

Table 1

MATERIALS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(In thousands of tons and percent of total generation)

	Thousands of Tons							
Materials	1960	1970	1980	1990	1995	1996	1997	1998
Paper and Paperboard	29,990	44,310	55,160	72,730	81,670	79,680	83,290	84,130
Glass	6,720	12,740	15,130	13,100	12,830	12,290	12,010	12,450
Metals								
Ferrous	10,300	12,360	12,620	12,640	11,640	11,830	12,330	12,380
Aluminum	340	800	1,730	2,810	2,960	2,950	3,010	3,080
Other Nonferrous	180	670	1,160	1,100	1,260	1,260	1,270	1,380
<i>Total Metals</i>	<i>10,820</i>	<i>13,830</i>	<i>15,510</i>	<i>16,550</i>	<i>15,860</i>	<i>16,040</i>	<i>16,610</i>	<i>16,840</i>
Plastics	390	2,900	6,830	17,130	18,900	19,760	21,470	22,370
Rubber and Leather	1,840	2,970	4,200	5,790	6,030	6,200	6,590	6,860
Textiles	1,760	2,040	2,530	5,810	7,400	7,720	8,240	8,600
Wood	3,030	3,720	7,010	12,210	10,440	10,840	11,570	11,930
Other **	70	770	2,520	3,190	3,650	3,690	3,760	3,900
Total Materials in Products	54,620	83,280	108,890	146,510	156,780	156,220	163,540	167,080
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,740	21,850	21,910	22,130
Yard Trimmings	20,000	23,200	27,500	35,000	29,690	27,920	27,730	27,730
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	58,700	54,580	52,970	52,890	53,150
Total MSW Generated - Weight	88,120	121,060	151,640	205,210	211,360	209,190	216,430	220,230
	Percent of Total Generation							
Materials	1960	1970	1980	1990	1995	1996	1997	1998
Paper and Paperboard	34.0%	36.6%	36.4%	35.4%	38.6%	38.1%	38.5%	38.2%
Glass	7.6%	10.5%	10.0%	6.4%	6.1%	5.9%	5.5%	5.7%
Metals								
Ferrous	11.7%	10.2%	8.3%	6.2%	5.5%	5.7%	5.7%	5.6%
Aluminum	0.4%	0.7%	1.1%	1.4%	1.4%	1.4%	1.4%	1.4%
Other Nonferrous	0.2%	0.6%	0.8%	0.5%	0.6%	0.6%	0.6%	0.6%
<i>Total Metals</i>	<i>12.3%</i>	<i>11.4%</i>	<i>10.2%</i>	<i>8.1%</i>	<i>7.5%</i>	<i>7.7%</i>	<i>7.7%</i>	<i>7.6%</i>
Plastics	0.4%	2.4%	4.5%	8.3%	8.9%	9.4%	9.9%	10.2%
Rubber and Leather	2.1%	2.5%	2.8%	2.8%	2.9%	3.0%	3.0%	3.1%
Textiles	2.0%	1.7%	1.7%	2.8%	3.5%	3.7%	3.8%	3.9%
Wood	3.4%	3.1%	4.6%	6.0%	4.9%	5.2%	5.3%	5.4%
Other **	0.1%	0.6%	1.7%	1.6%	1.7%	1.8%	1.7%	1.8%
Total Materials in Products	62.0%	68.8%	71.8%	71.4%	74.2%	74.7%	75.6%	75.9%
Other Wastes								
Food Wastes	13.8%	10.6%	8.6%	10.1%	10.3%	10.4%	10.1%	10.0%
Yard Trimmings	22.7%	19.2%	18.1%	17.1%	14.0%	13.3%	12.8%	12.6%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.5%	1.5%	1.5%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	28.6%	25.8%	25.3%	24.4%	24.1%
Total MSW Generated - %	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 1998
(In thousands of tons and percent of generation of each material)

	Thousands of Tons							
Materials	1960	1970	1980	1990	1995	1996	1997	1998
Paper and Paperboard	5,080	6,770	11,740	20,230	32,700	33,180	33,580	34,960
Glass	100	160	750	2,630	3,140	3,170	2,920	3,180
Metals								
Ferrous	50	150	370	2,230	4,130	4,400	4,730	4,340
Aluminum	Neg.	10	310	1,010	930	930	950	860
Other Nonferrous	Neg.	320	540	730	810	840	830	930
<i>Total Metals</i>	<i>50</i>	<i>480</i>	<i>1,220</i>	<i>3,970</i>	<i>5,870</i>	<i>6,170</i>	<i>6,510</i>	<i>6,130</i>
Plastics	Neg.	Neg.	20	370	990	1,060	1,110	1,210
Rubber and Leather	330	250	130	370	540	590	770	860
Textiles	50	60	160	660	900	950	1,060	1,110
Wood	Neg.	Neg.	Neg.	130	450	490	590	720
Other **	Neg.	300	500	680	750	780	760	860
Total Materials in Products	5,610	8,020	14,520	29,040	45,340	46,390	47,300	49,030
Other Wastes								
Food, Other^	Neg.	Neg.	Neg.	Neg.	570	520	580	580
Yard Trimmings	Neg.	Neg.	Neg.	4,200	9,000	10,390	11,490	12,560
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	9,570	10,910	12,070	13,140
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	54,910	57,300	59,370	62,170
	Percent of Generation of Each Material							
Materials	1960	1970	1980	1990	1995	1996	1997	1998
Paper and Paperboard	16.9%	15.3%	21.3%	27.8%	40.0%	41.6%	40.3%	41.6%
Glass	1.5%	1.3%	5.0%	20.1%	24.5%	25.8%	24.3%	25.5%
Metals								
Ferrous	0.5%	1.2%	2.9%	17.6%	35.5%	37.2%	38.4%	35.1%
Aluminum	Neg.	1.3%	17.9%	35.9%	31.4%	31.5%	31.6%	27.9%
Other Nonferrous	Neg.	47.8%	46.6%	66.4%	64.3%	66.7%	65.4%	67.4%
<i>Total Metals</i>	<i>0.5%</i>	<i>3.5%</i>	<i>7.9%</i>	<i>24.0%</i>	<i>37.0%</i>	<i>38.5%</i>	<i>39.2%</i>	<i>36.4%</i>
Plastics	Neg.	Neg.	0.3%	2.2%	5.2%	5.4%	5.2%	5.4%
Rubber and Leather	17.9%	8.4%	3.1%	6.4%	9.0%	9.5%	11.7%	12.5%
Textiles	2.8%	2.9%	6.3%	11.4%	12.2%	12.3%	12.9%	12.9%
Wood	Neg.	Neg.	Neg.	1.1%	4.3%	4.5%	5.1%	6.0%
Other **	Neg.	39.0%	19.8%	21.3%	20.5%	21.1%	20.2%	22.1%
Total Materials in Products	10.3%	9.6%	13.3%	19.8%	28.9%	29.7%	28.9%	29.3%
Other Wastes								
Food, Other^	Neg.	Neg.	Neg.	Neg.	2.6%	2.4%	2.6%	2.6%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	30.3%	37.2%	41.4%	45.3%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	7.2%	17.5%	20.6%	22.8%	24.7%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.2%	26.0%	27.4%	27.4%	28.2%

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

** Recovery of electrolytes in batteries; probably not recycled.

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

^ Includes recovery of paper for composting.

Details may not add to totals due to rounding.

Table 3

MATERIALS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(In thousands of tons and percent of total discards)

	Thousands of Tons							
Materials	1960	1970	1980	1990	1995	1996	1997	1998
Paper and Paperboard	24,910	37,540	43,420	52,500	48,970	46,500	49,710	49,170
Glass	6,620	12,580	14,380	10,470	9,690	9,120	9,090	9,270
Metals								
Ferrous	10,250	12,210	12,250	10,410	7,510	7,430	7,600	8,040
Aluminum	340	790	1,420	1,800	2,030	2,020	2,060	2,220
Other Nonferrous	180	350	620	370	450	420	440	450
<i>Total Metals</i>	<i>10,770</i>	<i>13,350</i>	<i>14,290</i>	<i>12,580</i>	<i>9,990</i>	<i>9,870</i>	<i>10,100</i>	<i>10,710</i>
Plastics	390	2,900	6,810	16,760	17,910	18,700	20,360	21,160
Rubber and Leather	1,510	2,720	4,070	5,420	5,490	5,610	5,820	6,000
Textiles	1,710	1,980	2,370	5,150	6,500	6,770	7,180	7,490
Wood	3,030	3,720	7,010	12,080	9,990	10,350	10,980	11,210
Other **	70	470	2,020	2,510	2,900	2,910	3,000	3,040
<i>Total Materials in Products</i>	49,010	75,260	94,370	117,470	111,440	109,830	116,240	118,050
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,170	21,330	21,330	21,550
Yard Trimmings	20,000	23,200	27,500	30,800	20,690	17,530	16,240	15,170
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
<i>Total Other Wastes</i>	33,500	37,780	42,750	54,500	45,010	42,060	40,820	40,010
<i>Total MSW Discarded - Weight</i>	82,510	113,040	137,120	171,970	156,450	151,890	157,060	158,060
	Percent of Total Discards							
Materials	1960	1970	1980	1990	1995	1996	1997	1998
Paper and Paperboard	30.2%	33.2%	31.7%	30.5%	31.3%	30.6%	31.7%	31.1%
Glass	8.0%	11.1%	10.5%	6.1%	6.2%	6.0%	5.8%	5.9%
Metals								
Ferrous	12.4%	10.8%	8.9%	6.1%	4.8%	4.9%	4.8%	5.1%
Aluminum	0.4%	0.7%	1.0%	1.0%	1.3%	1.3%	1.3%	1.4%
Other Nonferrous	0.2%	0.3%	0.5%	0.2%	0.3%	0.3%	0.3%	0.3%
<i>Total Metals</i>	<i>13.1%</i>	<i>11.8%</i>	<i>10.4%</i>	<i>7.3%</i>	<i>6.4%</i>	<i>6.5%</i>	<i>6.4%</i>	<i>6.8%</i>
Plastics	0.5%	2.6%	5.0%	9.7%	11.4%	12.3%	13.0%	13.4%
Rubber and Leather	1.8%	2.4%	3.0%	3.2%	3.5%	3.7%	3.7%	3.8%
Textiles	2.1%	1.8%	1.7%	3.0%	4.2%	4.5%	4.6%	4.7%
Wood	3.7%	3.3%	5.1%	7.0%	6.4%	6.8%	7.0%	7.1%
Other **	0.1%	0.4%	1.5%	1.5%	1.9%	1.9%	1.9%	1.9%
<i>Total Materials in Products</i>	59.4%	66.6%	68.8%	68.3%	71.2%	72.3%	74.0%	74.7%
Other Wastes								
Food Wastes	14.8%	11.3%	9.5%	12.1%	13.5%	14.0%	13.6%	13.6%
Yard Trimmings	24.2%	20.5%	20.1%	17.9%	13.2%	11.5%	10.3%	9.6%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.1%	2.1%
<i>Total Other Wastes</i>	40.6%	33.4%	31.2%	31.7%	28.8%	27.7%	26.0%	25.3%
<i>Total MSW Discarded - %</i>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Discards after materials and compost recovery. 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 4

PAPER AND PAPERBOARD PRODUCTS IN MSW, 1998
(In thousands of tons and percent of generation)

Product Category	Generation (Thousands tons)	Recovery		Discards (Thousands tons)
		(Thousands tons)	(Percent of generation)	
Nondurable Goods				
Newspapers				
Newsprint	11,070	6,270	56.6%	4,800
Groundwood inserts	2,550	1,410	55.3%	1,140
<i>Total Newspapers</i>	13,620	7,680	56.4%	<u>5,940</u>
Books	1,140	160	14.0%	980
Magazines	2,260	470	20.8%	1,790
Office Papers	7,040	3,550	50.4%	3,490
Directories	740	100	13.5%	640
Standard (A) Mail*	5,200	980	18.8%	4,220
Other Commercial Printing	6,570	420	6.4%	6,150
Tissue Paper and Towels	3,100	Neg.	Neg.	3,100
Paper Plates and Cups	890	Neg.	Neg.	890
Other Nonpackaging Paper**	<u>4,460</u>	<u>Neg.</u>	Neg.	<u>4,460</u>
<i>Total Paper and Paperboard</i>				
<i>Nondurable Goods</i>	45,020	13,360	29.7%	31,660
Containers and Packaging				
Corrugated Boxes	29,760	20,920	70.3%	8,840
Milk Cartons	470	Neg.	Neg.	470
Folding Cartons	5,550	390	7.0%	5,160
Other Paperboard Packaging	230	Neg.	Neg.	230
Bags and Sacks	1,680	290	17.3%	1,390
Other Paper Packaging	<u>1,420</u>	<u>Neg.</u>	Neg.	<u>1,420</u>
<i>Total Paper and Paperboard</i>				
<i>Containers and Packaging</i>	39,110	21,600	55.2%	17,510
<i>Total Paper and Paperboard</i>	84,130	34,960	41.6%	49,170

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

** Includes tissue in disposable diapers, paper in games and novelties, cards, etc.

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

Details may not add to totals due to rounding.

Table 5
GLASS PRODUCTS IN MSW, 1998
(In thousands of tons and percent of generation)

Product Category	Generation (Thousand tons)	Recovery		Discards (Thousand tons)
		(Thousand tons)	(Percent of generation)	
Durable Goods*	1,450	Neg.	Neg.	1,450
Containers and Packaging				
Beer and Soft Drink Bottles	5,350	1,680	31.4%	3,670
Wine and Liquor Bottles	1,770	480	27.1%	1,290
Food and Other Bottles and Jars	<u>3,880</u>	<u>1,020</u>	26.3%	<u>2,860</u>
<i>Total Glass Containers</i>	11,000	3,180	28.9%	7,820
<i>Total Glass</i>	<u>12,450</u>	<u>3,180</u>	25.5%	<u>9,270</u>

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

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

Details may not add to totals due to rounding.

Table 6
METAL PRODUCTS IN MSW, 1998
(In thousands of tons and percent of generation)

Product Category	Generation	Recovery		Discards
	(Thousand tons)	(Thousand tons)	(Percent of generation)	(Thousand tons)
Durable Goods				
Ferrous metals*	9,440	2,660	28.2%	6,780
Aluminum**	930	Neg.	Neg.	930
Lead†	970	930	95.9%	40
Other nonferrous metals‡	410	Neg.	Neg.	410
<i>Total Metals in Durable Goods</i>	11,750	3,590	30.6%	8,160
Nondurable Goods				
Aluminum	190	Neg.	Neg.	190
Containers and Packaging				
Steel				
Food and other cans	2,690	1,510	56.1%	1,180
Other steel packaging	250	170	68.0%	80
<i>Total Steel Packaging</i>	2,940	1,680	57.1%	1,260
Aluminum				
Beer and soft drink cans	1,540	830	53.9%	710
Food and other cans	50	Neg.	6.0%	50
Foil and closures	370	30	8.1%	340
<i>Total Aluminum Packaging</i>	1,960	860	43.9%	1,100
<i>Total Metals in Containers and Packaging</i>	4,900	2,540	51.8%	2,360
<i>Total Metals</i>	16,840	6,130	36.4%	10,710
Ferrous	12,380	4,340	35.1%	8,040
Aluminum	3,080	860	27.9%	2,220
Other nonferrous	1,380	930	67.4%	450

* Ferrous metals in appliances, furniture, tires, and miscellaneous durables.

** Aluminum in appliances, furniture, and miscellaneous durables.

† Lead in lead-acid batteries.

‡ Other nonferrous metals in appliances and miscellaneous durables.

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

Details may not add to totals due to rounding.

Table 7
PLASTICS IN PRODUCTS IN MSW, 1998
(In thousands of tons, and percent of generation by resin)

Product Category	Generation (Thousand tons)	Recovery (Thousand (Percent tons) of Gen.)	Discards (Thousand tons)
Durable Goods			
PET	380	30	350
HDPE	490	40	450
PVC	410	Neg.	410
LDPE/LLDPE	600	20	600
PP	1,130	140	990
PS	580	10	580
Other resins	3,310	20	3,290
Total Plastics in Durable Goods	6,900	260	3.8%
Nondurable Goods			
Plastic Plates and Cups			
LDPE/LLDPE	20		20
PS	870	Neg.	870
Subtotal Plastic Plates and Cups	890		890
Trash Bags			
HDPE	220		220
LDPE/LLDPE	620		620
Subtotal Trash Bags	840		840
All other nondurables*			
PET	190		190
HDPE	370		370
PVC	530		530
LDPE/LLDPE	1,390		1,390
PP	770		770
PS	510		510
Other resins	90		90
Subtotal All Other Nondurables	3,850		3,850
Total Plastics in Nondurable Goods, by resin			
PET	190		190
HDPE	590		590
PVC	530		530
LDPE/LLDPE	2,030		2,030
PP	770		770
PS	1,380	Neg.	1,380
Other resins	90		90
Total Plastics in Nondurable Goods	5,580	0	0.0%
Plastic Containers & Packaging			
Soft drink bottles			
PET	820	290	530
HDPE	Neg.	Neg.	Neg.
Subtotal Soft Drink Bottles	820	290	35.4%
Milk and water bottles			
HDPE	700	220	31.4%
<hr/> HDPE=High density polyethylene PET=Polyethylene terephthalate PS=Polystyrene LDPE=Low density polyethylene PP=Polypropylene PVC=Polyvinyl chloride LLDPE=Linear Low density polyethylene			

Table 7 (continued)
PLASTICS IN PRODUCTS IN MSW, 1998
(In thousands of tons, and percent of generation by resin)

Product Category	Generation (Thousand tons)	Recovery		Discards (Thousand tons)
		(Thousand tons)	(Percent of Gen.)	
Plastic Containers & Packaging, cont.				
Other plastic containers				
PET	720	70		650
HDPE	1,220	150		1,070
PVC	130	Neg.		130
LDPE/LLDPE	50	Neg.		50
PP	130	Neg.		130
PS	60	Neg.		60
Other resins	20	Neg.		20
<i>Subtotal Other Containers</i>	2,330	220	9.4%	2,110
Bags, sacks, & wraps				
HDPE	570	30		540
PVC	50			50
LDPE/LLDPE	2,320	120		2,200
PP	460	Neg.		460
PS	60			60
<i>Subtotal Bags, Sacks, & Wraps</i>	3,460	150	4.3%	3,310
Other Plastics Packaging**				
PET	120	Neg.		120
HDPE	1,390	10		1,390
PVC	250	Neg.		250
LDPE/LLDPE	340	Neg.		340
PP	350	30		320
PS	90	10		80
Other resins	40	30		40
<i>Subtotal Other Packaging</i>	2,580	80	3.1%	2,500
Total Plastics in Containers & Packaging, by resin				
PET	1,660	360		1,300
HDPE	3,880	400		3,480
PVC	430	Neg.		430
LDPE/LLDPE	2,710	120		2,590
PP	940	30		910
PS	210	10		200
Other resins	60	30		60
<i>Total Plastics in Containers & Pkg</i>	9,890	950	9.6%	8,940
Total Plastics in MSW, by resin				
PET	2,230	390		1,840
HDPE	4,960	440		4,520
PVC	1,370	Neg.		1,370
LDPE/LLDPE	5,340	140		5,200
PP	2,840	170		2,670
PS	2,170	20		2,150
Other resins	3,460	50		3,410
<i>Total Plastics in MSW</i>	22,370	1,210	5.4%	21,160

HDPE=High density polyethylene

LDPE=Low density polyethylene

LLDPE=Linear Low density polyethylene

PET=Polyethylene terephthalate

PP=Polypropylene

PS=Polystyrene

PVC=Polyvinyl chloride

* All other nondurables include plastics in disposable diapers, clothing, footwear, etc.

** Other plastic packaging includes coatings, closures, caps, trays, shapes, etc.

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

Table 8

RUBBER AND LEATHER PRODUCTS IN MSW, 1998
(In thousands of tons and percent of generation)

Product Category	Generation (Thousand tons)	Recovery		Discards (Thousand tons)
		(Thousand tons)	(Percent of generation)	
Durable Goods				
Rubber in Tires*	3,660	860	23.5%	2,800
Other Durables**	<u>2,360</u>	<u>Neg.</u>	Neg.	<u>2,360</u>
<i>Total Rubber & Leather</i>				
<i>Durable Goods</i>	6,020	860	14.3%	5,160
Nondurable Goods				
Clothing and Footwear	580	Neg.	Neg.	580
Other Nondurables	<u>240</u>	<u>Neg.</u>	Neg.	<u>240</u>
<i>Total Rubber & Leather</i>				
<i>Nondurable Goods</i>	820	Neg.	Neg.	820
Containers and Packaging	20	Neg.	Neg.	20
<i>Total Rubber & Leather</i>	<u>6,860</u>	<u>860</u>	12.5%	<u>6,000</u>

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

** Includes carpets and rugs and other miscellaneous durables.

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

Details may not add to totals due to rounding.

Table 9

CATEGORIES OF PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(In thousands of tons and percent of total generation)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 12)</i>	9,920	14,660	21,800	29,810	31,140	31,660	33,220	34,370
Nondurable Goods <i>(Detail in Table 15)</i>	17,330	25,060	34,420	52,170	57,250	55,510	59,280	60,280
Containers and Packaging <i>(Detail in Table 18)</i>	27,370	43,560	52,670	64,530	68,390	69,050	71,040	72,430
Total Product** Wastes	54,620	83,280	108,890	146,510	156,780	156,220	163,540	167,080
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,740	21,850	21,910	22,130
Yard Trimmings	20,000	23,200	27,500	35,000	29,690	27,920	27,730	27,730
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	58,700	54,580	52,970	52,890	53,150
Total MSW Generated - Weight	88,120	121,060	151,640	205,210	211,360	209,190	216,430	220,230
	Percent of Total Generation							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 12)</i>	11.3%	12.1%	14.4%	14.5%	14.7%	15.1%	15.3%	15.6%
Nondurable Goods <i>(Detail in Table 15)</i>	19.7%	20.7%	22.7%	25.4%	27.1%	26.5%	27.4%	27.4%
Containers and Packaging <i>(Detail in Table 19)</i>	31.1%	36.0%	34.7%	31.4%	32.4%	33.0%	32.8%	32.9%
Total Product** Wastes	62.0%	68.8%	71.8%	71.4%	74.2%	74.7%	75.6%	75.9%
Other Wastes								
Food Wastes	13.8%	10.6%	8.6%	10.1%	10.3%	10.4%	10.1%	10.0%
Yard Trimmings	22.7%	19.2%	18.1%	17.1%	14.0%	13.3%	12.8%	12.6%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.5%	1.5%	1.5%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	28.6%	25.8%	25.3%	24.4%	24.1%
Total MSW Generated - %	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.

** Other than food products.

Details may not add to totals due to rounding.

Table 10

RECOVERY* OF MUNICIPAL SOLID WASTE, 1960 TO 1998
(In thousands of tons and percent of generation of each category)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 13)</i>	350	940	1,360	3,460	5,010	5,300	5,660	5,740
Nondurable Goods <i>(Detail in Table 16)</i>	2,390	3,730	4,670	8,800	13,610	13,550	14,020	14,290
Containers and Packaging <i>(Detail in Table 20)</i>	2,870	3,350	8,490	16,780	26,720	27,540	27,620	29,000
Total Product** Wastes	5,610	8,020	14,520	29,040	45,340	46,390	47,300	49,030
Other Wastes								
Food, Other^	Neg.	Neg.	Neg.	Neg.	570	520	580	580
Yard Trimmings	Neg.	Neg.	Neg.	4,200	9,000	10,390	11,490	12,560
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	9,570	10,910	12,070	13,140
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	54,910	57,300	59,370	62,170
	Percent of Generation of Each Category							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 13)</i>	3.5%	6.4%	6.2%	11.6%	16.1%	16.7%	17.0%	16.7%
Nondurable Goods <i>(Detail in Table 16)</i>	13.8%	14.9%	13.6%	16.9%	23.8%	24.4%	23.7%	23.7%
Containers and Packaging <i>(Detail in Table 21)</i>	10.5%	7.7%	16.1%	26.0%	39.1%	39.9%	38.9%	40.0%
Total Product** Wastes	10.3%	9.6%	13.3%	19.8%	28.9%	29.7%	28.9%	29.3%
Other Wastes								
Food, Other^	Neg.	Neg.	Neg.	Neg.	2.6%	2.4%	2.6%	2.6%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	30.3%	37.2%	41.4%	45.3%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	7.2%	17.5%	20.6%	22.8%	24.7%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.2%	26.0%	27.4%	27.4%	28.2%

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

** Other than food products.

^ Includes recovery of paper for composting.

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

Details may not add to totals due to rounding.

Table 11

CATEGORIES OF PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(In thousands of tons and percent of total discards)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 14)</i>	9,570	13,720	20,440	26,350	26,130	26,360	27,560	28,630
Nondurable Goods <i>(Detail in Table 17)</i>	14,940	21,330	29,750	43,370	43,640	41,960	45,260	45,990
Containers and Packaging <i>(Detail in Table 22)</i>	24,500	40,210	44,180	47,750	41,670	41,510	43,420	43,430
Total Product** Wastes	49,010	75,260	94,370	117,470	111,440	109,830	116,240	118,050
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,170	21,330	21,330	21,550
Yard Trimmings	20,000	23,200	27,500	30,800	20,690	17,530	16,240	15,170
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	54,500	45,010	42,060	40,820	40,010
Total MSW Discarded - Weight	82,510	113,040	137,120	171,970	156,450	151,890	157,060	158,060
	Percent of Total Discards							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 14)</i>	11.6%	12.1%	14.9%	15.3%	16.7%	17.4%	17.5%	18.1%
Nondurable Goods <i>(Detail in Table 17)</i>	18.1%	18.9%	21.7%	25.2%	27.9%	27.6%	28.8%	29.1%
Containers and Packaging <i>(Detail in Table 23)</i>	29.7%	35.6%	32.2%	27.8%	26.6%	27.3%	27.6%	27.5%
Total Product** Wastes	59.4%	66.6%	68.8%	68.3%	71.2%	72.3%	74.0%	74.7%
Other Wastes								
Food Wastes	14.8%	11.3%	9.5%	12.1%	13.5%	14.0%	13.6%	13.6%
Yard Trimmings	24.2%	20.5%	20.1%	17.9%	13.2%	11.5%	10.3%	9.6%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.1%	2.1%
Total Other Wastes	40.6%	33.4%	31.2%	31.7%	28.8%	27.7%	26.0%	25.3%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Discards after materials and compost recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes.

** Other than food products.

Details may not add to totals due to rounding.

Table 12
PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON DURABLE GOODS)
(In thousands of tons and percent of total generation)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods								
Major Appliances	1,630	2,170	2,950	3,310	3,420	3,520	3,600	3,650
Small Appliances**				460	710	780	830	890
Furniture and Furnishings	2,150	2,830	4,760	6,790	7,170	7,320	7,510	7,600
Carpets and Rugs**				1,660	2,230	2,310	2,330	2,410
Rubber Tires	1,120	1,890	2,720	3,610	3,770	3,910	4,260	4,510
Batteries, lead acid	Neg.	820	1,490	1,510	1,810	1,810	1,780	1,940
Miscellaneous Durables	5,020	6,950	9,880	12,470	12,030	12,010	12,910	13,370
Total Durable Goods	9,920	14,660	21,800	29,810	31,140	31,660	33,220	34,370
Nondurable Goods (Detail in Table 15)	17,330	25,060	34,420	52,170	57,250	55,510	59,280	60,280
Containers and Packaging (Detail in Table 18)	27,370	43,560	52,670	64,530	68,390	69,050	71,040	72,430
Total Product Wastes†	54,620	83,280	108,890	146,510	156,780	156,220	163,540	167,080
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,740	21,850	21,910	22,130
Yard Trimmings	20,000	23,200	27,500	35,000	29,690	27,920	27,730	27,730
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	58,700	54,580	52,970	52,890	53,150
Total MSW Generated - Weight	88,120	121,060	151,640	205,210	211,360	209,190	216,430	220,230
	Percent of Total Generation							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods								
Major Appliances	1.8%	1.8%	1.9%	1.6%	1.6%	1.7%	1.7%	1.7%
Small Appliances**				0.2%	0.3%	0.4%	0.4%	0.4%
Furniture and Furnishings	2.4%	2.3%	3.1%	3.3%	3.4%	3.5%	3.5%	3.5%
Carpets and Rugs**				0.8%	1.1%	1.1%	1.1%	1.1%
Rubber Tires	1.3%	1.6%	1.8%	1.8%	1.8%	1.9%	2.0%	2.0%
Batteries, Lead-Acid	Neg.	0.7%	1.0%	0.7%	0.9%	0.9%	0.8%	0.9%
Miscellaneous Durables	5.7%	5.7%	6.5%	6.1%	5.7%	5.7%	6.0%	6.1%
Total Durable Goods	11.3%	12.1%	14.4%	14.5%	14.7%	15.1%	15.3%	15.6%
Nondurable Goods (Detail in Table 15)	19.7%	20.7%	22.7%	25.4%	27.1%	26.5%	27.4%	27.4%
Containers and Packaging (Detail in Table 19)	31.1%	36.0%	34.7%	31.4%	32.4%	33.0%	32.8%	32.9%
Total Product Wastes†	62.0%	68.8%	71.8%	71.4%	74.2%	74.7%	75.6%	75.9%
Other Wastes								
Food Wastes	13.8%	10.6%	8.6%	10.1%	10.3%	10.4%	10.1%	10.0%
Yard Trimmings	22.7%	19.2%	18.1%	17.1%	14.0%	13.3%	12.8%	12.6%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.5%	1.5%	1.5%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	28.6%	25.8%	25.3%	24.4%	24.1%
Total MSW Generated - %	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.

** Not estimated separately prior to 1990.

† Other than food products.

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

Table 13
RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 1998
(WITH DETAIL ON DURABLE GOODS)
(In thousands of tons and percent of generation of each product)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods								
Major Appliances	10	50	130	1,070	2,070	2,200	2,320	1,940
Small Appliances**				10	10	10	10	10
Furniture and Furnishings	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Carpets and Rugs**				Neg.	20	20	30	30
Rubber Tires	330	250	150	440	670	730	950	1,060
Batteries, lead acid	Neg.	620	1,040	1,470	1,620	1,700	1,660	1,880
Miscellaneous Durables	10	20	40	470	620	640	690	820
Total Durable Goods	350	940	1,360	3,460	5,010	5,300	5,660	5,740
Nondurable Goods (Detail in Table 16)	2,390	3,730	4,670	8,800	13,610	13,550	14,020	14,290
Containers and Packaging (Detail in Table 20)	2,870	3,350	8,490	16,780	26,720	27,540	27,620	29,000
Total Product Wastes†	5,610	8,020	14,520	29,040	45,340	46,390	47,300	49,030
Other Wastes								
Food Wastes	Neg.	Neg.	Neg.	Neg.	570	520	580	580
Yard Trimmings	Neg.	Neg.	Neg.	4,200	9,000	10,390	11,490	12,560
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	9,570	10,910	12,070	13,140
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	54,910	57,300	59,370	62,170
	Percent of Generation of Each Product							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods								
Major Appliances	0.6%	2.3%	4.4%	32.3%	60.5%	62.5%	64.4%	53.2%
Small Appliances**				2.2%	1.4%	1.3%	1.2%	1.1%
Furniture and Furnishings	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Carpets and Rugs**				Neg.	0.9%	0.9%	1.3%	1.2%
Rubber Tires	29.5%	13.2%	5.5%	12.2%	17.8%	18.7%	22.3%	23.5%
Batteries, Lead-Acid	Neg.	75.6%	69.8%	97.4%	89.5%	93.9%	93.3%	96.9%
Miscellaneous Durables	0.2%	0.3%	0.4%	3.8%	5.2%	5.3%	5.3%	6.1%
Total Durable Goods	3.5%	6.4%	6.2%	11.6%	16.1%	16.7%	17.0%	16.7%
Nondurable Goods (Detail in Table 16)	13.8%	14.9%	13.6%	16.9%	23.8%	24.4%	23.7%	23.7%
Containers and Packaging (Detail in Table 21)	10.5%	7.7%	16.1%	26.0%	39.1%	39.9%	38.9%	40.0%
Total Product Wastes†	10.3%	9.6%	13.3%	19.8%	28.9%	29.7%	28.9%	29.3%
Other Wastes								
Food Wastes	Neg.	Neg.	Neg.	Neg.	2.6%	2.4%	2.6%	2.6%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	30.3%	37.2%	41.4%	45.3%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	7.2%	17.5%	20.6%	22.8%	24.7%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.2%	26.0%	27.4%	27.4%	28.2%

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

** Not estimated separately prior to 1990.

† Other than food products.

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

Table 14
PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON DURABLE GOODS)
(In thousands of tons and percent of total discards)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods								
Major Appliances	1,620	2,120	2,820	2,240	1,350	1,320	1,280	1,710
Small Appliances**				450	700	770	820	880
Furniture and Furnishings	2,150	2,830	4,760	6,790	7,170	7,320	7,510	7,600
Carpets and Rugs**				1,660	2,210	2,290	2,300	2,380
Rubber Tires	790	1,640	2,570	3,170	3,100	3,180	3,310	3,450
Batteries, lead acid	Neg.	200	450	40	190	110	120	60
Miscellaneous Durables	5,010	6,930	9,840	12,000	11,410	11,370	12,220	12,550
Total Durable Goods	9,570	13,720	20,440	26,350	26,130	26,360	27,560	28,630
Nondurable Goods (Detail in Table 17)	14,940	21,330	29,750	43,370	43,640	41,960	45,260	45,990
Containers and Packaging (Detail in Table 22)	24,500	40,210	44,180	47,750	41,670	41,510	43,420	43,430
Total Product Wastes†	49,010	75,260	94,370	117,470	111,440	109,830	116,240	118,050
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,170	21,330	21,330	21,550
Yard Trimmings	20,000	23,200	27,500	30,800	20,690	17,530	16,240	15,170
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	54,500	45,010	42,060	40,820	40,010
Total MSW Discarded - Weight	82,510	113,040	137,120	171,970	156,450	151,890	157,060	158,060
	Percent of Total Discards							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods								
Major Appliances	2.0%	1.9%	2.1%	1.3%	0.9%	0.9%	0.8%	1.1%
Small Appliances**				0.3%	0.4%	0.5%	0.5%	0.6%
Furniture and Furnishings	2.6%	2.5%	3.5%	3.9%	4.6%	4.8%	4.8%	4.8%
Carpets and Rugs**				1.0%	1.4%	1.5%	1.5%	1.5%
Rubber Tires	1.0%	1.5%	1.9%	1.8%	2.0%	2.1%	2.1%	2.2%
Batteries, Lead-Acid	Neg.	0.2%	0.3%	0.0%	0.1%	0.1%	0.1%	0.0%
Miscellaneous Durables	6.1%	6.1%	7.2%	7.0%	7.3%	7.5%	7.8%	7.9%
Total Durable Goods	11.6%	12.1%	14.9%	15.3%	16.7%	17.4%	17.5%	18.1%
Nondurable Goods (Detail in Table 17)	18.1%	18.9%	21.7%	25.2%	27.9%	27.6%	28.8%	29.1%
Containers and Packaging (Detail in Table 23)	29.7%	35.6%	32.2%	27.8%	26.6%	27.3%	27.6%	27.5%
Total Product Wastes†	59.4%	66.6%	68.8%	68.3%	71.2%	72.3%	74.0%	74.7%
Other Wastes								
Food Wastes	14.8%	11.3%	9.5%	12.1%	13.5%	14.0%	13.6%	13.6%
Yard Trimmings	24.2%	20.5%	20.1%	17.9%	13.2%	11.5%	10.3%	9.6%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.1%	2.1%
Total Other Wastes	40.6%	33.4%	31.2%	31.7%	28.8%	27.7%	26.0%	25.3%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Discards after materials and compost recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

** Not estimated separately prior to 1990.

† Other than food products.

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

Table 15
PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON NONDURABLE GOODS)
(In thousands of tons and percent of total generation)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 12)	9,920	14,660	21,800	29,810	31,140	31,660	33,220	34,370
Nondurable Goods								
Newspapers	7,110	9,510	11,050	13,430	13,140	12,560	13,490	13,620
Books and Magazines	1,920	2,470	3,390					
Books**				970	1,150	940	1,120	1,140
Magazines**				2,830	2,530	1,970	2,160	2,260
Office Papers	1,520	2,650	4,000	6,410	6,640	6,570	6,930	7,040
Directories**				610	490	470	470	740
Standard (A) Mail***				3,820	4,620	4,510	4,850	5,200
Other Commercial Printing	1,260	2,130	3,120	4,460	6,770	6,260	7,000	6,570
Tissue Paper and Towels	1,090	2,080	2,300	2,960	2,970	2,980	3,120	3,100
Paper Plates and Cups	270	420	630	650	970	950	970	890
Plastic Plates and Cups†			190	650	780	810	860	890
Trash Bags**				780	780	860	810	840
Disposable Diapers	Neg.	350	1,930	2,700	3,010	3,050	3,140	3,200
Other Nonpackaging Paper	2,700	3,630	4,230	3,840	4,270	4,050	4,390	4,410
Clothing and Footwear	1,360	1,620	2,170	4,010	5,070	5,340	5,770	6,040
Towels, Sheets and Pillowcases**				710	740	750	750	750
Other Miscellaneous Nondurables	100	200	1,410	3,340	3,320	3,440	3,450	3,590
Total Nondurable Goods	17,330	25,060	34,420	52,170	57,250	55,510	59,280	60,280
Containers and Packaging (Detail in Table 18)	27,370	43,560	52,670	64,530	68,390	69,050	71,040	72,430
Total Product Wastes‡	54,620	83,280	108,890	146,510	156,780	156,220	163,540	167,080
Other Wastes	33,500	37,780	42,750	58,700	54,580	52,970	52,890	53,150
Total MSW Generated - Weight	88,120	121,060	151,640	205,210	211,360	209,190	216,430	220,230
	Percent of Total Generation							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 12)	11.3%	12.1%	14.4%	14.5%	14.7%	15.1%	15.3%	15.6%
Nondurable Goods								
Newspapers	8.1%	7.9%	7.3%	6.5%	6.2%	6.0%	6.2%	6.2%
Books and Magazines	2.2%	2.0%	2.2%					
Books**				0.5%	0.5%	0.4%	0.5%	0.5%
Magazines**				1.4%	1.2%	0.9%	1.0%	1.0%
Office Papers	1.7%	2.2%	2.6%	3.1%	3.1%	3.1%	3.2%	3.2%
Directories**				0.3%	0.2%	0.2%	0.2%	0.3%
Standard (A) Mail***				1.9%	2.2%	2.2%	2.2%	2.4%
Other Commercial Printing	1.4%	1.8%	2.1%	2.2%	3.2%	3.0%	3.2%	3.0%
Tissue Paper and Towels	1.2%	1.7%	1.5%	1.4%	1.4%	1.4%	1.4%	1.4%
Paper Plates and Cups	0.3%	0.3%	0.4%	0.3%	0.5%	0.5%	0.4%	0.4%
Plastic Plates and Cups†			0.1%	0.3%	0.4%	0.4%	0.4%	0.4%
Trash Bags**				0.4%	0.4%	0.4%	0.4%	0.4%
Disposable Diapers	Neg.	0.3%	1.3%	1.3%	1.4%	1.5%	1.5%	1.5%
Other Nonpackaging Paper	3.1%	3.0%	2.8%	1.9%	2.0%	1.9%	2.0%	2.0%
Clothing and Footwear	1.5%	1.3%	1.4%	2.0%	2.4%	2.6%	2.7%	2.7%
Towels, Sheets and Pillowcases**				0.3%	0.4%	0.4%	0.3%	0.3%
Other Miscellaneous Nondurables	0.1%	0.2%	0.9%	1.6%	1.6%	1.6%	1.6%	1.6%
Total Nondurables	19.7%	20.7%	22.7%	25.4%	27.1%	26.5%	27.4%	27.4%
Containers and Packaging (Detail in Table 19)	31.1%	36.0%	34.7%	31.4%	32.4%	33.0%	32.8%	32.9%
Total Product Wastes‡	62.0%	68.8%	71.8%	71.4%	74.2%	74.7%	75.6%	75.9%
Other Wastes	38.0%	31.2%	28.2%	28.6%	25.8%	25.3%	24.4%	24.1%
Total MSW Generated - %	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.

** Not estimated separately prior to 1990.

*** Not estimated separately prior to 1990. Formerly called Third Class Mail by the U.S. Postal Service.

† Not estimated separately prior to 1980.

‡ Other than food products.

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

Table 16

RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 1998
(WITH DETAIL ON NONDURABLE GOODS)
(In thousands of tons and percent of generation of each product)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 13)	350	940	1,360	3,460	5,010	5,300	5,660	5,740
Nondurable Goods								
Newspapers	1,820	2,250	3,020	5,110	7,010	6,800	7,340	7,680
Books and Magazines	100	260	280					
Books**				100	220	170	160	160
Magazines**				300	650	470	440	470
Office Papers	250	710	870	1,700	3,040	3,490	3,500	3,550
Directories**				40	60	60	60	100
Standard (A) Mail***				200	710	770	880	980
Other Commercial Printing	130	340	350	700	1,120	950	750	420
Tissue Paper and Towels	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Paper Plates and Cups	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Plastic Plates and Cups†			Neg.	10	10	10	Neg.	Neg.
Trash Bags**				Neg.	Neg.	Neg.	Neg.	Neg.
Disposable Diapers				Neg.	Neg.	Neg.	Neg.	Neg.
Other Nonpackaging Paper	40	110	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Clothing and Footwear	50	60	150	520	660	700	760	800
Towels, Sheets and Pillowcases**				120	130	130	130	130
Other Miscellaneous Nondurables	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Nondurable Goods	2,390	3,730	4,670	8,800	13,610	13,550	14,020	14,290
Containers and Packaging (Detail in Table 20)	2,870	3,350	8,490	16,780	26,720	27,540	27,620	29,000
Total Product Wastes‡	5,610	8,020	14,520	29,040	45,340	46,390	47,300	49,030
Other Wastes	Neg.	Neg.	Neg.	4,200	9,570	10,910	12,070	13,140
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	54,910	57,300	59,370	62,170
	Percent of Generation of Each Product							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 13)	3.5%	6.4%	6.2%	11.6%	16.1%	16.7%	17.0%	16.7%
Nondurable Goods								
Newspapers	25.6%	23.7%	27.3%	38.0%	53.3%	54.1%	54.4%	56.4%
Books and Magazines	5.2%	10.5%	8.3%					
Books**				10.3%	19.1%	18.1%	14.3%	14.0%
Magazines**				10.6%	25.7%	23.9%	20.4%	20.8%
Office Papers	16.4%	26.8%	21.8%	26.5%	45.8%	53.1%	50.5%	50.4%
Directories**				6.6%	12.2%	12.8%	12.8%	13.5%
Standard (A) Mail***				5.2%	15.4%	17.1%	18.1%	18.8%
Other Commercial Printing	10.3%	16.0%	11.2%	15.7%	16.5%	15.2%	10.7%	6.4%
Tissue Paper and Towels	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Paper Plates and Cups	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Plastic Plates and Cups†			Neg.	1.5%	1.3%	1.2%	Neg.	Neg.
Trash Bags**				Neg.	Neg.	Neg.	Neg.	Neg.
Disposable Diapers				Neg.	Neg.	Neg.	Neg.	Neg.
Other Nonpackaging Paper	1.5%	3.0%	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Clothing and Footwear	Neg.	Neg.	Neg.	13.0%	13.0%	13.1%	13.2%	13.2%
Towels, Sheets and Pillowcases**				16.9%	17.6%	17.3%	17.3%	17.3%
Other Miscellaneous Nondurables	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Nondurables	13.8%	14.9%	13.6%	16.9%	23.8%	24.4%	23.7%	23.7%
Containers and Packaging (Detail in Table 21)	10.5%	7.7%	16.1%	26.0%	39.1%	39.9%	38.9%	40.0%
Total Product Wastes‡	10.3%	9.6%	13.3%	19.8%	28.9%	29.7%	28.9%	29.3%
Other Wastes	Neg.	Neg.	Neg.	7.2%	17.5%	20.6%	22.8%	24.7%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.2%	26.0%	27.4%	27.4%	28.2%

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

** Not estimated separately prior to 1990.

*** Not estimated separately prior to 1990. Formerly called Third Class Mail by the U.S. Postal Service.

† Not estimated separately prior to 1980.

‡ Other than food products.

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

Table 17

PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON NONDURABLE GOODS)
(In thousands of tons and percent of total discards)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 14)	9,570	13,720	20,440	26,350	26,130	26,360	27,560	28,630
Nondurable Goods								
Newspapers	5,290	7,260	8,030	8,320	6,130	5,760	6,150	5,940
Books and Magazines	1,820	2,210	3,110					
Books**				870	930	770	960	980
Magazines**				2,530	1,880	1,500	1,720	1,790
Office Papers	1,270	1,940	3,130	4,710	3,600	3,080	3,430	3,490
Directories**				570	430	410	410	640
Standard (A) Mail***				3,620	3,910	3,740	3,970	4,220
Other Commercial Printing	1,130	1,790	2,770	3,760	5,650	5,310	6,250	6,150
Tissue Paper and Towels	1,090	2,080	2,300	2,960	2,970	2,980	3,120	3,100
Paper Plates and Cups	270	420	630	650	970	950	970	890
Plastic Plates and Cups†			190	640	770	800	860	890
Trash Bags**				780	780	860	810	840
Disposable Diapers	Neg.	350	1,930	2,700	3,010	3,050	3,140	3,200
Other Nonpackaging Paper	2,660	3,520	4,230	3,840	4,270	4,050	4,390	4,410
Clothing and Footwear	1,310	1,560	2,020	3,490	4,410	4,640	5,010	5,240
Towels, Sheets and Pillowcases**				590	610	620	620	620
Other Miscellaneous Nondurables	100	200	1,410	3,340	3,320	3,440	3,450	3,590
Total Nondurable Goods	14,940	21,330	29,750	43,370	43,640	41,960	45,260	45,990
Containers and Packaging (Detail in Table 22)	24,500	40,210	44,180	47,750	41,670	41,510	43,420	43,430
Total Product Wastes‡	49,010	75,260	94,370	117,470	111,440	109,830	116,240	118,050
Other Wastes	33,500	37,780	42,750	54,500	45,010	42,060	40,820	40,010
Total MSW Discarded - Weight	82,510	113,040	137,120	171,970	156,450	151,890	157,060	158,060
	Percent of Total Discards							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 14)	11.6%	12.1%	14.9%	15.3%	16.7%	17.4%	17.5%	18.1%
Nondurable Goods								
Newspapers	6.4%	6.4%	5.9%	4.8%	3.9%	3.8%	3.9%	3.8%
Books and Magazines	2.2%	2.0%	2.3%					
Books**				0.5%	0.6%	0.5%	0.6%	0.6%
Magazines**				1.5%	1.2%	1.0%	1.1%	1.1%
Office Papers	1.5%	1.7%	2.3%	2.7%	2.3%	2.0%	2.2%	2.2%
Directories**				0.3%	0.3%	0.3%	0.3%	0.4%
Standard (A) Mail***				2.1%	2.5%	2.5%	2.5%	2.7%
Other Commercial Printing	1.4%	1.6%	2.0%	2.2%	3.6%	3.5%	4.0%	3.9%
Tissue Paper and Towels	1.3%	1.8%	1.7%	1.7%	1.9%	2.0%	2.0%	2.0%
Paper Plates and Cups	0.3%	0.4%	0.5%	0.4%	0.6%	0.6%	0.6%	0.6%
Plastic Plates and Cups†			0.1%	0.4%	0.5%	0.5%	0.5%	0.6%
Trash Bags**				0.5%	0.5%	0.6%	0.5%	0.5%
Disposable Diapers	Neg.	0.3%	1.4%	1.6%	1.9%	2.0%	2.0%	2.0%
Other Nonpackaging Paper	3.2%	3.1%	3.1%	2.2%	2.7%	2.7%	2.8%	2.8%
Clothing and Footwear	1.6%	1.4%	1.5%	2.0%	2.8%	3.1%	3.2%	3.3%
Towels, Sheets and Pillowcases**				0.3%	0.4%	0.4%	0.4%	0.4%
Other Miscellaneous Nondurables	0.1%	0.2%	1.7%	1.9%	2.1%	2.3%	2.2%	2.3%
Total Nondurables	18.1%	18.9%	21.7%	25.2%	27.9%	27.6%	28.8%	29.1%
Containers and Packaging (Detail in Table 23)	29.7%	35.6%	32.2%	27.8%	26.6%	27.3%	27.6%	27.5%
Total Product Wastes‡	59.4%	66.6%	68.8%	68.3%	71.2%	72.3%	74.0%	74.7%
Other Wastes	40.6%	33.4%	31.2%	31.7%	28.8%	27.7%	26.0%	25.3%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Discards after materials and compost recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

** Not estimated separately prior to 1990.

*** Not estimated separately prior to 1990. Formerly called Third Class Mail by the U.S. Postal Service.

† Not estimated separately prior to 1980.

‡ Other than food products.

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

Table 18
PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON CONTAINERS AND PACKAGING)
(In thousands of tons)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 12)	9,920	14,660	21,800	29,810	31,140	31,660	33,220	34,370
Nondurable Goods (Detail in Table 15)	17,330	25,060	34,420	52,170	57,250	55,510	59,280	60,280
Containers and Packaging								
Glass Packaging								
Beer and Soft Drink Bottles	1,400	5,580	6,740	5,640	5,120	5,100	4,960	5,350
Wine and Liquor Bottles	1,080	1,900	2,450	2,030	1,790	1,940	1,820	1,770
Food and Other Bottles & Jars	3,710	4,440	4,780	4,160	4,620	3,940	3,830	3,880
Total Glass Packaging	6,190	11,920	13,970	11,830	11,530	10,980	10,610	11,000
Steel Packaging								
Beer and Soft Drink Cans	640	1,570	520	150	Neg.	Neg.	Neg.	Neg.
Food and Other Cans	3,760	3,540	2,850	2,540	2,690	2,820	2,860	2,690
Other Steel Packaging	260	270	240	200	210	170	240	250
Total Steel Packaging	4,660	5,380	3,610	2,890	2,900	2,990	3,100	2,940
Aluminum Packaging								
Beer and Soft Drink Cans	Neg.	100	850	1,550	1,590	1,540	1,530	1,540
Other Cans	Neg.	60	40	20	40	40	50	50
Foil and Closures	170	410	380	330	350	360	360	370
Total Aluminum Packaging	170	570	1,270	1,900	1,980	1,940	1,940	1,960
Paper & Paperboard Pkg								
Corrugated Boxes	7,330	12,760	17,080	24,010	28,800	29,020	29,530	29,760
Milk Cartons**			790	510	510	460	460	470
Folding Cartons**			3,820	4,300	5,310	5,390	5,410	5,550
Other Paperboard Packaging	3,840	4,830	230	290	260	230	240	230
Bags and Sacks**			3,380	2,440	1,980	1,950	1,870	1,680
Wrapping Papers**			200	110	70	50		
Other Paper Packaging	2,940	3,810	850	1,020	1,150	1,260	1,230	1,420
Total Paper & Board Pkg	14,110	21,400	26,350	32,680	38,080	38,360	38,740	39,110
Plastics Packaging								
Soft Drink Bottles**			260	430	650	700	760	820
Milk Bottles**			230	530	620	650	670	700
Other Containers	60	910	890	1,430	1,180	1,280	1,540	2,330
Bags and Sacks**			390	940	1,200	1,360	1,520	1,480
Wraps**			840	1,530	1,710	1,860	2,130	1,980
Other Plastics Packaging	60	1,180	790	2,040	2,220	2,300	2,810	2,580
Total Plastics Packaging	120	2,090	3,400	6,900	7,580	8,150	9,430	9,890
Wood Packaging	2,000	2,070	3,940	8,180	6,170	6,480	7,030	7,310
Other Misc. Packaging	120	130	130	150	150	150	190	220
Total Containers & Pkg	27,370	43,560	52,670	64,530	68,390	69,050	71,040	72,430
Total Product Wastes†	54,620	83,280	108,890	146,510	156,780	156,220	163,540	167,080
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,740	21,850	21,910	22,130
Yard Trimmings	20,000	23,200	27,500	35,000	29,690	27,920	27,730	27,730
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	58,700	54,580	52,970	52,890	53,150
Total MSW Generated - Weight	88,120	121,060	151,640	205,210	211,360	209,190	216,430	220,230

* Generation before materials recovery or combustion.

Details may not add to totals due to rounding.

** Not estimated separately prior to 1980. Paper wraps not reported separately after 1996.

† Other than food products.

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

Table 19
PRODUCTS GENERATED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON CONTAINERS AND PACKAGING)
(In percent of total generation)

	Percent of Total Generation							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 12)	11.3%	12.1%	14.4%	14.5%	14.7%	15.1%	15.3%	15.6%
Nondurable Goods (Detail in Table 15)	19.7%	20.7%	22.7%	25.4%	27.1%	26.5%	27.4%	27.4%
Containers and Packaging								
Glass Packaging								
Beer and Soft Drink Bottles	1.6%	4.6%	4.4%	2.7%	2.4%	2.4%	2.3%	2.4%
Wine and Liquor Bottles	1.2%	1.6%	1.6%	1.0%	0.8%	0.9%	0.8%	0.8%
Food and Other Bottles & Jars	4.2%	3.7%	3.2%	2.0%	2.2%	1.9%	1.8%	1.8%
Total Glass Packaging	7.0%	9.8%	9.2%	5.8%	5.5%	5.2%	4.9%	5.0%
Steel Packaging								
Beer and Soft Drink Cans	0.7%	1.3%	0.3%	0.1%	Neg.	Neg.	Neg.	Neg.
Food and Other Cans	4.3%	2.9%	1.9%	1.2%	1.3%	1.3%	1.3%	1.2%
Other Steel Packaging	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Total Steel Packaging	5.3%	4.4%	2.4%	1.4%	1.4%	1.4%	1.4%	1.3%
Aluminum Packaging								
Beer and Soft Drink Cans	Neg.	0.1%	0.6%	0.8%	0.8%	0.7%	0.7%	0.7%
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Foil and Closures	0.2%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%
Total Aluminum Packaging	0.2%	0.5%	0.8%	0.9%	0.9%	0.9%	0.9%	0.9%
Paper & Paperboard Pkg								
Corrugated Boxes	8.3%	10.5%	11.3%	11.7%	13.6%	13.9%	13.6%	13.5%
Milk Cartons**			0.5%	0.2%	0.2%	0.2%	0.2%	0.2%
Folding Cartons**			2.5%	2.1%	2.5%	2.6%	2.5%	2.5%
Other Paperboard Packaging	4.4%	4.0%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Bags and Sacks**			2.2%	1.2%	0.9%	0.9%	0.9%	0.8%
Wrapping Papers**			0.1%	0.1%	0.0%	0.0%		
Other Paper Packaging	3.3%	3.1%	0.6%	0.5%	0.5%	0.6%	0.6%	0.6%
Total Paper & Board Pkg	16.0%	17.7%	17.4%	15.9%	18.0%	18.3%	17.9%	17.8%
Plastics Packaging								
Soft Drink Bottles**			0.2%	0.2%	0.3%	0.3%	0.4%	0.4%
Milk Bottles**			0.2%	0.3%	0.3%	0.3%	0.3%	0.3%
Other Containers	0.1%	0.8%	0.6%	0.7%	0.6%	0.6%	0.7%	1.1%
Bags and Sacks**			0.3%	0.5%	0.6%	0.7%	0.7%	0.7%
Wraps**			0.6%	0.7%	0.8%	0.9%	1.0%	0.9%
Other Plastics Packaging	0.1%	1.0%	0.5%	1.0%	1.1%	1.1%	1.3%	1.2%
Total Plastics Packaging	0.1%	1.7%	2.2%	3.4%	3.6%	3.9%	4.4%	4.5%
Wood Packaging	2.3%	1.7%	2.6%	4.0%	2.9%	3.1%	3.2%	3.3%
Other Misc. Packaging	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%	31.4%	32.4%	33.0%	32.8%	32.9%
Total Product Wastes†	62.0%	68.8%	71.8%	71.4%	74.2%	74.7%	75.6%	75.9%
Other Wastes								
Food Wastes	13.8%	10.6%	8.6%	10.1%	10.3%	10.4%	10.1%	10.0%
Yard Trimmings	22.7%	19.2%	18.1%	17.1%	14.0%	13.3%	12.8%	12.6%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.5%	1.5%	1.5%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	28.6%	25.8%	25.3%	24.4%	24.1%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Generation before materials recovery or combustion.

Details may not add to totals due to rounding.

** Not estimated separately prior to 1980. Paper wraps not reported separately after 1996.

† Other than food products.

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

Table 20
RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 1998
(WITH DETAIL ON CONTAINERS AND PACKAGING)
(In thousands of tons)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 13)	350	940	1,360	3,460	5,010	5,300	5,660	5,740
Nondurable Goods (Detail in Table 16)	2,390	3,730	4,670	8,800	13,610	13,550	14,020	14,290
Containers and Packaging								
Glass Packaging								
Beer and Soft Drink Bottles	90	140	730	1,890	1,670	1,680	1,550	1,680
Wine and Liquor Bottles	10	10	20	210	470	480	440	480
Food and Other Bottles & Jars	Neg.	Neg.	Neg.	520	1,000	1,010	930	1,020
Total Glass Packaging	100	150	750	2,620	3,140	3,170	2,920	3,180
Steel Packaging								
Beer and Soft Drink Cans	10	20	50	40	Neg.	Neg.	Neg.	Neg.
Food and Other Cans	20	60	150	590	1,510	1,640	1,730	1,510
Other Steel Packaging	Neg.	Neg.	Neg.	60	50	50	160	170
Total Steel Packaging	30	80	200	690	1,560	1,690	1,890	1,680
Aluminum Packaging								
Beer and Soft Drink Cans	Neg.	10	310	990	900	900	910	830
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Foil and Closures	Neg.	Neg.	Neg.	20	30	30	30	30
Total Aluminum Pkg	Neg.	10	320	1,010	930	930	940	860
Paper & Paperboard Pkg								
Corrugated Boxes	2,520	2,760	6,390	11,530	18,480	19,360	19,800	20,920
Milk Cartons**			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Folding Cartons**			520	340	1,080	850	370	390
Other Paperboard Packaging			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Bags and Sacks**			Neg.	200	340	250	290	290
Wrapping Papers**			Neg.	Neg.	Neg.	Neg.		
Other Paper Packaging	220	350	300	Neg.	Neg.	Neg.	Neg.	Neg.
Total Paper & Board Pkg	2,740	3,110	7,210	12,070	19,900	20,460	20,460	21,600
Plastics Packaging								
Soft Drink Bottles**			10	140	300	280	270	290
Milk Bottles**			Neg.	20	190	200	210	220
Other Containers	Neg.	Neg.	Neg.	20	150	190	200	250
Bags and Sacks**			Neg.	30	40	50	40	10
Wraps**			Neg.	30	40	50	50	120
Other Plastics Packaging	Neg.	Neg.	Neg.	20	20	30	50	70
Total Plastics Packaging	Neg.	Neg.	10	260	740	800	820	960
Wood Packaging	Neg.	Neg.	Neg.	130	450	490	590	720
Other Misc. Packaging	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Containers & Pkg	2,870	3,350	8,490	16,780	26,720	27,540	27,620	29,000
Total Product Wastes†	5,610	8,020	14,520	29,040	45,340	46,390	47,300	49,030
Other Wastes								
Food Wastes	Neg.	Neg.	Neg.	Neg.	570	520	580	580
Yard Trimmings	Neg.	Neg.	Neg.	4,200	9,000	10,390	11,490	12,560
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	9,570	10,910	12,070	13,140
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	54,910	57,300	59,370	62,170

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

** Not estimated separately prior to 1980. Paper wraps not reported separately after 1996.

† Other than food products.

Details may not add to totals due to rounding.

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

Table 21

RECOVERY* OF PRODUCTS IN MUNICIPAL SOLID WASTE, 1960 TO 1998
(WITH DETAIL ON CONTAINERS AND PACKAGING)
(In percent of generation of each product)

Percent of Generation of Each Product								
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods <i>(Detail in Table 13)</i>	3.5%	6.4%	6.2%	11.6%	16.1%	16.7%	17.0%	16.7%
Nondurable Goods <i>(Detail in Table 16)</i>	13.8%	14.9%	13.6%	16.9%	23.8%	24.4%	23.7%	23.7%
Containers and Packaging								
Glass Packaging								
Beer and Soft Drink Bottles	6.4%	2.5%	10.8%	33.5%	32.6%	32.9%	31.3%	31.4%
Wine and Liquor Bottles	Neg.	Neg.	Neg.	10.3%	26.3%	24.7%	24.2%	27.1%
Food and Other Bottles & Jars	Neg.	Neg.	Neg.	12.5%	21.6%	25.6%	24.3%	26.3%
Total Glass Packaging	1.6%	1.3%	5.4%	22.1%	27.2%	28.9%	27.5%	28.9%
Steel Packaging								
Beer and Soft Drink Cans	1.6%	1.3%	9.6%	26.7%	Neg.	Neg.	Neg.	Neg.
Food and Other Cans	Neg.	1.7%	5.3%	23.2%	56.1%	58.2%	60.5%	56.1%
Other Steel Packaging	Neg.	Neg.	Neg.	30.0%	23.8%	29.4%	66.7%	68.0%
Total Steel Packaging	Neg.	1.5%	5.5%	23.9%	53.8%	56.5%	61.0%	57.1%
Aluminum Packaging								
Beer and Soft Drink Cans	Neg.	10.0%	36.5%	63.9%	56.6%	58.4%	59.5%	53.9%
Other Cans	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Foil and Closures	Neg.	Neg.	Neg.	6.1%	8.6%	8.3%	8.3%	8.1%
Total Aluminum Pkg	Neg.	1.8%	25.2%	53.2%	47.0%	47.9%	48.5%	43.9%
Paper & Paperboard Pkg								
Corrugated Boxes	34.4%	21.6%	37.4%	48.0%	64.2%	66.7%	67.1%	70.3%
Milk Cartons**			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Folding Cartons**			Neg.	Neg.	20.3%	15.8%	6.8%	7.0%
Other Paperboard Packaging			Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Bags and Sacks**			Neg.	Neg.	17.2%	12.8%	15.5%	17.3%
Wrapping Papers**			Neg.	Neg.	Neg.	Neg.		
Other Paper Packaging	7.5%	9.2%	35.3%	Neg.	Neg.	Neg.	Neg.	Neg.
Total Paper & Board Pkg	19.4%	14.5%	27.4%	36.9%	52.3%	53.3%	52.8%	55.2%
Plastics Packaging								
Soft Drink Bottles**			3.8%	32.6%	46.2%	40.0%	35.5%	35.4%
Milk Bottles**			Neg.	3.8%	30.6%	30.8%	31.3%	31.4%
Other Containers	Neg.	Neg.	Neg.	1.4%	12.7%	14.8%	13.0%	10.7%
Bags and Sacks**			Neg.	3.2%	3.3%	3.7%	2.6%	0.7%
Wraps**			Neg.	2.0%	2.3%	2.7%	2.3%	6.1%
Other Plastics Packaging	Neg.	Neg.	Neg.	1.0%	0.9%	1.3%	1.8%	2.7%
Total Plastics Packaging	Neg.	Neg.	Neg.	3.8%	9.8%	9.8%	8.7%	9.7%
Wood Packaging	Neg.	Neg.	Neg.	1.6%	7.3%	7.6%	8.4%	9.8%
Other Misc. Packaging	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Containers & Pkg	10.5%	7.7%	16.1%	26.0%	39.1%	39.9%	38.9%	40.0%
Total Product Wastes†	10.3%	9.6%	13.3%	19.8%	28.9%	29.7%	28.9%	29.3%
Other Wastes								
Food Wastes	Neg.	Neg.	Neg.	Neg.	2.6%	2.4%	2.6%	2.6%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	30.3%	37.2%	41.4%	45.3%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	7.2%	17.5%	20.6%	22.8%	24.7%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.2%	26.0%	27.4%	27.4%	28.2%

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

** Not estimated separately prior to 1980. Paper wraps not reported separately after 1996.

† Other than food products.

Details may not add to totals due to rounding.

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

Table 22
PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON CONTAINERS AND PACKAGING)
(In thousands of tons)

	Thousands of Tons							
Products	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 14)	9,570	13,720	20,440	26,350	26,130	26,360	27,560	28,630
Nondurable Goods (Detail in Table 17)	14,940	21,330	29,750	43,370	43,640	41,960	45,260	45,990
Containers and Packaging								
Glass Packaging								
Beer and Soft Drink Bottles	1,310	5,440	6,010	3,750	3,450	3,420	3,410	3,670
Wine and Liquor Bottles	1,070	1,890	2,430	1,820	1,320	1,460	1,380	1,290
Food and Other Bottles & Jars	3,710	4,440	4,780	3,640	3,620	2,930	2,900	2,860
Total Glass Packaging	6,090	11,770	13,220	9,210	8,390	7,810	7,690	7,820
Steel Packaging								
Beer and Soft Drink Cans	630	1,550	470	110	Neg.	Neg.	Neg.	Neg.
Food and Other Cans	3,740	3,480	2,700	1,950	1,180	1,180	1,130	1,180
Other Steel Packaging	260	270	240	140	160	120	80	80
Total Steel Packaging	4,630	5,300	3,410	2,200	1,340	1,300	1,210	1,260
Aluminum Packaging								
Beer and Soft Drink Cans	Neg.	90	540	560	690	640	620	710
Other Cans	Neg.	60	40	20	40	40	50	50
Foil and Closures	170	410	380	310	320	330	330	340
Total Aluminum Pkg	170	560	950	890	1,050	1,010	1,000	1,100
Paper & Paperboard Pkg								
Corrugated Boxes	4,810	10,000	10,690	12,480	10,320	9,660	9,730	8,840
Milk Cartons**			790	510	510	460	460	470
Folding Cartons**			3,300	3,960	4,230	4,540	5,040	5,160
Other Paperboard Packaging	3,840	4,830	230	290	260	230	240	230
Bags and Sacks**			3,380	2,240	1,640	1,700	1,580	1,390
Wrapping Papers**			200	110	70	50		
Other Paper Packaging	2,720	3,460	550	1,020	1,150	1,260	1,230	1,420
Total Paper & Board Pkg	11,370	18,290	19,140	20,610	18,180	17,900	18,280	17,510
Plastics Packaging								
Soft Drink Bottles**			250	290	350	420	490	530
Milk Bottles**			230	510	430	450	460	480
Other Containers	60	910	890	1,410	1,030	1,090	1,340	2,080
Bags and Sacks**			390	910	1,160	1,310	1,480	1,470
Wraps**			840	1,500	1,670	1,810	2,080	1,860
Other Plastics Packaging	60	1,180	790	2,020	2,200	2,270	2,760	2,510
Total Plastics Packaging	120	2,090	3,390	6,640	6,840	7,350	8,610	8,930
Wood Packaging	2,000	2,070	3,940	8,050	5,720	5,990	6,440	6,590
Other Misc. Packaging	120	130	130	150	150	150	190	220
Total Containers & Pkg	24,500	40,210	44,180	47,750	41,670	41,510	43,420	43,430
Total Product Wastes†	49,010	75,260	94,370	117,470	111,440	109,830	116,240	118,050
Other Wastes								
Food Wastes	12,200	12,800	13,000	20,800	21,170	21,330	21,330	21,550
Yard Trimmings	20,000	23,200	27,500	30,800	20,690	17,530	16,240	15,170
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,150	3,200	3,250	3,290
Total Other Wastes	33,500	37,780	42,750	54,500	45,010	42,060	40,820	40,010
Total MSW Discarded - Weight	82,510	113,040	137,120	171,970	156,450	151,890	157,060	158,060

* Discards after materials and compost recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

** Not estimated separately prior to 1980. Paper wraps not reported separately after 1996.

† Other than food products.

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

Table 23
PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 1998
(WITH DETAIL ON CONTAINERS AND PACKAGING)
(In percent of total discards)

Products	Percent of Total Discards							
	1960	1970	1980	1990	1995	1996	1997	1998
Durable Goods (Detail in Table 14)	11.6%	12.1%	14.9%	15.3%	16.7%	17.4%	17.5%	18.1%
Nondurable Goods (Detail in Table 17)	18.1%	18.9%	21.7%	25.2%	27.9%	27.6%	28.8%	29.1%
Containers and Packaging								
Glass Packaging								
Beer and Soft Drink Bottles	1.6%	4.8%	4.4%	2.2%	2.2%	2.3%	2.2%	2.3%
Wine and Liquor Bottles	1.3%	1.7%	1.8%	1.1%	0.8%	1.0%	0.9%	0.8%
Food and Other Bottles & Jars	4.5%	3.9%	3.5%	2.1%	2.3%	1.9%	1.8%	1.8%
Total Glass Packaging	7.4%	10.4%	9.6%	5.4%	5.4%	5.1%	4.9%	4.9%
Steel Packaging								
Beer and Soft Drink Cans	0.8%	1.4%	0.3%	0.1%	Neg.	Neg.	Neg.	Neg.
Food and Other Cans	4.5%	3.1%	2.0%	1.1%	0.8%	0.8%	0.7%	0.7%
Other Steel Packaging	0.3%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Total Steel Packaging	5.6%	4.7%	2.5%	1.3%	0.9%	0.9%	0.8%	0.8%
Aluminum Packaging								
Beer and Soft Drink Cans	Neg.	0.1%	0.4%	0.3%	0.4%	0.4%	0.4%	0.4%
Other Cans	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%
Total Aluminum Pkg	0.2%	0.5%	0.7%	0.5%	0.7%	0.7%	0.6%	0.7%
Paper & Paperboard Pkg								
Corrugated Boxes	5.8%	8.8%	7.8%	7.3%	6.6%	6.4%	6.2%	5.6%
Milk Cartons**			0.6%	0.3%	0.3%	0.3%	0.3%	0.3%
Folding Cartons**			2.4%	2.3%	2.7%	3.0%	3.2%	3.3%
Other Paperboard Packaging	4.7%	4.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%
Bags and Sacks**			2.5%	1.3%	1.0%	1.1%	1.0%	0.9%
Wrapping Papers**			0.1%	0.1%	0.0%	0.0%		
Other Paper Packaging	3.3%	3.1%	0.4%	0.6%	0.7%	0.8%	0.8%	0.9%
Total Paper & Board Pkg	13.8%	16.2%	14.0%	12.0%	11.6%	11.8%	11.6%	11.1%
Plastics Packaging								
Soft Drink Bottles**			0.2%	0.2%	0.2%	0.3%	0.3%	0.3%
Milk Bottles**			0.2%	0.3%	0.3%	0.3%	0.3%	0.3%
Other Containers	0.1%	0.8%	0.6%	0.8%	0.7%	0.7%	0.9%	1.3%
Bags and Sacks**			0.3%	0.5%	0.7%	0.9%	0.9%	0.9%
Wraps**			0.6%	0.9%	1.1%	1.2%	1.3%	1.2%
Other Plastics Packaging	0.1%	1.0%	0.6%	1.2%	1.4%	1.5%	1.8%	1.6%
Total Plastics Packaging	0.1%	1.8%	2.5%	3.9%	4.4%	4.8%	5.5%	5.6%
Wood Packaging	2.4%	1.8%	2.9%	4.7%	3.7%	3.9%	4.1%	4.2%
Other Misc. Packaging	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Total Containers & Pkg	29.7%	35.6%	32.2%	27.8%	26.6%	27.3%	27.6%	27.5%
Total Product Wastes†	59.4%	66.6%	68.8%	68.3%	71.2%	72.3%	74.0%	74.7%
Other Wastes								
Food Wastes	14.8%	11.3%	9.5%	12.1%	13.5%	14.0%	13.6%	13.6%
Yard Trimmings	24.2%	20.5%	20.1%	17.9%	13.2%	11.5%	10.3%	9.6%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.1%	2.1%
Total Other Wastes	40.6%	33.4%	31.2%	31.7%	28.8%	27.7%	26.0%	25.3%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Discards after materials and compost recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

** Not estimated separately prior to 1980. Paper wraps not reported separately after 1996.

† Other than food products.

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

Figure 2. Paper and paperboard products generated in MSW, 1998

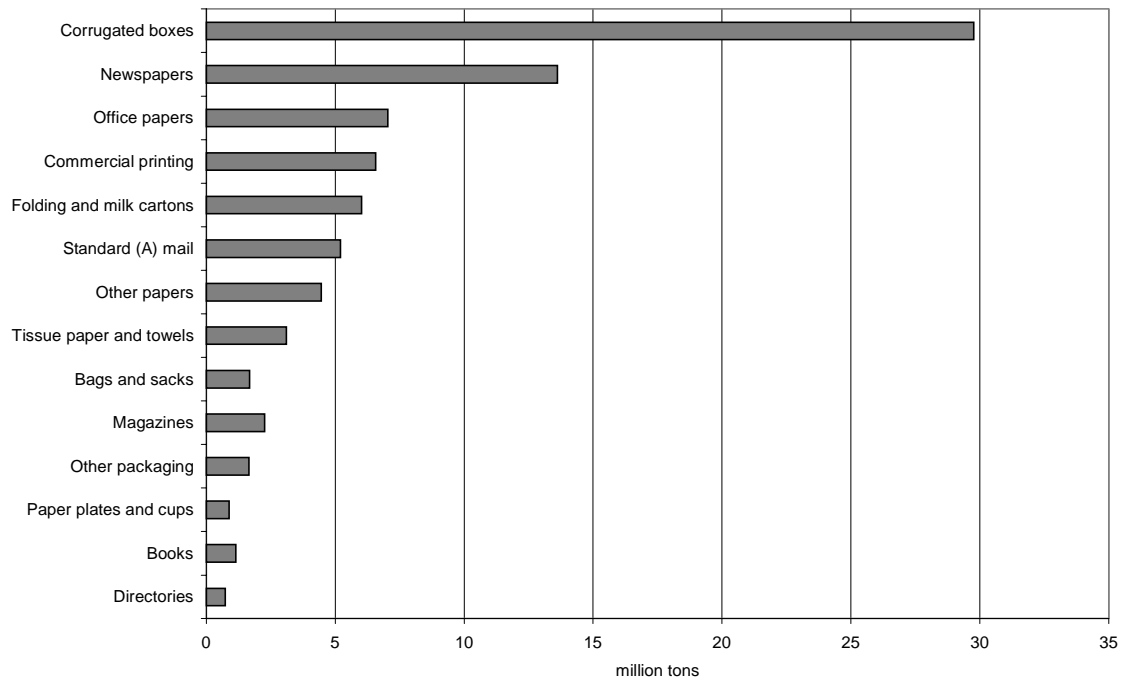


Figure 3. Paper generation and recovery, 1960 to 1998

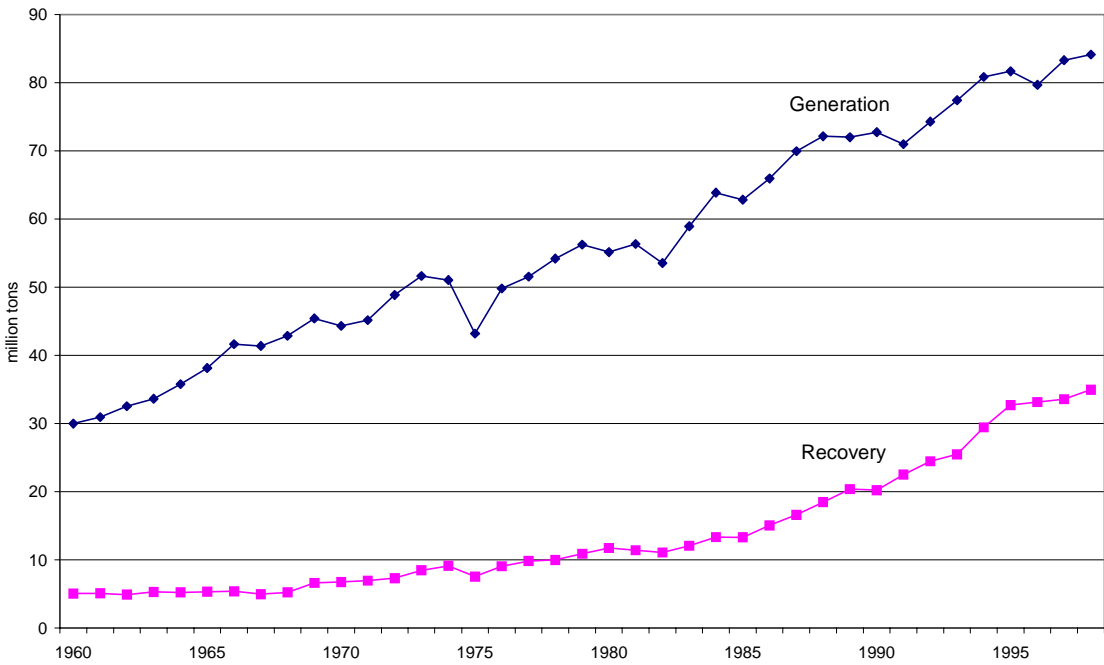


Figure 4. Glass products generated in MSW, 1998

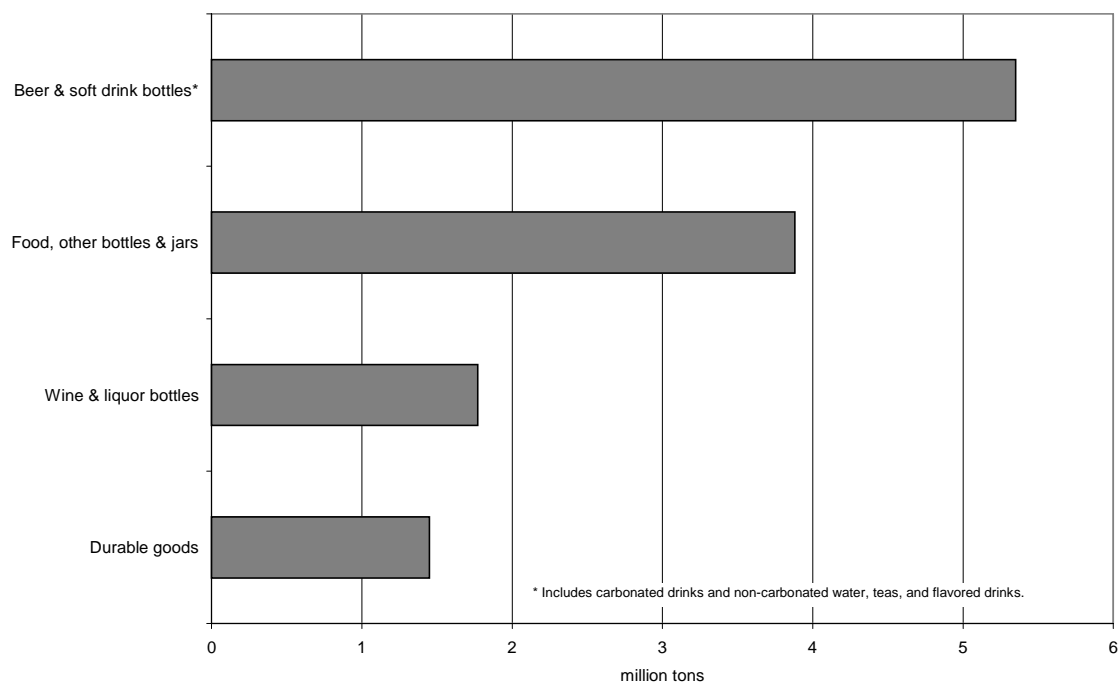


Figure 5. Glass generation and recovery, 1960 to 1998

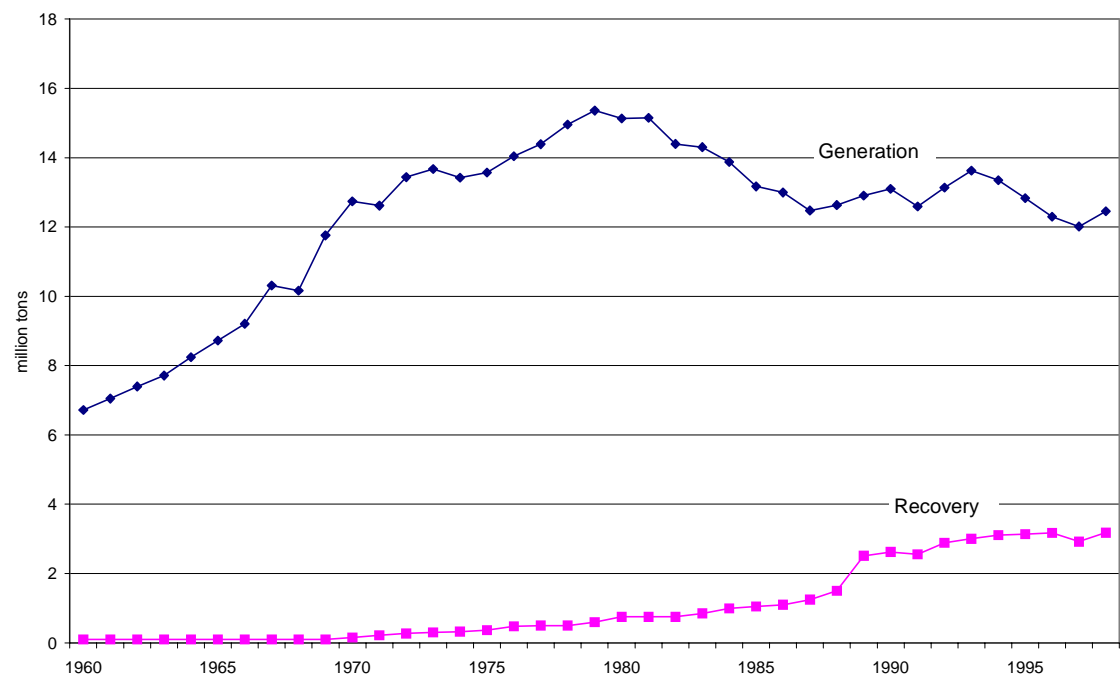


Figure 6. Metal products generated in MSW, 1998

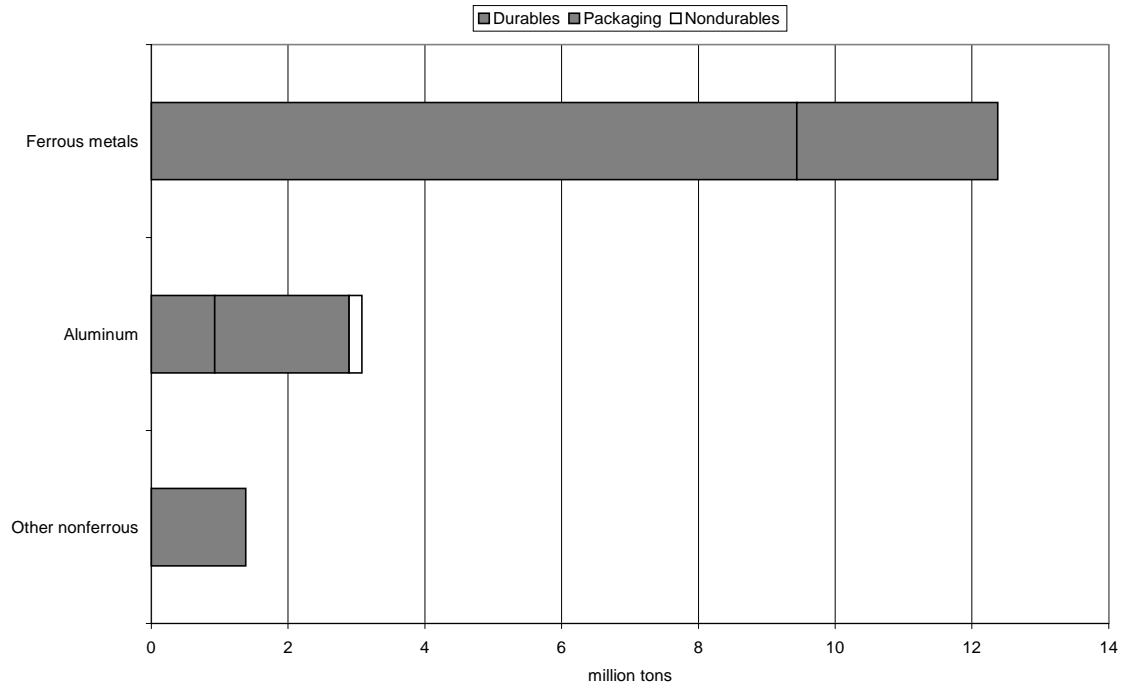


Figure 7. Metals generation and recovery, 1960 to 1998

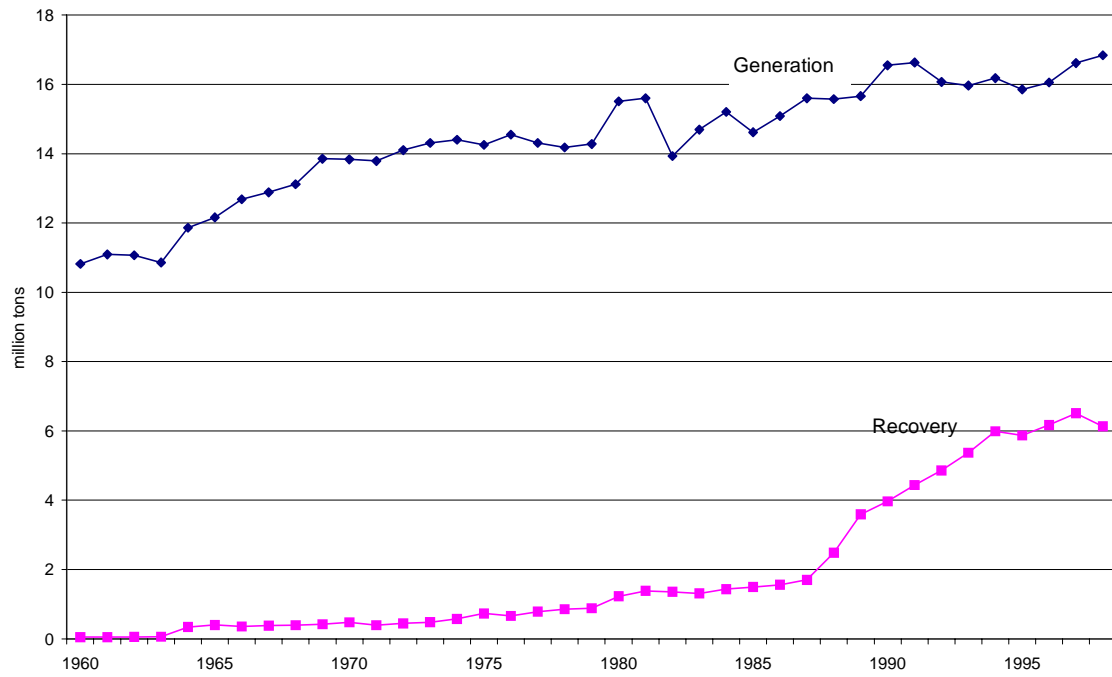


Figure 11. Recovery and discards of MSW,* 1960 to 1998

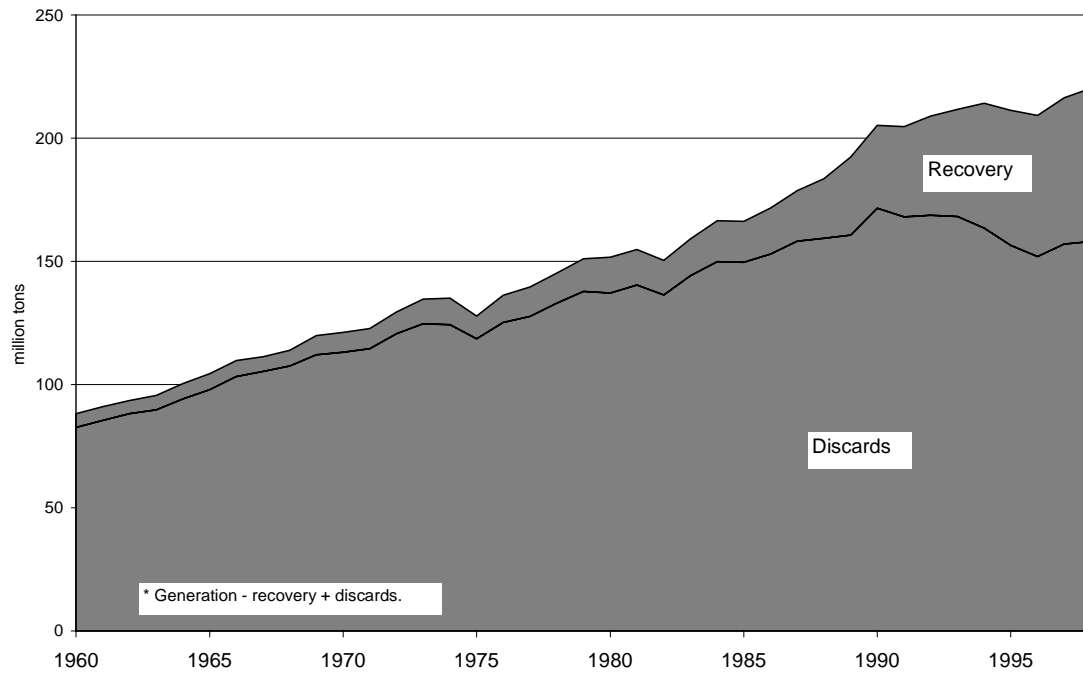
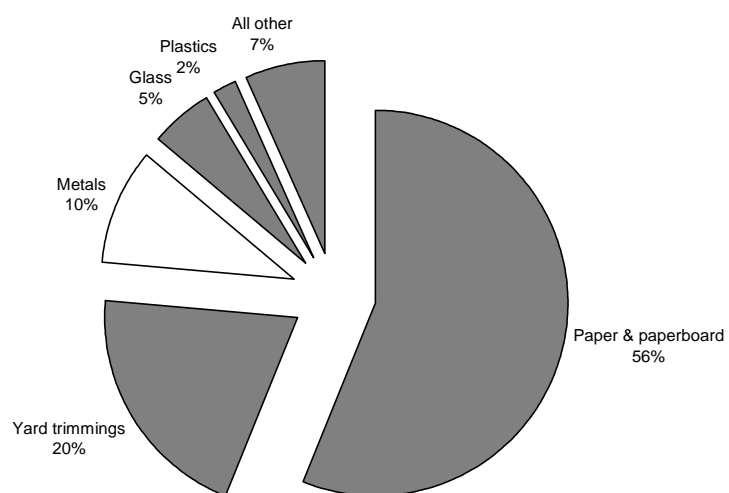


Figure 12. Materials recovery,* 1998



* In percent by weight of total recovery

**Figure 13. Materials generated and discarded
in municipal solid waste, 1998
(In percent of total generation and discards)**

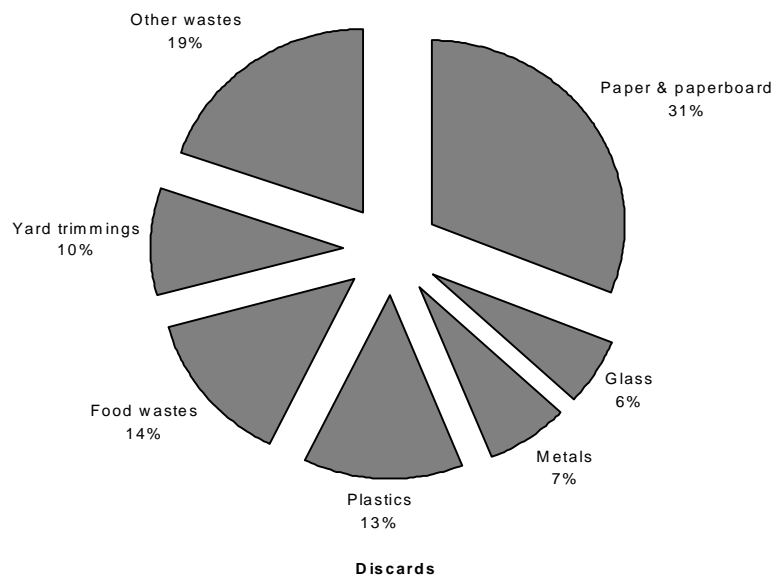
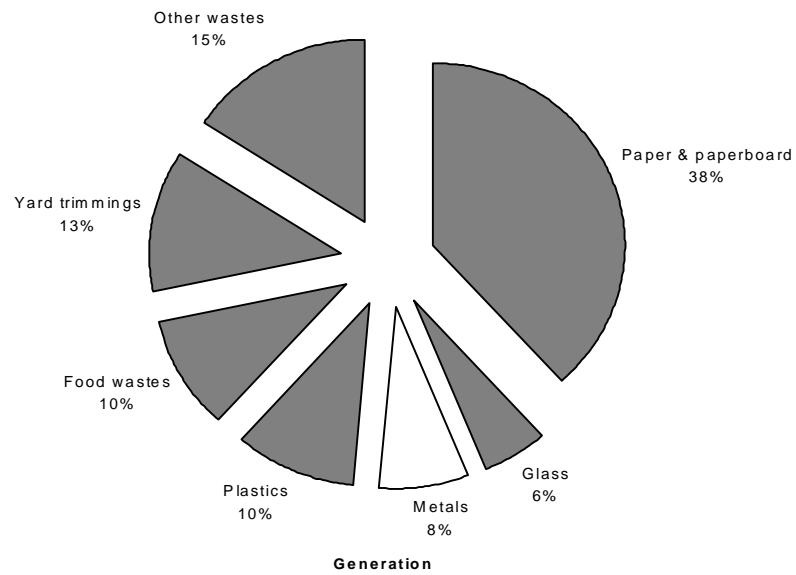
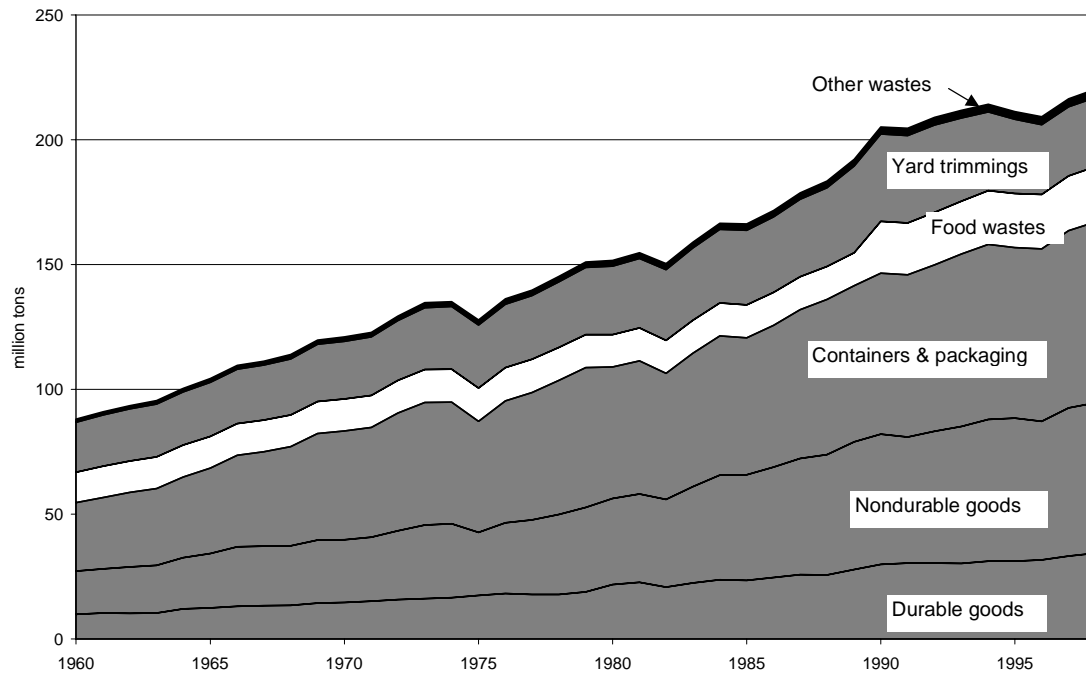
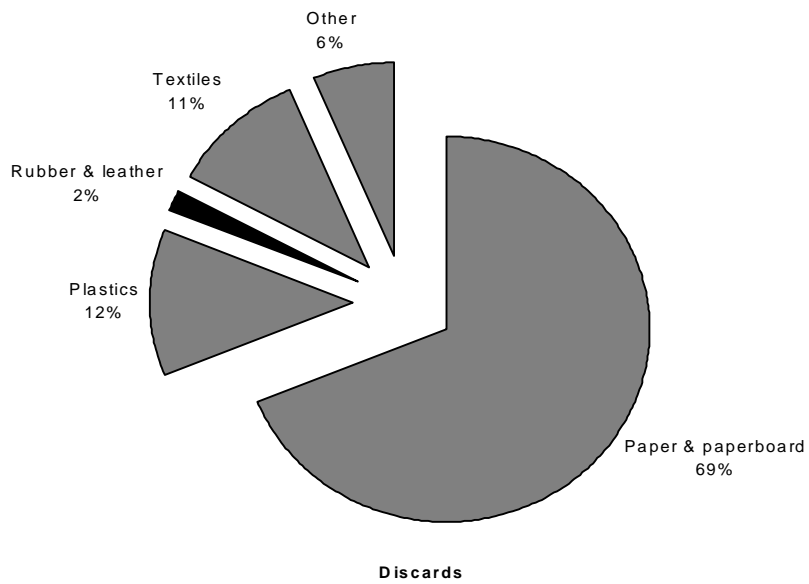
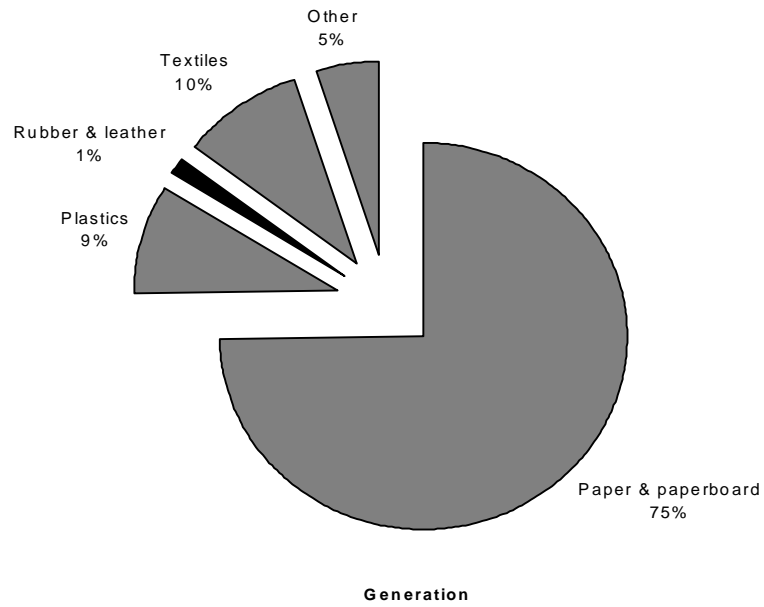


Figure 14. Generation of products in MSW, 1960 to 1998



**Figure 15. Nondurable goods generated and discarded
in municipal solid waste, 1998
(In percent of total generation and discards)**



**Figure 16. Containers and packaging generated and discarded
in municipal solid waste, 1998
(In percent of total generation and discards)**

