Municipal Solid Waste Generation, Recycling, and Disposal in the United States Tables and Figures for 2010

U.S. Environmental Protection Agency
Office of Resource Conservation and Recovery

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Table 1

MATERIALS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010

(In thousands of tons and percent of total generation)

					Thousand	ds of Tons				
Materials	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Paper and Paperboard	29,990	44,310	55,160	72,730	87,740	84,840	82,530	77,420	68,430	71,310
Glass	6,720	12,740	15,130	13,100	12,770	12,540	12,520	12,150	11,780	11,530
Metals										
Ferrous	10,300	12,360	12,620	12,640	14,150	15,210	15,940	15,960	15,940	16,900
Aluminum	340	800	1,730	2,810	3,190	3,330	3,360	3,410	3,440	3,410
Other Nonferrous	180	670	1,160	1,100	1,600	1,860	1,890	1,960	1,970	2,100
Total Metals	10,820	13,830	15,510	16,550	18,940	20,400	21,190	21,330	21,350	22,410
Plastics	390	2,900	6,830	17,130	25,530	29,250	30,740	30,070	29,830	31,040
Rubber and Leather	1,840	2,970	4,200	5,790	6,670	7,290	7,500	7,590	7,630	7,780
Textiles	1,760	2,040	2,530	5,810	9,480	11,510	12,170	12,710	13,020	13,120
Wood	3,030	3,720	7,010	12,210	13,570	14,790	15,190	15,400	15,590	15,880
Other **	70	770	2,520	3,190	4,000	4,290	4,550	4,670	4,710	4,790
Total Materials in Products	54,620	83,280	108,890	146,510	178,700	184,910	186,390	181,340	172,340	177,860
Other Wastes										
Food Scraps	12,200	12,800	13,000	23,860	29,810	31,990	32,610	33,340	34,290	34,760
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	32,630	32,900	33,200	33,400
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840
Total Other Wastes	33,500	37,780	42,750	61,760	63,840	67,750	68,990	70,020	71,310	72,000
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	242,540	252,660	255,380	251,360	243,650	249,860
				Per	cent of To	tal Gener	ation			
Materials	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Paper and Paperboard	34.0%	36.6%	36.4%	34.9%	36.2%	33.6%	32.3%	30.8%	28.1%	28.5%
Glass	7.6%	10.5%	10.0%	6.3%	5.3%	5.0%	4.9%	4.8%	4.8%	4.6%
Metals										
Ferrous	11.7%	10.2%	8.3%	6.1%	5.8%	6.0%	6.2%	6.3%	6.5%	6.8%
Aluminum	0.4%	0.7%	1.1%	1.3%	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%	0.7%	0.8%	0.8%	0.8%
Total Metals	12.3%	11.4%	10.2%	7.9%	7.8%	8.1%	8.3%	8.5%	8.8%	9.0%
Plastics	0.4%	2.4%	4.5%	8.2%	10.5%	11.6%	12.0%	12.0%	12.2%	12.4%
Rubber and Leather	2.1%	2.5%	2.8%	2.8%	2.8%	2.9%	2.9%	3.0%	3.1%	3.1%
Textiles	2.0%	1.7%	1.7%	2.8%	3.9%	4.6%	4.8%	5.1%	5.3%	5.3%
Wood	3.4%	3.1%	4.6%	5.9%	5.6%	5.9%	5.9%	6.1%	6.4%	6.4%
Other **	0.1%	0.6%	1.7%	1.5%	1.6%	1.7%	1.8%	1.9%	1.9%	1.9%
Total Materials in Products	62.0%	68.8%	71.8%	70.3%	73.7%	73.2%	73.0%	72.1%	70.7%	71.2%
Other Wastes										
Food Scraps	13.8%	10.6%	8.6%	11.5%	12.3%	12.7%	12.8%	13.3%	14.1%	13.9%
Yard Trimmings	22.7%	19.2%	18.1%	16.8%	12.6%	12.7%	12.8%	13.1%	13.6%	13.4%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.4%	1.5%	1.5%	1.5%	1.6%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	29.7%	26.3%	26.8%	27.0%	27.9%	29.3%	28.8%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Generation before materials recovery or combustion. Does not include construction & demolition debris, industrial process wastes, or certain other wastes.

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

Details may not add to totals due to rounding.

Table 2

RECOVERY* OF MUNICIPAL SOLID WASTE, 1960 TO 2010
(In thousands of tons and percent of generation of each material)

					Thousan	ds of Ton	ıs			
Materials	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Paper and Paperboard	5,080	6,770	11,740	20,230	37,560	41,960	44,480	42,940	42,500	44,570
Glass	100	160	750	2,630	2,880	2,590	2,880	2,810	3,000	3,130
Metals										
Ferrous	50	150	370	2,230	4,680	5,030	5,280	5,300	5,270	5,710
Aluminum	Neg.	10	310	1,010	860	690	730	720	690	680
Other Nonferrous	Neg.	320	540	730	1,060	1,280	1,300	1,360	1,370	1,480
Total Metals	50	480	1,220	3,970	6,600	7,000	7,310	7,380	7,330	7,870
Plastics	Neg.	Neg.	20	370	1,480	1,780	2,110	2,140	2,140	2,550
Rubber and Leather	330	250	130	370	820	1,090	1,140	1,130	1,140	1,170
Textiles	50	60	160	660	1,320	1,840	1,920	1,910	1,910	1,970
Wood	Neg.	Neg.	Neg.	130	1,370	1,830	2,020	2,110	2,200	2,300
Other **	Neg.	300	500	680	980	1,210	1,240	1,300	1,310	1,410
Total Materials in Products	5,610	8,020	14,520	29,040	53,010	59,300	63,100	61,720	61,530	64,970
Other Wastes										
Food Scraps	Neg.	Neg.	Neg.	Neg.	680	690	810	800	850	970
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	20,900	21,300	19,900	19,200
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	21,710	22,100	20,750	20,170
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	69,460	79,850	84,810	83,820	82,280	85,140
				Percent of	of Genera	tion of Ea	ch Materi	al		
Materials	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Paper and Paperboard	16.9%	15.3%	21.3%	27.8%	42.8%	49.5%	53.9%	55.5%	62.1%	62.5%
Glass	1.5%	1.3%	5.0%	20.1%	22.6%	20.7%	23.0%	23.1%	25.5%	27.1%
Metals										
Ferrous	0.5%	1.2%	2.9%	17.6%	33.1%	33.1%	33.1%	33.2%	33.1%	33.8%
Aluminum	Neg.	1.3%	17.9%	35.9%	27.0%	20.7%	21.7%	21.1%	20.1%	19.9%
Other Nonferrous	Neg.	47.8%	46.6%	66.4%	66.3%	68.8%	68.8%	69.4%	69.5%	70.5%
Total Metals	0.5%	3.5%	7.9%	24.0%	34.8%	34.3%	34.5%	34.6%	34.3%	35.1%
Plastics	Neg.	Neg.	0.3%	2.2%	5.8%	6.1%	6.9%	7.1%	7.2%	8.2%
Rubber and Leather	17.9%	8.4%	3.1%	6.4%	12.3%	15.0%	15.2%	14.9%	14.9%	15.0%
Textiles	2.8%	2.9%	6.3%	11.4%	13.9%	16.0%	15.8%	15.0%	14.7%	15.0%
Wood	Neg.	Neg.	Neg.	1.1%	10.1%	12.4%	13.3%	13.7%	14.1%	14.5%
Other **	Neg.	39.0%	19.8%	21.3%	24.5%	28.2%	27.3%	27.8%	27.8%	29.4%
Total Materials in Products	10.3%	9.6%	13.3%	19.8%	29.7%	32.1%	33.9%	34.0%	35.7%	36.5%
Other Wastes										
Food, Other^	Neg.	Neg.	Neg.	Neg.	2.3%	2.2%	2.5%	2.4%	2.5%	2.8%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	64.1%	64.7%	59.9%	57.5%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	6.8%	25.8%	30.3%	31.5%	31.6%	29.1%	28.0%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.0%	28.6%	31.6%	33.2%	33.3%	33.8%	34.1%

^{*} Recovery of postconsumer wastes; does not include converting/fabrication scrap.

Details may not add to totals due to rounding.

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

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

[^] Includes recovery of paper and mixed MSW for composting.

Table 3

MATERIALS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010

(In thousands of tons and percent of total discards)

					Thousand	ds of Tons	<u> </u>			
Materials	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Paper and Paperboard	24,910	37,540	43,420	52,500	50,180	42,880	38,050	34,480	25,930	26,740
Glass	6,620	12,580	14,380	10,470	9,890	9,950	9,640	9,340	8,780	8,400
Metals										
Ferrous	10,250	12,210	12,250	10,410	9,470	10,180	10,660	10,660	10,670	11,190
Aluminum	340	790	1,420	1,800	2,330	2,640	2,630	2,690	2,750	2,730
Other Nonferrous	180	350	620	370	540	580	590	600	600	620
Total Metals	10,770	13,350	14,290	12,580	12,340	13,400	13,880	13,950	14,020	14,540
Plastics	390	2,900	6,810	16,760	24,050	27,470	28,630	27,930	27,690	28,490
Rubber and Leather	1,510	2,720	4,070	5,420	5,850	6,200	6,360	6,460	6,490	6,610
Textiles	1,710	1,980	2,370	5,150	8,160	9,670	10,250	10,800	11,110	11,150
Wood	3,030	3,720	7,010	12,080	12,200	12,960	13,170	13,290	13,390	13,580
Other **	70	470	2,020	2,510	3,020	3,080	3,310	3,370	3,400	3,380
Total Materials in Products	49,010	75,260	94,370	117,470	125,690	125,610	123,290	119,620	110,810	112,890
Other Wastes										
Food Scraps	12,200	12,800	13,000	23,860	29,130	31,300	31,800	32,540	33,440	33,790
Yard Trimmings	20,000	23,200	27,500	30,800	14,760	12,210	11,730	11,600	13,300	14,200
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840
Total Other Wastes	33,500	37,780	42,750	57,560	47,390	47,200	47,280	47,920	50,560	51,830
Total MSW Discarded - Weight	82,510	113,040	137,120	175,030	173,080	172,810	170,570	167,540	161,370	164,720
				Per	rcent of T	otal Disca	ards			
Materials	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Paper and Paperboard	30.2%	33.2%	31.7%	30.0%	29.0%	24.8%	22.3%	20.6%	16.1%	16.2%
Glass	8.0%	11.1%	10.5%	6.0%	5.7%	5.8%	5.7%	5.6%	5.4%	5.1%
Metals										
Ferrous	12.4%	10.8%	8.9%	5.9%	5.5%	5.9%	6.2%	6.4%	6.6%	6.8%
Aluminum	0.4%	0.7%	1.0%	1.0%	1.3%	1.5%	1.5%	1.6%	1.7%	1.7%
Other Nonferrous	0.2%	0.3%	0.5%	0.2%	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%
Total Metals	13.1%	11.8%	10.4%	7.2%	7.1%	7.8%	8.1%	8.3%	8.7%	8.8%
Plastics	0.5%	2.6%	5.0%	9.6%	13.9%	15.9%	16.8%	16.7%	17.2%	17.3%
Rubber and Leather	1.8%	2.4%	3.0%	3.1%	3.4%	3.6%	3.7%	3.9%	4.0%	4.0%
Textiles	2.1%	1.8%	1.7%	2.9%	4.7%	5.6%	6.0%	6.4%	6.9%	6.8%
Wood	3.7%	3.3%	5.1%	6.9%	7.0%	7.5%	7.7%	7.9%	8.3%	8.2%
Other **	0.1%	0.4%	1.5%	1.4%	1.7%	1.8%	1.9%	2.0%	2.1%	2.1%
Total Materials in Products	59.4%	66.6%	68.8%	67.1%	72.6%	72.7%	72.3%	71.4%	68.7%	68.5%
Other Wastes		1	1		1	1				
Food Scraps	14.8%	11.3%	9.5%	13.6%	16.8%	18.1%	18.6%	19.4%	20.7%	20.5%
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.1%	6.9%	6.9%	8.2%	8.6%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.2%	2.3%	2.4%	2.3%
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.4%	27.3%	27.7%	28.6%	31.3%	31.5%

^{*} Discards after materials and compost recovery. In this table, discards include combustion with energy recovery.

Details may not add to totals due to rounding.

Does not include construction & demolition debris, industrial process wastes, or certain other wastes.

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

Table 4
PAPER AND PAPERBOARD PRODUCTS IN MSW, 2010
(In thousands of tons and percent of generation)

	Generation	Reco	overy	Discards
	(Thousand	(Thousand	(Percent of	(Thousand
Product Category	tons)	tons)	generation)	tons)
Nondurable Goods				
Newspapers/Mechanical Papers†	9,880	7,070	71.6%	2,810
Books	990			
Magazines	1,590			
Office-type Papers*	5,260			
Standard Mail**	4,340			
Other Commercial Printing	2,480			
Tissue Paper and Towels	3,490			
Paper Plates and Cups	1,350			
Other Nonpackaging Paper***	4,190			
Subtotal Nondurable Goods				
excluding Newspaper/Mechanical Papers§	23,690	10,650	45.0%	13,040
Total Paper and Paperboard				
Nondurable Goods	33,570	17,720	52.8%	15,850
Containers and Packaging				
Corrugated Boxes	29,050	24,690	85.0%	4,360
Gable Top/Aseptic Cartons‡	540			
Folding Cartons	5,470			
Other Paperboard Packaging	90			
Bags and Sacks	1,040			
Other Paper Packaging	1,490			
Subtotal Containers and Packaging				
excluding Corrugated Boxes [§]	8,630	2,160	25.0%	6,470
Total Paper and Paperboard				
Containers and Packaging	37,680	26,850	71.3%	10,830
Total Paper and Paperboard^	71,250	44,570	62.6%	26,680

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

^{*} 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 recovery and discards were not available.

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

[^] Table 4 does not include 10,000 tons of paper used in durable goods and 50,000 tons tissue in disposable diapers (Table 1).

Table 5

GLASS PRODUCTS IN MSW, 2010
(In thousands of tons and percent of generation)

	Generation	Rec	overy	Discards
Product Category	(Thousand tons)	(Thousand tons)	(Percent of generation)	(Thousand tons)
Durable Goods*	2,170	Neg.	Neg.	2,170
Containers and Packaging				
Beer and Soft Drink Bottles**	5,670	2,350	41.4%	3,320
Wine and Liquor Bottles	1,700	420	24.7%	1,280
Other Bottles and Jars	1,990	360	18.1%	1,630
Total Glass Containers	9,360	3,130	33.4%	6,230
Total Glass	11,530	3,130	27.1%	8,400

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

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.

Table 6

METAL PRODUCTS IN MSW, 2010
(In thousands of tons and percent of generation)

	Generation	Rec	overy	Discards
	(Thousand	(Thousand	(Percent of	(Thousand
Product Category	tons)	tons)	generation)	tons)
Durable Goods				
Ferrous Metals*	14,160	3,820	27.0%	10,340
Aluminum**	1,310	Neg.	Neg.	1,310
Lead†	1,540	1,480	96.1%	60
Other Nonferrous Metals‡	560	Neg.	Neg. 30.2%	560
Total Metals in Durable Goods	17,570	5,300	30.2%	12,270
Nondurable Goods				
Aluminum	200	Neg.	Neg.	200
Containers and Packaging				
Steel				
Cans	2,300	1,540	67.0%	760
Other Steel Packaging	440	350	79.5%	90
Total Steel Packaging	2,740	1,890	69.0%	850
Aluminum				
Beer and Soft Drink Cans§	1,370	680	49.6%	690
Other Cans	70	NA		70
Foil and Closures	460	NA		460
Total Aluminum Packaging	1,900	680	35.8%	1,220
Total Metals in				
Containers and Packaging	4,640	2,570	55.4%	2,070
Total Metals	22,410	7,870	35.1%	14,540
Ferrous	16,900	5,710	33.8%	11,190
Aluminum	3,410	680	19.9%	2,730
Other nonferrous	2,100	1,480	70.5%	620

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

NA = Not Available

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 recovery does not include used beverage cans imported to produce new beverage cans.

Table 7 PLASTICS IN PRODUCTS IN MSW, 2010 (In thousands of tons, and percent of generation by resin)

Generation Recovery Discards (Thousand (Thousand (Percent (Thousand **Product Category** of Gen.) tons) tons) tons) **Durable Goods** PET 160 **HDPE** 1,170 **PVC** 240 LDPE/LLDPE 2,000 PP 4,070 PS 580 Other resins 2,740 **Total Plastics in Durable Goods** 10,960 700 6.4% 10,260 **Nondurable Goods** Plastic Plates and Cups§ LDPE/LLDPE 20 20 **PLA** 10 10 PP 140 140 PS 720 720 Subtotal Plastic Plates and Cups 890 890 Neg. Neg. Trash Bags **HDPE** 230 230 LDPE/LLDPE 750 750 Subtotal Trash Bags 980 980 All other nondurables* PET 440 440 **HDPE** 510 510 **PVC** 270 270 LDPE/LLDPE 1,180 1,180 PLA 30 PP 1,290 1,290 PS 210 210 Other resins 600 600 Subtotal All Other Nondurables 4,530 4,530 Total Plastics in Nondurable Goods, by resin PET 440 440 **HDPE** 740 740 **PVC** 270 270 LDPE/LLDPE 1,950 1,950 **PLA** 40 PP 1,430 1,430 PS 930 930 Other resins 600 600 Total Plastics in Nondurable Goods 6,400 6,400 Neg. Neg. **Plastic Containers & Packaging** Bottles and Jars** PET 2,670 780 29.2% 1,890 Natural Bottles† **HDPE** 220 27.5% 580

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 defined in the 2010 Report on Postconsumer PET Container Recycling Activity Final Report. National Association for PET Container Resources.

Recovery includes caps, lids, and other material collected with PET bottles and jars.

[†] White translucent homopolymer bottles as defined in the 2007 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

Table 7 (continued)

PLASTICS IN PRODUCTS IN MSW, 2010

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

	Generation	Reco	very	Discards
	(Thousand	(Thousand	(Percent	(Thousand
Product Category	tons)	tons)	of Gen.)	tons)
Plastic Containers & Packaging, cont.				
Other plastic containers				
HDPE	1,450	280	19.3%	1,170
PVC	30	Neg.		30
LDPE/LLDPE	30	Neg.		30
PP	240	20	8.3%	220
PS	80	Neg.		80
Subtotal Other Containers	1,830	300	16.4%	1,530
Bags, sacks, & wraps				
HDPE	690	30	4.3%	660
PVC	50			50
LDPE/LLDPE	2,380	420	17.6%	1,960
PP	680			680
PS	130			130
Subtotal Bags, Sacks, & Wraps	3,930	450	11.5%	3,480
Other Plastics Packaging‡				
PET	710	Neg.		710
HDPE	600	40	6.7%	560
PVC	320	Neg.		320
LDPE/LLDPE	1,070	Neg.		1,070
PLA	10	Neg.		10
PP	1,110	20	1.8%	1,090
PS	340	20	5.9%	320
Other resins	290	20	6.9%	270
Subtotal Other Packaging	4,450	100	2.2%	4,350
Total Plastics in Containers & Packaging, by resin				
PET	3,380	780	23.1%	2,600
HDPE	3,540	570	16.1%	2,970
PVC	400			400
LDPE/LLDPE	3,480	420	12.1%	3,060
PLA	10			10
PP	2,030	40	2.0%	1,990
PS	550	20	3.6%	530
Other resins	290	20	6.9%	270
Total Plastics in Cont. & Packaging	13,680	1,850	13.5%	11,830
Total Plastics in MSW, by resin				
PET	3,980	780	19.6%	3,200
HDPE	5,450	570	10.5%	4,880
PVC	910			910
LDPE/LLDPE	7,430	420	5.7%	7,010
PLA	50			50
PP	7,530	40	0.5%	7,490
PS	2,060	20	1.0%	2,040
Other resins	3,630	720	19.8%	2,910
Total Plastics in MSW	31,040	2,550	8.2%	28,490
HDPE = High density polyethylene	PET = Polyethy PLA = Polylact	ylene terephthalate	PS = Polystyre PVC = Polyvi	
LUCE = LOW GENSILV DOLVELOVIENE	PLA = POIVIACI	nae.	PVU = POIVVI	uvi chioride

HDPE = High density polyethylene	PET = Polyethylene terephthalate	PS = Polystyrene
LDPE = Low density polyethylene	PLA = Polylactide	PVC = Polyvinyl chloride
LLDPE = Linear low density polyethylene	PP = Polypropylene	

[‡] Other plastic packaging includes coatings, closures, lids, PET cups, caps, clamshells, egg cartons, produce baskets, trays, shapes, loose fill, etc. PP caps and lids recovered with PET bottles and jars are included in the recovery estimate for PET bottles and jars.

Other resins include commingled/undefined plastic packaging recovery.

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

Table 8

RUBBER AND LEATHER PRODUCTS IN MSW, 2010
(In thousands of tons and percent of generation)

	Generation	Reco	overy	Discards
	(Thousand	(Thousand	(Percent of	(Thousand
Product Category	tons)	tons)	generation)	tons)
Durable Goods				
Rubber in Tires*	3,300	1,170	35.5%	2,130
Other Durables**	3,440	Neg.	Neg.	3,440
Total Rubber & Leather				
Durable Goods	6,740	1,170	17.4%	5,570
Nondurable Goods				
Clothing and Footwear	790	Neg.	Neg.	790
Other Nondurables	250	Neg.	Neg.	250
Total Rubber & Leather				
Nondurable Goods	1,040	Neg.	Neg.	1,040
Total Rubber & Leather	7,780	1,170	15.0%	6,610

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

Details may not add to totals due to rounding.

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

Table 9

CATEGORIES OF PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010

(In thousands of tons and percent of total generation)

					Thousan	ds of Ton	۹.					
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010		
Durable Goods	9,920	14,660	21,800	29,810	38,850	44,930	46,260	46,950	47,580	49,080		
(Detail in Table 12)												
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	61,760	58,690	53,440	53,140		
(Detail in Table 15)												
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	78,370	75,700	71,320	75,640		
(Detail in Table 18)												
Total Product** Wastes	54,620	83,280	108,890	146,510	178,700	184,910	186,390	181,340	172,340	177,860		
Other Wastes												
Food Scraps	12,200	12,800	13,000	23,860	29,810	31,990	32,610	33,340	34,290	34,760		
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	32,630	32,900	33,200	33,400		
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840		
Total Other Wastes	33,500	37,780	42,750	61,760	63,840	67,750	68,990	70,020	71,310	72,000		
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	242,540	252,660	255,380	251,360	243,650	249,860		
	Percent of Total Generation											
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010		
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	18.1%	18.7%	19.5%	19.6%		
(Detail in Table 12)												
Nondurable Goods	19.7%	20.7%	22.7%	25.0%	26.4%	25.2%	24.2%	23.3%	21.9%	21.3%		
(Detail in Table 15)												
Containers and Packaging	31.1%	36.0%	34.7%	31.0%	31.3%	30.2%	30.7%	30.1%	29.3%	30.3%		
(Detail in Table 19)												
Total Product** Wastes	62.0%	68.8%	71.8%	70.3%	73.7%	73.2%	73.0%	72.1%	70.7%	71.2%		
Other Wastes												
Food Scraps	13.8%	10.6%	8.6%	11.5%	12.3%	12.7%	12.8%	13.3%	14.1%	13.9%		
Yard Trimmings	22.7%	19.2%	18.1%	16.8%	12.6%	12.7%	12.8%	13.1%	13.6%	13.4%		
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.4%	1.5%	1.5%	1.5%	1.6%	1.5%		
Total Other Wastes	38.0%	31.2%	28.2%	29.7%	26.3%	26.8%	27.0%	27.9%	29.3%	28.8%		
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

^{*} Generation before materials recovery or combustion. Does not include construction & demolition debris, industrial process wastes, or certain other wastes.

Details may not add to totals due to rounding. Source: Franklin Associates, A Division of ERG

^{**} Other than food products.

Table 10

RECOVERY* OF MUNICIPAL SOLID WASTE, 1960 TO 2010
(In thousands of tons and percent of generation of each category)

					TI		_			
Products	1960	1970	1980	1990	2000	ds of Ton	s 2007	2008	2009	2010
Durable Goods	350	940	1,360	3,460	6,580	8,030	8,230	8,360	8,430	9,080
(Detail in Table 13)										
Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	20,970	19,310	18,890	19,190
(Detail in Table 16)										
Containers and Packaging	2,870	3,350	8,490	16,780	28,870	31,500	33,900	34,050	34,210	36,700
(Detail in Table 20)										
Total Product** Wastes	5,610	8,020	14,520	29,040	53,010	59,300	63,100	61,720	61,530	64,970
Other Wastes										
Food, Other^	Neg.	Neg.	Neg.	Neg.	680	690	810	800	850	970
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	20,900	21,300	19,900	19,200
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	21,710	22,100	20,750	20,170
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	69,460	79,850	84,810	83,820	82,280	85,140
				Percent o	f Generati	on of Eac	h Catego	ry		
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	3.5%	6.4%	6.2%	11.6%	16.9%	17.9%	17.8%	17.8%	17.7%	18.5%
(Detail in Table 13)										
Nondurable Goods	13.8%	14.9%	13.6%	16.9%	27.4%	31.1%	34.0%	32.9%	35.3%	36.1%
(Detail in Table 16)										
Containers and Packaging	10.5%	7.7%	16.1%	26.0%	38.1%	41.3%	43.3%	45.0%	48.0%	48.5%
(Detail in Table 21)										
Total Product** Wastes	10.3%	9.6%	13.3%	19.8%	29.7%	32.1%	33.9%	34.0%	35.7%	36.5%
Other Wastes										
Food, Other [^]	Neg.	Neg.	Neg.	Neg.	2.3%	2.2%	2.5%	2.4%	2.5%	2.8%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	64.1%	64.7%	59.9%	57.5%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	6.8%	25.8%	30.3%	31.5%	31.6%	29.1%	28.0%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.0%	28.6%	31.6%	33.2%	33.3%	33.8%	34.1%

^{*} Recovery of postconsumer wastes; does not include converting/fabrication scrap.

^{**} Other than food products.

[^] Includes recovery of paper and mixed MSW for composting.

Details may not add to totals due to rounding. Neg. = Less than 5,000 tons or 0.05 percent.

Source: Franklin Associates, A Division of ERG

Table 11

CATEGORIES OF PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010

(In thousands of tons and percent of total discards)

					Thousen	do of Tou	_					
Products	1960	1970	1980	1990	2000	ds of Ton	2007	2008	2009	2010		
Durable Goods	9,570	13,720	20,440	26,350	32,270	36,900	38,030	38,590	39,150	40,000		
(Detail in Table 14)												
Nondurable Goods	14,940	21,330	29,750	43,370	46,450	43,880	40,790	39,380	34,550	33,950		
(Detail in Table 17)												
Containers and Packaging	24,500	40,210	44,180	47,750	46,970	44,830	44,470	41,650	37,110	38,940		
(Detail in Table 22)												
Total Product** Wastes	49,010	75,260	94,370	117,470	125,690	125,610	123,290	119,620	110,810	112,890		
Other Wastes												
Food Wastes	12,200	12,800	13,000	23,860	29,130	31,300	31,800	32,540	33,440	33,790		
Yard Trimmings	20,000	23,200	27,500	30,800	14,760	12,210	11,730	11,600	13,300	14,200		
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840		
Total Other Wastes	33,500	37,780	42,750	57,560	47,390	47,200	47,280	47,920	50,560	51,830		
Total MSW Discarded - Weight	82,510	113,040	137,120	175,030	173,080	172,810	170,570	167,540	161,370	164,720		
	Percent of Total Discards											
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010		
Durable Goods	11.6%	12.1%	14.9%	15.1%	18.6%	21.4%	22.3%	23.0%	24.3%	24.3%		
(Detail in Table 14)												
Nondurable Goods	18.1%	18.9%	21.7%	24.8%	26.8%	25.4%	23.9%	23.5%	21.4%	20.6%		
(Detail in Table 17)												
Containers and Packaging	29.7%	35.6%	32.2%	27.3%	27.1%	25.9%	26.1%	24.9%	23.0%	23.6%		
(Detail in Table 23)	FO 40/	00.00/	00.00/	07.40/	70.00/	70.70/	70.00/	74 40/	00.70/	00.50/		
Total Product** Wastes	59.4%	66.6%	68.8%	67.1%	72.6%	72.7%	72.3%	71.4%	68.7%	68.5%		
Other Wastes Food Scraps	14.8%	11.3%	9.5%	13.6%	16.8%	18.1%	18.6%	19.4%	20.7%	20.5%		
. 552 551445	1 1.5 /6	1 1.0 70	0.070	10.070	10.070	10.170	10.070	10.170	20.70	20.070		
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.1%	6.9%	6.9%	8.2%	8.6%		
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.2%	2.3%	2.4%	2.3%		
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.4%	27.3%	27.7%	28.6%	31.3%	31.5%		
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

^{*} Discards after materials and compost recovery. In this table, discards include 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. Source: Franklin Associates, A Division of ERG

^{**} Other than food products.

Table 12

PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON DURABLE GOODS)

(In thousands of tons and percent of total generation)

					Thousand	s of Tons	<u> </u>			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods										
Major Appliances	1,630	2,170	2,950	3,310	3,640	3,610	3,620	3,690	3,760	4,020
Small Appliances**				460	1,040	1,180	1,390	1,530	1,630	1,590
Furniture and Furnishings	2,150	2,830	4,760	6,790	8,120	9,340	9,930	10,230	10,500	10,820
Carpets and Rugs**				1,660	2,440	2,830	3,000	3,150	3,320	3,460
Rubber Tires	1,120	1,890	2,720	3,610	4,930	4,910	5,020	5,010	5,010	5,190
Batteries, Lead-Acid	Neg.	820	1,490	1,510	2,280	2,750	2,820	2,940	2,960	3,190
Miscellaneous Durables	- 3		,	,		,		,	,	
Selected Consumer Electronics***					1,900	2,630	3,010	3,160	3,190	3,320
Other Miscellaneous Durables					14,500	17,680	17,470	17,240	17,210	17,490
Total Miscellaneous Durables	5,020	6,950	9,880	12,470	16,400	20,310	20,480	20,400	20,400	20,810
Total Durable Goods	9,920	14,660	21,800	29,810	38,850	44,930	46,260	46,950	47,580	49,080
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	61,760	58,690	53,440	53,140
(Detail in Table 15)	,	-,	, ,	, ,	, , , ,	,	,	,	,	, , ,
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	78,370	75,700	71,320	75,640
(Detail in Table 18)	,	-,	, , , ,	, , , , , ,	-,-	-,	-,-		,	.,.
Total Product Wastes†	54,620	83,280	108,890	146,510	178,700	184,910	186,390	181,340	172,340	177,860
Other Wastes	,- ,-	,	,		,	, , , , ,	,	, , , , ,	,	,
Food Scraps	12,200	12,800	13,000	23,860	29,810	31,990	32,610	33,340	34,290	34,760
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	32,630	32,900	33,200	33,400
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840
Total Other Wastes	33,500	37,780	42,750	61,760	63,840	67,750	68,990	70,020	71,310	72,000
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	242,540	-	255,380	251,360	243,650	249,860
	,	,	,	•	ent of Tot	•	ition			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods										
Major Appliances	1.8%	1.8%	1.9%	1.6%	1.5%	1.4%	1.4%	1.5%	1.5%	1.6%
Small Appliances**				0.2%	0.4%	0.5%	0.5%	0.6%	0.7%	0.6%
Furniture and Furnishings	2.4%	2.3%	3.1%	3.3%	3.3%	3.7%	3.9%	4.1%	4.3%	4.3%
Carpets and Rugs**				0.8%	1.0%	1.1%	1.2%	1.3%	1.4%	1.4%
Rubber Tires	1.3%	1.6%	1.8%	1.7%	2.0%	1.9%	2.0%	2.0%	2.1%	2.1%
Batteries, Lead-Acid	Neg.	0.7%	1.0%	0.7%	0.9%	1.1%	1.1%	1.2%	1.2%	1.3%
Miscellaneous Durables										
Selected Consumer Electronics***					0.8%	1.0%	1.2%	1.3%	1.3%	1.3%
Other Miscellaneous Durables					6.0%	7.0%	6.8%	6.9%	7.1%	7.0%
Total Miscellaneous Durables	5.7%	5.7%	6.5%	6.0%	6.8%	8.0%	8.0%	8.1%	8.4%	8.3%
Total Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	18.1%	18.7%	19.5%	19.6%
Nondurable Goods	19.7%	20.7%	22.7%	25.0%	26.4%	25.2%	24.2%	23.3%	21.9%	21.3%
(Detail in Table 15)										
Containers and Packaging	31.1%	36.0%	34.7%	31.0%	31.3%	30.2%	30.7%	30.1%	29.3%	30.3%
(Detail in Table 19)										
Total Product Wastes†	62.0%	68.8%	71.8%	70.3%	73.7%	73.2%	73.0%	72.1%	70.7%	71.2%
Other Wastes										
Food Scraps	13.8%	10.6%	8.6%	11.5%	12.3%	12.7%	12.8%	13.3%	14.1%	13.9%
Yard Trimmings	22.7%	19.2%	18.1%	16.8%	12.6%	12.7%	12.8%	13.1%	13.6%	13.4%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.4%	1.5%	1.5%	1.5%	1.6%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	29.7%	26.3%	26.8%	27.0%	27.9%	29.3%	28.8%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Generation before materials recovery or combustion. Does not include construction & demolition debris, industrial process

Neg. = Less than 5,000 tons or 0.05 percent. Source: Franklin Associates, A Division of ERG

wastes, or certain other wastes.

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

[†] Other than food products.

^{***} Not estimated separately prior to 1999. For more information on consumer electronics see the website http://www.epa.gov/waste/conserve/materials/ecycling/manage.htm which references the report Electronics Management in the U.S. Through 2009. This 2009 electronics report shows a lower generation tonnage for consumer electronics than does the table above, due to examining a smaller selection of types of electronics.

Table 13

RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 2010 (WITH DETAIL ON DURABLE GOODS)

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

				Т	housand	s of Tons				
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	1300	1370	1300	1330	2000	2000	2007		2000	2010
Major Appliances	10	50	130	1,070	2,000	2,420	2,430	2,470	2,510	2,610
Small Appliances**	10	00	100	1,070	20	20	20	110	110	110
Furniture and Furnishings	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	10	10	10
Carpets and Rugs**	iveg.	iveg.	iveg.	Neg.	190	250	280	270	280	310
Rubber Tires	330	250	150	440	1,290	1,700	1,770	1,770	1,770	1,840
Batteries, Lead-Acid		620	1,040			2,640	2,700	2,820	2,840	3,070
Miscellaneous Durables	Neg.	620	1,040	1,470	2,130	2,040	2,700	2,020	2,040	3,070
					100	200	550	F.C.O.	000	650
Selected Consumer Electronics*** Other Miscellaneous Durables					190	360	550	560	600	
	10	00	40	470	760	640	480	350	310	480
Total Miscellaneous Durables	10	20	40	470	950	1,000	1,030	910	910	1,130
Total Durable Goods	350	940	1,360	3,460	6,580	8,030	8,230	8,360	8,430	9,080
Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	20,970	19,310	18,890	19,190
(Detail in Table 16)		0.050				0.4 500		04.050		
Containers and Packaging	2,870	3,350	8,490	16,780	28,870	31,500	33,900	34,050	34,210	36,700
(Detail in Table 20)										
Total Product Wastes†	5,610	8,020	14,520	29,040	53,010	59,300	63,100	61,720	61,530	64,970
Other Wastes										
Food Scraps	Neg.	Neg.	Neg.	Neg.	680	690	810	800	850	970
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	20,900	21,300	19,900	19,200
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	21,710	22,100	20,750	20,170
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	69,460	79,850	84,810	83,820	82,280	85,140
			P	ercent of	Generation	on of Eac	h Product			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods										
Major Appliances	0.6%	2.3%	4.4%	32.3%	54.9%	67.0%	67.1%	66.9%	66.8%	64.9%
Small Appliances**				2.2%	1.9%	1.7%	1.4%	7.2%	6.7%	6.9%
Furniture and Furnishings	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.1%	0.1%	0.1%
Carpets and Rugs**				Neg.	7.8%	8.8%	9.3%	8.6%	8.4%	9.0%
Rubber Tires	29.5%	13.2%	5.5%	12.2%	26.2%	34.6%	35.3%	35.3%	35.3%	35.5%
Batteries, Lead-Acid	Neg.	75.6%	69.8%	97.4%	93.4%	96.0%	95.7%	95.9%	95.9%	96.2%
Miscellaneous Durables										
Selected Consumer Electronics***					10.0%	13.7%	18.3%	17.7%	18.8%	19.6%
Other Miscellaneous Durables					5.2%	3.6%	2.7%	2.0%	1.8%	2.7%
Total Miscellaneous Durables	0.2%	0.3%	0.4%	3.8%	5.8%	4.9%	5.0%	4.5%	4.5%	5.4%
Total Durable Goods	3.5%	6.4%	6.2%	11.6%	16.9%	17.9%	17.8%	17.8%	17.7%	18.5%
Nondurable Goods	13.8%	14.9%	13.6%	16.9%	27.4%	31.1%	34.0%	32.9%	35.3%	36.1%
(Detail in Table 16)										
Containers and Packaging	10.5%	7.7%	16.1%	26.0%	38.1%	41.3%	43.3%	45.0%	48.0%	48.5%
(Detail in Table 21)]		
Total Product Wastes†	10.3%	9.6%	13.3%	19.8%	29.7%	32.1%	33.9%	34.0%	35.7%	36.5%
Other Wastes]		
Food Scraps	Neg.	Neg.	Neg.	Neg.	2.3%	2.2%	2.5%	2.4%	2.5%	2.8%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	64.1%	64.7%	59.9%	57.5%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	6.8%	25.8%	30.3%	31.5%	31.6%	29.1%	28.0%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.0%	28.6%	31.6%	33.2%	33.3%	33.8%	34.1%

^{*} Recovery of postconsumer wastes; does not include converting/fabrication scrap.

Neg. = Less than 5,000 tons or 0.05 percent. Source: Franklin Associates, A Division of ERG

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

[†] Other than food products.

^{***} Not estimated separately prior to 1999. For more information on consumer electronics see the website http://www.epa.gov/waste/conserve/materials/ecycling/manage.htm which references the report Electronics Management in the U.S. Through 2009. The EPA website referenced above and the 2009 electronics report show a higher recovery rate for consumer electronics than does the table above, due to examining a smaller selection of types of electronics.

Table 14

PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON DURABLE GOODS)

(In thousands of tons and percent of total discards)

					Thousa	nds of To	ns			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods					•					
Major Appliances	1,620	2,120	2,820	2,240	1,640	1,190	1,190	1,220	1,250	1,410
Small Appliances**				450	1,020	1,160	1,370	1,420	1,520	1,480
Furniture and Furnishings	2,150	2,830	4,760	6,790	8,120	9,340	9,930	10,220	10,490	10,810
Carpets and Rugs**				1,660	2,250	2,580	2,720	2,880	3,040	3,150
Rubber Tires	790	1,640	2,570	3,170	3,640	3,210	3,250	3,240	3,240	3,350
Batteries, Lead-Acid	Neg.	200	450	40	150	110	120	120	120	120
Miscellaneous Durables										
Selected Consumer Electronics***					1,710	2,270	2,460	2,600	2,590	2,670
Other Miscellaneous Durables					13,740	17,040	16,990	16,890	16,900	17,010
Total Miscellaneous Durables	5,010	6,930	9,840	12,000	15,450	19,310	19,450	19,490	19,490	19,680
Total Durable Goods	9,570	13,720	20,440	26,350	32,270	36,900	38,030	38,590	39,150	40,000
Nondurable Goods	14,940	21,330	29,750	43,370	46,450	43,880	40,790	39,380	34,550	33,950
(Detail in Table 17)							'		,	, ,
Containers and Packaging	24,500	40,210	44,180	47,750	46,970	44,830	44,470	41,650	37,110	38,940
(Detail in Table 22)		,					,	,	,	•
Total Product Wastes†	49,010	75,260	94,370	117,470	125,690	125,610	123,290	119,620	110,810	112,890
Other Wastes	.,.	,	,- ,-	, -	.,	.,.	,	-,-	-,	,
Food Scraps	12,200	12,800	13,000	23,860	29,130	31,300	31,800	32,540	33,440	33,790
Yard Trimmings	20,000	23,200	27,500	30,800	14,760	12,210	11,730	11,600	13,300	14,200
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840
Total Other Wastes	33,500	37,780	42,750	57,560	47,390	47,200	47,280	47,920	50,560	51,830
Total MSW Discarded - Weight	82,510	113,040	137,120	175,030	173,080	172,810	170,570	167,540	161,370	164,720
		,				f Total Dis		,	,	,
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods		l	l		l					
Major Appliances	2.0%	1.9%	2.1%	1.3%	0.9%	0.7%	0.7%	0.7%	0.8%	0.9%
Small Appliances**				0.3%	0.6%	0.7%	0.8%	0.8%	0.9%	0.9%
Furniture and Furnishings	2.6%	2.5%	3.5%	3.9%	4.7%	5.4%	5.8%	6.1%	6.5%	6.6%
Carpets and Rugs**				0.9%	1.3%	1.5%	1.6%	1.7%	1.9%	1.9%
Rubber Tires	1.0%	1.5%	1.9%	1.8%	2.1%	1.9%	1.9%	1.9%	2.0%	2.0%
Batteries, Lead-Acid	Neg.	0.2%	0.3%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Miscellaneous Durables	_									
Selected Consumer Electronics***				1	1.0%	1.3%	1.4%	1.6%	1.6%	1.6%
Other Miscellaneous Durables					7.9%	9.9%	10.0%	10.1%	10.5%	10.3%
Total Miscellaneous Durables	6.1%	6.1%	7.2%	6.9%	8.9%	11.2%	11.4%	11.6%	12.1%	11.9%
Total Durable Goods	11.6%	12.1%	14.9%	15.1%	18.6%	21.4%	22.3%	23.0%	24.3%	24.3%
Nondurable Goods	18.1%	18.9%	21.7%	24.8%	26.8%	25.4%	23.9%	23.5%	21.4%	20.6%
(Detail in Table 17)										
Containers and Packaging	29.7%	35.6%	32.2%	27.3%	27.1%	25.9%	26.1%	24.9%	23.0%	23.6%
(Detail in Table 23)										
Total Product Wastes†	59.4%	66.6%	68.8%	67.1%	72.6%	72.7%	72.3%	71.4%	68.7%	68.5%
Other Wastes					1	1	10.00/	40.40/	00 70/	20.5%
Other Wastes Food Scraps	14.8%	11.3%	9.5%	13.6%	16.8%	18.1%	18.6%	19.4%	20.7%	20.5%
	14.8% 24.2%	11.3% 20.5%	9.5% 20.1%	13.6% 17.6%	16.8% 8.5%	18.1% 7.1%	6.9%	19.4% 6.9%	20.7% 8.2%	8.6%
Food Scraps										
Food Scraps Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.1%	6.9%	6.9%	8.2%	8.6%

^{*} Discards after materials and compost recovery. In this table, discards include combustion with energy recovery.

*** Not estimated separately prior to 1999. For more information on consumer electronics see the website http://www.epa.gov/waste/conserve/materials/ecycling/manage.htm which references the report Electronics Management in the U.S. Through 2009. This 2009 electronics report shows a lower discards tonnage for consumer electronics than does the table above, due to examining a smaller selection of types of electronics.

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

[†] Other than food products.

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

Table 15

PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON NONDURABLE GOODS)

(In thousands of tons and percent of total generation)

					Thousan	ds of Tons				
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	9,920	14,660	21,800	29,810	38,850	44,930	46,260	46,950	47,580	49,080
(Detail in Table 12)	- /-	,	,	.,.	,	,	-,	-,	,	-,
Nondurable Goods		ı			ı					
Newspapers/Mechanical Papers†	7,110	9,510	11,050	13,430	14,790	12,790	10,780	8,800	7,760	9,880
Directories†**				610	680	660	760	840	650	-
Other Paper Nondurable Goods										
Books and Magazines	1,920	2,470	3,390							
Books**				970	1,240	1,100	1,270	1,340	960	990
Magazines**				2,830	2,230	2,580	2,550	2,050	1,450	1,590
Office-Type Papers***	1,520	2,650	4,000	6,410	7,420	6,620	6,060	6,050	5,380	5,260
Standard Mail§				3,820	5,570	5,830	5,910	5,510	4,650	4,340
Other Commercial Printing†	1,260	2,130	3,120	4,460	7,380	6,440	6,200	5,130	3,490	2,480
Tissue Paper and Towels	1,090	2,080	2,300	2,960	3,220	3,460	3,500	3,460	3,490	3,490
Paper Plates and Cups	270	420	630	650	960	1,160	1,230	1,250	1,170	1,350
Other Nonpackaging Paper	2,700	3,630	4,230	3,840	4,250	4,490	4,260	4,630	4,420	4,190
Total Other Paper Nondurable Goods										23,690
Disposable Diapers	Neg.	350	1,930	2,700	3,230	3,410	3,730	3,770	3,810	3,740
Plastic Plates and Cups§			190	650	870	930	860	780	900	890
Trash Bags**				780	850	1,060	1,070	930	1,000	980
Clothing and Footwear	1,360	1,620	2,170	4,010	6,470	7,890	8,320	8,820	9,080	8,950
Towels, Sheets and Pillowcases**				710	820	980	1,100	1,160	1,230	1,290
Other Miscellaneous Nondurables	100	200	1,410	3,340	4,030	4,250	4,160	4,170	4,000	3,720
Total Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	61,760	58,690	53,440	53,140
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	78,370	75,700	71,320	75,640
(Detail in Table 18)	5 4.000									
Total Product Wastes‡	54,620	83,280	108,890	146,510	178,700	184,910	186,390	181,340	172,340	177,860
Other Wastes	33,500	37,780	42,750	61,760	63,840	67,750	68,990	70,020	71,310	72,000
Total MSW Generated - Weight	88,120	121,060	151,640	208,270		252,660	255,380	251,360	243,650	249,860
Duradurate	1960	1970	1980	1990	ent of Tol	tal Genera 2005	2007	2008	2009	2010
Products										
Durable Goods										
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	18.1%	18.7%	19.5%	19.6%
(Detail in Table 12)										
(Detail in Table 12) Nondurable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	18.1%	18.7%	19.5%	19.6%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers†				14.3%	16.0% 6.1%	17.8% 5.1%	18.1% 4.2%	18.7%	19.5%	
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†**	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	18.1%	18.7%	19.5%	19.6%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods	8.1%	7.9%	7.3%	14.3%	16.0% 6.1%	17.8% 5.1%	18.1% 4.2%	18.7%	19.5%	19.6%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines	11.3%	12.1%	14.4%	14.3% 6.4% 0.3%	6.1% 0.3%	5.1% 0.3%	4.2% 0.3%	3.5% 0.3%	3.2% 0.3%	19.6% 4.0% -
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books**	8.1%	7.9%	7.3%	14.3% 6.4% 0.3% 0.5%	6.1% 0.3% 0.5%	5.1% 0.3% 0.4%	4.2% 0.3% 0.5%	3.5% 0.3% 0.5%	3.2% 0.3% 0.4%	4.0% - 0.4%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines**	8.1%	7.9%	7.3%	14.3% 6.4% 0.3%	6.1% 0.3% 0.5% 0.9%	5.1% 0.3%	4.2% 0.3%	3.5% 0.3%	3.2% 0.3% 0.4% 0.6%	19.6% 4.0% -
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers***	8.1% 2.2%	7.9% 2.0%	7.3%	6.4% 0.3% 0.5% 1.4%	6.1% 0.3% 0.5% 0.9% 3.1%	5.1% 0.3% 0.4% 1.0% 2.6%	4.2% 0.3% 0.5% 1.0% 2.4%	3.5% 0.3% 0.5% 0.8% 2.4%	3.2% 0.3% 0.4% 0.6% 2.2%	19.6% 4.0% - 0.4% 0.6% 2.1%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines**	8.1% 2.2%	7.9% 2.0%	7.3%	6.4% 0.3% 0.5% 1.4% 3.1%	6.1% 0.3% 0.5% 0.9%	5.1% 0.3% 0.4% 1.0%	4.2% 0.3% 0.5% 1.0%	3.5% 0.3% 0.5% 0.8%	3.2% 0.3% 0.4% 0.6%	19.6% 4.0% - 0.4% 0.6%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§	11.3% 8.1% 2.2% 1.7%	7.9% 2.0% 2.2%	7.3% 2.2% 2.6%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3%	5.1% 0.3% 0.4% 1.0% 2.6% 2.3%	4.2% 0.3% 0.5% 1.0% 2.4% 2.3%	3.5% 0.3% 0.5% 0.8% 2.4% 2.2%	3.2% 0.3% 0.4% 0.6% 2.2% 1.9%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing†	11.3% 8.1% 2.2% 1.7% 1.4%	7.9% 2.0% 2.2% 1.8%	7.3% 2.2% 2.6% 2.1%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1%	6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0%	5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5%	4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4%	3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0%	3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels	11.3% 8.1% 2.2% 1.7% 1.4% 1.2%	7.9% 2.0% 2.2% 1.8% 1.7%	7.3% 2.2% 2.6% 2.1% 1.5%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4%	0.5% 0.9% 3.1% 2.3% 3.0% 1.3%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4%	3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4%	3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3%	7.9% 2.0% 2.2% 1.8% 1.7% 0.3%	7.3% 2.2% 2.6% 2.1% 1.5% 0.4%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5%	3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3%	7.9% 2.0% 2.2% 1.8% 1.7% 0.3%	7.3% 2.2% 2.6% 2.1% 1.5% 0.4%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5%	3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 0.5% 1.7%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1%	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0%	7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% 1.7%	3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.4% 0.5% 1.7% 9.5%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1%	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0%	7.3% 2.2% 2.6% 2.1% 0.4% 2.8% 1.3%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.4% 0.5% 1.7%	3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5%	19.5% 3.2% 0.3% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8%	19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 1.5%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1%	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0%	7.3% 2.2% 2.6% 2.1% 0.4% 2.8% 1.3%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 0.3%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.3% 0.4%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3%	3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.3%	3.2% 0.3% 0.4% 0.6% 2.2% 1.4% 1.4% 0.5% 1.8%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 0.4%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags**	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg.	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0%	7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 1.4% 0.3% 1.8% 1.3% 0.3% 0.4%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 0.4% 1.3% 0.4% 0.4% 0.4%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4%	3.5% 0.3% 0.5% 0.8% 2.4% 2.0% 1.4% 0.5% 1.8%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.4% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 1.5% 0.4% 0.4%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg.	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0%	7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 1.8% 1.4% 0.3% 1.8% 1.3% 0.4% 1.9%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 0.4% 1.3% 0.4% 1.8%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 3.1%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3%	3.5% 0.3% 0.5% 0.8% 2.4% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 0.4% 0.4%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.7% 9.5% 1.7% 9.5% 0.4% 3.6%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases**	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg.	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 1.3%	7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 0.3% 1.8% 1.3% 0.3% 1.9% 0.3%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 1.3% 0.4% 2.7% 0.3%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 3.1% 0.4%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.4% 0.5% 1.8% 1.6% 0.4% 3.7% 0.5%	19.6% 4.0% 0.4% 0.6% 2.1% 1.0% 1.7% 9.5% 1.5% 0.4% 0.4% 0.4% 0.5% 0.5%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1%	7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 1.3% 0.2%	14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.3% 0.3% 1.8% 0.3% 0.4% 0.3% 1.9% 1.6%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 1.7%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 0.4% 1.7%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 1.6%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.3% 0.4% 0.3% 0.4% 0.5% 1.5% 0.5% 1.7%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.4% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 0.4% 0.5% 1.6%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.5% 0.4% 0.4% 0.5% 1.5%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% 19.7%	12.1% 7.9% 2.0% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7%	14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% 22.7%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 0.3% 0.4% 1.9% 0.4% 1.6% 25.0%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 1.3% 0.4% 2.7% 0.3% 1.7% 26.4%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 0.4% 0.4% 3.1% 0.4% 0.17% 25.2%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 3.3% 0.4% 3.3%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.4% 3.5% 0.4% 3.5% 0.4% 3.5% 0.5%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 0.4% 3.7% 0.5% 1.6% 21.9%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 0.4% 0.4% 0.4% 3.6% 0.5% 21.3%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables Total Nondurables Containers and Packaging	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% 19.7%	12.1% 7.9% 2.0% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7%	14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% 22.7%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 0.3% 0.4% 1.9% 0.4% 1.6% 25.0%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 1.3% 0.4% 2.7% 0.3% 1.7% 26.4%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 0.4% 0.4% 3.1% 0.4% 0.17% 25.2%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 3.3% 0.4% 3.3%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.4% 3.5% 0.4% 3.5% 0.4% 3.5% 0.5%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 0.4% 3.7% 0.5% 1.6% 21.9%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 0.4% 0.4% 0.4% 3.6% 0.5% 21.3%
(Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables Total Nondurables Containers and Packaging (Detail in Table 19)	11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% 19.7% 31.1%	12.1% 7.9% 2.0% 1.8% 1.7% 0.3% 3.0% 1.3% 0.2% 20.7% 36.0%	14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% 22.7% 34.7%	14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 1.4% 0.3% 1.8% 1.9% 0.3% 0.4% 1.9% 0.3% 1.6% 25.0% 31.0%	16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 0.4% 1.8% 1.3% 0.4% 0.4% 2.7% 0.3% 1.7% 26.4% 31.3%	17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 3.1% 0.4% 3.1% 3.2%	18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 0.5% 1.7% 1.5% 0.4% 3.3% 0.4% 3.3% 3.4% 3.7%	18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5% 1.7% 23.3% 30.1%	19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 0.5% 21.9% 29.3%	19.6% 4.0% 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 1.5% 0.4% 3.6% 0.5% 21.3% 30.3%

^{**} Generation before materials recovery or combustion. 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 16

RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 2010 (WITH DETAIL ON NONDURABLE GOODS)

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

					Thousand	le of Tone				
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	350	940	1,360	3,460	6,580	8,030	8,230	8,360	8,430	9,080
(Detail in Table 13)	000	010	1,000	0,100	0,000	0,000	0,200	0,000	0,100	0,000
Nondurable Goods				l			l			
Newspapers/Mechanical Papers†	1,820	2,250	3,020	5,110	8,720	9,360	8,550	7,740	6,840	7,070
Directories†**	1,020	2,200	0,020	50	120	120	140	180	240	7,070
Other Paper Nondurable Goods				30	120	120	140	100	240	
Books and Magazines	100	260	280							
Books**	100	200	200	100	240	270	360	390	320	_
Magazines**				300	710	960	1,010	820	780	_
Office-Type Papers***	250	710	870	1,700	4,090	4,110	4,300	4,290	3,990	_
Standard Mail§	200	7.10	0,0	200	1,830	2,090	2,380	2,240	2,950	_
Other Commercial Printing†	130	340	350	700	810	1.440	2,790	2,200	2,310	_
Tissue Paper and Towels	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Paper Plates and Cups	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Other Nonpackaging Paper	40	110	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Total Other Paper Nondurable Goods	70	110	iveg.	iveg.	iveg.	iveg.	iveg.	iveg.	iveg.	10,650
Disposable Diapers				Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Plastic Plates and Cups§			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Trash Bags**			. tog.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Clothing and Footwear	50	60	150	520	900	1,250	1,250	1,250	1,250	1,250
Towels, Sheets and Pillowcases**		30	100	120	140	170	190	200	210	220
Other Miscellaneous Nondurables	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Nondurable Goods	2,390	3,730	4.670	8.800	17,560	19.770	20.970	19,310	18,890	19.190
Containers and Packaging	2,870	3,350	8,490	16,780	28,870	31,500	33,900	34,050	34,210	36,700
(Detail in Table 20)	_,-,	-,	-,		,_,	.,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
Total Product Wastes‡	5,610	8,020	14,520	29,040	53,010	59,300	63,100	61,720	61,530	64,970
Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	21,710	22,100	20,750	20,170
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	69,460	79,850	84,810	83,820	82,280	85,140
,										
				Percent o	f Generati	on of Eac	h Product	t		
Products	1960	1970	1980	Percent o	f Generati 2000	on of Eac 2005	h Product 2007	2008	2009	2010
Products Durable Goods	1960 3.5%	1970 6.4%							2009 17.7%	2010 18.5%
			1980	1990	2000	2005	2007	2008		
Durable Goods (Detail in Table 13) Nondurable Goods			1980	1990	2000	2005	2007	2008		
Durable Goods (Detail in Table 13)			1980	1990	2000	2005	2007	2008		
Durable Goods (Detail in Table 13) Nondurable Goods	3.5%	6.4%	1980 6.2%	1990 11.6%	2000 16.9%	2005 17.9%	2007 17.8%	2008 17.8%	17.7%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers†	3.5%	6.4%	1980 6.2%	1990 11.6% 38.0%	2000 16.9% 59.0%	2005 17.9% 73.2%	2007 17.8% 79.3%	2008 17.8% 88.0%	17.7%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†**	3.5%	6.4%	1980 6.2%	1990 11.6% 38.0%	2000 16.9% 59.0%	2005 17.9% 73.2%	2007 17.8% 79.3%	2008 17.8% 88.0%	17.7%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods	3.5% 25.6%	6.4%	1980 6.2% 27.3%	1990 11.6% 38.0%	2000 16.9% 59.0%	2005 17.9% 73.2%	2007 17.8% 79.3%	2008 17.8% 88.0%	17.7%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines**	3.5% 25.6% 5.2%	6.4% 23.7% 10.5%	1980 6.2% 27.3% 8.3%	1990 11.6% 38.0% 8.2% 10.3% 10.6%	2000 16.9% 59.0% 17.6% 19.4% 31.8%	2005 17.9% 73.2% 18.2% 24.5% 37.2%	2007 17.8% 79.3% 18.4% 28.3% 39.6%	2008 17.8% 88.0% 21.4% 29.1% 40.0%	88.1% 36.9% 33.3% 53.8%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers***	3.5% 25.6%	6.4%	1980 6.2% 27.3%	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1%	2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1%	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0%	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9%	88.1% 36.9% 33.3% 53.8% 74.2%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines**	3.5% 25.6% 5.2% 16.4%	6.4% 23.7% 10.5% 26.8%	1980 6.2% 27.3% 8.3% 21.8%	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9%	2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8%	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3%	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing†	3.5% 25.6% 5.2% 16.4% 10.3%	6.4% 23.7% 10.5% 26.8% 16.0%	1980 6.2% 27.3% 8.3% 21.8% 11.2%	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0%	2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1%	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0%	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9%	88.1% 36.9% 33.3% 53.8% 74.2%	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	6.4% 23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg.	2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8%	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg.	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7%	88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg.	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg.	73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg.	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg.	2008 17.8% 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 66.2% Neg.	18.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	6.4% 23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg.	73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg.	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg.	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg.	88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg.	71.6%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg.	73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg.	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg.	2008 17.8% 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg.	71.6%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg.	73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg.	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg.	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg.	71.6%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg.	2005 17.9% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg.	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg.	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg.	71.6%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags**	3.5% 25.6% 5.2% 16.4% 10.3% Neg. Neg. 1.5%	23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0%	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% Neg. Neg. Neg. Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg.	73.2% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg.	79.3% 18.4% 28.3% 39.6% 71.0% 45.0% Neg. Neg. Neg. Neg.	2008 17.8% 17.8% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. Neg.	71.6% 45.0% Neg. Neg.
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear	3.5% 25.6% 5.2% 16.4% 10.3% Neg.	23.7% 10.5% 26.8% 16.0% Neg.	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 52.5% Neg. Neg. Neg. Neg. Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% Neg. Neg. Neg. Neg. Neg. Neg. Neg.	2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 82.4% Neg. Neg. Neg. Neg. Neg.	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% Neg. Neg. Neg. Neg. Neg. Neg.	2008 17.8% 17.8% 21.4% 29.1% 40.0% 40.7% 42.9% Neg. Neg. Neg. Neg. Neg. 14.2%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. Neg. Neg. 13.8%	71.6% 45.0% Neg. Neg. 14.0%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases**	3.5% 25.6% 5.2% 16.4% 10.3% Neg. 1.5%	23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0%	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% Neg. Neg. Neg. Neg. Neg. Neg. 13.0% 16.9%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. Neg. Neg. 13.9% 17.1%	2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. Neg. Neg. 15.8% 17.3%	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. 15.0% 17.3%	2008 17.8% 17.8% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. Neg. 14.2% 17.2%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% Neg. Neg. Neg. Neg. Neg. 13.8% 17.1%	71.6% 45.0% Neg. Neg. 14.0% 17.1%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables	3.5% 25.6% 5.2% 16.4% 10.3% Neg. 1.5% Neg.	6.4% 23.7% 10.5% 26.8% 16.0% Neg. Neg. Neg.	1980 6.2% 27.3% 8.3% 21.8% Neg. Neg. Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 5.2% 15.7% Neg. Neg. Neg. Neg. 13.0% 16.9% Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. 13.9% 17.1% Neg.	73.2% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. 15.8% 17.3%	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg.	2008 17.8% 17.8% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. 14.2% Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. Neg. 13.8% 17.1% Neg.	71.6% 45.0% Neg. Neg. Neg. 14.0% Neg.
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables	3.5% 25.6% 5.2% 16.4% 10.3% Neg. Neg. 1.5%	23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0%	1980 6.2% 27.3% 8.3% 21.8% Neg. Neg. Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. Neg. Neg. Neg. Neg. Neg. 13.0% 16.9%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. 13.9% 17.1% Neg. 27.4%	2005 17.9% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. 15.8% 17.3% 17.3%	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. Neg. 15.0% 17.3% Neg. 34.0%	2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. 14.2% 17.2% Neg. 132.9%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 66.2% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg.	71.6%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables Total Nondurables Containers and Packaging	3.5% 25.6% 5.2% 16.4% 10.3% Neg. 1.5% Neg.	6.4% 23.7% 10.5% 26.8% 16.0% Neg. Neg. Neg.	1980 6.2% 27.3% 8.3% 21.8% Neg. Neg. Neg. Neg.	1990 11.6% 38.0% 8.2% 10.3% 10.6% 5.2% 15.7% Neg. Neg. Neg. Neg. 13.0% 16.9% Neg.	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. 13.9% 17.1% Neg.	73.2% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. 15.8% 17.3%	79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg.	2008 17.8% 17.8% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. 14.2% Neg.	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. Neg. 13.8% 17.1% Neg.	71.6% 45.0% Neg. Neg. Neg. 14.0% Neg.
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables Total Nondurables Containers and Packaging (Detail in Table 21)	3.5% 25.6% 5.2% 16.4% 10.3% Neg. Neg. 1.5%	23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0% Neg. 14.9% 7.7%	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg. Neg. 13.6%	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. Neg. 13.0% 16.9% Neg. 16.9% 26.0%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. 13.9% 17.1% Neg. 27.4% 38.1%	2005 17.9% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. 15.8% 17.3% Neg. 14.3%	2007 17.8% 17.8% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. 15.0% 17.3% Neg. 34.0% 43.3%	2008 17.8% 17.8% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. 14.2% 17.2% 17.2% 45.0%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. 13.8% 17.1% Neg. 35.3%	71.6% 71.6% 45.0% Neg. Neg. 14.0% 17.1% Neg. 36.1% 48.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables Total Nondurables Containers and Packaging (Detail in Table 21) Total Product Wastes‡	3.5% 25.6% 5.2% 16.4% 10.3% Neg. Neg. 1.5% Neg. 10.3% 10.3%	23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0% Neg. 14.9% 7.7% 9.6%	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg. Neg. 13.6% 16.1%	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% Neg. Neg. Neg. Neg. Neg. Neg. 13.0% 16.9% Neg. 13.0% 16.9% 15.7%	2000 16.9% 159.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. 13.9% 17.1% Neg. 27.4% 38.1% 29.7%	2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. Neg. 15.8% 17.3% Neg. 14.3%	2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. 15.0% 17.3% Neg. 34.0% 43.3%	2008 17.8% 17.8% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. 14.2% 17.2% Neg. 32.9% 45.0%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. 13.8% 17.1% Neg. 35.3% 48.0% 35.7%	71.6% 71.6% 45.0% Neg. Neg. 14.0% 17.1% Neg. 36.1% 48.5%
Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels Paper Plates and Cups Other Nonpackaging Paper Total Other Paper Nondurable Goods Disposable Diapers Plastic Plates and Cups§ Trash Bags** Clothing and Footwear Towels, Sheets and Pillowcases** Other Miscellaneous Nondurables Total Nondurables Containers and Packaging (Detail in Table 21)	3.5% 25.6% 5.2% 16.4% 10.3% Neg. Neg. 1.5%	23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0% Neg. 14.9% 7.7%	1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg. Neg. 13.6%	1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. Neg. 13.0% 16.9% Neg. 16.9% 26.0%	2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. 13.9% 17.1% Neg. 27.4% 38.1%	2005 17.9% 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. 15.8% 17.3% Neg. 14.3%	2007 17.8% 17.8% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. 15.0% 17.3% Neg. 34.0% 43.3%	2008 17.8% 17.8% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. 14.2% 17.2% 17.2% 45.0%	17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. 13.8% 17.1% Neg. 35.3%	71.6%

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

^{*} Recovery 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.

PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON NONDURABLE GOODS)

(In thousands of tons and percent of total discards)

					Thousan	ds of Tons				
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	9,570	13,720	20,440	26,350	32,270	36,900	38,030	38,590	39,150	40,000
(Detail in Table 14)	-,	,	,		,	,	,	00,000		,
Nondurable Goods		1	1	1	1	1	1			
Newspapers/Mechanical Papers†	5,290	7,260	8,030	8,320	6,070	3,430	2,230	1,060	920	2,810
Directories†**	-,=	,,	2,000	560	560	540	620	660	410	-
Other Paper Nondurable Goods										
Books and Magazines	1,820	2,210	3,110							
Books**	.,	_,	-,	870	1,000	830	910	950	640	-
Magazines**				2,530	1,520	1,620	1,540	1,230	670	-
Office-Type Papers***	1,270	1,940	3,130	4,710	3,330	2,510	1,760	1,760	1,390	-
Standard Mail§	, -	,	-,	3,620	3,740	3,740	3,530	3,270	1,700	-
Other Commercial Printing†	1,130	1.790	2,770	3,760	6,570	5,000	3,410	2,930	1,180	-
Tissue Paper and Towels	1,090	2,080	2,300	2,960	3,220	3,460	3,500	3,460	3,490	-
Paper Plates and Cups	270	420	630	650	960	1,160	1,230	1,250	1,170	-
Other Nonpackaging Paper	2,660	3,520	4,230	3,840	4,250	4,490	4,260	4,630	4,420	-
Total Other Paper Nondurable Goods	,	-,-	,	-,	,	,	,	,	.,	13,040
Disposable Diapers	Neg.	350	1,930	2,700	3,230	3.410	3,730	3,770	3,810	3.740
Plastic Plates and Cups§	1-9.		190	650	870	930	860	780	900	890
Trash Bags**				780	850	1,060	1,070	930	1,000	980
Clothing and Footwear	1,310	1,560	2,020	3,490	5,570	6,640	7,070	7,570	7,830	7,700
Towels, Sheets and Pillowcases**	,	,	,	590	680	810	910	960	1,020	1,070
Other Miscellaneous Nondurables	100	200	1,410	3,340	4,030	4,250	4,160	4,170	4,000	3,720
Total Nondurable Goods	14.940	21,330	29,750	43,370	46,450	43,880	40,790	39,380	34,550	33,950
Containers and Packaging	24,500	40,210	44,180	47,750	46,970	44,830	44,470	41,650	37,110	38,940
(Detail in Table 22)	,	,				,	ŕ	,		,
Total Product Wastes‡	49,010	75,260	94,370	117,470	125,690	125,610	123,290	119,620	110,810	112,890
Other Wastes	33,500	37,780	42,750	57,560	47,390	47,200	47,280	47,920	50,560	51,830
Total MSW Discarded - Weight	82,510	113,040	137,120	175,030	173,080	172,810	170,570	167,540	161,370	164,720
				Pe	rcent of T	otal Disca	ırds			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	11.6%	12.1%	14.9%	15.1%	18.6%	21.4%	22.3%	23.0%	24.3%	24.3%
(Detail in Table 14)										
Nondurable Goods										
Newspapers/Mechanical Papers†	6.4%	6.4%	5.9%	4.8%	3.5%	2.0%	1.3%	0.6%	0.6%	1.7%
Directories†**				0.3%	0.3%	0.3%	0.4%	0.4%	0.3%	-
Other Paper Nondurable Goods										
Books and Magazines	2.2%	2.0%	2.3%							
Books**				0.5%	0.6%	0.5%	0.5%	0.6%	0.4%	-
Magazines**				1.4%	0.9%	0.9%	0.9%	0.7%	0.4%	-
Office-Type Papers***	1.5%	1.7%	2.3%	2.7%	1.9%	1.5%	1.0%	1.1%	0.9%	-
Standard Mail§				2.1%	2.2%	2.2%	2.1%	2.0%	1.1%	-
Other Commercial Printing†	1.4%	1.6%	2.0%	2.1%	3.8%	2.9%	2.0%	1.7%	0.7%	-
Tissue Paper and Towels	1.3%	1.8%	1.7%	1.7%	1.9%	2.0%	2.1%	2.1%	2.2%	-
Paper Plates and Cups	0.3%	0.4%	0.5%	0.4%	0.6%	0.7%	0.7%	0.7%	0.7%	-
Other Nonpackaging Paper	3.2%	3.1%	3.1%	2.2%	2.5%	2.6%	2.5%	2.8%	2.7%	-
Total Other Paper Nondurable Goods										7.9%
Disposable Diapers	Neg.	0.3%	1.4%	1.5%	1.9%	2.0%	2.2%	2.3%	2.4%	2.3%
Plastic Plates and Cups§			0.1%	0.4%	0.5%	0.5%	0.5%	0.5%	0.6%	0.5%
Trash Bags**				0.4%	0.5%	0.6%	0.6%	0.6%	0.6%	0.6%
Clothing and Footwear	1.6%	1.4%	1.5%	2.0%	3.2%	3.8%	4.1%	4.5%	4.9%	4.7%
Towels, Sheets and Pillowcases**				0.3%	0.4%	0.5%	0.5%	0.6%	0.6%	0.6%
Other Miscellaneous Nondurables	0.1%	0.2%	1.7%	1.9%	2.3%	2.5%	2.4%	2.5%	2.5%	2.3%
Total Nondurables	18.1%	18.9%	21.7%	24.8%	26.8%	25.4%	23.9%	23.5%	21.4%	20.6%
Containers and Packaging	29.7%	35.6%	32.2%	27.3%	27.1%	25.9%	26.1%	24.9%	23.0%	23.6%
(Detail in Table 23)										
Total Product Wastes‡	59.4%	66.6%	68.8%	67.1%	72.6%	72.7%	72.3%	71.4%	68.7%	68.5%
Other Wastes	40.6%	33.4%	31.2%	32.9%	27.4%	27.3%	27.7%	28.6%	31.3%	31.5%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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

^{*} Discards after materials and compost recovery. In this table, discards include 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.

Registric Plates and Cups: Not estimated separately prior to 1980.
 Other than food products.
 Detailed data not available.

Table 18

PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON CONTAINERS AND PACKAGING) (In thousands of tons)

					Thousan	ds of Ton	s			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	9,920	14,660	21,800	29,810	38,850	44,930	46,260	46,950	47,580	49,080
(Detail in Table 12)										
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	61,760	58,690	53,440	53,140
(Detail in Table 15)										
Containers and Packaging		ı	ı	ı	1	1	1	1	1	
Glass Packaging										
Beer and Soft Drink Bottles**	1,400	5,580	6,740	5,640	5,710	6,540	6,760	6,350	6,000	5,670
Wine and Liquor Bottles	1,080	1,900	2,450	2,030	1,910	1,630	1,620	1,610	1,710	1,700
Other Bottles & Jars	3,710	4,440	4,780	4,160	3,420	2,290	2,030	2,090	1,950	1,990
Total Glass Packaging	6,190	11,920	13,970	11,830	11,040	10,460	10,410	10,050	9,660	9,360
Steel Packaging										
Beer and Soft Drink Cans	640	1,570	520	150	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	3,760	3,540	2,850	2,540	2,630	2,130	2,430	2,240	1,880	2,300
Other Steel Packaging	260	270	240	200	240	240	240	240	360	440
Total Steel Packaging	4,660	5,380	3,610	2,890	2,870	2,370	2,670	2,480	2,240	2,740
Aluminum Packaging										
Beer and Soft Drink Cans	Neg.	100	850	1,550	1,520	1,450	1,420	1,390	1,360	1,370
Other Cans	Neg.	60	40	20	50	80	30	70	60	70
Foil and Closures	170	410	380	330	380	400	430	420	460	460
Total Aluminum Packaging	170	570	1,270	1,900	1,950	1,930	1,880	1,880	1,880	1,900
Paper & Paperboard Pkg										
Corrugated Boxes	7,330	12,760	17,080	24,010	30,210	30,930	31,230	29,710	27,190	29,050
Other Paper & Paperboard Pkg		'			,	,	,		,	,
Gable Top/Aseptic Cartons‡			790	510	550	500	500	490	460	540
Folding Cartons			3,820	4,300	5,820	5,530	5,530	5,340	4,980	5,470
Other Paperboard Packaging	3,840	4,830	230	290	200	160	150	120	90	90
Bags and Sacks	0,0.0	,,000	3,380	2,440	1,490	1,120	1,140	1,170	910	1,040
Wrapping Papers			200	110	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Other Paper Packaging	2,940	3,810	850	1,020	1,670	1,400	1,390	1,460	1,310	1,490
Subtotal Other Paper & Paperboard Pkg	2,040	0,010	000	1,020	1,070	1,400	1,000	1,400	1,010	8,630
Total Paper & Board Pkg	14,110	21,400	26,350	32,680	39,940	39,640	39,940	38,290	34,940	37,680
Plastics Packaging	14,110	21,400	20,330	32,000	33,340	33,040	33,340	30,230	34,340	37,000
PET Bottles and Jars			260	430	1,720	2,540	2,840	2,680	2,570	2,670
HDPE Natural Bottles			230	530	690	800	820	750	760	800
Other Containers	60	910	890	1,430	1,740	1,420	1,910	1,900	1,750	1,830
	00	910	390	940	-			940	660	770
Bags and Sacks					1,650	1,640	1,010			
Wraps			840	1,530	2,550	2,810	3,180	3,020	3,190	3,160
Subtotal Bags, Sacks, and Wraps	000	1 100	1,230	2,470	4,200	4,450	4,190	3,960	3,850	3,930
Other Plastics Packaging	60	1,180	790	2,040	2,840	3,210	3,870	3,720	3,600	4,450
Total Plastics Packaging	120	2,090	3,400	6,900	11,190	12,420	13,630	13,010	12,530	13,680
Wood Packaging	2,000	2,070	3,940	8,180	8,610	9,230	9,520	9,680	9,790	9,940
Other Misc. Packaging	120	130	130	150	240	280	320	310	280	340
Total Containers & Pkg	27,370	43,560	52,670	64,530	75,840	76,330	78,370	75,700	71,320	75,640
Total Product Wastes†	54,620	83,280	108,890	146,510	178,700	184,910	186,390	181,340	172,340	177,860
Other Wastes	10.000	10.000	10 000	00.000	20.010	21 000	20.010	22.040	24.000	04.700
Food Scraps	12,200	12,800	13,000	23,860	29,810	31,990	32,610	33,340	34,290	34,760
Yard Trimmings Miscellaneous Inorganic Wastes	20,000	23,200 1,780	27,500 2,250	35,000 2,900	30,530 3,500	32,070 3,690	32,630 3,750	32,900 3,780	33,200 3,820	33,400 3,840
Total Other Wastes	33,500	37,780	42,750	61,760	63,840	67,750	68,990	70,020	71,310	72,000
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	242,540	252,660	255,380	251,360	243,650	249,860

^{*} Generation before materials recovery or combustion.

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

[†] Other than food products.

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

Details may not add to totals due to rounding.

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

⁻ Detailed data not available.

Table 19

PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON CONTAINERS AND PACKAGING) (In percent of total generation)

				Perc	ent of To	tal Genera	ation			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	18.1%	18.7%	19.5%	19.6%
(Detail in Table 12)										
Nondurable Goods	19.7%	20.7%	22.7%	25.0%	26.4%	25.2%	24.2%	23.3%	21.9%	21.3%
(Detail in Table 15)										
Containers and Packaging				T			T	T		
Glass Packaging										
Beer and Soft Drink Bottles**	1.6%	4.6%	4.4%	2.7%	2.4%	2.6%	2.6%	2.5%	2.5%	2.3%
Wine and Liquor Bottles	1.2%	1.6%	1.6%	1.0%	0.8%	0.6%	0.6%	0.6%	0.7%	0.7%
Other Bottles & Jars	4.2%	3.7%	3.2%	2.0%	1.4%	0.9%	0.8%	0.8%	0.8%	0.8%
Total Glass Packaging	7.0%	9.8%	9.2%	5.7%	4.6%	4.1%	4.1%	4.0%	4.0%	3.7%
Steel Packaging										
Beer and Soft Drink Cans	0.7%	1.3%	0.3%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	4.3%	2.9%	1.9%	1.2%	1.1%	0.8%	1.0%	0.9%	0.8%	0.9%
Other Steel Packaging	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%
Total Steel Packaging	5.3%	4.4%	2.4%	1.4%	1.2%	0.9%	1.0%	1.0%	0.9%	1.1%
Aluminum Packaging										
Beer and Soft Drink Cans	Neg.	0.1%	0.6%	0.7%	0.6%	0.6%	0.6%	0.6%	0.6%	0.5%
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.01%	0.03%	0.02%	0.03%
Foil and Closures	0.2%	0.3%	0.3%	0.2%	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%	0.7%	0.7%	0.8%	0.8%
Paper & Paperboard Pkg										
Corrugated Boxes	8.3%	10.5%	11.3%	11.5%	12.5%	12.2%	12.2%	12.2%	11.2%	11.6%
Other Paper & Paperboard Pkg	0.070					,				
Gable Top/Aseptic Cartons‡			0.5%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Folding Cartons			2.5%	2.1%	2.4%	2.2%	2.2%	2.1%	2.0%	2.2%
Other Paperboard Packaging	4.4%	4.0%	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%
Bags and Sacks	,0		2.2%	1.2%	0.6%	0.4%	0.4%	0.5%	0.4%	0.4%
Wrapping Papers			0.1%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Other Paper Packaging	3.3%	3.1%	0.6%	0.5%	0.7%	0.6%	0.5%	0.6%	0.5%	0.6%
Subtotal Other Paper & Paperboard Pkg	0.070	0.170	0.070	0.070	0.7 70	0.070	0.070	0.070	0.070	3.5%
Total Paper & Board Pkg	16.0%	17.7%	17.4%	15.7%	16.5%	15.7%	15.6%	15.2%	14.3%	15.1%
Plastics Packaging	10.070	17.770	17.470	10.7 70	10.070	10.770	10.070	10.270	14.070	10.170
PET Bottles and Jars			0.2%	0.2%	0.7%	1.0%	1.1%	1.1%	1.1%	1.1%
HDPE Natural Bottles			0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
Other Containers	0.1%	0.8%	0.2%	0.5%	0.5%	0.5%	0.5%	0.8%	0.5%	0.7%
Bags and Sacks	0.170	0.078	0.0%	0.7 %	0.7%	0.6%	0.7 %	0.6%	0.7 %	0.7%
Wraps			0.5%	0.5%	1.1%	1.1%	1.2%	1.2%	1.3%	1.3%
Subtotal Bags, Sacks, and Wraps			0.8%	1.2%	1.7%	1.1%	1.6%	1.6%	1.6%	1.6%
Other Plastics Packaging	0.1%	1.0%	0.5%	1.0%	1.7%	1.3%	1.5%	1.5%	1.5%	1.8%
Total Plastics Packaging	0.1%	1.7%	2.2%	3.3%	4.6%	4.9%	5.3%	5.2%	5.1%	5.5%
Wood Packaging	2.3%	1.7%	2.6%	3.9%	3.5%	3.7%	3.7%	3.9%	4.0%	4.0%
Other Misc. Packaging	0.1%	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%	31.3%	30.2%	30.7%	30.1%	29.3%	30.3%
Total Product Wastes† Other Wastes	62.0%	68.8%	71.8%	70.3%	73.7%	73.2%	73.0%	72.1%	70.7%	71.2%
Food Scraps	13.8%	10.6%	8.6%	11.5%	12.3%	12.7%	12.8%	13.3%	14.1%	13.9%
Yard Trimmings	22.7%	19.2%	18.1%	16.8%	12.5%	12.7%	12.8%	13.1%	13.6%	13.4%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.4%	1.5%	1.5%	1.5%	1.6%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	29.7%	26.3%	26.8%	27.0%	27.9%	29.3%	28.8%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Generation before materials recovery or combustion.

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

[†] Other than food products.

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

Details may not add to totals due to rounding.

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

⁻ Detailed data not available.

Table 20

RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 2010 (WITH DETAIL ON CONTAINERS AND PACKAGING) (In thousands of tons)

					Thousan	ds of Tons	S			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	350	940	1,360	3,460	6,580	8,030	8,230	8,360	8,430	9,080
(Detail in Table 13)										
Nondurable Goods	2,390	3,730	4,670	8,800	17,560	19,770	20,970	19,310	18,890	19,190
(Detail in Table 16)										
Containers and Packaging										
Glass Packaging										
Beer and Soft Drink Bottles**	90	140	730	1,890	1,530	2,000	2,340	2,260	2,340	2,350
Wine and Liquor Bottles	10	10	20	210	430	250	240	240	310	420
Other Bottles & Jars	Neg.	Neg.	Neg.	520	920	340	300	310	350	360
Total Glass Packaging	100	150	750	2,620	2,880	2,590	2,880	2,810	3,000	3,130
Steel Packaging										
Beer and Soft Drink Cans	10	20	50	40	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	20	60	150	590	1,530	1,340	1,570	1,410	1,240	1,540
Other Steel Packaging	Neg.	Neg.	Neg.	60	160	160	160	190	290	350
Total Steel Packaging	30	80	200	690	1,690	1,500	1,730	1,600	1,530	1,890
Aluminum Packaging										
Beer and Soft Drink Cans	Neg.	10	320	990	830	650	690	670	690	680
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	10	NA	NA
Foil and Closures	Neg.	Neg.	Neg.	20	30	40	40	40	NA	NA
Total Aluminum Pkg	Neg.	10	320	1,010	860	690	730	720	690	680
Paper & Paperboard Pkg	Ŭ			,						
Corrugated Boxes	2,520	2,760	6,390	11,530	20,330	22.100	22,980	22,760	22,100	24,690
Other Paper & Paperboard Pkg	_,	_,	,,,,,,	,		,	,	,	,	,,,,,
Gable Top/Aseptic Cartons‡			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	30	_
Folding Cartons			520	340	410	1,190	1,550	1,880	2,490	_
Other Paperboard Packaging			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Bags and Sacks			Neg.	200	300	320	420	440	450	_
Wrapping Papers			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Other Paper Packaging	220	350	300	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Subtotal Other Paper & Paperboard Pkg		000	000	riog.	riog.	riog.	riog.	riog.	ivog.	2,160
Total Paper & Board Pkg	2,740	3,110	7,210	12,070	21,040	23,610	24,950	25,080	25,070	26,850
Plastics Packaging	2,740	0,110	7,210	12,070	21,040	20,010	24,000	20,000	20,070	20,000
PET Bottles and Jars			10	140	380	590	700	730	720	780
HDPE Natural Bottles			Neg.	20	210	230	230	220	220	220
Other Containers	Neg.	Neg.	Neg.	20	170	140	190	280	290	300
Bags and Sacks	iveg.	Neg.	iveg.	20	170	140	130	200	230	300
Wraps										
Subtotal Bags, Sacks, and Wraps			Neg.	60	180	230	380	390	360	450
Other Plastics Packaging	Neg.	Neg.	Neg.	20	90	90	90	110	130	100
Total Plastics Packaging		•	10	260	1,030	1,280	1,590	1,730	1,720	1,850
Wood Packaging	Neg. Neg.	Neg. Neg.		130	1,030	1,830	2,020	2,110	2,200	2,300
Other Misc. Packaging			Neg.		١		l	l		
	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Containers & Pkg	2,870	3,350	8,490	16,780	28,870	31,500	33,900	34,050	34,210	36,700
Total Product Wastes†	5,610	8,020	14,520	29,040	53,010	59,300	63,100	61,720	61,530	64,970
Other Wastes	.				200	200	010	200	050	070
Food Scraps	Neg.	Neg.	Neg.	Neg.	680	690	810	800	850	970
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	20,900	21,300	19,900	19,200
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	21,710	22,100	20,750	20,170
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	69,460	79,850	84,810	83,820	82,280	85,140

^{*} Recovery 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.

[†] Other than food products.

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

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

NA = Not Available

⁻ Detailed data not available.

Source: Franklin Associates, A Division of ERG

Table 21

RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 2010 (WITH DETAIL ON CONTAINERS AND PACKAGING) (In percent of generation of each product)

			F	Percent of	Generati	on of Eac	h Product			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	3.5%	6.4%	6.2%	11.6%	16.9%	17.9%	17.8%	17.8%	17.7%	18.5%
(Detail in Table 13)										
Nondurable Goods	13.8%	14.9%	13.6%	16.9%	27.4%	31.1%	34.0%	32.9%	35.3%	36.1%
(Detail in Table 16)										
Containers and Packaging										
Glass Packaging										
Beer and Soft Drink Bottles**	6.4%	2.5%	10.8%	33.5%	26.8%	30.6%	34.6%	35.6%	39.0%	41.4%
Wine and Liquor Bottles	Neg.	Neg.	Neg.	10.3%	22.5%	15.3%	14.8%	14.9%	18.1%	24.7%
Other Bottles & Jars	Neg.	Neg.	Neg.	12.5%	26.9%	14.8%	14.8%	14.8%	17.9%	18.1%
Total Glass Packaging	1.6%	1.3%	5.4%	22.1%	26.1%	24.8%	27.7%	28.0%	31.1%	33.4%
Steel Packaging										
Beer and Soft Drink Cans	1.6%	1.3%	9.6%	26.7%	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	Neg.	1.7%	5.3%	23.2%	58.2%	62.9%	64.6%	62.9%	66.0%	67.0%
Other Steel Packaging	Neg.	Neg.	Neg.	30.0%	66.7%	66.7%	66.7%	79.2%	80.6%	79.5%
Total Steel Packaging	Neg.	1.5%	5.5%	23.9%	58.9%	63.3%	64.8%	64.5%	68.3%	69.0%
Aluminum Packaging		,	0.070		0010,0					
Beer and Soft Drink Cans	Neg.	10.0%	37.6%	63.9%	54.6%	44.8%	48.6%	48.2%	50.7%	49.6%
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	14.3%	NA	NA
Foil and Closures	Neg.	Neg.	Neg.	6.1%	7.9%	10.0%	9.3%	9.5%	NA	NA
Total Aluminum Pkg	Neg.	1.8%	25.2%	53.2%	44.1%	35.8%	38.8%	38.3%	36.7%	35.8%
Paper & Paperboard Pkg	1109.	11070	20.270	00.270	, 0	00.070	00.070	00.070	001770	00.070
Corrugated Boxes	34.4%	21.6%	37.4%	48.0%	67.3%	71.5%	73.6%	76.6%	81.3%	85.0%
Other Paper & Paperboard Pkg	0,0	211070	07.1.70	10.070	07.070	7 1.070	7 0.0 70	7 0.0 70	0.1070	00.070
Gable Top/Aseptic Cartons‡			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	6.5%	_
Folding Cartons			Neg.	Neg.	7.0%	21.5%	28.0%	35.2%	50.0%	_
Other Paperboard Packaging			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Bags and Sacks			Neg.	Neg.	20.1%	28.6%	36.8%	37.6%	49.5%	_
Wrapping Papers			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Other Paper Packaging	7.5%	9.2%	35.3%	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	_
Subtotal Other Paper & Paperboard Pkg	7.1070	0.270	00.070	. tog.		, tog.	. 109.	og.	i iog.	25.0%
Total Paper & Board Pkg	19.4%	14.5%	27.4%	36.9%	52.7%	59.6%	62.5%	65.5%	71.8%	71.3%
Plastics Packaging	10.170	1 1.0 /0	27.170	00.070	02.770	00.070	02.070	00.070	71.070	7 1.070
PET Bottles and Jars			3.8%	32.6%	22.1%	23.2%	24.6%	27.2%	28.0%	29.2%
HDPE Natural Bottles			Neg.	3.8%	30.4%	28.8%	28.0%	29.3%	28.9%	27.5%
Other Containers	Neg.	Neg.	Neg.	1.4%	9.8%	9.9%	9.9%	14.7%	16.6%	16.4%
Bags and Sacks	i tog.	rtog.	rtog.	1.170	0.070	0.070	0.070	1 1.7 70	10.070	10.170
Wraps										
Subtotal Bags, Sacks, and Wraps			Neg.	2.4%	4.3%	5.2%	9.1%	9.8%	9.4%	11.5%
Other Plastics Packaging	Neg.	Neg.	Neg.	1.0%	3.2%	2.8%	2.3%	3.0%	3.6%	2.2%
Total Plastics Packaging	Neg.	Neg.	Neg.	3.8%	9.2%	10.3%	11.7%	13.3%	13.7%	13.5%
Wood Packaging	Neg.	Neg.	Neg.	1.6%	15.9%	19.8%	21.2%	21.8%	22.5%	23.1%
Other Misc. Packaging	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Containers & Pkg	10.5%	7.7%	16.1%	26.0%	38.1%	41.3%	43.3%	45.0%	48.0%	48.5%
Total Product Wastes†	10.3%	9.6%	13.3%	19.8%	29.7%	32.1%	33.9%	34.0%	35.7%	36.5%
Other Wastes	10.070	0.070	10.070	10.070	20 70	02	00.070	0 70	00.77	00.070
Food Scraps	Neg.	Neg.	Neg.	Neg.	2.3%	2.2%	2.5%	2.4%	2.5%	2.8%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	64.1%	64.7%	59.9%	57.5%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	6.8%	25.8%	30.3%	31.5%	31.6%	29.1%	28.0%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.0%	28.6%	31.6%	33.2%	33.3%	33.8%	34.1%

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

NA = Not Available

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

[†] Other than food products.

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

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

⁻ Detailed data not available.

Source: Franklin Associates, A Division of ERG

Table 22

PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON CONTAINERS AND PACKAGING) (In thousands of tons)

					Thousan	ds of Tons	<u> </u>			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	9,570	13,720	20,440	26,350	32,270	36,900	38,030	38,590	39,150	40,000
(Detail in Table 14)			•				-			
Nondurable Goods	14,940	21,330	29,750	43,370	46,450	43,880	40,790	39,380	34,550	33,950
(Detail in Table 17)	,	,	, , , , ,				, , , , ,	,	, , , , , , ,	,
Containers and Packaging			•	•	•		•			
Glass Packaging										
Beer and Soft Drink Bottles**	1,310	5,440	6,010	3,750	4,180	4,540	4,420	4,090	3,660	3,320
Wine and Liquor Bottles	1,070	1,890	2,430	1,820	1,480	1,380	1,380	1,370	1,400	1,280
Other Bottles & Jars	3,710	4,440	4,780	3,640	2,500	1,950	1,730	1,780	1,600	1,630
Total Glass Packaging	6,090	11,770	13,220	9,210	8,160	7,870	7,530	7,240	6,660	6,230
Steel Packaging		, -			-,	,	,	, -		-,
Beer and Soft Drink Cans	630	1,550	470	110	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	3,740	3,480	2,700	1,950	1,100	790	860	830	640	760
Other Steel Packaging	260	270	240	140	80	80	80	50	70	90
Total Steel Packaging	4,630	5,300	3,410	2,200	1,180	870	940	880	710	850
Aluminum Packaging	.,	-,	,,,,,	_,,	.,					
Beer and Soft Drink Cans	Neg.	90	530	560	690	800	730	720	670	690
Other Cans	Neg.	60	40	20	50	80	30	70	60	70
Foil and Closures	170	410	380	310	350	360	390	380	460	460
Total Aluminum Pkg	170	560	950	890	1,090	1,240	1,150	1,170	1,190	1,220
Paper & Paperboard Pkg	170	300	330	000	1,000	1,240	1,100	1,170	1,100	1,220
Corrugated Boxes	4,810	10,000	10,690	12,480	9,880	8,830	8,250	6,950	5,090	4,360
Other Paper & Paperboard Pkg	4,010	10,000	10,030	12,400	3,000	0,000	0,230	0,330	3,030	7,500
Gable Top/Aseptic Cartons‡			790	510	550	500	500	490	430	
Folding Cartons			3,300	3,960	5,410	4,340	3,980	3,460	2,490	_
Other Paperboard Packaging	3,840	4,830	230	290	200	160	150	120	90	_
Bags and Sacks	3,040	4,030	3,380	2,240	1,190	800	720	730	460	_
Wrapping Papers			200	110	· ·		-			_
Other Paper Packaging	0.700	2.460	550		Neg.	Neg.	Neg.	Neg.	Neg.	-
Subtotal Other Paper & Paperboard Pkg	2,720	3,460	330	1,020	1,670	1,400	1,390	1,460	1,310	6,470
	11 270	10 000	10 140	20.610	10 000	16.000	14.000	10.010	0.070	10,830
Total Paper & Board Pkg	11,370	18,290	19,140	20,610	18,900	16,030	14,990	13,210	9,870	10,630
Plastics Packaging			050	000	1 0 1 0	1.050	0.140	1.050	1.050	1 000
PET Bottles and Jars HDPE Natural Bottles			250	290	1,340	1,950	2,140	1,950	1,850	1,890
	00	010	230	510	480	570	590	530	540	580
Other Containers	60	910	890	1,410	1,570	1,280	1,720	1,620	1,460	1,530
Bags and Sacks										
Wraps			4 000	0.440	4.000	4.000	0.040	0.570	0.400	0.400
Subtotal Bags, Sacks, and Wraps	00	4 400	1,230	2,410	4,020	4,220	3,810	3,570	3,490	3,480
Other Plastics Packaging	60	1,180	790	2,020	2,750	3,120	3,780	3,610	3,470	4,350
Total Plastics Packaging	120	2,090	3,390	6,640	10,160	11,140	12,040	11,280	10,810	11,830
Wood Packaging	2,000	2,070	3,940	8,050	7,240	7,400	7,500	7,570	7,590	7,640
Other Misc. Packaging	120	130	130	150	240	280	320	310	280	340
Total Containers & Pkg	24,500	40,210	44,180	47,750	46,970	44,830	44,470	41,660	37,110	38,940
Total Product Wastes†	49,010	75,260	94,370	117,470	125,690	125,610	123,290	119,630	110,810	112,890
Other Wastes										
Food Scraps	12,200	12,800	13,000	23,860	29,130	31,300	31,800	32,540	33,440	33,790
Yard Trimmings	20,000	23,200	27,500	30,800	14,760	12,210	11,730	11,600	13,300	14,200
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,750	3,780	3,820	3,840
Total Other Wastes	33,500	37,780	42,750	57,560	47,390	47,200	47,280	47,920	50,560	51,830
Total MSW Discarded - Weight	82,510	113,040	137,120	175,030	173,080	172,810	170,570	167,550	161,370	164,720

 $^{^{\}star}$ Discards after materials and compost recovery. In this table, discards include 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.

[†] Other than food products.

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

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

⁻ Detailed data not available.

Table 23

PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON CONTAINERS AND PACKAGING) (In percent of total discards)

				Per	cent of To	otal Disca	rds			
Products	1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Durable Goods	11.6%	12.1%	14.9%	15.1%	18.6%	21.4%	22.3%	23.0%	24.3%	24.3%
(Detail in Table 14)										
Nondurable Goods	18.1%	18.9%	21.7%	24.8%	26.8%	25.4%	23.9%	23.5%	21.4%	20.6%
(Detail in Table 17)										
Containers and Packaging										
Glass Packaging										
Beer and Soft Drink Bottles**	1.6%	4.8%	4.4%	2.1%	2.4%	2.6%	2.6%	2.4%	2.3%	2.0%
Wine and Liquor Bottles	1.3%	1.7%	1.8%	1.0%	0.9%	0.8%	0.8%	0.8%	0.9%	0.8%
Other Bottles & Jars	4.5%	3.9%	3.5%	2.1%	1.4%	1.1%	1.0%	1.1%	1.0%	1.0%
Total Glass Packaging	7.4%	10.4%	9.6%	5.3%	4.7%	4.6%	4.4%	4.3%	4.1%	3.8%
Steel Packaging										
Beer and Soft Drink Cans	0.8%	1.4%	0.3%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Cans	4.5%	3.1%	2.0%	1.1%	0.6%	0.5%	0.5%	0.5%	0.4%	0.5%
Other Steel Packaging	0.3%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Total Steel Packaging	5.6%	4.7%	2.5%	1.3%	0.7%	0.5%	0.6%	0.5%	0.4%	0.5%
Aluminum Packaging	0.070	,0	2.070	1.070	017 70	0.070	0.070	0.070	0.170	0.070
Beer and Soft Drink Cans	Neg.	0.1%	0.4%	0.3%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Foil and Closures	0.2%	0.4%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%
Total Aluminum Pkg	0.2%	0.5%	0.7%	0.5%	0.6%	0.7%	0.2%	0.7%	0.7%	0.7%
Paper & Paperboard Pkg	0.276	0.576	0.7 /6	0.576	0.076	0.7 /6	0.7 /6	0.7 /6	0.7 /6	0.7 /6
Corrugated Boxes	5.8%	8.8%	7.8%	7.1%	5.7%	5.1%	4.8%	4.1%	3.2%	2.6%
Other Paper & Paperboard Pkg	3.0 /6	0.076	7.076	7.170	J.7 /6	J. 1 /0	4.0 /0	4.170	J.Z /6	2.076
Gable Top/Aseptic Cartons‡			0.69/	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	
			0.6%							-
Folding Cartons	4.70/	4.00/	2.4%	2.3%	3.1%	2.5%	2.3%	2.1%	1.5%	-
Other Paperboard Packaging	4.7%	4.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	-
Bags and Sacks			2.5%	1.3%	0.7%	0.5%	0.4%	0.4%	0.3%	-
Wrapping Papers	0.00/	0.40/	0.1%	0.1%	Neg.	Neg.	Neg.	Neg.	Neg.	-
Other Paper Packaging	3.3%	3.1%	0.4%	0.6%	1.0%	0.8%	0.8%	0.9%	0.8%	-
Subtotal Other Paper & Paperboard Pkg	10.00/	40.00/	4.4.007	44.00/	40.00/	0.00/	0.00/	7.00/	0.40/	3.9%
Total Paper & Board Pkg	13.8%	16.2%	14.0%	11.8%	10.9%	9.3%	8.8%	7.9%	6.1%	6.6%
Plastics Packaging										
PET Bottles and Jars			0.2%	0.2%	0.8%	1.1%	1.3%	1.2%	1.1%	1.1%
HDPE Natural Bottles			0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.4%
Other Containers	0.1%	0.8%	0.6%	0.8%	0.9%	0.7%	1.0%	1.0%	0.9%	0.9%
Bags and Sacks										
Wraps										
Subtotal Bags, Sacks, and Wraps			0.9%	1.4%	2.3%	2.4%	2.2%	2.1%	2.2%	2.1%
Other Plastics Packaging	0.1%	1.0%	0.6%	1.2%	1.6%	1.8%	2.2%	2.2%	2.2%	2.6%
Total Plastics Packaging	0.1%	1.8%	2.5%	3.8%	5.9%	6.4%	7.1%	6.7%	6.7%	7.2%
Wood Packaging	2.4%	1.8%	2.9%	4.6%	4.2%	4.3%	4.4%	4.5%	4.7%	4.6%
Other Misc. Packaging	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%
Total Containers & Pkg	29.7%	35.6%	32.2%	27.3%	27.1%	25.9%	26.1%	24.9%	23.0%	23.6%
Total Product Wastes†	59.4%	66.6%	68.8%	67.1%	72.6%	72.7%	72.3%	71.4%	68.7%	68.5%
Other Wastes										
Food Scraps	14.8%	11.3%	9.5%	13.6%	16.8%	18.1%	18.6%	19.4%	20.7%	20.5%
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.1%	6.9%	6.9%	8.2%	8.6%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.2%	2.3%	2.4%	2.3%
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.4%	27.3%	27.7%	28.6%	31.3%	31.5%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

 $^{^{\}star}$ Discards after materials and compost recovery. In this table, discards include 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.

[†] Other than food products.

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

Neg. = Less than 5,000 tons or 0.05 percent. Details may not add to totals due to rounding.

⁻ Detailed data not available.

Table 24
SELECTED EXAMPLES OF SOURCE REDUCTION PRACTICES

	MSW Product Categories							
Source Reduction Practice	Durable Goods	Nondurable Goods	Containers & Packaging	Organics				
Redesign								
Materials reduction	Downgauge metals in appliances	Paperless purchase orders	Concentrates Container lightweighting	Xeriscaping				
Materials substitution	Use of composites in appliances and electronic circuitry		Cereal in bags Coffee brick Multi-use products					
Lengthen life	High mileage tires Electronic components reduce moving parts	Regular servicingLook at warrantiesExtend warranties	Design for secondary uses					
Consumer Practices								
	Purchase long lived products	RepairDuplexingSharingReduce unwanted mail	Purchasing: products in bulk, concentrates Reusable bags					
Reuse			·					
By design	Modular design	Envelopes	Reusable pallets Returnable secondary packaging					
Secondary	Borrow or rent for temporary use Give to charity Buy or sell at garage sales	Clothing Waste paper scratch pads	Loosefill Grocery sacks Dairy containers Glass and plastic jars					
Reduce/Eliminate Toxins								
	Eliminate PCBs	Soy ink, waterbased Waterbased solvents Reduce mercury	Replace lead foil on wine bottles					
Reduce Organics								
Food scraps				Backyard composting Vermi-composting				
Yard trimmings				Backyard composting Grasscycling				

Table 25

NUMBER AND POPULATION SERVED BY
CURBSIDE RECYCLABLES COLLECTION PROGRAMS, 2010

	Number of	Population*	Population S	opulation Served	
Region	Programs	(in thousands)	(in thousands)	Percent**	
NORTHEAST	3,619	55,417	47,160	85%	
SOUTH	1,157	27,127	17,870	66%	
MIDWEST	3,286	37,844	20,720	55%	
WEST	1,004	27,610	18,670	68%	
Total	9,066	147,998	104,420	71%	
Total U.S. Population		309,051			

^{*} Population in states reporting population served data.

Sources:

U.S. Census Bureau, *BioCycle* preliminary State of Garbage data received August 2010, *BioCycle* The State of Garbage in America. April 2006, and data from the following websites Connecticut Department of Environmental Protection, Delaware Solid Waste Management Authority, Georgia Department of Community Affairs, Maine State Planning Office, North Dakota Department of Health Division of Waste Management, Oregon Department of Environmental Quality, and Pennsylvania Department of Environmental Protection.

^{**} Percent of population served by curbside programs was calculated using population of states reporting data.

Table 26
MATERIAL RECOVERY FACILITIES (MRF), 2010

Number	Estimated Throughput (tpd)
153	27,186
195	24,754
153	23,118
132	23,391
633	98,449
	153 195 153 132

Source: Governmental Advisory Associates, Inc.

Table 27
MUNICIPAL WASTE-TO-ENERGY PROJECTS, 2010

Region	Number Operational	Design Capacity (tpd)
NORTHEAST	40	46,704
SOUTH	22	31,896
MIDWEST	16	11,393
WEST	8	6,171
U.S. Total*	86	96,164

^{*} Projects on hold or inactive were not included.

WTE includes mass burn, modular, and refuse-derived fuel combustion facilities.

Source: "The 2010 ERC Directory of Waste-to-Energy Plants."

Energy Recovery Council (ERC). December 2010.

Table 28
LANDFILL FACILITIES, 2010

	Number of Landfills
Region	
NORTHEAST	128
SOUTH	668
MIDWEST	394
WEST	718
U.S. Total	1,908

Source: BioCycle October 2010.

Table 29 GENERATION, MATERIALS RECOVERY, COMPOSTING, COMBUSTION, AND DISCARDS OF MUNICIPAL SOLID WASTE, 1960 TO 2010 (In thousands of tons and percent of total generation)

Recovery for recycling Recovery Section											
Recovery for recycling Series Ser		1000	4070	1000							
Recovery for recycling Recovery for composting		1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Recovery for compositing* Neg. Neg. Neg. 4.200 16.450 20.550 21.710 22.100 20.750 20.175 70.41 Materials Recovery 5.610 8.020 14.520 33.240 69.460 79.860 84.810 83.820 82.280 85.14	Generation	88,120	121,060	151,640	208,270	242,540	252,660	255,380	251,360	243,650	249,860
Total Materials Recovery 5,610 8,020 14,520 33,240 69,460 79,850 84,810 83,820 82,280 85,140 Discards after recovery 82,510 113,040 137,120 175,030 173,080 172,810 170,570 167,540 161,370 164,72 Combustion with energy recovery*** 0 400 2,700 29,700 33,730 31,620 31,970 31,550 29,010 29,262 Discards to landfill, other disposal† 82,510 112,640 134,420 145,330 139,350 141,190 138,600 135,990 132,360 135,46 Founds per Person per Day Founds per Person per Day 13,00 3.25 3.66 4.5	Recovery for recycling	5,610	8,020	14,520	29,040	53,010	59,300	63,100	61,720	61,530	64,970
Discards after recovery 82,510 113,040 137,120 175,030 173,080 172,810 170,570 167,540 161,370 164,72 Combustion with energy recovery** 0	Recovery for composting*	Neg.	Neg.	Neg.	4,200	16,450	20,550	21,710		20,750	20,170
Combustion with energy recovery* 0 400 2,700 29,700 33,730 31,620 31,970 31,550 29,010 29,260 20,200 20	Total Materials Recovery	5,610	8,020	14,520	33,240	69,460	79,850	84,810	83,820	82,280	85,140
Discards to landfill, other disposal† Section Sect	Discards after recovery	82,510	113,040	137,120	175,030	173,080	172,810	170,570	167,540	161,370	164,720
Discards to landfill, other disposal† 82,510 112,640 134,420 145,330 139,350 141,190 138,600 135,990 132,360 135,4		0	400	2 700	20 700	22 720	31 620	21 070	21 550	20.010	20.260
other disposal† 82,510 112,640 134,420 145,330 139,350 141,190 138,600 135,990 132,360 135,460 Pounds per Person per Day 1960 1970 1980 1990 2000 2005 2007 2008 2009 201 Generation 2.68 3.25 3.66 4.57 4.72 4.67 4.64 4.53 4.35 4.46 Recovery for recycling 0.17 0.22 0.35 0.64 1.03 1.10 1.15 1.11 1.10 1.1 Recovery for composting* Neg. Neg. 0.09 0.32 0.38 0.39 0.40 0.37 0.5 Total Materials Recovery 0.17 0.22 0.35 0.73 1.35 1.48 1.54 1.51 1.17 1.15 Discards after recovery 2.51 3.03 3.31 3.84 3.37 3.19 3.10 3.02 2.88 2.5 Discards to landfill, other disposal†	,		400	2,700	29,700	33,730	31,020	31,970	31,000	29,010	29,200
Pounds per Person per Day 1960 1970 1980 1990 2000 2005 2007 2008 2009 2010 2006 2007 2008 2009 2010 2006 2007 2008 2009 2010 2007 2008 2009 2010 2007 2008 2009 2010 2007 2008 2009 2010 2007 2008 2009 2010 2007 2010	,	92 510	112 640	134 420	145 220	130 350	1/1 100	139 600	135 000	132 360	125.460
Separation 1960 1970 1980 1990 2000 2005 2007 2008 2009 2016 2007 2008 2009 2016 2	Other disposary	02,310	112,040			-		130,000	133,990	132,300	133,400
Ceneration 2.68 3.25 3.66 4.57 4.72 4.67 4.64 4.53 4.35 4.46			4070								
Recovery for recycling 0.17 0.22 0.35 0.64 1.03 1.10 1.15 1.11 1.10 1.15 Recovery for composting* Neg. Neg. Neg. 0.09 0.32 0.38 0.39 0.40 0.37 0.3 Total Materials Recovery 0.17 0.22 0.35 0.73 1.35 1.48 1.54 1.51 1.47 1.5 Discards after recovery 2.51 3.03 3.31 3.84 3.37 3.19 3.10 3.02 2.88 2.5 Combustion with energy recovery** 0.00 0.01 0.07 0.65 0.66 0.58 0.58 0.57 0.52 0.5 Discards to landfill, other disposal† 2.51 3.02 3.24 3.19 2.71 2.61 2.52 2.45 2.36 2.4 Population (thousands) 179,979 203,984 227,255 249,907 281,422 296,410 301,621 304,060 307,007 309,05 Generation 100.0% 1		1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Recovery for composting	Generation	2.68	3.25	3.66	4.57	4.72	4.67	4.64	4.53	4.35	4.43
Total Materials Recovery 0.17 0.22 0.35 0.73 1.35 1.48 1.54 1.51 1.47 1.52 Discards after recovery 2.51 3.03 3.31 3.84 3.37 3.19 3.10 3.02 2.88 2.5 Combustion with energy recovery** 0.00 0.01 0.07 0.65 0.66 0.58 0.58 0.57 0.52 0.5 Discards to landfill, other disposal† 2.51 3.02 3.24 3.19 2.71 2.61 2.52 2.45 2.36 2.4 Population (thousands) 179,979 203,984 227,255 249,907 281,422 296,410 301,621 304,060 307,007 309,05 Generation 1960 1970 1980 1990 2005 2007 2008 2009 201 Generation 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 1	Recovery for recycling	0.17	0.22	0.35	0.64	1.03	1.10	1.15	1.11	1.10	1.15
Discards after recovery 2.51 3.03 3.31 3.84 3.37 3.19 3.10 3.02 2.88 2.50 Combustion with energy recovery** 0.00 0.01 0.07 0.65 0.66 0.58 0.58 0.57 0.52 0.50 0.50 0.50 0.50 0.50 0.50 0.50	Recovery for composting*	Neg.	Neg.	Neg.	0.09		0.38				0.36
Combustion with energy recovery**	Total Materials Recovery	0.17	0.22	0.35	0.73	1.35	1.48	1.54	1.51	1.47	1.51
energy recovery** 0.00 0.01 0.07 0.65 0.66 0.58 0.58 0.57 0.52 0.58 Discards to landfill, other disposal† 2.51 3.02 3.24 3.19 2.71 2.61 2.52 2.45 2.36 2.4 Percent of Total Generation 1960 1970 1980 1990 2000 2005 2007 2008 2009 201 Generation 100.0% 100.	Discards after recovery	2.51	3.03	3.31	3.84	3.37	3.19	3.10	3.02	2.88	2.92
Discards to landfill, other disposal† 2.51 3.02 3.24 3.19 2.71 2.61 2.52 2.45 2.36 2.46 Population (thousands) 179,979 203,984 227,255 249,907 281,422 296,410 301,621 304,060 307,007 309,05											
other disposal† 2.51 3.02 3.24 3.19 2.71 2.61 2.52 2.45 2.36 2.45 Population (thousands) 179,979 203,984 227,255 249,907 281,422 296,410 301,621 304,060 307,007 309,050 Percent of Total Generation 1960 1970 1980 1990 2000 2005 2007 2008 2009 201 Generation 100.0% 21.9% 23.5% 24.7% 24.5% 25.3% 26.0% 26.0% 28.6% 31.6% 33.2%	energy recovery**	0.00	0.01	0.07	0.65	0.66	0.58	0.58	0.57	0.52	0.52
Population (thousands) 179,979 203,984 227,255 249,907 281,422 296,410 301,621 304,060 307,007 309,057	•										
Percent of Total Generation 1960 1970 1980 1990 2000 2005 2007 2008 2009 2016 2017 2018 2019 2017 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019 2018 2019	other disposal†	2.51	3.02	3.24	3.19	2.71	2.61	2.52	2.45	2.36	2.40
Total Materials Recovery 93.6% 93.4% 90.4% 84.0% 71.4% 68.4% 66.8% 66.7% 66.2% 65.9% 6	Population (thousands)	179,979	203,984	227,255	249,907	281,422	296,410	301,621	304,060	307,007	309,051
Generation 100.0% 24.7% 24.5% 24.5% 25.3% 26.0% 26.0% 6.7% 8.1% 8.5% 8.8% 8.5% 8.1% Total Materials Recovery 6.4% 6.6% 9.6% 16.0% 28.6% 31.6% 33.2% 33.3% 33.8% 34.1% Discards after recovery 93.6% 93.4% 90.4% 84.0% 71.4% 68.4% 66.8% 66.7% 66.2% 65.9% Combustion with energy recovery** 0.0% 0.3% 1.8% 14.2% 13.9%				I	Percent of To	otal Generat	ion				
Recovery for recycling 6.4% 6.6% 9.6% 14.0% 21.9% 23.5% 24.7% 24.5% 25.3% 26.0° Recovery for composting* Neg. Neg. Neg. 2.0% 6.7% 8.1% 8.5% 8.8% 8.5% 8.1 Total Materials Recovery 6.4% 6.6% 9.6% 16.0% 28.6% 31.6% 33.2% 33.3% 33.8% 34.1% Discards after recovery 93.6% 93.4% 90.4% 84.0% 71.4% 68.4% 66.8% 66.7% 66.2% 65.9% Combustion with energy recovery** 0.0% 0.3% 1.8% 14.2% 13.9% 12.5% 12.5% 12.6% 11.9% 11.7% Discards to landfill,		1960	1970	1980	1990	2000	2005	2007	2008	2009	2010
Recovery for composting* Neg. Neg. Neg. 2.0% 6.7% 8.1% 8.5% 8.8% 8.5% 8.1% Total Materials Recovery 6.4% 6.6% 9.6% 16.0% 28.6% 31.6% 33.2% 33.3% 33.8% 34.1% Discards after recovery 93.6% 93.4% 90.4% 84.0% 71.4% 68.4% 66.8% 66.7% 66.2% 65.9% Combustion with energy recovery** 0.0% 0.3% 1.8% 14.2% 13.9% 12.5% 12.5% 12.6% 11.9% 11.7% Discards to landfill, 10.0% 1.0% 1.0% 14.2% 13.9% 12.5% 12.5% 12.6% 11.9% 11.7%	Generation	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Materials Recovery 6.4% 6.6% 9.6% 16.0% 28.6% 31.6% 33.2% 33.3% 33.8% 34.1° Discards after recovery 93.6% 93.4% 90.4% 84.0% 71.4% 68.4% 66.8% 66.7% 66.2% 65.9° Combustion with energy recovery** 0.0% 0.3% 1.8% 14.2% 13.9% 12.5% 12.5% 12.6% 11.9% 11.7° Discards to landfill,	Recovery for recycling	6.4%	6.6%	9.6%	14.0%	21.9%	23.5%	24.7%	24.5%	25.3%	26.0%
Discards after recovery 93.6% 93.4% 90.4% 84.0% 71.4% 68.4% 66.8% 66.7% 66.2% 65.9% Combustion with energy recovery** 0.0% 0.3% 1.8% 14.2% 13.9% 12.5% 12.5% 12.6% 11.9% 11.7% Discards to landfill,	Recovery for composting*	Neg.	Neg.	Neg.	2.0%	6.7%	8.1%	8.5%	8.8%	8.5%	8.1%
Combustion with energy recovery**	Total Materials Recovery	6.4%	6.6%	9.6%	16.0%	28.6%	31.6%	33.2%	33.3%	33.8%	34.1%
energy recovery** 0.0% 0.3% 1.8% 14.2% 13.9% 12.5% 12.5% 12.6% 11.9% 11.7% Discards to landfill,	Discards after recovery	93.6%	93.4%	90.4%	84.0%	71.4%	68.4%	66.8%	66.7%	66.2%	65.9%
Discards to landfill,	Combustion with										
, , , , , , , , , , , , , , , , , , ,	energy recovery**	0.0%	0.3%	1.8%	14.2%	13.9%	12.5%	12.5%	12.6%	11.9%	11.7%
	Discards to landfill, other disposal†	93.6%	93.1%	88.6%	69.8%	57.5%	55.9%	54.3%	54.1%	54.3%	54.2%

Composting of yard trimmings, food scraps and other MSW organic material. Does not include backyard composting.

^{**} Includes combustion 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). 2010 includes 25,930 MSW, 520 wood, and 2,810 tires (1,000 tons)

[†] Discards after recovery minus combustion with energy recovery. Discards include combustion without energy recovery. Details may not add to totals due to rounding.

Figure 1 - A. Municipal solid waste in the universe of Subtitle D wastes

Subtitle D Wastes

The Subtitle D Waste included in this report is Municipal Solid Waste, 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 scraps and yard trimmings.

Subtitle D Wastes not included in this report are:

Municipal sludges Agricultural wastes

Industrial nonhazardous wastes Oil and gas wastes

Construction and demolition debris Mining wastes

Figure 1- B. Definition of terms

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

The term *generation* as used in this report refers to the weight of materials and products as they enter the waste management system from residential, commercial, institutional, and industrial sources and before materials recovery or combustion takes place. Preconsumer (industrial) scrap is not included in the generation estimates. Source reduction activities (e.g., backyard composting of yard trimmings) take place *ahead of* generation.

Source reduction activities reduce the amount or toxicity 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, reusable plastic food storage containers, or refurbished wood pallets is considered to be source reduction, not recycling.

Recovery of materials as estimated in this report includes products and yard trimmings removed from the waste stream for the purpose of recycling (including composting). For recovered products, recovery equals reported purchases of postconsumer recovered material (e.g., glass cullet, old newspapers) plus net exports (if any) of the material. Thus, recovery of old corrugated containers (OCC) is the sum of OCC purchases by paper mills plus net exports of OCC. If recovery as reported by a data source includes converting or fabrication (preconsumer) scrap, the preconsumer scrap is *not* counted towards the recovery estimates in this report. Imported secondary materials are also not counted in recovery estimates in this report. For some materials, additional uses, such as glass used for highway construction or newspapers used to make insulation, are added into the recovery totals.

Combustion of MSW with energy recovery, often called "waste-to-energy," is estimated in Chapter 3 of this report. Combustion of separated materials—wood and rubber from tires—is included in the estimates of combustion with energy recovery in this report.

Discards include MSW remaining after recovery for recycling (including composting). These discards presumably would be combusted without energy recovery or landfilled, although some MSW is littered, stored or disposed onsite, or burned onsite, particularly in rural areas. No good estimates for these other disposal practices are available, but the total amounts of MSW involved are presumed to be small.

For the analysis of municipal solid waste, 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 3 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 3 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.

Figure 2. Paper and paperboard products generated in MSW, 2010

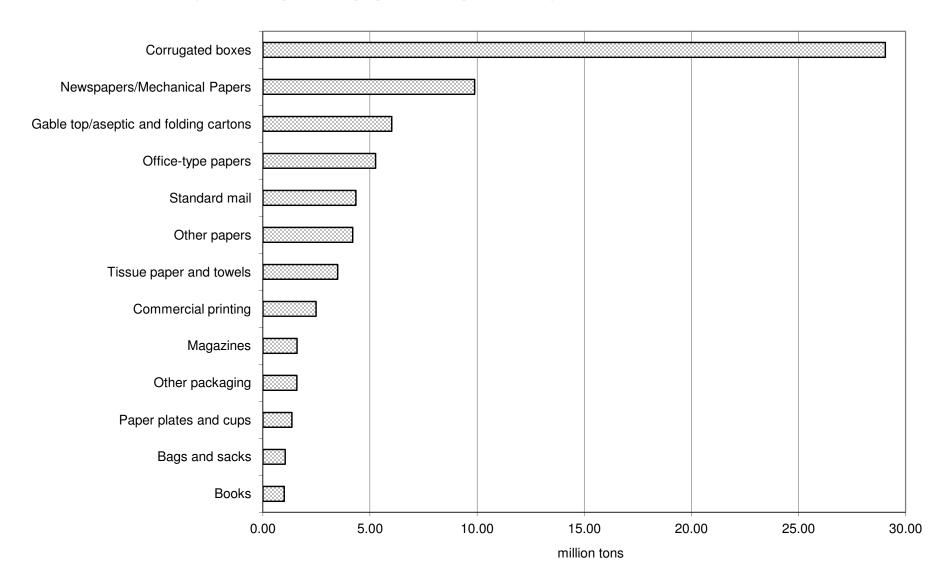


Figure 3. Paper and paperboard generation and recovery, 1960 to 2010

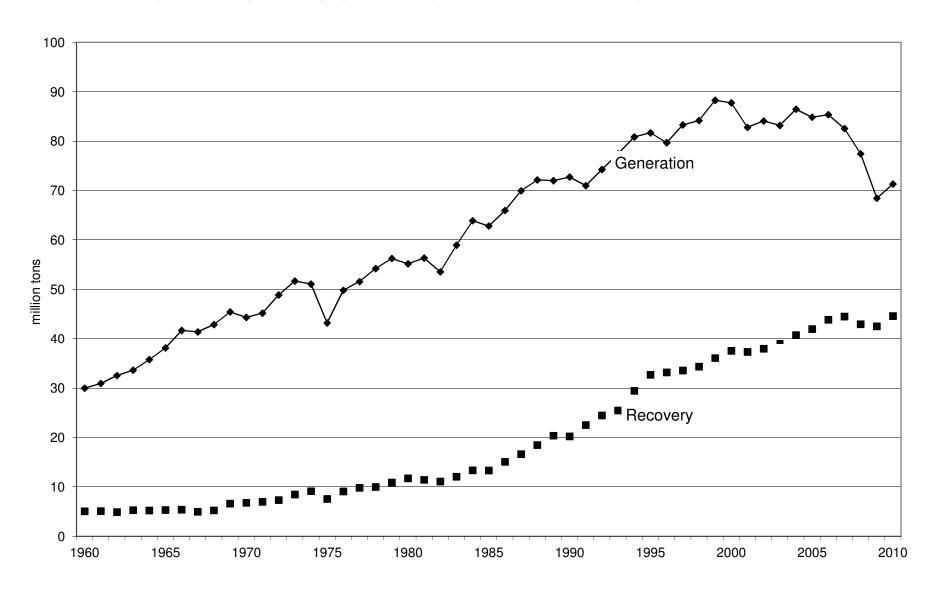


Figure 4. Glass products generated in MSW, 2010

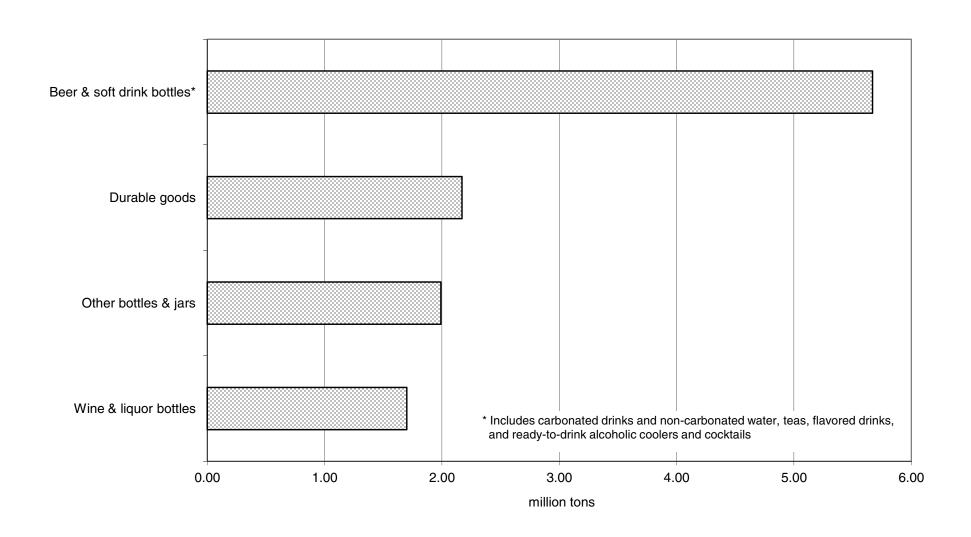


Figure 5. Glass generation and recovery, 1960 to 2010

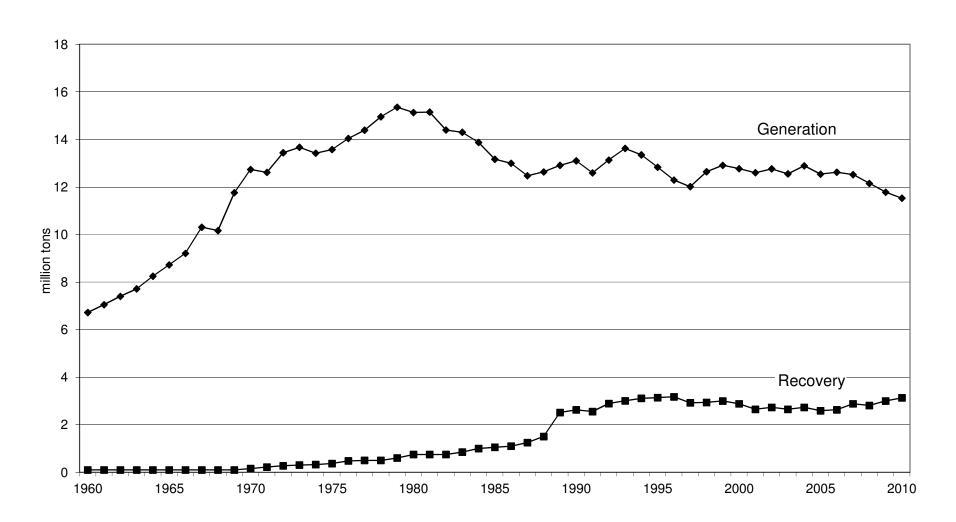


Figure 6. Metal products generated in MSW, 2010

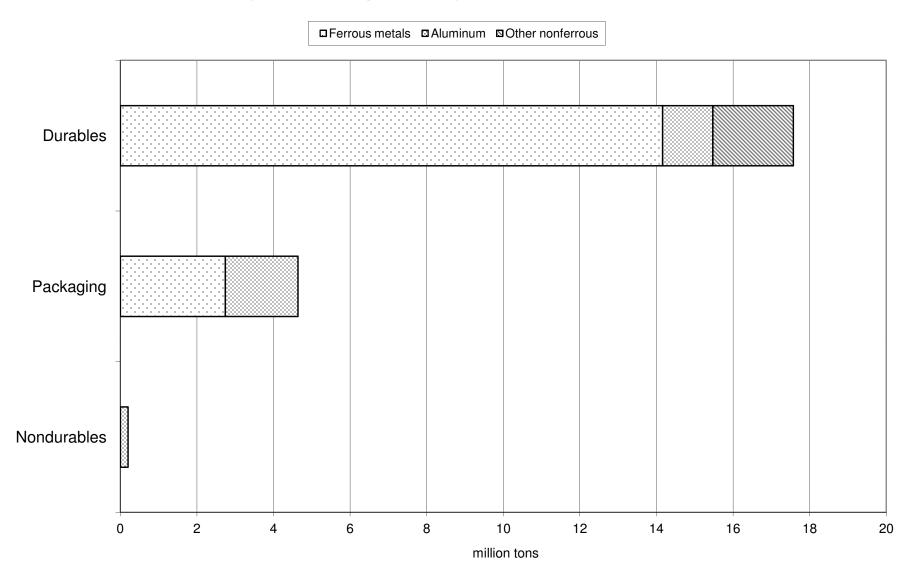


Figure 7. Metals generation and recovery, 1960 to 2010

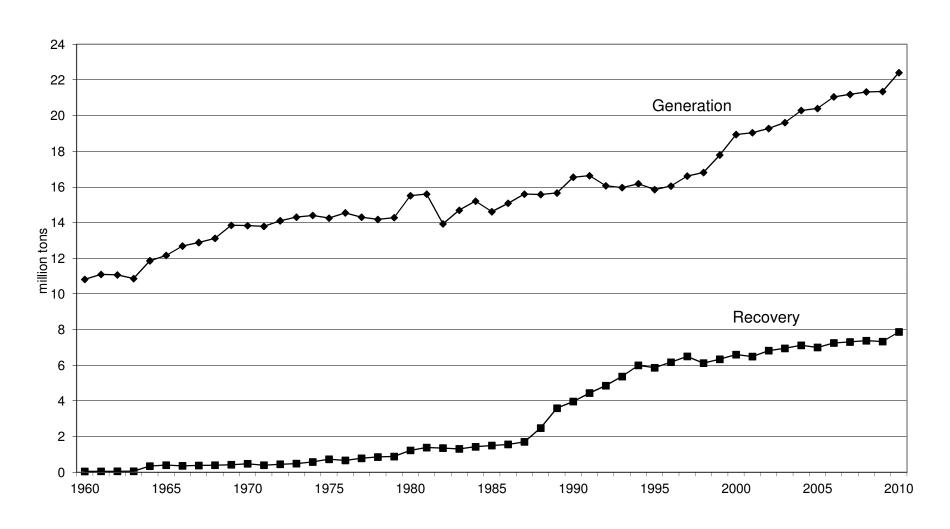


Figure 8. Plastics products generated in MSW, 2010

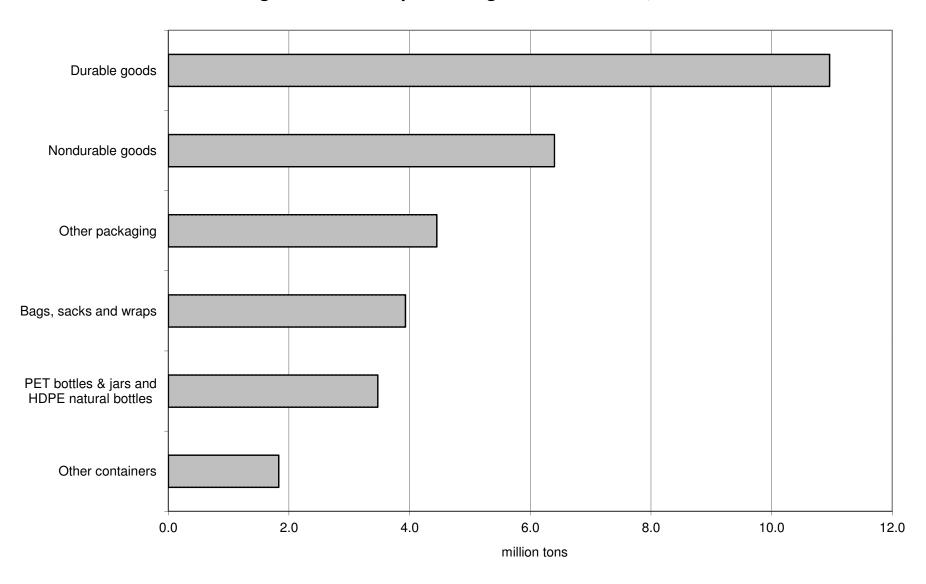


Figure 9. Plastics generation and recovery, 1960 to 2010

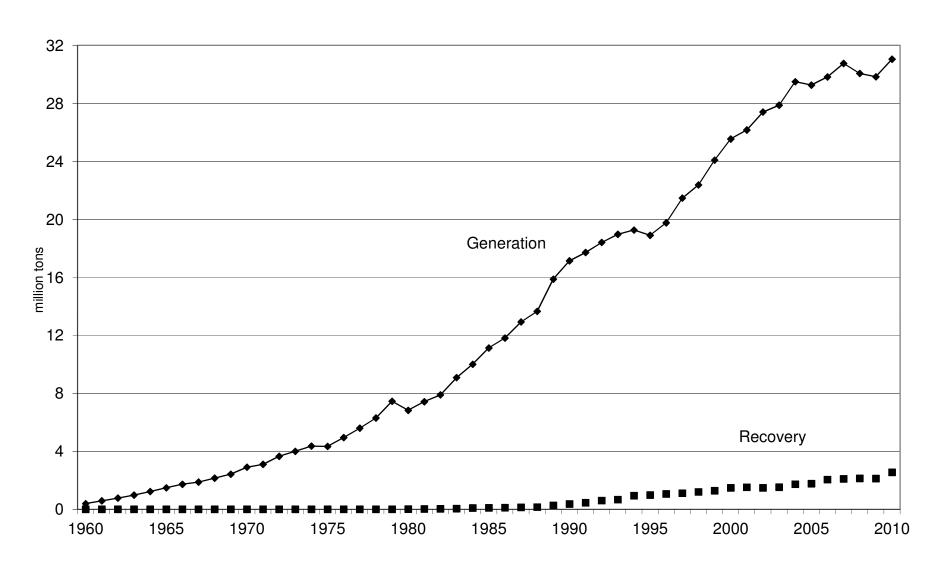


Figure 10. Generation of materials in MSW, 1960 to 2010

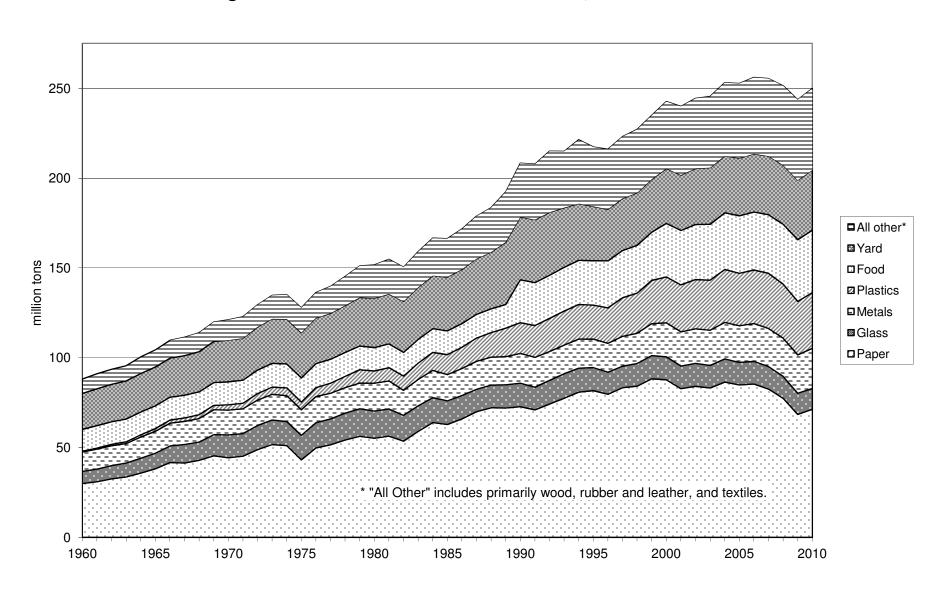


Figure 11. Recovery and discards of materials in MSW, 1960 to 2010

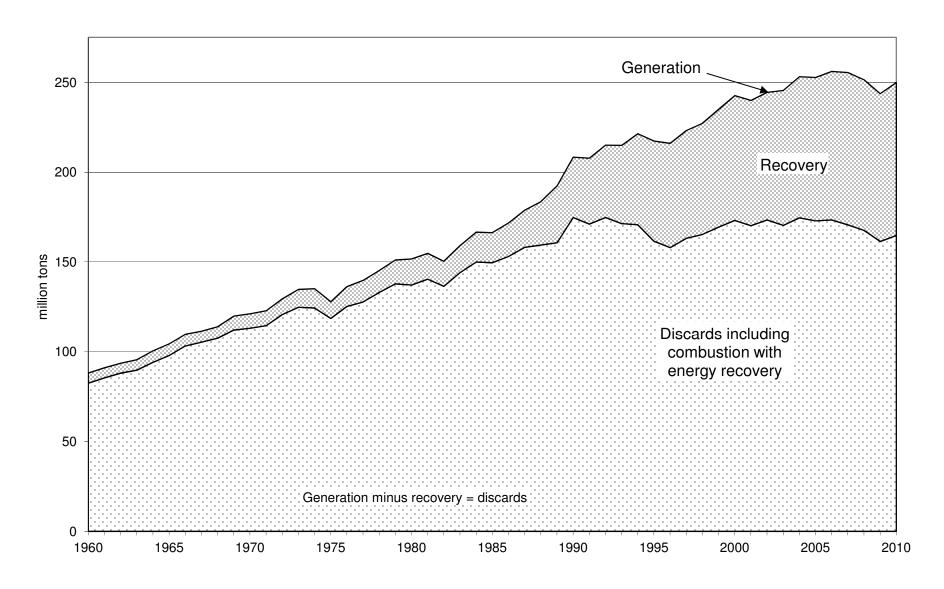
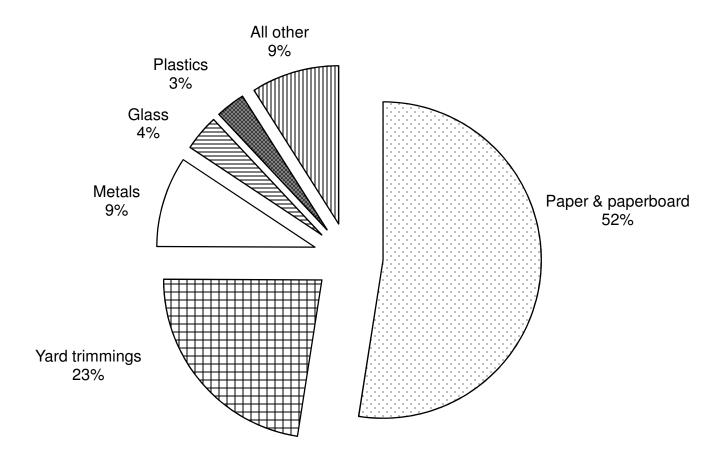
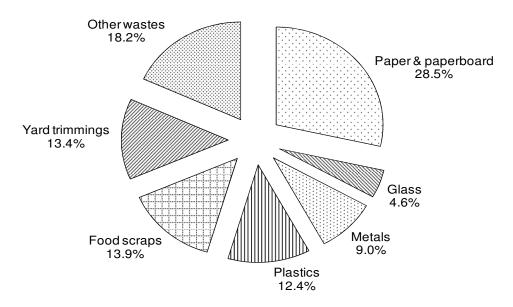


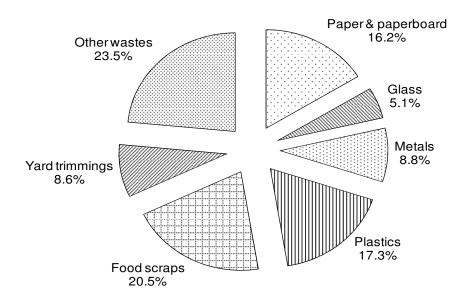
Figure 12. Materials recovery,* 2010



^{*} In percent by weight of total recovery

Figure 13. Materials generated and discarded* in municipal solid waste, 2010 (In percent of total generation and discards)





Discards

^{*}Discards in this figure include combustion with energy recovery.

Figure 14. Generation of products in MSW, 1960 to 2010

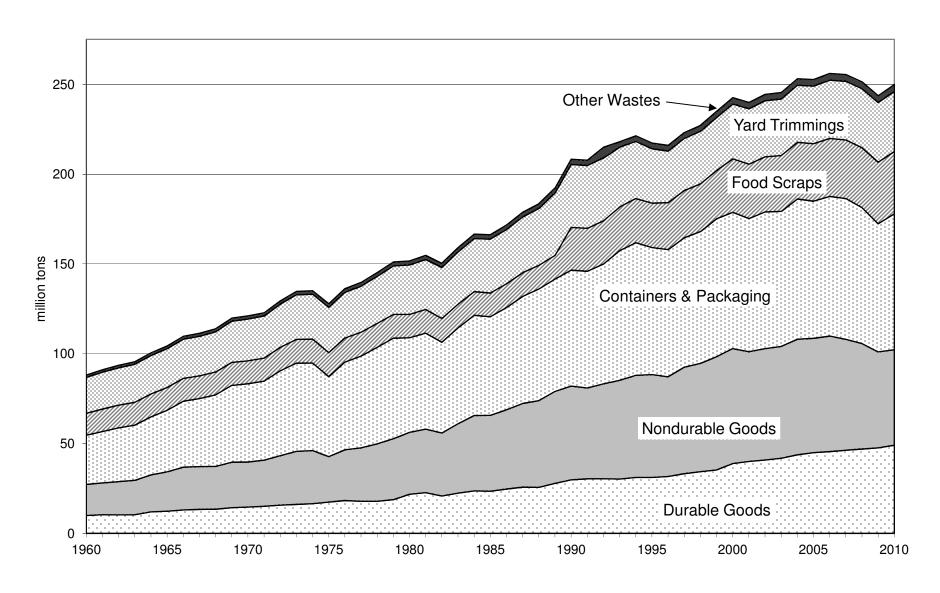
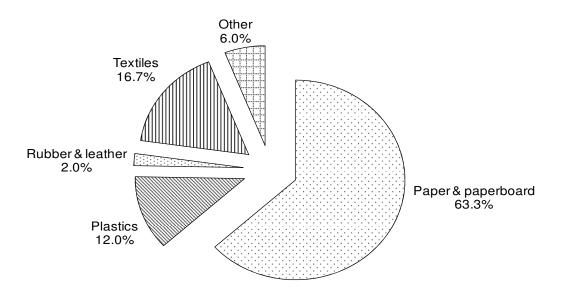
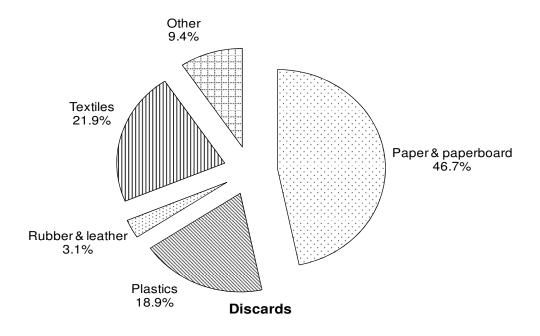


Figure 15. Nondurable goods generated and discarded* in municipal solid waste, 2010 (In percent of total generation and discards)

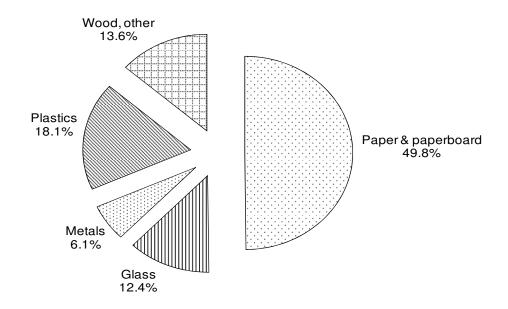


Generation

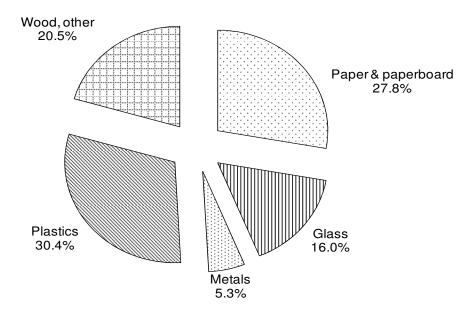


^{*}Discards in this figure include combustion with energy recovery.

Figure 16. Containers and packaging generated and discarded* in municipal solid waste, 2010 (In percent of total generation and discards)



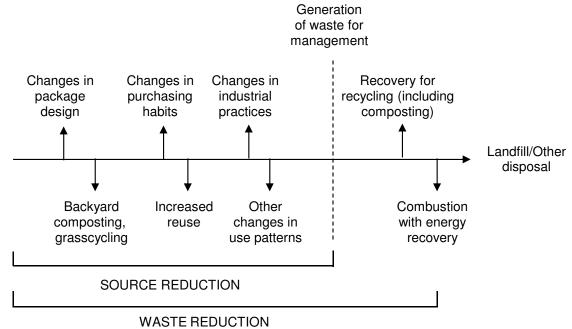
Generation



Discards

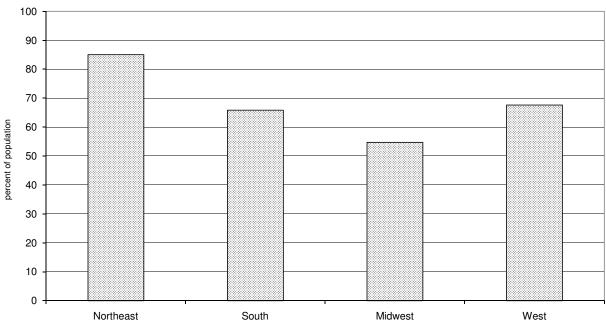
^{*}Discards in this figure include combustion with energy recovery.

Figure 17. Diagram of solid waste management



Source: Franklin Associates, A Division of ERG

Figure 18. Population served by curbside recycling, 2010



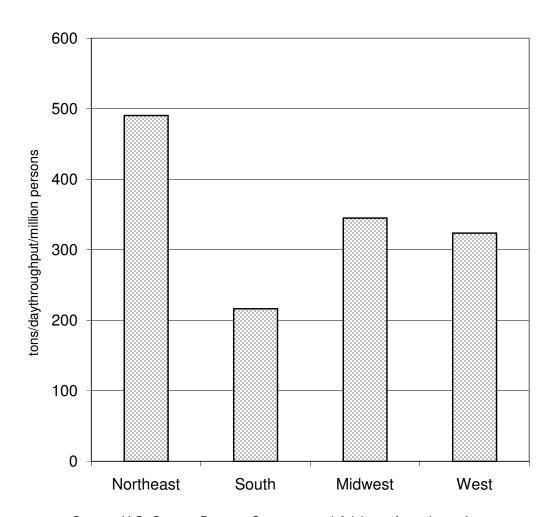
U.S. Census Bureau, BioCycle preliminary State of Garbage data received August 2010, BioCycle The State of Garbage in America. April 2006, and data from the following websites Connecticut Department of Environmental Protection, Delaware Solid Waste Management Authority, Georgia Department of Community Affairs, Maine State Planning Office, North Dakota Department of Health Division of Waste Management, Oregon Department of Environmental Quality, and Pennsylvania Department of Environmental Protection.



Figure 19. States With Bottle Deposit Rules

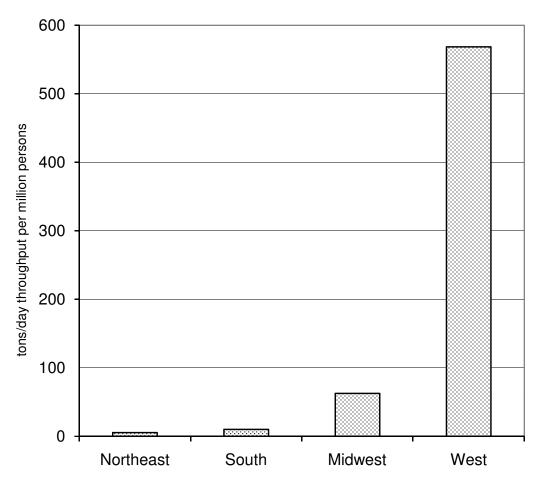
Source: Container Recycling Institute, 2011.

Figure 20. Estimated MRF throughput, 2010 (Tons per day per million persons)



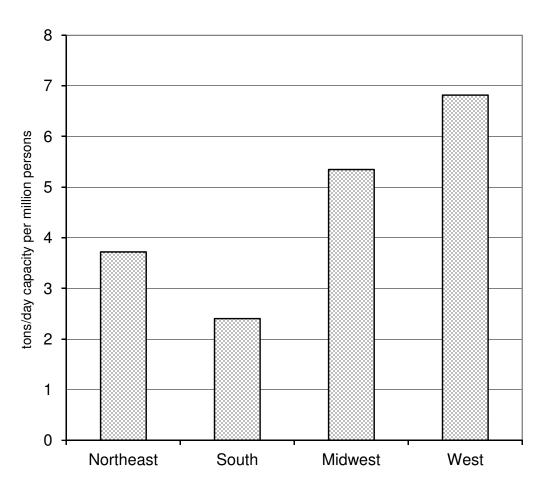
Source: U.S. Census Bureau, Governmental Advisory Associates, Inc.

Figure 21. Mixed waste processing estimated throughput 2010 (tons per day per million persons)



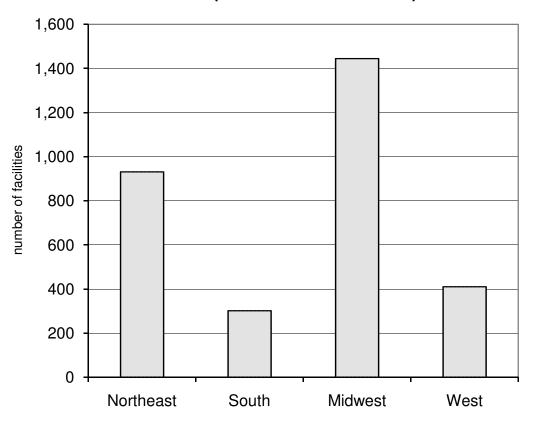
Source: U.S. Census Bureau; Governmental Advisory Associates, Inc.

Figure 22. MSW composting capacity, 2010 (Capacity in tons per day per million persons)



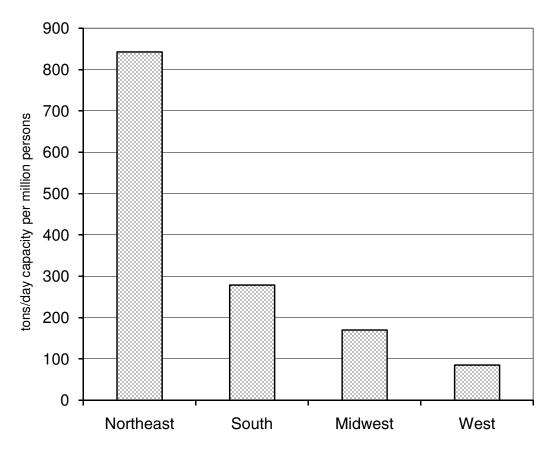
Source: U.S. Census Bureau; *BioCycle*, November 2010; Medina County, Ohio, Solid Waste District 2010 Annual Report; and West Wendover, Nevada, City website.

Figure 23. Yard trimmings composting facilities, 2010 (In number of facilities)



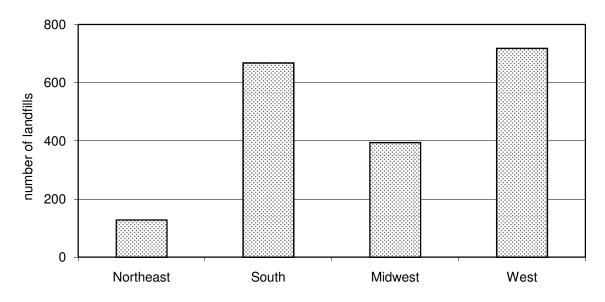
Source: Internet search: includes data for 47 states and the District of Columbia.

Figure 24. Municipal waste-to-energy capacity, 2010 (Capacity in tons per million persons)



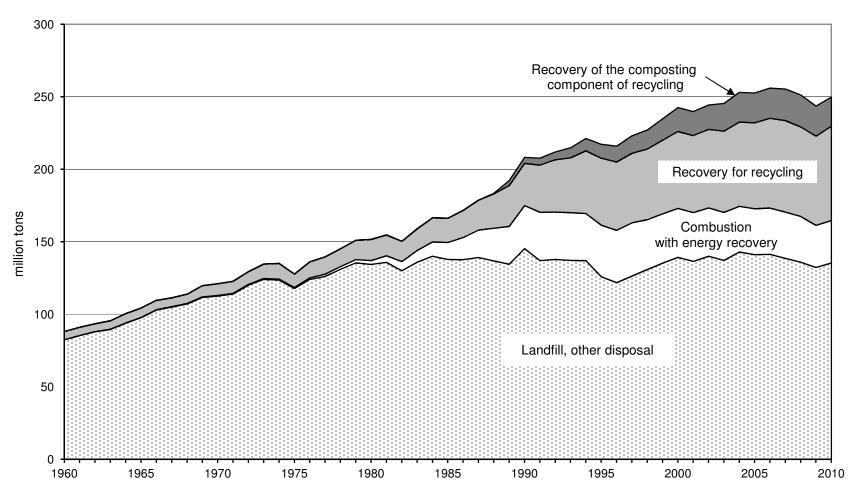
Source: U.S. Census Bureau, Energy Recovery Council (ERC). December 2010.

Figure 25. Number of landfills in the U.S., 2010



Source: BioCycle October 2010.

Figure 26. Municipal solid waste management, 1960 to 2010



Source: Franklin Associates, A Division of ERG