plates and Cups: Not estimated separately prior to 1980.
- ‡ Other than food products.
- Detailed data not available.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 19. Products Recycled and Composted* in Municipal Solid Waste, 1960 to 2015 (With Detail on Nondurable Goods)

(In thousands of tons and percent of generation of each product)

Products	Thousands of Tons										
	1960	1970	1980	1990	2000	2005	2010	2014	2015		
Durable Goods	350	940	1,360	3,460	6,580	7,970	9,390	10,140	10,250		
(Detail in Table 15)											
Nondurable Goods											
Newspapers/Mechanical Papers†	1,820	2,250	3,020	5,110	8,720	9,360	7,070	5,200	4,790		
Directories [†] **				50	120	120	-	-	-		
Other Paper Nondurable Goods											
Books and Magazines	100	260	280								
Books**				100	240	270	-	-	-		
Magazines**				300	710	960	-	-	-		
Office-Type Papers***	250	710	870	1,700	4,090	4,110	-	-	-		
Standard Mail§				200	1,830	2,090	-	-	-		
Other Commercial Printing†	130	340	350	700	810	1,440	-	-	-		
Tissue Paper and Towels	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	-	-	-		
Paper Plates and Cups	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	-	-	-		
Other Nonpackaging Paper	40	110	Neg.	Neg.	Neg.	Neg.	-	-	-		
Total Other Paper Nondurable Goods							10,650	9,710	9,330		
Disposable Diapers				Neg.	Neg.	Neg.	Neg.	Neg.	Neg.		
Plastic Plates and Cups§			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.		
Trash Bags**				Neg.	Neg.	Neg.	Neg.	Neg.	Neg.		
Clothing and Footwear	50	60	150	520	900	1,250	1,250	1,540	1,690		
Towels, Sheets and Pillowcases**				120	140	170	220	230	220		
Other Miscellaneous Nondurables	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	140	160		
Total Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	19,190	16,820	16,190		
Containers and Packaging	2,870	3,350	8,490	16,780	28,870	31,500	36,680	39,590	41,330		
(Detail in Table 24)											
Total Product Wastes‡	5,610	8,020	14,520	29,040	53,010	59,240	65,260	66,550	67,770		
Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,170	23,020	23,390		
Total MSW Recycled and Composted - Weight	5,610	8,020	14,520	33,240	69,460	79,790	85,430	89,570	91,160		
Products			Per	rcent of Ge	neration of I	Each Produ	ct				
	1960	1970	1980	1990	2000	2005	2010	2014	2015		
Durable Goods	3.5%	6.4%	6.2%	11.6%	16.9%	17.7%	19.0%	19.1%	18.9%		
(Detail in Table 15)											
Nondurable Goods											
Newspapers/Mechanical Papers†	25.6%	23.7%	27.3%	38.0%	59.0%	73.2%	71.6%	68.2%	71.2%		
Directories†**				8.2%	17.6%	18.2%	-	-	-		
Other Paper Nondurable Goods											
Books and Magazines	5.2%	10.5%	8.3%								
Books**				10.3%	19.4%	24.5%	-	-	-		
Magazines**				10.6%	31.8%	37.2%	-	-	-		
Office-Type Papers***	16.4%	26.8%	21.8%	26.5%	55.1%	62.1%	-	-	-		
Standard Mail§				5.2%	32.9%	35.8%	-	-	-		
Other Commercial Printing†	10.3%	16.0%	11.2%	15.7%	11.0%	22.4%	-	-	-		
Tissue Paper and Towels	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	-	-	-		
Paper Plates and Cups	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	-	-	-		
Other Nonpackaging Paper	1.5%	3.0%	Neg.	Neg.	Neg.	Neg.	-	-	-		
Total Other Paper Nondurable Goods							45.0%	44.4%	43.6%		

Table 19. Products Recycled and Composted* in Municipal Solid Waste, 1960 to 2015

(With Detail on Nondurable Goods)

(In thousands of tons and percent of generation of each product)

Products			Pe	rcent of Ge	neration of I	Each Produc	t		
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Disposable Diapers				Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Plastic Plates and Cups§			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Trash Bags**				Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Clothing and Footwear	Neg.	Neg.	Neg.	13.0%	13.9%	15.8%	13.7%	13.8%	14.2%
Towels, Sheets and Pillowcases**				16.9%	17.1%	17.3%	17.1%	18.1%	16.3%
Other Miscellaneous Nondurables	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	3.7%	4.0%
Total Nondurables	13.8%	14.9%	13.6%	16.9%	27.4%	31.1%	36.0%	32.4%	31.2%
Containers and Packaging	10.5%	7.7%	16.1%	26.0%	38.1%	41.3%	48.6%	51.5%	53.0%
(Detail in Table 25)									
Total Product Wastes‡	10.3%	9.6%	13.3%	19.8%	29.7%	32.0%	36.6%	36.6%	36.8%
Other Wastes	Neg.	Neg.	Neg.	6.8%	25.4%	29.9%	27.6%	29.8%	29.8%
Total MSW Recycled and Composted - %	6.4%	6.6%	9.6%	16.0%	28.5%	31.4%	34.0%	34.6%	34.7%

- * Recycling and composting of postconsumer wastes; does not include converting/fabrication scrap. Details may not add to totals due to rounding.
- * Starting in 2010, newsprint and groundwood inserts expanded to include directories and other mechanical papers previously counted as Other Commercial Printing.
- ** Not estimated separately prior to 1990.
- *** High-grade paper such as printer paper; generated in both commercial and residential sources.
- § Standard Mail: Not estimated separately prior to 1990. Formerly called Third Class Mail and Standard (A) Mail by the U.S. Postal Service.
- § Plastic Plates and Cups: Not estimated separately prior to 1980.
- ‡ Other than food products.
- Detailed data not available.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 20. Products Combusted with Energy Recovery* in Municipal Solid Waste, 1960 to 2015
(With Detail on Nondurable Goods)

(In thousands of tons and percent of total combusted)

•	Products Thousands of Tons											
1100000	1960	1970	1980	1990	2000	2005	2010	2014	2015			
Durable Goods	0	60	440	4,480	6,260	6,750	7,070	8,410	8,600			
(Detail in Table 16)				.,	3,233	3,.55	1,010	5,125	-,,,,,,,			
Nondurable Goods												
Newspapers/Mechanical												
Papers†	0	30	160	1,420	1,180	620	500	470	380			
Directories†**				100	110	100	-	-	-			
Other Paper Nondurable Goods												
Books and Magazines	0	10	60									
Books**				150	190	150	-	-	-			
Magazines**				430	290	290	-	-	-			
Office-Type Papers***	0	10	60	800	650	460	-	-	-			
Standard Mail§		-		620	730	680	-	-	-			
Other Commercial Printing†	0	10	60	640	1,270	910	-	-	-			
Tissue Paper and Towels	0	10	50	500	620	630	-	-	-			
Paper Plates and Cups	0	Neg.	10	110	190	210	-	-	_			
Other Nonpackaging Paper	0	10	80	650	820	820	-	_	_			
Total Other Paper Nondurable	U	10		030	020	020						
Goods							2,310	2,380	2,360			
Disposable Diapers		Neg.	30	460	630	620	650	820	840			
Plastic Plates and Cups§		J	Neg.	110	170	170	160	200	210			
Trash Bags**			J	130	160	190	170	200	220			
Clothing and Footwear	0	10	50	590	1,080	1,210	1,390	1,890	2,010			
Towels, Sheets and		-			,	, .	,	,	,			
Pillowcases**				100	130	150	190	200	220			
Other Miscellaneous												
Nondurables	0	Neg.	20	570	780	770	660	720	750			
Total Nondurables	0	90	580	7,380	9,000	7,980	6,030	6,880	6,990			
Containers and Packaging	0	150	880	8,110	9,110	8,160	6,870	7,310	7,190			
(Detail in Table 26)												
Total Product Wastes‡	0	300	1,900	19,970	24,370	22,890	19,970	22,600	22,780			
Other Wastes	0	150	860	9,790	9,360	8,760	9,340	10,610	10,790			
Total MSW Combusted with Energy												
Recovery - Weight	0	450	2,760	29,760	33,730	31,650	29,310	33,210	33,570			
Products	ļ				t of Total Com							
	1960	1970	1980	1990	2000	2005	2010	2014	2015			
Durable Goods		13.3%	15.9%	15.1%	18.6%	21.3%	24.1%	25.4%	25.6%			
(Detail in Table 16)												
Nondurable Goods												
Newspapers/Mechanical												
Papers†		6.7%	5.8%	4.8%	3.5%	2.0%	1.7%	1.4%	1.1%			
Directories†**				0.3%	0.3%	0.3%	-	-	-			
Other Paper Nondurable Goods												
Books and Magazines		2.2%	2.2%									
Books**				0.5%	0.6%	0.5%	-	-	-			
Magazines**				1.4%	0.9%	0.9%	-	-	-			
Office-Type Papers***		2.2%	2.2%	2.7%	1.8%	1.4%	-	-	-			
Standard Mail§				2.1%	2.2%	2.1%	-	-	-			
Other Commercial Printing†		2.2%	2.2%	2.2%	3.8%	2.9%	-	-	-			

Table 20. Products Combusted with Energy Recovery* in Municipal Solid Waste, 1960 to 2015 (With Detail on Nondurable Goods)

(In thousands of tons and percent of total combusted)

Products	Percent of Total Combusted									
	1960	1970	1980	1990	2000	2005	2010	2014	2015	
Tissue Paper and Towels		2.2%	1.8%	1.7%	1.8%	2.0%	-	-	-	
Paper Plates and Cups		Neg.	0.4%	0.4%	0.6%	0.7%	-	-	-	
Other Nonpackaging Paper		2.2%	2.8%	2.2%	2.4%	2.6%	-	-	-	
Total Other Paper Nondurable Goods							7.9%	7.2%	7.0%	
Disposable Diapers		Neg.	1.1%	1.5%	1.9%	2.0%	2.2%	2.5%	2.5%	
Plastic Plates and Cups§			Neg.	0.4%	0.5%	0.5%	0.5%	0.6%	0.6%	
Trash Bags**				0.4%	0.5%	0.6%	0.6%	0.6%	0.7%	
Clothing and Footwear		2.2%	1.8%	2.0%	3.2%	3.8%	4.7%	5.7%	6.0%	
Towels, Sheets and Pillowcases**				0.3%	0.4%	0.5%	0.7%	0.6%	0.7%	
Other Miscellaneous Nondurables		Neg.	0.7%	1.9%	2.3%	2.4%	2.3%	2.1%	2.3%	
Total Nondurables		19.9%	21.0%	24.8%	26.7%	25.2%	20.6%	20.7%	20.9%	
Containers and Packaging		33.3%	31.9%	27.3%	27.0%	25.8%	23.4%	22.0%	21.4%	
(Detail in Table 27)										
Total Product Wastes‡		66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%	
Other Wastes		33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%	
Total MSW Combusted with Energy Recovery - %		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

^{*} Products and materials combusted with energy recovery estimated at percentage total MSW after recovery for recycling and composting. In 2015, 19.6 percent of MSW after recycling and composting was combusted with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

Neg. = Less than 5,000 tons or 0.05 percent.

^{*} Starting in 2010, newsprint and groundwood inserts expanded to include directories and other mechanical papers previously counted as Other Commercial Printing.

^{**} Not estimated separately prior to 1990.

^{***} High-grade paper such as printer paper; generated in both commercial and residential sources.

[§] Standard Mail: Not estimated separately prior to 1990. Formerly called Third Class Mail and Standard (A) Mail by the U.S. Postal Service.

[§] Plastic Plates and Cups: Not estimated separately prior to 1980.

[‡] Other than food products.

⁻ Detailed data not available.

Table 21. Products Landfilled* in Municipal Solid Waste, 1960 to 2015 (With Detail on Nondurable Goods)

(In thousands of tons and percent of total landfilled)

Products	Thousands of Tons										
	1960	1970	1980	1990	2000	2005	2010	2014	2015		
Durable Goods	9,570	13,660	20,000	21,870	26,030	30,340	32,890	34,490	35,300		
(Detail in Table 17)											
Nondurable Goods											
Newspapers/Mechanical Papers†	5,290	7,230	7,870	6,900	4,890	2,810	2,310	1,950	1,560		
Directories**				460	450	440	-	-	-		
Other Paper Nondurable Goods											
Books and Magazines	1,820	2,200	3,050								
Books**				720	810	680	-	-	-		
Magazines**				2,100	1,230	1,330	-	-	-		
Office-Type Papers***	1,270	1,930	3,070	3,910	2,680	2,050	-	-	-		
Standard Mail§				3,000	3,010	3,060	-	-	-		
Other Commercial Printing†	1,130	1,780	2,710	3,120	5,300	4,090	-	-	-		
Tissue Paper and Towels	1,090	2,070	2,250	2,460	2,600	2,830	-	-	-		
Paper Plates and Cups	270	420	620	540	770	950	-	-	-		
Other Nonpackaging Paper	2,660	3,510	4,150	3,190	3,430	3,670	-	-	-		
Total Other Paper Nondurable Goods							10,730	9,760	9,700		
Disposable Diapers		350	1,900	2,240	2,600	2,790	3,050	3,360	3,440		
Plastic Plates and Cups§			190	540	700	760	730	820	840		
Trash Bags**				650	690	870	810	800	910		
Clothing and Footwear	1,310	1,550	1,970	2,900	4,490	5,430	6,460	7,740	8,240		
Towels, Sheets and Pillowcases**				490	550	660	880	840	910		
Other Miscellaneous Nondurables	100	200	1,390	2,770	3,250	3,480	3,060	2,940	3,140		
Total Nondurables	14,940	21,240	29,170	35,990	37,450	35,900	28,030	28,210	28,740		
Containers and Packaging	24,500	40,060	43,300	39,640	37,860	36,670	31,920	29,960	29,400		
(Detail in Table 28)	·	·	,	•	•	·	,	, ,	,		
Total Product Wastes‡	49,010	74,960	92,470	97,500	101,340	102,910	92,840	92,660	93,440		
Other Wastes	33,500	37,630	41,890	47,770	38,920	39,380	43,470	43,510	44,260		
Total MSW Landfilled - Weight	82,510	112,590	134,360	145,270	140,260	142,290	136,310	136,170	137,700		
Products				Percen	t of Total La	ndfilled					
	1960	1970	1980	1990	2000	2005	2010	2014	2015		
Durable Goods	11.6%	12.1%	14.9%	15.1%	18.6%	21.3%	24.1%	25.4%	25.6%		
(Detail in Table 17)											
Nondurable Goods											
Newspapers/Mechanical Papers†	6.4%	6.4%	5.9%	4.7%	3.5%	2.0%	1.7%	1.4%	1.1%		
Directories***				0.3%	0.3%	0.3%	-	-	-		
Other Paper Nondurable Goods											
Books and Magazines	2.2%	2.0%	2.3%								
Books**	,,,			0.5%	0.6%	0.5%	-	-	-		
Magazines**				1.4%	0.9%	0.9%	-	-	-		
Office-Type Papers***	1.5%	1.7%	2.3%	2.7%	1.9%	1.4%	-	-	-		
Standard Mail§	,	2,3		2.1%	2.1%	2.1%	-	-	_		

Table 21. Products Landfilled* in Municipal Solid Waste, 1960 to 2015 (With Detail on Nondurable Goods)

(In thousands of tons and percent of total landfilled)

Products				Percen	nt of Total La	ındfilled			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Other Commercial Printing†	1.4%	1.6%	2.0%	2.1%	3.8%	2.9%	-	-	-
Tissue Paper and Towels	1.3%	1.8%	1.7%	1.7%	1.9%	2.0%	-	-	-
Paper Plates and Cups	0.3%	0.4%	0.5%	0.4%	0.5%	0.7%	-	-	-
Other Nonpackaging Paper	3.2%	3.1%	3.1%	2.2%	2.4%	2.6%	-	-	-
Total Other Paper Nondurable Goods							7.9%	7.2%	7.0%
Disposable Diapers	Neg.	0.3%	1.4%	1.5%	1.9%	2.0%	2.2%	2.5%	2.5%
Plastic Plates and Cups§			0.1%	0.4%	0.5%	0.5%	0.5%	0.6%	0.6%
Trash Bags**				0.4%	0.5%	0.6%	0.6%	0.6%	0.7%
Clothing and Footwear	1.6%	1.4%	1.5%	2.0%	3.2%	3.8%	4.7%	5.7%	6.0%
Towels, Sheets and Pillowcases**				0.3%	0.4%	0.5%	0.6%	0.6%	0.7%
Other Miscellaneous Nondurables	0.1%	0.2%	1.0%	1.9%	2.3%	2.4%	2.3%	2.1%	2.3%
Total Nondurables	18.1%	18.9%	21.7%	24.8%	26.7%	25.2%	20.6%	20.7%	20.9%
Containers and Packaging	29.7%	35.6%	32.2%	27.3%	27.0%	25.8%	23.4%	22.0%	21.4%
(Detail in Table 29)									
Total Product Wastes‡	59.4%	66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%
Other Wastes	40.6%	33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%
Total MSW Landfilled - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Landfilling after recycling, composting and combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

[†] Starting in 2010, newsprint and groundwood inserts expanded to include directories and other mechanical papers previously counted as Other Commercial Printing.

^{**} Not estimated separately prior to 1990.

^{***} High-grade paper such as printer paper; generated in both commercial and residential sources.

[§] Standard Mail: Not estimated separately prior to 1990. Formerly called Third Class Mail and Standard (A) Mail by the U.S. Postal Service.

[§] Plastic Plates and Cups: Not estimated separately prior to 1980.

[‡] Other than food products.

Detailed data not available.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 22. Products Generated* in the Municipal Waste Stream, 1960 to 2015 (With Detail on Containers and Packaging)

(In thousands of tons)

Products				Tho	ousands of To	ns			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	9,920	14,660	21,800	29,810	38,870	45,060	49,350	53,040	54,150
(Detail in Table 14)									
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	53,250	51,910	51,920
(Detail in Table 18)				_					
Containers and Packaging									
Glass Packaging									
Beer and Soft Drink Bottles**	1,400	5,580	6,740	5,640	5,710	6,540	5,670	5,370	5,320
Wine and Liquor Bottles	1,080	1,900	2,450	2,030	1,910	1,630	1,700	1,790	1,810
Other Bottles & Jars	3,710	4,440	4,780	4,160	3,420	2,290	1,990	2,040	1,990
Total Glass Packaging	6,190	11,920	13,970	11,830	11,040	10,460	9,360	9,200	9,120
Steel Packaging	-,	,-	-,-	,	,	-,			
Beer and Soft Drink Cans	640	1,570	520	150	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	3,760	3,540	2,850	2,540	2,630	2,130	2,300	1,850	1,740
Other Steel Packaging	260	270	240	200	240	240	440	510	480
Total Steel Packaging	4,660	5,380	3,610	2,890	2,870	2,370	2,740	2,360	2,220
Aluminum Packaging	7,000	3,300	3,010	2,030	2,010	2,370	2,740	2,300	2,220
Beer and Soft Drink Cans	Non	100	850	1,550	1,520	1,450	1,370	1,250	1,220
Other Cans	Neg.	60	40	20	50	80	70	1,230	1,220
Foil and Closures	170	410	380	330	380	400	460	430	490
	170	570							
Total Aluminum Packaging Paper & Paperboard Pkg	1/0	5/0	1,270	1,900	1,950	1,930	1,900	1,810	1,840
	7 220	12.760	17.000	24.010	20.210	20.020	20.050	20.400	21 220
Corrugated Boxes	7,330	12,760	17,080	24,010	30,210	30,930	29,050	30,490	31,330
Other Paper & Paperboard Pkg			700	F40	550	500	F 40	500	500
Gable Top/Aseptic Cartons‡			790	510	550	500	540	590	590
Folding Cartons	2.040	4.020	3,820	4,300	5,820	5,530	5,470	5,410	5,380
Other Paperboard Packaging	3,840	4,830	230	290	200	160	90	70	70
Bags and Sacks			3,380	2,440	1,490	1,120	1,040	880	930
Wrapping Papers	2.040	2.040	200	110	Neg.	Neg.	Neg.	Neg.	Neg.
Other Paper Packaging	2,940	3,810	850	1,020	1,670	1,400	1,490	1,690	1,620
Subtotal Other Paper & Paperboard Pkg	6,780	8,640	9,270	8,670	9,730	8,710	8,630	8,640	8,590
Total Paper & Board Pkg	14,110	21,400	26,350	32,680	39,940	39,640	37,680	39,130	39,920
Plastics Packaging									
PET Bottles and Jars			260	430	1,720	2,540	2,670	2,920	2,980
HDPE Natural Bottles			230	530	690	800	800	780	760
Other Containers	60	910	890	1,430	1,740	1,420	1,830	1,850	1,940
Bags and Sacks			390	940	1,650	1,640	770	-	-
Wraps			840	1,530	2,550	2,810	3,160	-	-
Subtotal Bags, Sacks, and Wraps			1,230	2,470	4,200	4,450	3,930	4,050	4,130
Other Plastics Packaging	60	1,180	790	2,040	2,840	3,210	4,450	4,720	4,870
Total Plastics Packaging	120	2,090	3,400	6,900	11,190	12,420	13,680	14,320	14,680
Other Packaging									
Wood Packaging	2,000	2,070	3,940	8,180	8,610	9,230	9,770	9,680	9,770
Other Misc. Packaging	120	130	130	150	240	280	340	360	370
Total Containers & Pkg	27,370	43,560	52,670	64,530	75,840	76,330	75,470	76,860	77,920
Total Product Wastes†	54,620	83,280	108,890	146,510	178,720	185,040	178,070	181,810	183,990
Other Wastes									
Food	12,200	12,800	13,000	23,860	30,700	32,930	35,740	38,670	39,730
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	33,400	34,500	34,720
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,840	3,970	3,990
Total Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,980	77,140	78,440
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	251,050	258,950	262,430

^{*} Generation before materials recycling, composting, combustion with energy recovery or landfilling. Details may not add to totals due to rounding.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

[‡] Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

[†] Other than food products. Neg. = Less than 5,000 tons or 0.05 percent. NA = Not Available - Detailed data not available.

Table 23. Products Generated* in the Municipal Waste Stream, 1960 to 2015 (With Detail on Containers and Packaging)

(In percent of total generation)

Droducts	Products Percent of total generation											
Products	1960	1970	1980	1990	2000	2005	2010	2014	2015			
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	19.7%	20.5%	20.6%			
(Detail in Table 14)	11.5%	12.170	14.470	14.5%	10.0%	17.0%	19.770	20.5%	20.0%			
Nondurable Goods	19.7%	20.7%	22.7%	25.0%	26.3%	25.1%	21.2%	20.0%	19.8%			
(Detail in Table 18)	13.770	20.770	22.770	23.076	20.370	23.1/0	21.2/0	20.076	13.070			
Containers and Packaging												
Glass Packaging												
Beer and Soft Drink Bottles**	1.6%	4.6%	4.4%	2.7%	2.3%	2.6%	2.3%	2.1%	2.0%			
Wine and Liquor Bottles	1.0%	1.6%	1.6%	1.0%	0.8%	0.6%	0.7%	0.7%	0.7%			
Other Bottles & Jars	4.2%	3.7%	3.2%	2.0%	1.4%	0.0%	0.7%	0.7%	0.7%			
Total Glass Packaging	7.0%	9.8%	9.2%	5.7%	4.5%	4.1%	3.7%	3.6%	3.5%			
Steel Packaging	7.070	3.676	3.270	3.770	4.370	4.1/0	3.770	3.076	3.370			
Beer and Soft Drink Cans	0.7%	1.3%	0.3%	0.1%	Nog	Nog	Nog	Nog	Nog			
Cans	4.3%	2.9%	1.9%	1.2%	Neg. 1.1%	Neg. 0.8%	Neg. 0.9%	Neg. 0.7%	Neg. 0.7%			
Other Steel Packaging	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%			
Total Steel Packaging	5.3%	4.4%	2.4%	1.4%	1.2%	0.9%	1.1%	0.9%	0.9%			
Aluminum Packaging Roor and Soft Drink Cans	Nog	0.10/	0.69/	0.70/	0.69/	0.6%	O E0/	O E0/	O E0/			
Beer and Soft Drink Cans	Neg.	0.1%	0.6%	0.7%	0.6%	0.6%	0.5%	0.5%	0.5%			
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.03%	0.05%	0.05%			
Foil and Closures	0.2%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%			
Total Aluminum Packaging	0.2%	0.5%	0.8%	0.9%	0.8%	0.8%	0.8%	0.8%	0.8%			
Paper & Paperboard Pkg	0.20/	40.50/	44.20/	44.50/	42.40/	42.20/	44.60/	44.00/	44.00/			
Corrugated Boxes	8.3%	10.5%	11.3%	11.5%	12.4%	12.2%	11.6%	11.8%	11.9%			
Other Paper & Paperboard Pkg			0.50/	0.20/	0.20/	0.20/	0.20/	0.20/	0.20/			
Gable Top/Aseptic Cartons‡			0.5%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%			
Folding Cartons	4.40/	4.00/	2.5%	2.1%	2.4%	2.2%	2.2%	2.1%	2.1%			
Other Paperboard Packaging	4.4%	4.0%	0.2%	0.1%	0.1%	0.1%	0.0%	Neg.	Neg.			
Bags and Sacks			2.2%	1.2%	0.6%	0.4%	0.4%	0.3%	0.4%			
Wrapping Papers		2 111	0.1%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg.			
Other Paper Packaging	3.3%	3.1%	0.6%	0.5%	0.7%	0.6%	0.6%	0.7%	0.6%			
Subtotal Other Paper & Paperboard Pkg		. = ==:	.=				3.4%	3.3%	3.2%			
Total Paper & Board Pkg	16.0%	17.7%	17.4%	15.7%	16.4%	15.6%	15.0%	15.0%	15.1%			
Plastics Packaging												
PET Bottles and Jars			0.2%	0.2%	0.7%	1.0%	1.1%	1.1%	1.1%			
HDPE Natural Bottles	2 111	2 22/	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%			
Other Containers	0.1%	0.8%	0.6%	0.7%	0.7%	0.6%	0.7%	0.7%	0.7%			
Bags and Sacks			0.3%	0.5%	0.7%	0.6%	0.3%	-	-			
Wraps			0.6%	0.7%	1.0%	1.1%	1.3%	-	-			
Subtotal Bags, Sacks, and Wraps	2 111		0.8%	1.2%	1.7%	1.8%	1.6%	1.56%	1.6%			
Other Plastics Packaging	0.1%	1.0%	0.5%	1.0%	1.2%	1.3%	1.8%	1.8%	1.8%			
Total Plastics Packaging	0.1%	1.7%	2.2%	3.3%	4.6%	4.9%	5.4%	5.5%	5.5%			
Other Packaging								6 == /	:			
Wood Packaging	2.3%	1.7%	2.6%	3.9%	3.5%	3.6%	3.9%	3.7%	3.7%			
Other Misc. Packaging	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%			
Total Containers & Pkg	31.1%	36.0%	34.7%	31.0%	31.2%	30.1%	30.1%	29.7%	29.7%			
Total Product Wastes†	62.0%	68.8%	71.8%	70.3%	73.4%	72.9%	70.9%	70.2%	70.1%			
Other Wastes	40.00	46.551	6.55	40	40.00	40.000	4	40.000	4=			
Food	13.8%	10.6%	8.6%	11.5%	12.6%	13.0%	14.2%	14.9%	15.1%			
Yard Trimmings	22.7%	19.2%	18.1%	16.8%	12.5%	12.6%	13.3%	13.3%	13.3%			
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.4%	1.5%	1.5%	1.5%	1.5%			
Total Other Wastes	38.0%	31.2%	28.2%	29.7%	26.6%	27.1%	29.1%	29.8%	29.9%			
Total MSW Recycled and Composted - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			

Generation before materials recycling, composting, combustion with energy recovery or landfilling. Details may not add to totals due to rounding.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

Includes milk, juice, and other products packaged in gable top cartons and liquid food aseptic cartons.

[†] Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent.

Table 24. Products Recycled and Composted* in Municipal Solid Waste, 1960 to 2015 (With Detail on Containers and Packaging)

(In thousands of tons)

Products	Thousands of Tons										
	1960	1970	1980	1990	2000	2005	2010	2014	2015		
Durable Goods	350	940	1,360	3,460	6,580	7,970	9,390	10,140	10,250		
(Detail in Table 15)											
Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	19,190	16,820	16,190		
(Detail in Table 19)											
Containers and Packaging											
Glass Packaging											
Beer and Soft Drink Bottles**	90	140	730	1,890	1,530	2,000	2,350	2,120	2,230		
Wine and Liquor Bottles	10	10	20	210	430	250	540	570	500		
Other Bottles & Jars	Neg.	Neg.	Neg.	520	920	340	240	300	300		
Total Glass Packaging	100	150	750	2,620	2,880	2,590	3,130	2,990	3,030		
Steel Packaging											
Beer and Soft Drink Cans	10	20	50	40	Neg.	Neg.					
Cans	20	60	150	590	1,530	1,340	1,540	1,300	1,240		
Other Steel Packaging	Neg.	Neg.	Neg.	60	160	160	350	410	380		
Total Steel Packaging	30	80	200	690	1,690	1,500	1,890	1,710	1,620		
Aluminum Packaging											
Beer and Soft Drink Cans	Neg.	10	320	990	830	650	680	710	670		
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	NA	NA	NA		
Foil and Closures	Neg.	Neg.	Neg.	20	30	40	NA	NA	NA		
Total Aluminum Pkg	Neg.	10	320	1,010	860	690	680	710	670		
Paper & Paperboard Pkg											
Corrugated Boxes	2,520	2,760	6,390	11,530	20,330	22,100	24,690	27,280	28,930		
Other Paper & Paperboard Pkg											
Gable Top/Aseptic Cartons‡			Neg.	Neg.	Neg.	Neg.	-	-	-		
Folding Cartons			520	340	410	1,190	-	-	-		
Other Paperboard Packaging			Neg.	Neg.	Neg.	Neg.	-	-	-		
Bags and Sacks			Neg.	200	300	320	-	-	-		
Wrapping Papers			Neg.	Neg.	Neg.	Neg.	-	-	-		
Other Paper Packaging	220	350	300	Neg.	Neg.	Neg.	-	-	-		
Subtotal Other Paper & Paperboard Pkg							2,160	2,210	2,270		
Total Paper & Board Pkg	2,740	3,110	7,210	12,070	21,040	23,610	26,850	29,490	31,200		
Plastics Packaging											
PET Bottles and Jars			10	140	380	590	780	910	890		
HDPE Natural Bottles			Neg.	20	210	230	220	230	230		
Other Containers	Neg.	Neg.	Neg.	20	170	140	300	360	360		
Bags and Sacks								-	-		
Wraps								-	-		
Subtotal Bags, Sacks, and Wraps			Neg.	60	180	230	450	500	530		
Other Plastics Packaging	Neg.	Neg.	Neg.	20	90	90	100	120	140		
Total Plastics Packaging	Neg.	Neg.	10	260	1,030	1,280	1,850	2,120	2,150		
Other Packaging											
Wood Packaging	Neg.	Neg.	Neg.	130	1,370	1,830	2,280	2,570	2,660		
Other Misc. Packaging	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.		
Total Containers & Pkg	2,870	3,350	8,490	16,780	28,870	31,500	36,680	39,590	41,330		
Total Product Wastes†	5,610	8,020	14,520	29,040	53,010	59,240	65,260	66,550	67,770		

Table 24. Products Recycled and Composted* in Municipal Solid Waste, 1960 to 2015 (With Detail on Containers and Packaging)

(In thousands of tons)

Products	Thousands of Tons									
	1960	1970	1980	1990	2000	2005	2010	2014	2015	
Other Wastes										
Food^	Neg.	Neg.	Neg.	Neg.	680	690	970	1,940	2,100	
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	19,200	21,080	21,290	
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,170	23,020	23,390	
Total MSW Recycled and Composted - Weight	5,610	8,020	14,520	33,240	69,460	79,790	85,430	89,570	91,160	

Recycling and composting of postconsumer wastes; does not include converting/fabrication scrap. Details may not add to totals due to rounding. Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

Other than food products.

Includes collection of other MSW organics for composting.

Neg. = Less than 5,000 tons or 0.05 percent.

NA = Not Available

- Detailed data not available.

Table 25. Products Recycled and Composted* in Municipal Solid Waste, 1960 to 2015

(With Detail on Containers and Packaging)

(In percent of generation of each product)

Products	(III percei	J = 1				Each Produc	t		
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	3.5%	6.4%	6.2%	11.6%	16.9%	17.7%	19.0%	19.1%	18.9%
(Detail in Table 15)									
Nondurable Goods	13.8%	14.9%	13.6%	16.9%	27.4%	31.1%	36.0%	32.4%	31.2%
(Detail in Table 19)									
Containers and Packaging									
Glass Packaging									
Beer and Soft Drink Bottles**	6.4%	2.5%	10.8%	33.5%	26.8%	30.6%	41.4%	39.5%	41.9%
Wine and Liquor Bottles	Neg.	Neg.	Neg.	10.3%	22.5%	15.3%	31.8%	31.8%	27.6%
Other Bottles & Jars	Neg.	Neg.	Neg.	12.5%	26.9%	14.8%	12.1%	14.7%	15.1%
Total Glass Packaging	1.6%	1.3%	5.4%	22.1%	26.1%	24.8%	33.4%	32.5%	33.2%
Steel Packaging									
Beer and Soft Drink Cans	1.6%	1.3%	9.6%	26.7%	Neg.	Neg.			
Cans	Neg.	1.7%	5.3%	23.2%	58.2%	62.9%	67.0%	70.3%	71.3%
Other Steel Packaging	Neg.	Neg.	Neg.	30.0%	66.7%	66.7%	79.5%	80.4%	79.2%
Total Steel Packaging	Neg.	1.5%	5.5%	23.9%	58.9%	63.3%	69.0%	72.5%	73.0%
Aluminum Packaging									
Beer and Soft Drink Cans	Neg.	10.0%	37.6%	63.9%	54.6%	44.8%	49.6%	56.8%	54.9%
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	NA	NA	NA
Foil and Closures	Neg.	Neg.	Neg.	6.1%	7.9%	10.0%	NA	NA	NA
Total Aluminum Pkg	Neg.	1.8%	25.2%	53.2%	44.1%	35.8%	35.8%	39.2%	36.4%
Paper & Paperboard Pkg									
Corrugated Boxes	34.4%	21.6%	37.4%	48.0%	67.3%	71.5%	85.0%	89.5%	92.3%
Other Paper & Paperboard Pkg									
Gable Top/Aseptic Cartons‡			Neg.	Neg.	Neg.	Neg.	-	-	-
Folding Cartons			Neg.	Neg.	7.0%	21.5%	-	-	-
Other Paperboard Packaging			Neg.	Neg.	Neg.	Neg.	-	-	-
Bags and Sacks			Neg.	Neg.	20.1%	28.6%	-	-	-
Wrapping Papers			Neg.	Neg.	Neg.	Neg.	-	-	-
Other Paper Packaging	7.5%	9.2%	35.3%	Neg.	Neg.	Neg.	-	-	-
Subtotal Other Paper & Paperboard									
Pkg							25.0%	25.6%	26.4%
Total Paper & Board Pkg	19.4%	14.5%	27.4%	36.9%	52.7%	59.6%	71.3%	75.4%	78.2%
Plastics Packaging									
PET Bottles and Jars			3.8%	32.6%	22.1%	23.2%	29.2%	31.2%	29.9%
HDPE Natural Bottles			Neg.	3.8%	30.4%	28.8%	27.5%	29.5%	30.3%
Other Containers	Neg.	Neg.	Neg.	1.4%	9.8%	9.9%	16.4%	19.5%	18.6%
Bags and Sacks									
Wraps	ļ		-			1 1		-	
Subtotal Bags, Sacks, and Wraps			Neg.	2.4%	4.3%	5.2%	11.5%	12.3%	12.8%
Other Plastics Packaging	Neg.	Neg.	Neg.	1.0%	3.2%	2.8%	2.2%	2.5%	2.9%
Total Plastics Packaging	Neg.	Neg.	Neg.	3.8%	9.2%	10.3%	13.5%	14.8%	14.6%
Other Packaging									
Wood Packaging	Neg.	Neg.	Neg.	1.6%	15.9%	19.8%	23.3%	26.5%	27.2%
Other Misc. Packaging	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Containers & Pkg	10.5%	7.7%	16.1%	26.0%	38.1%	41.3%	48.6%	51.5%	53.0%
Total Product Wastes†	10.3%	9.6%	13.3%	19.8%	29.7%	32.0%	36.6%	36.6%	36.8%

Table 25. Products Recycled and Composted* in Municipal Solid Waste, 1960 to 2015

(With Detail on Containers and Packaging)

(In percent of generation of each product)

Products		Percent of Generation of Each Product							
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Other Wastes									
Food^	Neg.	Neg.	Neg.	Neg.	2.2%	2.1%	2.7%	5.0%	5.3%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	57.5%	61.1%	61.3%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	6.8%	25.4%	29.9%	27.6%	29.8%	29.8%
Total MSW Recycled and Composted - %	6.4%	6.6%	9.6%	16.0%	28.5%	31.4%	34.0%	34.6%	34.7%

Recycling and composting of postconsumer wastes; does not include converting/fabrication scrap. Details may not add to totals due to rounding.

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Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

Other than food products.

[^] Includes collection of other MSW organics for composting.

Neg. = Less than 5,000 tons or 0.05 percent. NA = Not Available - Detailed data not available.

Table 26. Products Combusted with Energy Recovery* in Municipal Solid Waste, 1960 to 2015
(With Detail on Containers and Packaging)

(In thousands of tons)

Products				Thou	isands of T	Γons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	0	60	440	4,480	6,260	6,750	7,070	8,410	8,600
(Detail in Table 16)									
Nondurable Goods	0	90	580	7,380	9,000	7,980	6,030	6,880	6,990
(Detail in Table 20)									
Containers and Packaging									
Glass Packaging									
Beer and Soft Drink Bottles**	0	20	120	640	810	830	590	640	610
Wine and Liquor Bottles	0	10	50	310	290	250	210	240	260
Other Bottles & Jars	0	20	100	620	490	350	310	340	330
Total Glass Packaging	0	50	270	1,570	1,590	1,430	1,110	1,220	1,200
Steel Packaging									
Beer and Soft Drink Cans	0	10	10	20	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	0	10	50	330	210	140	130	110	100
Other Steel Packaging	0	Neg.	Neg.	20	20	10	20	20	20
Total Steel Packaging	0	20	60	370	230	150	150	130	120
Aluminum Packaging									
Beer and Soft Drink Cans	0	Neg.	10	100	130	150	120	110	110
Other Cans	0	Neg.	Neg.	Neg.	10	10	10	30	30
Foil and Closures	0	Neg.	10	50	70	70	80	80	100
Total Aluminum Pkg	0	Neg.	20	150	210	230	210	220	240
Paper & Paperboard Pkg									
Corrugated Boxes	0	40	210	2,120	1,920	1,610	770	630	470
Other Paper & Paperboard Pkg									
Gable Top/Aseptic Cartons‡			20	90	110	90	-	-	-
Folding Cartons			70	670	1,050	790	-	-	-
Other Paperboard Packaging	0	20	Neg.	50	40	30	-	-	-
Bags and Sacks			70	380	230	150	-	-	-
Wrapping Papers			Neg.	20	Neg.	Neg.	-	-	-
Other Paper Packaging	0	10	10	170	320	250	-	-	-
Subtotal Other Paper & Paperboard Pkg							1,150	1,260	1,240
Total Paper & Board Pkg	0	70	380	3,500	3,670	2,920	1,920	1,890	1,710
Plastics Packaging									
PET Bottles and Jars			Neg.	50	260	350	330	390	410
HDPE Natural Bottles			Neg.	90	90	100	100	110	100
Other Containers	0	Neg.	20	240	300	230	270	290	310
Bags and Sacks									
Wraps									
Subtotal Bags, Sacks, and Wraps			30	410	780	770	620	700	710
Other Plastics Packaging	0	Neg.	20	340	530	570	770	900	930
Total Plastics Packaging	0	Neg.	70	1,130	1,960	2,020	2,090	2,390	2,460

Table 26. Products Combusted with Energy Recovery* in Municipal Solid Waste, 1960 to 2015 (With Detail on Containers and Packaging)

(In thousands of tons)

Products				Thou	ısands of T	ons			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Other Packaging									
Wood Packaging	0	10	80	1,370	1,400	1,350	1,330	1,390	1,390
Other Misc. Packaging	0	Neg.	Neg.	20	50	60	60	70	70
Total Containers & Pkg	0	150	880	8,110	9,110	8,160	6,870	7,310	7,190
Total Product Wastes†	0	300	1,900	19,970	24,370	22,890	19,970	22,600	22,780
Other Wastes									
Food	0	50	260	4,060	5,820	5,870	6,150	7,200	7,380
Yard Trimmings	0	90	550	5,240	2,860	2,220	2,510	2,630	2,630
Miscellaneous Inorganic Wastes	0	10	50	490	680	670	680	780	780
Total Other Wastes	0	150	860	9,790	9,360	8,760	9,340	10,610	10,790
Total MSW Combusted with Energy Recovery - Weight	0	450	2,760	29,760	33,730	31,650	29,310	33,210	33,570

^{*} Products and materials combusted with energy recovery estimated at percentage total MSW after recovery for recycling and composting. In 2015, 19.6 percent of MSW after recycling and composting was combusted with energy recovery. Details may not add to totals due to rounding.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

[‡] Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

[†] Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent. NA = Not Available - Detailed data not available.

Table 27. Products Combusted with Energy Recovery* in Municipal Solid Waste, 1960 to 2015

(With Detail on Containers and Packaging)

(In percent of total combusted)

Products				Percent o	of Total Cor	nbusted			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods		13.3%	15.9%	15.1%	18.6%	21.3%	24.1%	25.4%	25.6%
(Detail in Table 16)									
Nondurable Goods		19.9%	21.0%	24.8%	26.7%	25.2%	20.6%	20.7%	20.9%
(Detail in Table 20)									
Containers and Packaging									
Glass Packaging									
Beer and Soft Drink Bottles**		4.5%	4.3%	2.2%	2.4%	2.6%	2.0%	1.9%	1.8%
Wine and Liquor Bottles		2.2%	1.8%	1.0%	0.8%	0.8%	0.7%	0.7%	0.8%
Other Bottles & Jars		4.4%	3.6%	2.1%	1.5%	1.1%	1.1%	1.0%	1.0%
Total Glass Packaging		11.1%	9.8%	5.3%	4.7%	4.5%	3.8%	3.6%	3.6%
Steel Packaging									
Beer and Soft Drink Cans		2.2%	0.4%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg.
Cans		2.2%	1.8%	1.1%	0.6%	0.5%	0.4%	0.3%	0.3%
Other Steel Packaging		Neg.	Neg.	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%
Total Steel Packaging		4.4%	2.2%	1.2%	0.7%	0.5%	0.5%	0.4%	0.4%
Aluminum Packaging									
Beer and Soft Drink Cans		Neg.	0.4%	0.3%	0.4%	0.5%	0.4%	0.3%	0.3%
Other Cans		Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.1%	0.1%
Foil and Closures		Neg.	0.4%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%
Total Aluminum Pkg		Neg.	0.7%	0.5%	0.6%	0.7%	0.7%	0.7%	0.7%
Paper & Paperboard Pkg									
Corrugated Boxes		8.9%	7.6%	7.1%	5.7%	5.1%	2.6%	1.9%	1.4%
Other Paper & Paperboard Pkg									
Gable Top/Aseptic Cartons‡			0.7%	0.3%	0.3%	0.3%	-	-	-
Folding Cartons			2.5%	2.3%	3.1%	2.5%	-	-	-
Other Paperboard Packaging		4.5%	Neg.	0.2%	0.1%	0.1%	-	-	-
Bags and Sacks			2.5%	1.3%	0.7%	0.4%	-	-	-
Wrapping Papers			Neg.	0.1%	Neg.	Neg.	-	-	-
Other Paper Packaging		2.2%	0.4%	0.6%	1.0%	0.8%	-	-	-
Subtotal Other Paper & Paperboard Pkg							3.9%	3.8%	3.7%
Total Paper & Board Pkg		15.6%	13.8%	11.8%	10.9%	9.2%	6.6%	5.7%	5.1%
Plastics Packaging									
PET Bottles and Jars			Neg.	0.2%	0.8%	1.1%	1.1%	1.2%	1.2%
HDPE Natural Bottles			Neg.	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%
Other Containers		Neg.	0.7%	0.8%	0.9%	0.7%	0.9%	0.9%	0.9%
Bags and Sacks									
Wraps									
Subtotal Bags, Sacks, and Wraps			1.1%	1.4%	2.3%	2.4%	2.1%	2.1%	2.1%
Other Plastics Packaging		Neg.	0.7%	1.1%	1.5%	1.8%	2.6%	2.7%	2.8%
Total Plastics Packaging		Neg.	2.5%	3.8%	5.8%	6.4%	7.1%	7.2%	7.3%
Other Packaging									
Wood Packaging		2.2%	2.9%	4.6%	4.2%	4.3%	4.5%	4.2%	4.1%
Other Misc. Packaging		Neg.	Neg.	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%
Total Containers & Pkg		33.3%	31.9%	27.3%	27.0%	25.8%	23.4%	22.0%	21.4%
Total Product Wastes†		66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%

Table 27. Products Combusted with Energy Recovery* in Municipal Solid Waste, 1960 to 2015 (With Detail on Containers and Packaging) (In percent of total combusted)

Products		Percent of Total Combusted							
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Other Wastes									
Food		11.1%	9.4%	13.6%	17.3%	18.5%	21.0%	21.7%	22.0%
Yard Trimmings		20.0%	20.0%	17.6%	8.5%	7.0%	8.6%	7.9%	7.8%
Miscellaneous Inorganic Wastes		2.3%	1.8%	1.7%	1.9%	2.1%	2.3%	2.3%	2.3%
Total Other Wastes		33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%
Total MSW Combusted with Energy Recovery - %		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Products and materials combusted with energy recovery estimated at percentage total MSW after recovery for recycling and composting. In 2015, 19.6 percent of MSW after recycling and composting was combusted with energy recovery. Details may not add to totals due to rounding.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

[‡] Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

[†] Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent. NA = Not Available - Detailed data not available.

Table 28. Products Landfilled* in Municipal Solid Waste, 1960 to 2015 (With Detail on Containers and Packaging)
(In thousands of tons)

Products	<u> </u>			Tho	usands of To	ons			
11344003	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	9,570	13,660	20,000	21,870	26,030	30,340	32,890	34,490	35,300
(Detail in Table 17)									
Nondurable Goods	14,940	21,240	29,170	35,990	37,450	35,900	28,030	28,210	28,740
(Detail in Table 21)				· -	-		· -		
Containers and Packaging									
Glass Packaging									
Beer and Soft Drink Bottles**	1,310	5,420	5,890	3,110	3,370	3,710	2,730	2,610	2,480
Wine and Liquor Bottles	1,070	1,880	2,380	1,510	1,190	1,130	950	980	1,050
Other Bottles & Jars	3,710	4,420	4,680	3,020	2,010	1,600	1,440	1,400	1,360
Total Glass Packaging	6,090	11,720	12,950	7,640	6,570	6,440	5,120	4,990	4,890
Steel Packaging	.,	,	,	,	-,-	-, -		,	,
Beer and Soft Drink Cans	630	1,540	460	90	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	3,740	3,470	2,650	1,620	890	650	630	440	400
Other Steel Packaging	260	270	240	120	60	70	70	80	80
Total Steel Packaging	4,630	5,280	3,350	1,830	950	720	700	520	480
Aluminum Packaging	+,050	3,200	3,330	1,000	550	, 20	700	320	- 300
Beer and Soft Drink Cans	Neg.	90	520	460	560	650	570	430	440
Other Cans	Neg.	60	40	20	40	70	60	100	100
Foil and Closures	170	410	370	260	280	290	380	350	390
Total Aluminum Pkg	170	560	930	740	880	1,010	1,010	880	930
Paper & Paperboard Pkg	170	300	930	740	880	1,010	1,010	860	930
Corrugated Boxes	4,810	9,960	10,480	10,360	7,960	7,220	3,590	2,580	1,930
Other Paper & Paperboard Pkg	4,610	9,900	10,460	10,300	7,900	7,220	3,390	2,360	1,930
Gable Top/Aseptic Cartons‡			770	420	440	410	-	-	-
Folding Cartons			3,230	3,290	4,360	3,550	-	-	
Other Paperboard Packaging	3,840	4,810	230	240	160	130	-	-	
Bags and Sacks	3,640	4,010	3,310	1,860	960	650	-	-	-
Ü							-	-	
Wrapping Papers	2 720	2.450	200 540	90 850	Neg.	Neg.	-	-	
Other Paper Packaging	2,720	3,450	340	630	1,350	1,150	5,320		
Subtotal Other Paper & Paperboard Pkg	11 270	10 220	10.760	17 110	15 220	12 110		5,170	5,080
Total Paper & Board Pkg	11,370	18,220	18,760	17,110	15,230	13,110	8,910	7,750	7,010
Plastics Packaging			250	240	1 000	1 (00	1 500	1 (20	1.000
PET Bottles and Jars			250	240	1,080	1,600	1,560	1,620	1,680
HDPE Natural Bottles	CO	010	230	420	390	470	480	440	430
Other Containers	60	910	870	1,170	1,270	1,050	1,260	1,200	1,270
Bags and Sacks									
Wraps			4 200	2.000	2 240	2.450	2.000	2.050	2.000
Subtotal Bags, Sacks, and Wraps		4 400	1,200	2,000	3,240	3,450	2,860	2,850	2,890
Other Plastics Packaging	60	1,180	770	1,680	2,220	2,550	3,580	3,700	3,800
Total Plastics Packaging	120	2,090	3,320	5,510	8,200	9,120	9,740	9,810	10,070
Other Packaging									
Wood Packaging	2,000	2,060	3,860	6,680	5,840	6,050	6,160	5,720	5,720
Other Misc. Packaging	120	130	130	130	190	220	280	290	300
Total Containers & Pkg	24,500	40,060	43,300	39,640	37,860	36,670	31,920	29,960	29,400
Total Product Wastes†	49,010	74,960	92,470	97,500	101,340	102,910	92,840	92,660	93,440
Other Wastes									
Food	12,200	12,750	12,740	19,800	24,200	26,370	28,620	29,530	30,250
Yard Trimmings	20,000	23,110	26,950	25,560	11,900	9,990	11,690	10,790	10,800
Miscellaneous Inorganic Wastes	1,300	1,770	2,200	2,410	2,820	3,020	3,160	3,190	3,210
Total Other Wastes	33,500	37,630	41,890	47,770	38,920	39,380	43,470	43,510	44,260
* Landfilling after recycling, composting	82,510	112,590	134,360	145,270	140,260	142,290	136,310	136,170	137,700

^{*} Landfilling after recycling, composting and combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent. NA = Not Available - Detailed data not available.

Table 29. Products Landfilled* in Municipal Solid Waste, 1960 to 2015 (With Detail on Containers and Packaging)

(In percent of total landfilled)

Products				Percent	of Total Lar	ndfilled			
	1960	1970	1980	1990	2000	2005	2010	2014	2015
Durable Goods	11.6%	12.1%	14.9%	15.0%	18.6%	21.3%	24.1%	25.4%	25.6%
(Detail in Table 17)									
Nondurable Goods	18.1%	18.9%	21.7%	24.8%	26.7%	25.2%	20.6%	20.7%	20.9%
(Detail in Table 21)									
Containers and Packaging									
Glass Packaging									
Beer and Soft Drink Bottles**	1.6%	4.8%	4.4%	2.1%	2.4%	2.6%	2.0%	1.9%	1.8%
Wine and Liquor Bottles	1.3%	1.7%	1.8%	1.0%	0.8%	0.8%	0.7%	0.7%	0.8%
Other Bottles & Jars	4.5%	3.9%	3.5%	2.1%	1.5%	1.1%	1.1%	1.0%	1.0%
Total Glass Packaging	7.4%	10.4%	9.6%	5.3%	4.7%	4.5%	3.8%	3.6%	3.69
Steel Packaging									
Beer and Soft Drink Cans	0.8%	1.4%	0.3%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg
Cans	4.5%	3.1%	2.0%	1.1%	0.6%	0.5%	0.5%	0.3%	0.3%
Other Steel Packaging	0.3%	0.2%	0.2%	0.1%	0.1%	0.0%	0.1%	0.1%	0.19
Total Steel Packaging	5.6%	4.7%	2.5%	1.3%	0.7%	0.5%	0.6%	0.4%	0.4%
Aluminum Packaging	51571	,				0.071	0.072	9.172	
Beer and Soft Drink Cans	Neg.	0.1%	0.4%	0.3%	0.4%	0.5%	0.4%	0.3%	0.3%
Other Cans	Neg.	0.1%	0.0%	0.0%	Neg.	Neg.	Neg.	0.1%	0.19
Foil and Closures	0.2%	0.4%	0.3%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%
Total Aluminum Pkg	0.2%	0.5%	0.7%	0.5%	0.6%	0.7%	0.7%	0.7%	0.79
Paper & Paperboard Pkg	0.270	0.370	0.770	0.570	0.070	0.770	0.770	0.770	0.77
Corrugated Boxes	5.8%	8.8%	7.8%	7.1%	5.7%	5.1%	2.6%	1.9%	1.49
Other Paper & Paperboard Pkg	3.670	0.070	7.070	7.170	3.770	3.170	2.070	1.570	±. 17
Gable Top/Aseptic Cartons‡			0.6%	0.3%	0.3%	0.3%	-	_	
Folding Cartons			2.4%	2.3%	3.1%	2.5%	-	-	
Other Paperboard Packaging	4.7%	4.3%	0.2%	0.2%	0.1%	0.1%	-	-	_
Bags and Sacks	4.770	4.570	2.5%	1.3%	0.7%	0.4%	-	-	
Wrapping Papers	+		0.1%	0.1%	Neg.	Neg.	-	_	
Other Paper Packaging	3.3%	3.1%	0.1%	0.1%	1.0%	0.8%	-	-	
Subtotal Other Paper & Paperboard Pkg	3.376	3.1/0	0.470	0.076	1.076	0.676	3.9%	2 00/	3.7%
	12.00/	16 20/	14.00/	11 00/	10.00/	0.30/		3.8%	
Total Paper & Board Pkg	13.8%	16.2%	14.0%	11.8%	10.9%	9.2%	6.5%	5.7%	5.1%
Plastics Packaging			0.20/	0.20/	0.00/	1 10/	1 10/	1 20/	1 20
PET Bottles and Jars			0.2%	0.2%	0.8%	1.1%	1.1%	1.2%	1.2%
HDPE Natural Bottles	0.10/	0.00/	0.2%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%
Other Containers	0.1%	0.8%	0.6%	0.8%	0.9%	0.7%	0.9%	0.9%	0.9%
Bags and Sacks									
Wraps	-		0.00/	1 40/	2.20/	2.40/	2.10/	2.40/	2.10
Subtotal Bags, Sacks, and Wraps	0.40/	4.00/	0.9%	1.4%	2.3%	2.4%	2.1%	2.1%	2.1%
Other Plastics Packaging	0.1%	1.0%	0.6%	1.2%	1.5%	1.8%	2.6%	2.7%	2.8%
Total Plastics Packaging	0.1%	1.9%	2.5%	3.8%	5.8%	6.4%	7.1%	7.2%	7.3%
Other Packaging	2.40(4.00/	2.00/	4.50/	4.00/	4.00/	4.50/	4.00/	4.40
Wood Packaging	2.4%	1.8%	2.9%	4.6%	4.2%	4.3%	4.5%	4.2%	4.19
Other Misc. Packaging	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%
Total Containers & Pkg	29.7%	35.6%	32.2%	27.3%	27.0%	25.8%	23.4%	22.0%	21.4%
Total Product Wastes†	59.4%	66.6%	68.8%	67.1%	72.3%	72.3%	68.1%	68.1%	67.9%
Other Wastes									
Food	14.8%	11.3%	9.5%	13.6%	17.3%	18.5%	21.0%	21.7%	22.09
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.0%	8.6%	7.9%	7.89
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	1.9%	2.2%	2.3%	2.3%	2.39
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.7%	27.7%	31.9%	31.9%	32.1%

^{*} Landfilling after recycling, composting and combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes or certain other wastes. Details may not add to totals due to rounding.

^{**} Includes carbonated drinks and non-carbonated water, teas, flavored drinks and ready-to-drink alcoholic coolers and cocktails.

[‡] Includes milk, juice and other products packaged in gable top cartons and liquid food aseptic cartons.

Other than food products.

Neg. = Less than 5,000 tons or 0.05 percent. NA = Not Available - Detailed data not available.

Table 30. Selected Examples of Source Reduction Practices

		-	oduct Categories	
Source Reduction Practice	Durable Goods	Nondurable Goods	Containers & Packaging	Organics
Dood of a Dool of		Nonaciable Goods	containers at rackaging	(Wood, Yard Waste, Food, etc.)
Materials reduction Materials substitution	Downgauge metals in appliances Use fewer materials in electronics Use of composites in appliances and electronic circuitry	 Use paperless purchase orders Use concentrated products 	Implement container lightweighting Use right size packaging Eliminate unnecessary layers of packaging Use refillable/reusable containers, including use of flexible pouches for refills for rigid containers Replace rigid or heavy packaging with lighter or more compact options, e.g., cereal in bags. coffee in brick packs Use life cycle data to choose material with lower lifecycle impact	Implement xeriscaping Use just in time ordering / inventory control Adjust menus to reduce frequently uneaten or wasted items
Lengthen product lifespan	 Use high mileage tires Design for upgrades (e.g., add computer memory or processing capacity, battery upgrades) 	 Perform regular servicing Consider purchasing warranties to make repair more affordable Extend warranties 	 Design for secondary use Use Reusable packaging 	Clearer label information on food expiration date Avoid spoilage by changing: Packaging Storage and transportation Supply chain management
Consumer Practice	S			
	 Purchase long-lived products Perform regular servicing Perform repair Buy fewer items 	 Perform repair Use duplex printing Share products Reduce unwanted mail Purchase concentrated products Buy fewer items 	 Purchase products in bulk (less packaging) Use reusable bags and containers Buy fewer items 	 Donate food Avoid spoilage by monitoring and tracking food and purchases and use Reduce over-purchasing Perform proper food storage and preparation Repurpose (e.g., older bread can be made into croutons) Do backyard composting Do grasscycling
Reuse				
By Design	Document materials and methods for disassembly/ repair/reuse Use materials and systems that exhibit modularity, and standardization to facilitate reuse and repair Minimize connections between parts and/or make connections more accessible for ease of repair and replacement of parts	Use reusable shipping or mailing envelopes	 Use reusable pallets Use returnable secondary packaging Use reusable/refillable dispensers for cleaning products Use reusable service ware in food service Use durable reusable water bottles instead of disposable bottles 	

Table 30. Selected Examples of Source Reduction Practices

Carrier Badristian		MSW Pr	oduct Categories	
Source Reduction Practice	Durable Goods	Nondurable Goods	Containers & Packaging	Organics (Wood, Yard Waste, Food, etc.)
	 Use mechanical connections with bolts and screws instead of glues, to facilitate repair Minimize connections to increase ease of repair or part replacement Provide adequate tolerances to allow for removal and replacement or repair of parts without affecting adjacent components 			
Secondary	 Borrow or rent for temporary use 	Donate clothing, books	 Use reusable grocery sacks 	
	Give to charityBuy or sell at garage sales	 Waste paper scratch pads 	 Reuse glass and plastic bottles and jars 	

Table 31. Households with Residential Food Collection Programs in the U.S., 2015

State	Curbside Households with Access	Drop-off Households with Access
Alaska		500
California	1,389,719	
Colorado	150,279	35,500
Connecticut		19,634
Illinois	16,355	
Iowa	44,430	
Maine		7,641
Maryland	18,225	
Massachusetts	35,769	348,448
Michigan	47,416	
Minnesota	141,517	1,030,371
New Jersey	9,158	
New York	790,090	3,153,535
North Carolina		452,000
Ohio	443	
Oregon	157,000	
Pennsylvania	3,600	
Texas	52,000	
Vermont	19,767	67,000
Virginia		20,000
Washington	957,688	253,622
Wisconsin	3,000	
Households with Access to Collection	3,836,456	5,388,251
Total U.S. Households	116,926,305	116,926,305
Total Old. Households	3.3%	4.6%

Source: Streeter, V.; Platt B. 2017. Residential Food Waste Collection Access in the U.S. BioCycle December. Programs included in Table 31 are programs with startup dates in 2015 or earlier. Programs started in 2016 and 2017 are excluded. Programs with no startup date provided in the source document or identified through internet searches are also excluded.

U.S. Census Bureau. Selected Housing Characteristics 2011-2015 American Community Survey 5-Year Estimates DP04.

Table 32. Material Recovery Facilities (MRF), 2015*

Region	Number	Estimated Throughput (tons per day)
NORTHEAST	139	23,546
SOUTH	168	25,402
MIDWEST	166	20,765
WEST	115	24,846
U.S. Total	588	94,559

^{*}Number of facilities and throughput include bale and ship operations receiving fiber, mainly old corrugated cardboard (OCC), that bale and ship with no additional processing.

Source: Governmental Advisory Associates, Inc. Data provided May 2016.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin

West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

Table 33. Municipal Waste-To-Energy Projects, 2015

Region	Number Operational	Design Capacity (tons per day)		
NORTHEAST	37	43,995		
SOUTH	19	32,194		
MIDWEST	14	11,524		
WEST	7	7,310		
U.S. Total*	77	95,023		

^{*}WTE includes mass burn, modular and refuse-derived fuel combustion facilities.

Source: "The 2016 ERC Directory of Waste-to-Energy Facilities." Energy Recovery Council (ERC). 2016.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin

West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

Table 34. Landfill Facilities, 2015

Region	Number of Landfills			
NORTHEAST	120			
SOUTH	624			
MIDWEST	364			
WEST	630			
U.S. Total	1,738			

Source: State environmental websites.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin

West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

Table 35. Generation, Recycling, Composting, Combustion with Energy Recovery and Landfilling of Municipal Solid Waste, 1960 to 2015

(In thousands of tons and percent of total generation)

	Thousands of Tons									
	1960	1970	1980	1990	2000	2005	2010	2014	2015	
Generation	88,120	121,060	151,640	208,270	243,450	253,730	251,050	258,950	262,430	
Recycling	5,610	8,020	14,520	29,040	53,010	59,240	65,260	66,550	67,770	
Composting*	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,170	23,020	23,390	
Combustion with energy recovery**	0	450	2,760	29,760	33,730	31,650	29,310	33,210	33,570	
Discards to landfill, other disposal†	82,510	112,590	134,360	145,270	140,260	142,290	136,310	136,170	137,700	
				Pounds	per Person pe	er Day				
	1960	1970	1980	1990	2000	2005	2010	2014	2015	
Generation	2.68	3.25	3.66	4.57	4.74	4.69	4.45	4.45	4.48	
Recycling	0.17	0.22	0.35	0.64	1.03	1.10	1.16	1.14	1.16	
Composting*	Neg.	Neg.	Neg.	0.09	0.32	0.38	0.36	0.40	0.40	
Combustion with energy recovery**	0.00	0.01	0.07	0.65	0.66	0.59	0.52	0.57	0.57	
Discards to landfill, other disposal†	2.51	3.02	3.24	3.19	2.73	2.62	2.41	2.34	2.35	
Population (thousands)	179,979	203,984	227,255	249,907	281,422	296,410	309,051	318,857	320,897	
	Percent of Total Generation									
	1960	1970	1980	1990	2000	2005	2010	2014	2015	
Generation	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Recycling	6.4%	6.6%	9.6%	14.0%	21.8%	23.3%	26.0%	25.7%	25.8%	
Composting*	Neg.	Neg.	Neg.	2.0%	6.7%	8.1%	8.0%	8.9%	8.9%	
Combustion with										
energy recovery**	0.0%	0.3%	1.8%	14.2%	13.9%	12.5%	11.7%	12.8%	12.8%	
Landfilling and other disposal†	93.6%	93.1%	88.6%	69.8%	57.6%	56.1%	54.3%	52.6%	52.5%	

^{*} Composting of yard trimmings, food and other MSW organic material. Does not include backyard composting.

Source population: U.S. Census Bureau Population Division (NST-EST2016-01) December 2016.

^{**} Includes combustion with energy recovery of MSW in mass burn or refuse-derived fuel form and combustion with energy recovery of source separated materials in MSW (e.g., wood pallets and tire-derived fuel). 2015 includes 30,270 MSW, 520 wood, and 2,780 tires (1,000 tons).

[†] Landfilling after recycling and composting minus combustion with energy recovery. Includes combustion without energy recovery. Details may not add to totals due to rounding.

Figure 1. Municipal Solid Waste in the Universe of Subtitle D Wastes

Subtitle D Wastes

The Subtitle D Waste included in this report as Municipal Solid Waste (MSW), which includes:

- Containers and packaging such as soft drink bottles and corrugated boxes
- Durable goods such as furniture and appliances
- Nondurable goods such as newspapers, trash bags and clothing
- Other wastes such as food and yard trimmings.

Subtitle D Wastes not included as MSW in this report are:

- Municipal sludges
- Industrial nonhazardous process wastes
- Construction and demolition debris*
- Land clearing debris
- Transportation parts and equipment

- Agricultural wastes
- Oil and gas wastes
- Mining wastes
- Auto bodies
- Fats, grease and oils

^{*}Construction and demolition debris is included in this report, but is outside of the scope of MSW.

Figure 2. Definition of Terms

The materials flow methodology produces an estimate of total municipal solid waste (MSW) generation in the United States, by material categories and by product categories.

Generation refers to the weight of materials and products as they enter the waste management system from residential, commercial and institutional sources and before recycling, composting, combustion or landfilling take place. Preconsumer (industrial) scrap is not included in the generation estimate. Source reduction activities, such as backyard composting of yard trimmings, take place ahead of generation.

Source reduction as used in this report refers to activities that reduce the amount of wastes before they enter the municipal solid waste management system. Reuse is a source reduction activity involving the recovery or reapplication of a package, used product or material in a manner that retains its original form or identity. Reuse of products such as refillable glass bottles and reusable plastic food storage containers is considered to be source reduction, not recycling.

Recycling is defined as the recovery of useful materials, such as paper, glass, plastic and metals, from the MSW stream, along with the transformation of the materials, to make new products to reduce the amount of virgin raw materials needed to meet consumer demands.

Composting is the decomposition of organic materials by aerobic microorganisms. Composting facilities manage the amount of moisture and oxygen and mixture of organic materials for optimal composting conditions. The composting process emits heat, water vapor and biogenic carbon dioxide, reducing the raw organic materials in mass and volume to create compost.¹

Combustion with energy recovery is often called "waste-to-energy," and as used in this report refers to confined and controlled burning with energy recovery, which not only decreases the volume of solid waste destined for landfills, but can also recover energy from the waste burning process.

Landfilling refers to the MSW remaining after recycling, composting and combustion with energy recovery. These materials presumably would be landfilled in a discrete area of land or excavation that receives household waste. Some MSW, however, is littered, stored or disposed onsite; or burned onsite, particularly in rural areas. There are no good estimates for these other disposal practices available, but the total amounts of MSW involved are assumed to be small.

For the analysis of municipal solid waste in this report, products are divided into three basic categories: durable goods, nondurable goods and containers and packaging. The durable goods and nondurable goods categories generally follow the definitions of the U.S. Department of Commerce.

Durable goods are those products that last three years or more. Products in this category include major and small appliances, furniture and furnishings, carpets and rugs, tires, lead-acid batteries, consumer electronics and other miscellaneous durables.

Nondurable goods are those products that last less than three years. Products in this category include newspapers, books, magazines, office papers, directories, mail, other commercial printing, tissue paper and towels, paper and plastic plates and cups, trash bags, disposable diapers, clothing and footwear, towels, sheets and pillowcases, other nonpackaging paper and other miscellaneous nondurables.

Containers and packaging are assumed to be discarded the same year the products they contain are purchased. Products in this category include bottles, containers, corrugated boxes, milk cartons, folding cartons, bags, sacks, and wraps, wood packaging and other miscellaneous packaging.

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¹ Platt, B., Goldstein, N. 2014. State of Composting in the U.S. *BioCycle* 55(6): 19. http://www.biocycle.net/2014/07/16/state-of-composting-in-the-us/.

Corrugated boxes Newspapers/Mechanical Papers Gable top/aseptic and folding cartons Office-type papers Standard mail Other papers Tissue paper and towels Commercial printing Other packaging Paper plates and cups Magazines Bags and sacks Books 0 8 16 24 <u>3</u>2

Figure 3. Paper and Paperboard Products Generated in MSW, 2015

Figure 4. Paper and Paperboard Generation and Recycling, 1960 to 2015

million tons

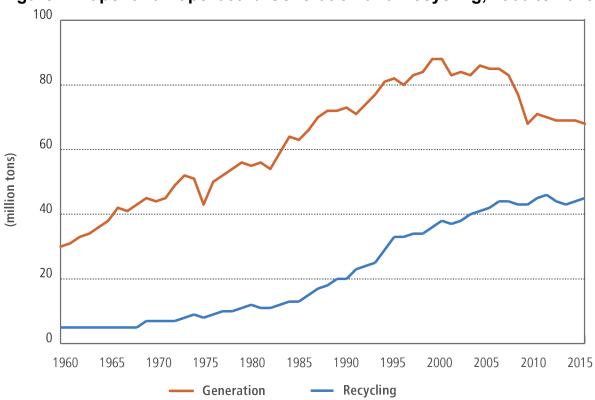


Figure 5. Glass Products Generated in MSW, 2015

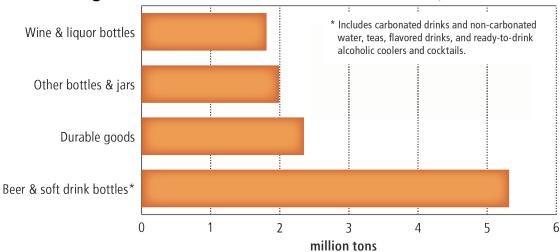
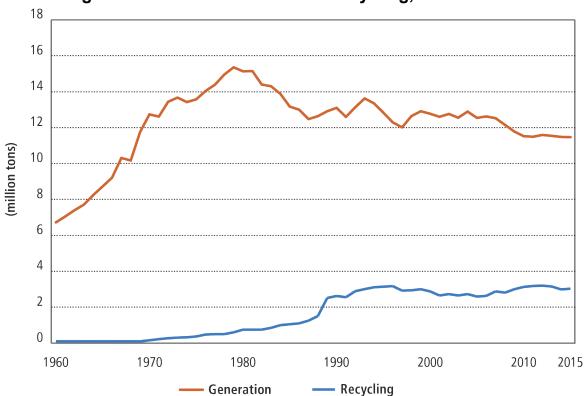


Figure 6. Glass Generation and Recycling, 1960 to 2015



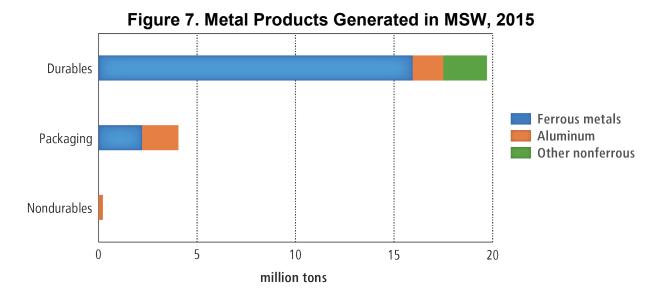
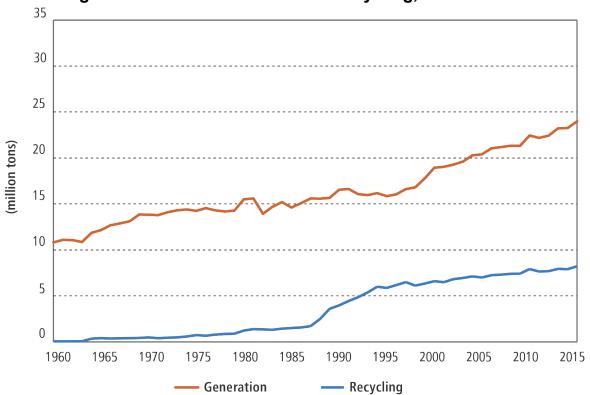
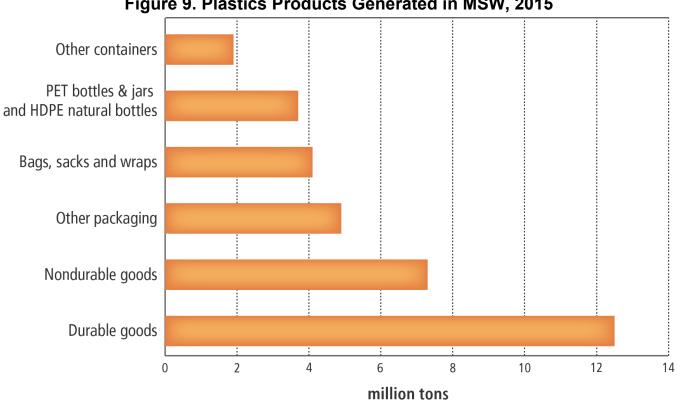


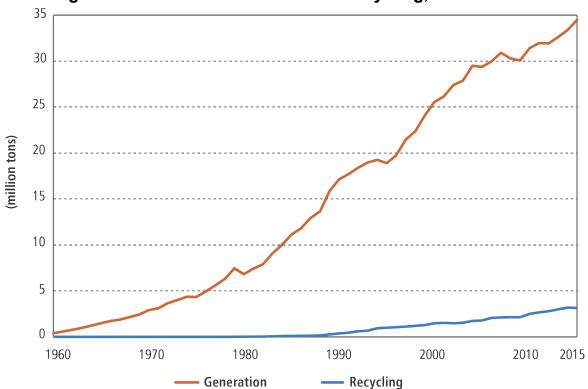
Figure 8. Metals Generation and Recycling, 1960 to 2015











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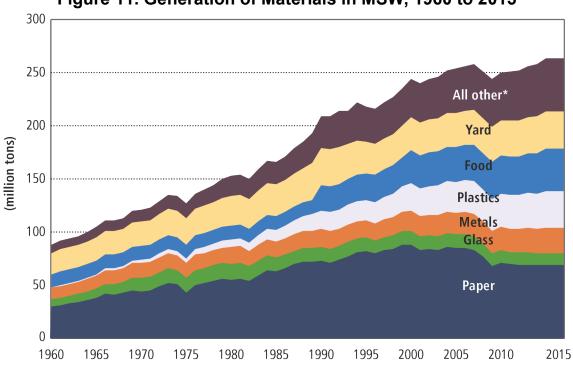
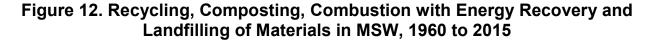
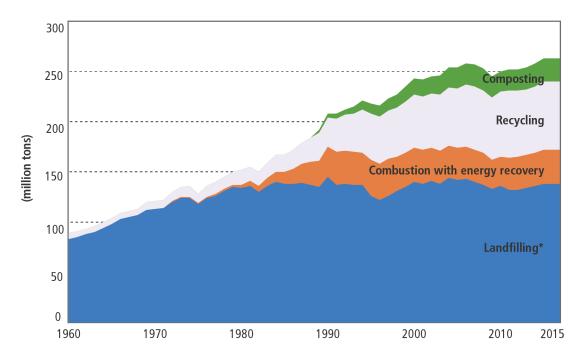


Figure 11. Generation of Materials in MSW, 1960 to 2015

^{* &}quot;All other" includes primarily wood, rubber and leather, and textiles.

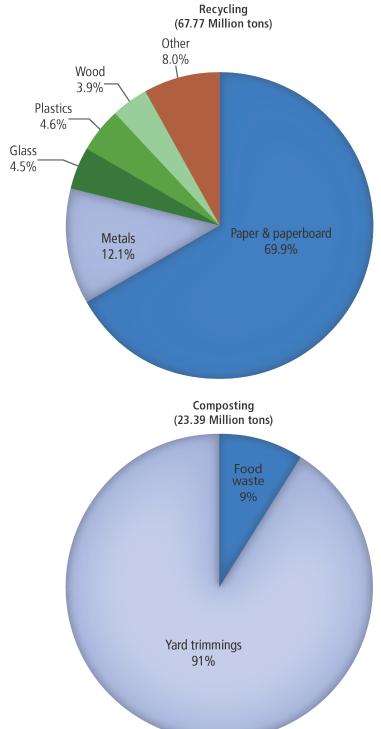




^{*}Landfilling after composting, recycling and combustion with energy recovery. Includes combustion without energy recovery.

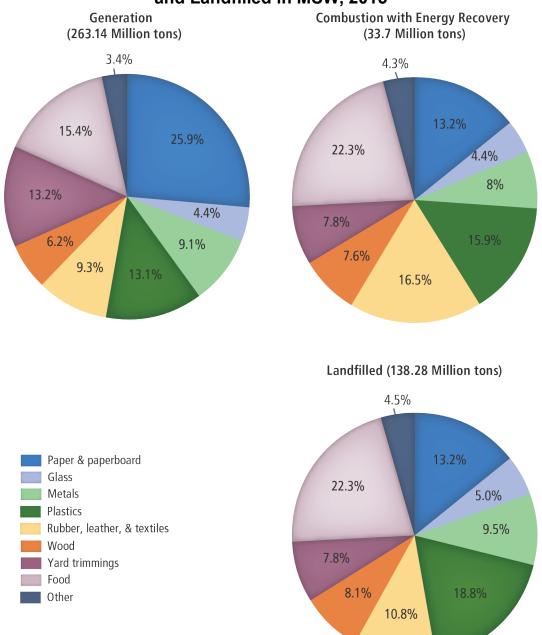
The top line measures generation, because generation = recycling + composting + combustion with energy recovery + landfilling.

Figure 13. Materials Recycling and Composting in MSW,* 2015



^{*} In percent by weight of total recycling and composting

Figure 14. Materials Generated, Combusted with Energy Recovery and Landfilled in MSW, 2015



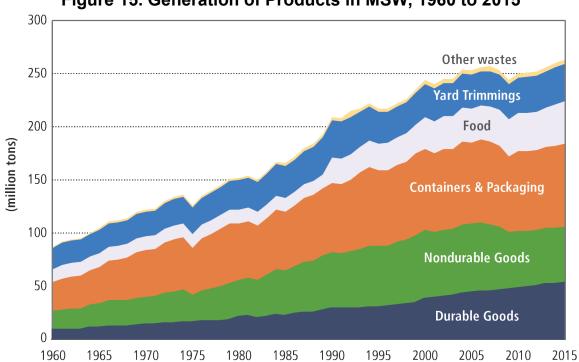


Figure 15. Generation of Products in MSW, 1960 to 2015

^{* &}quot;All other" includes primarily wood, rubber and leather, and textiles.

Figure 16. Nondurable Goods Generated, Recycled, Combusted with Energy Recovery and Landfilled in Municipal Solid Waste, 2015

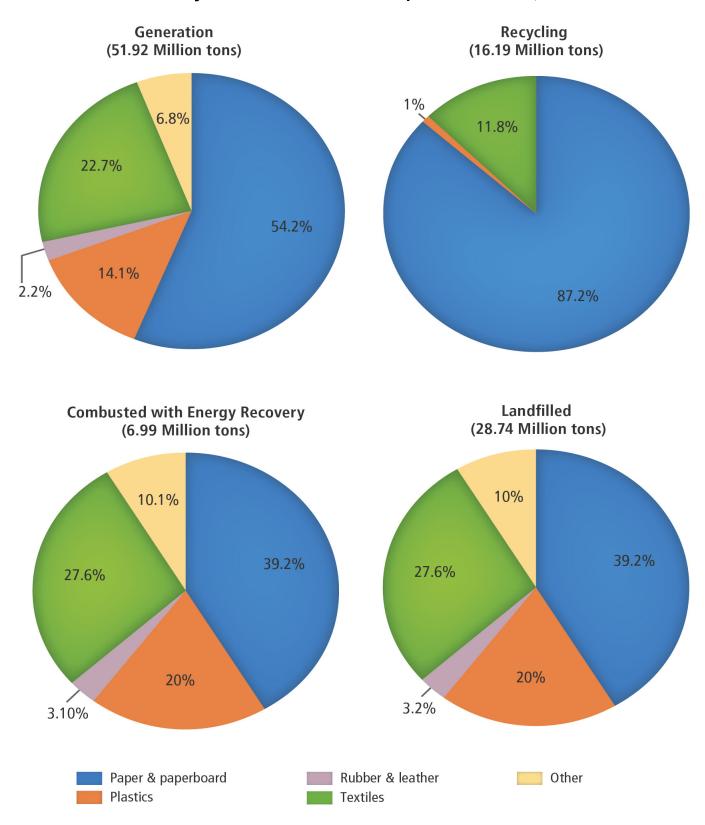


Figure 17. Containers and Packaging Materials Generated, Recycled, Combusted with Energy Recovery and Landfilled in Municipal Solid Waste, 2015

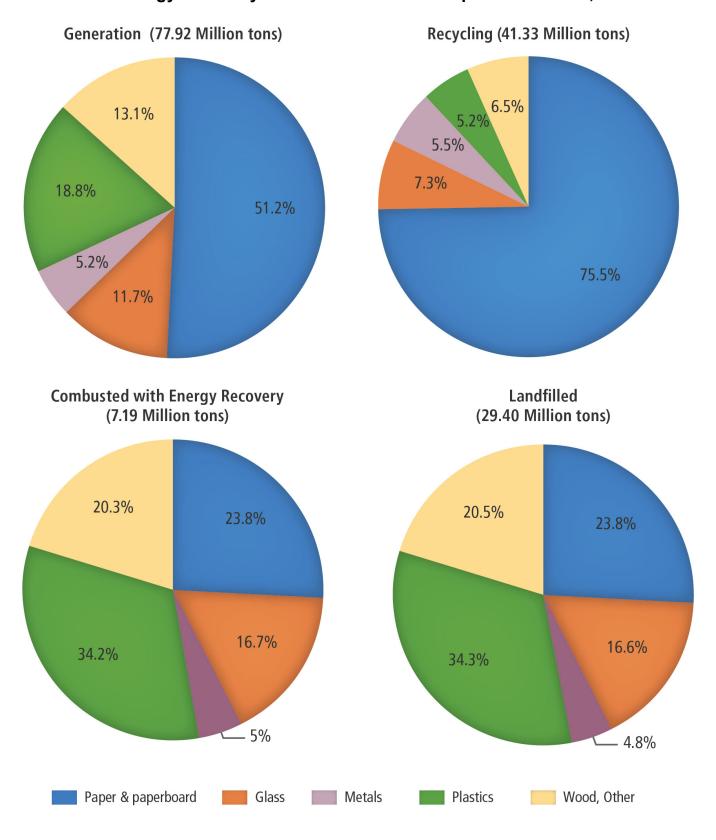


Figure 18. Containers and Packaging Generated, Recycled, Combusted with Energy Recovery and Landfilled in Municipal Solid Waste, 2015

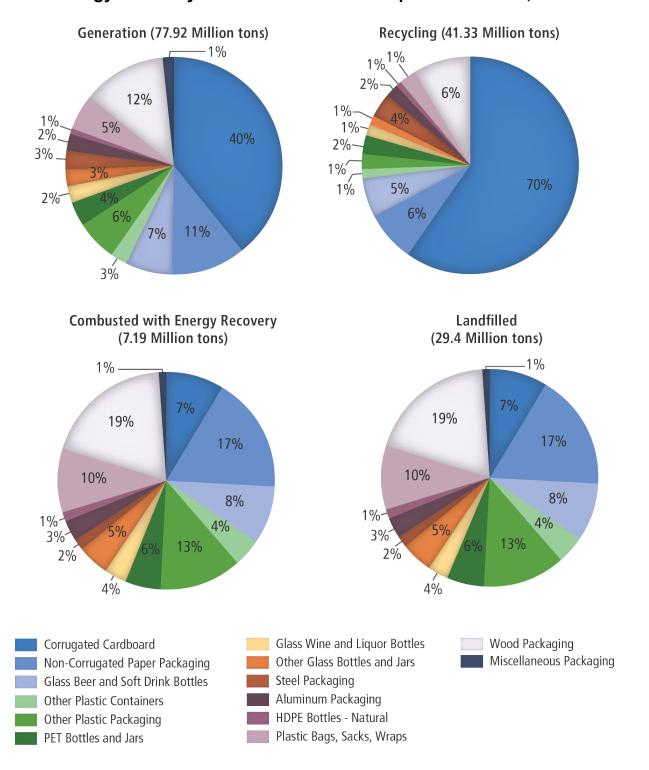


Figure 19. Diagram of Solid Waste Management

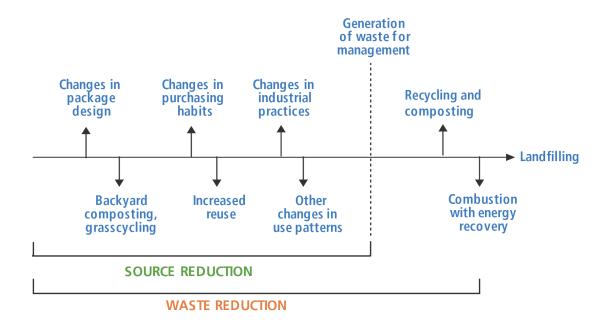
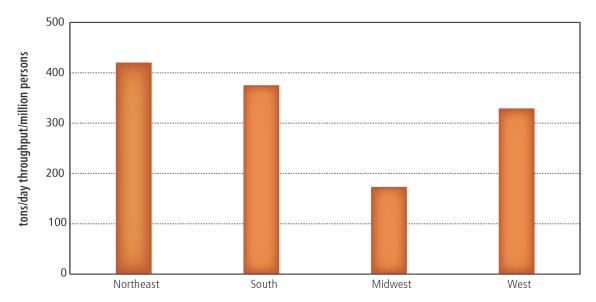


Figure 20. States with Bottle Deposit Rules



Figure 21. Estimated MRF Throughput, 2015 (Tons per day per million persons)



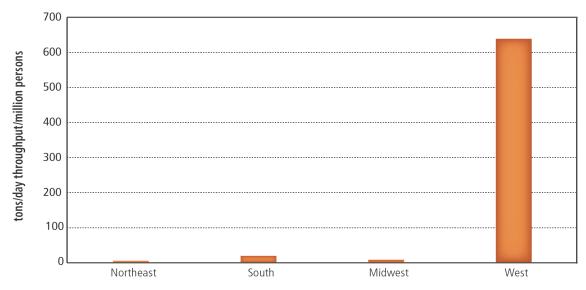
Source: U.S. Census Bureau population estimates; Governmental Advisory Associates, Inc. Data provided May 2016.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Newada, New Mexico, Oregon, Utah, Washington, Wyoming

Figure 22. Mixed Waste Processing Estimated Throughput, 2015 (Tons per day per million persons)



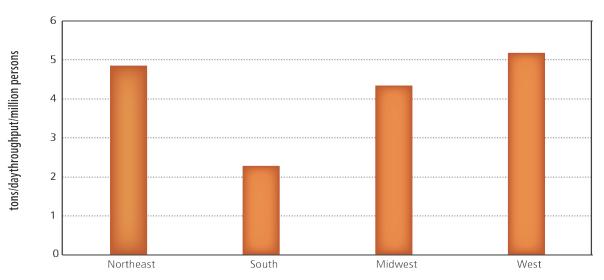
Source: U.S. Census Bureau population estimates; Governmental Advisory Associates, Inc. Data provided May 2016.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont

South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

Figure 23. MSW Composting Capacity, 2015 (Capacity in tons per day per million persons)

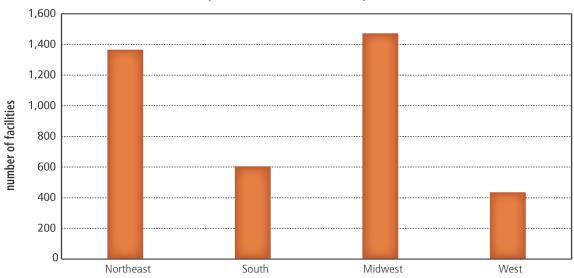


Source: U.S. Census Bureau; *BioCycle*, November 2011, *BioCycle* October 2017, Mariposa County, California and Medina County, Ohio websites.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont **South**: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

Figure 24. Yard Trimmings Composting Facilities, 2015 (In number of facilities)



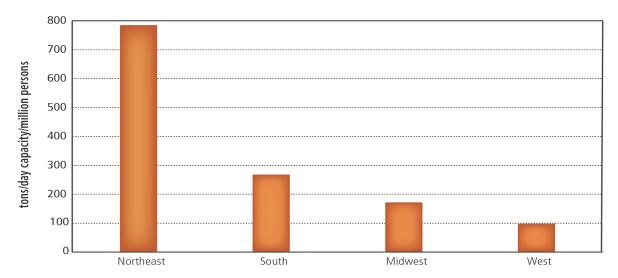
Source: Goldstein, N. "The State of Organics" BioCycle, October 2017.

Facilities composting yard trimmings, yard trimmings and food waste, and mixed organics. Excludes 740 facilities composting manure, biosolids, mixed MSW, or not defined.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

Figure 25. Municipal Waste-To-Energy Capacity, 2015 (Capacity in tons per million persons)



Source: U.S. Census Bureau population estimates; Energy Recovery Council (ERC). "The 2016 ERC Directory of Waste-to-Energy Facilities" 2016.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming

800
700
600
500
400
300
200
100
Northeast South Midwest West

Figure 26. Number of Landfills in the U.S., 2015

Source: State environmental websites.

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia

Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming