US ERA ARCHIVE DOCUMENT

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

December 2011



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 | ids 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 Generation of Each Material | | | | | | | | | |
| 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)

| | | Thousands of Tons | | | | | | | | |
|--------------------------------|--------|-------------------|---------|---------|-----------|------------|---------|---------|---------|---------|
| 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 |
| | | | | Pei | cent of T | otal Disca | ırds | | | |
| 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 | | | | | | | | | | |
| 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% |
| | 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.

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. | 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 | Reco | very | Discards |
|--------------------------------------|-------------------------|------------|-----------|----------|-----------|
| | | (Thousand | (Thousand | (Percent | (Thousand |
| Product Category | | tons) | tons) | of Gen.) | tons) |
| Durable Goods | | | | | |
| PET | | 160 | | | |
| HDPE | | 1,170 | | | |
| PVC | | 240 | | | |
| LDPE/LI | LDPE | 2,000 | | | |
| PP | | 4,070 | | | |
| PS | | 580 | | | |
| Other res | ins | 2,740 | | | |
| Total Plastics in Durable | | 10,960 | 700 | 6.4% | 10,260 |
| Nondurable Goods | | | | | |
| Plastic Plates and Cups [§] | | | | | |
| LDPE/LI | LDPE | 20 | | | 20 |
| PLA | | 10 | | | 10 |
| PP | | 140 | | | 140 |
| PS | | 720 | | | 720 |
| | Plastic Plates and Cups | 890 | Neg. | Neg. | 890 |
| Trash Bags | | | | | |
| HDPE | | 230 | | | 230 |
| LDPE/L1 | LDPE | 750 | | | 750 |
| Subtotal | Trash Bags | 980 | | | 980 |
| All other nondurables* | | | | | |
| PET | | 440 | | | 440 |
| HDPE | | 510 | | | 510 |
| PVC | | 270 | | | 270 |
| LDPE/LI | LDPE | 1,180 | | | 1,180 |
| PLA | | 30 | | | |
| PP | | 1,290 | | | 1,290 |
| PS | | 210 | | | 210 |
| Other res | ins | 600 | | | 600 |
| Subtotal | All Other Nondurables | 4,530 | | | 4,530 |
| Total Plastics in Nondura | able Goods, by resin | | | | |
| PET | | 440 | | | 440 |
| HDPE | | 740 | | | 740 |
| PVC | | 270 | | | 270 |
| LDPE/LI | LDPE | 1,950 | | | 1,950 |
| PLA | | 40 | | | -, |
| PP | | 1,430 | | | 1,430 |
| PS | | 930 | | | 930 |
| Other res | ins | 600 | | | 600 |
| Total Plastics in Nondura | | 6,400 | Neg. | Neg. | 6,400 |
| | | -, | | - 1.5 | -, |
| lastic Containers & Packag | ing | | | | |
| Bottles and Jars** | | 2.670 | 700 | 20.207 | 1 000 |
| PET | | 2,670 | 780 | 29.2% | 1,890 |
| Natural Bottles† | | | | | |
| HDPE | | 800 | 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 | Recov | | 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. | 16.16 | 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 | | 400 | |
| LDPE/LLDPE | 3,480 | 420 | 12.1% | 3,060 | |
| PLA | 10 | 40 | 2.00 | 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 | |
| IIDDE - High donaity malvothyd | DET D-1- 4 | vlama taman lati1-4 | DC _ D-14 | | |
| HDPE = High density polyethylene LDPE = Low density polyethylene | PLA = Polylact | ylene terephthalate | PS = Polystyre PVC = Polyvi | | |
| LDI L = Low delisity polyculyielle | FLA = Polylaci | iuc | F V C = POLYVI | nyi cinoride | |

| 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)

| | | | 1 | 1 | | ds of Ton | 1 | | | |
|--------------------------------|--------|---------|---------|---------|------------|------------|---------|---------|---------|---------|
| 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 |
| | | | | Per | cent of To | otal Gener | ration | | | |
| 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 | | | | | | 1 | | | | |
| 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)

| | | Thousands of Tons | | | | | | | | |
|--------------------------------|-------|-------------------|--------|-----------|------------|-----------|----------|--------|--------|--------|
| 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 | 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 | | | | | | | | | 0.50 | |
| 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)

| Products | 1960 | 1970 | 1980 | 1990 | 1housan | ds of Ton 2005 | s 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 |
| | | | | Pe | rcent of T | otal Disca | ards | | | |
| 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) | | | | | | | | | | |
| 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% |

^{*} 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)

Thousands of Tons **Products** 1960 1970 1980 1990 2000 2005 2007 2008 2009 2010 **Durable Goods** 1,630 2.170 2,950 3,310 3.640 3.610 3.620 3.690 3.760 4.020 Major Appliances Small Appliances** 1,040 460 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 820 1.490 1,510 2,280 2,750 2,820 2,940 2,960 3,190 Neg. Miscellaneous Durables 3,320 Selected Consumer Electronics*** 1.900 2.630 3.010 3.160 3.190 17,490 Other Miscellaneous Durables 14,500 17,680 17,470 17,240 17,210 16,400 20,310 20,480 20,400 20,400 20,810 Total Miscellaneous Durables 5,020 6,950 9,880 12,470 **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 52,170 63,650 61,760 34.420 64,010 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** 12,800 31,990 34,760 Food Scraps 12,200 13.000 23.860 29.810 32.610 33,340 34,290 Yard Trimmings 20,000 23,200 27,500 35,000 30,530 32,070 32,630 32,900 33,200 33,400 2,250 3,500 3,750 Miscellaneous Inorganic Wastes 1,300 1,780 2,900 3,690 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** 1970 2000 2005 2007 **Products** 1960 1980 1990 2008 2009 2010 **Durable Goods** 1.8% 1.6% 1.5% 1.4% 1.4% 1.5% 1.5% 1.6% Major Appliances 1.8% 1.9% 0.6% 0.7% 0.6% Small Appliances** 0.2% 0.4% 0.5% 0.5% 4.3% 4.3% Furniture and Furnishings 2.4% 2.3% 3.1% 3.3% 3.3% 3.7% 3.9% 4.1% 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 0.7% 1.0% 0.7% 0.9% 1.3% Neg. 1.1% 1.1% 1.2% 1.2% 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% 8.0% 8.4% 6.5% 8.0% 8.1% 8.3% Total Miscellaneous Durables 5.7% 5.7% 6.0% 6.8% 17.8% 18.1% 18.7% 19.5% Total Durable Goods 11.3% 12.1% 14.4% 14.3% 16.0% 19.6% 22.7% 25.0% Nondurable Goods 19.7% 20.7% 26.4% 25.2% 24.2% 23.3% 21.9% 21.3% (Detail in Table 15) **Containers and Packaging** 36.0% 34.7% 31.0% 31.3% 30.1% 29.3% 30.3% 31.1% 30.2% 30.7% (Detail in Table 19) Total Product Wastest 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%

31.2%

28.2%

100.0%

29.7%

100.0% 100.0%

26.3%

38.0%

Total Other Wastes

Neg. = Less than 5,000 tons or 0.05 percent. Source: Franklin Associates, A Division of ERG 26.8%

100.0%

27.0%

100.0%

27.9%

100.0%

29.3%

100.0%

28.8%

100.0%

** Not estimated separately prior to 1990.

Total MSW Generated - %

^{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.

^{**} 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 | 1000 | | | | | | | | | |
| Major Appliances | 10 | 50 | 130 | 1,070 | 2,000 | 2,420 | 2,430 | 2,470 | 2,510 | 2,610 |
| Small Appliances** | | | | 10 | 20 | 20 | 20 | 110 | 110 | 110 |
| Furniture and Furnishings | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | 10 | 10 | 10 |
| Carpets and Rugs** | - 3 | - 3 | - 3 | 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 | Neg. | 620 | 1,040 | 1,470 | 2,130 | 2,640 | 2,700 | 2,820 | 2,840 | 3,070 |
| Miscellaneous Durables | | | 1,010 | ., | _, | , | , | , | , | |
| Selected Consumer Electronics*** | | | | | 190 | 360 | 550 | 560 | 600 | 650 |
| Other Miscellaneous Durables | | | | | 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) | 2,000 | 0,7.00 | .,0.0 | 0,000 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | .0, | 20,070 | .0,0.0 | . 0,000 | 10,100 |
| 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) | 2,070 | 0,000 | 0, 100 | 10,700 | 20,070 | 01,000 | 00,000 | 01,000 | 01,210 | 00,700 |
| 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 | 0,010 | 0,020 | 14,020 | 20,040 | 50,010 | 00,000 | 00,100 | 01,720 | 01,000 | 04,070 |
| 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 |
| rotar movi riecovereu - weight | 3,010 | 0,020 | | | | | | | 02,200 | 00,140 |
| D 1 1 | 1000 | 4070 | | | | | Product | | 2000 | 2010 |
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 0.00/ | 0.00/ | 4.40/ | 00.00/ | F 4 00/ | 07.00/ | 07.40/ | 00.00/ | CC 00/ | C4 00/ |
| 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** | 00 50/ | 40.00/ | F F0/ | 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 | | | | | 10.00/ | 40.70/ | 10.00/ | 47.70/ | 10.00/ | 10.00/ |
| Selected Consumer Electronics*** | | | | | 10.0% | 13.7% | 18.3% | 17.7% | 18.8% | 19.6% |
| Other Miscellaneous Durables | 0.00/ | 0.00/ | 0.40/ | 0.00/ | 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% 13.6% | 11.6% | 16.9% | 17.9% | 17.8% 34.0% | 17.8% | 17.7% 35.3% | 18.5% 36.1% |
| Nondurable Goods | 13.8% | 14.9% | 13.5% | 16.9% | 27.4% | 31.1% | 34.0% | 32.9% | JJ.5% | 30.1% |
| (Detail in Table 16) | 10 F9/ | 7 70/ | 16 10/ | 26.00/ | 20 10/ | 41 20/ | 42 20/ | 4E 00/ | 40 00/ | 10 E0/ |
| 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) | 10.29/ | 0.69/ | 12 20/ | 10 00/ | 29.7% | 22 10/ | 22 00/ | 24.00/ | 25 70/ | 26 E0/ |
| Total Product Wastes† Other Wastes | 10.3% | 9.6% | 13.3% | 19.8% | 29.1% | 32.1% | 33.9% | 34.0% | 35.7% | 36.5% |
| Food Scraps | N1 | N1 | NI | NI: | 0.00/ | 0.00/ | 0 F0/ | 0.40/ | 0.50/ | 0.00/ |
| roou ocraps | Neg. | Neg. | Neg. | Neg. | 2.3% | 2.2% 61.9% | 2.5% 64.1% | 2.4% 64.7% | 2.5% 59.9% | 2.8% |
| Vard Trimmings | | | | | | | D/I 1 1/- | | 74 4% | 57.5% |
| Yard Trimmings | Neg. | Neg. | Neg. | 12.0% | 51.7% | | | | | |
| Yard Trimmings Miscellaneous Inorganic Wastes <i>Total Other Wastes</i> | Neg. Neg. Neg. | Neg. Neg. Neg. | Neg. Neg. Neg. | Neg. 6.8% | Neg. 25.8% | Neg. 30.3% | Neg. 31.5% | Neg. 31.6% | Neg. 29.1% | Neg. 28.0% |

^{*} 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 | ivog. | 200 | 400 | 10 | 100 | 110 | 120 | 120 | 120 | 120 |
| 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 |
| | E 010 | 6 020 | 0.040 | 10.000 | - | | 1 | | | |
| 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 | Percent of | f Total Dis | cards | | | |
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | | | | | | • | • | • | • | |
| 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** | | | 0.0,0 | 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 | ivog. | 0.270 | 0.070 | 0.070 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |
| Selected Consumer Electronics*** | | | | | 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% |
| | 0.40/ | 0.10/ | 7.00/ | 0.00/ | | | | | | |
| 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) | 00 70 | 05.007 | 00.007 | 07.00 | 07.101 | 05.00/ | 00 151 | 04.001 | 00.001 | 00.007 |
| 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 | | | | | | | | | | |
| 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% |

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) | 0,020 | 11,000 | 21,000 | 20,010 | 00,000 | 11,000 | 10,200 | 10,000 | 17,000 | 10,000 |
| Nondurable Goods | | | | 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†** | 7,110 | 0,010 | 11,000 | 610 | 680 | 660 | 760 | 840 | 650 | - |
| Other Paper Nondurable Goods | | | | 0.0 | 000 | 000 | 700 | 010 | 000 | |
| Books and Magazines | 1,920 | 2,470 | 3,390 | | | | | | | |
| Books** | 1,320 | 2,470 | 0,000 | 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§ | 1,520 | 2,000 | 4,000 | 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 | 2,700 | 3,030 | 4,230 | 3,040 | 4,230 | 4,430 | 4,200 | 4,000 | 4,420 | 23,690 |
| Disposable Diapers | Noa | 350 | 1,930 | 2,700 | 3,230 | 3,410 | 3,730 | 3,770 | 3,810 | 3,740 |
| Plastic Plates and Cups§ | Neg. | 330 | 1,930 | 650 | 870 | 930 | 860 | 780 | 900 | 890 |
| Trash Bags** | | | 190 | 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** | 1,300 | 1,020 | 2,170 | 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) | 27,370 | 43,300 | 32,070 | 04,550 | 75,640 | 70,330 | 70,370 | 75,700 | 71,320 | 75,040 |
| 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 |
| Other wastes | 33,300 | 31,100 | 42,730 | 01,700 | 03,040 | | 00,990 | | | |
| Total MSW Congrated - Weight | 88 120 | 121 060 | 151 640 | 208 270 | 242 540 | 252 660 | 255 380 | 251 360 | 243 650 | 240 860 |
| Total MSW Generated - Weight | 88,120 | 121,060 | 151,640 | 208,270 | 242,540 | 252,660 | 255,380 | 251,360 | 243,650 | 249,860 |
| | | | | Perc | ent of To | al Genera | tion | | | |
| Products | 1960 | 1970 | 1980 | Perc 1990 | ent of To | al Genera 2005 | tion 2007 | 2008 | 2009 | 2010 |
| Products Durable Goods | | | | Perc | ent of To | al Genera | tion | | | |
| Products Durable Goods (Detail in Table 12) | 1960 | 1970 | 1980 | Perc 1990 | ent of To | al Genera 2005 | tion 2007 | 2008 | 2009 | 2010 |
| Products Durable Goods (Detail in Table 12) Nondurable Goods | 1960 11.3% | 1970 12.1% | 1980 14.4% | Perc 1990 14.3% | 2000 16.0% | 2005 17.8% | 2007 18.1% | 2008 18.7% | 2009 19.5% | 2010 19.6% |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† | 1960 | 1970 | 1980 | Pero 1990 14.3% | 2000 16.0% | 2005 17.8% | 2007 18.1% | 2008 18.7% 3.5% | 2009 19.5% | 2010 |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** | 1960 11.3% | 1970 12.1% | 1980 14.4% | Perc 1990 14.3% | 2000 16.0% | 2005 17.8% | 2007 18.1% | 2008 18.7% | 2009 19.5% | 2010 19.6% |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods | 1960 11.3% 8.1% | 1970 12.1% 7.9% | 1980 14.4% 7.3% | Pero 1990 14.3% | 2000 16.0% | 2005 17.8% | 2007 18.1% | 2008 18.7% 3.5% | 2009 19.5% | 2010 19.6% |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines | 1960 11.3% | 1970 12.1% | 1980 14.4% | Perc 1990 14.3% 6.4% 0.3% | 2000 16.0% 6.1% 0.3% | 2005 17.8% 5.1% 0.3% | 2007 18.1% 4.2% 0.3% | 2008 18.7% 3.5% 0.3% | 2009 19.5% 3.2% 0.3% | 2010 19.6% 4.0% |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** | 1960 11.3% 8.1% | 1970 12.1% 7.9% | 1980 14.4% 7.3% | Perc 1990 14.3% 6.4% 0.3% 0.5% | 2000 16.0% 6.1% 0.3% | 2005 17.8% 5.1% 0.3% | 2007 18.1% 4.2% 0.3% | 2008 18.7% 3.5% 0.3% 0.5% | 2009 19.5% 3.2% 0.3% 0.4% | 2010 19.6% 4.0% - |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** | 1960 11.3% 8.1% 2.2% | 1970 12.1% 7.9% 2.0% | 1980 14.4% 7.3% 2.2% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% | 6.1% 0.3% 0.5% 0.9% | 2005 17.8% 5.1% 0.3% 0.4% 1.0% | 2007 18.1% 4.2% 0.3% 0.5% 1.0% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% | 2010 19.6% 4.0% - 0.4% 0.6% |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** | 1960 11.3% 8.1% | 1970 12.1% 7.9% | 1980 14.4% 7.3% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% | 6.1% 0.3% 0.5% 0.9% 3.1% | 2005 17.8% 5.1% 0.3% 0.4% 1.0% 2.6% | 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% |
| Products Durable Goods (Detail in Table 12) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ | 1960 11.3% 8.1% 2.2% | 1970 12.1% 7.9% 2.0% | 7.3% 2.2% 2.6% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% | 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% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% |
| Products Durable Goods (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† | 1960 11.3% 8.1% 2.2% 1.7% | 1970 12.1% 7.9% 2.0% 2.2% | 1980 14.4% 7.3% 2.2% 2.6% 2.1% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% | ent of To' 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% | Section Sect | 100 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% | 7.3% 2.2% 2.6% 2.1% 1.5% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 2.1% 1.4% | 6.1% 0.3% 0.5% 0.9% 3.1% 3.0% 1.3% | 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% | 100 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.4% 1.4% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% | 7.3% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 1.4% 0.3% | 6.1% 0.5% 0.9% 0.4% | 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% 2.4% 1.4% 0.5% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 1.4% 0.5% | 2009 19.5% 3.2% 0.3% 0.6% 2.2% 1.9% 1.4% 0.5% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.1% 0.5% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% | 7.3% 2.2% 2.6% 2.1% 1.5% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 2.1% 1.4% | 6.1% 0.3% 0.5% 0.9% 3.1% 3.0% 1.3% | 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% | 100 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.4% 1.4% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 0.5% 1.7% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% | 1970 12.1% 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% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 0.3% | ent of To' 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 1.8% | 2005 17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 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% 1.7% | 2008 18.7% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 9.5% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% | 7.3% 2.2% 2.6% 2.1% 1.5% 2.8% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 1.8% 2.1% 1.8% 1.8% 1.3% | ent of To 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.3% | 2005 17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% | 15% 15% 15% 15% 1.7% 1.5% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 1.5% |
| Products Durable Goods (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§ | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% | 1970 12.1% 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% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.8% 1.8% 0.3% 1.3% 0.3% | ent of To' 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 0.4% | 17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% | 150n 2007 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% | 2008 18.7% 3.5% 0.3% 0.5% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.3% | 2009 19.5% 3.2% 0.3% 0.6% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 9.5% |
| Products Durable Goods (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** | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. | 1970 12.1% 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% 1.3% 0.1% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 1.8% 1.8% 1.8% 0.3% 1.8% 1.3% 0.4% 0.4% | ent of To' 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 1.3% 0.4% 1.8% | 2005 17.8% 5.1% 0.3% 0.4% 1.0% 2.6% 2.3% 1.4% 0.5% 1.8% | 150n 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 0.5% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% | 2008 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% | 2009 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% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.79% 9.5% 1.5% 0.4% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% | 7.3% 2.2% 2.6% 2.1% 1.5% 2.8% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 0.3% 1.8% 1.3% 0.4% 1.9% | ent of To' 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 1.3% 0.4% 1.8% 1.3% 0.4% 2.7% | 5.1% 0.3% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 3.1% | 100 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% | 2008 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% | 2009 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% 3.7% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 0.5% 1.7% 9.5% 1.5% 0.4% 3.6% |
| Products Durable Goods (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** | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% | 1980 14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 1.8% 1.8% 0.3% 1.8% 0.3% 1.8% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% | ent of To' 2000 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% | 5.1% 0.4% 1.0% 2.6% 2.5% 1.4% 0.5% 1.8% | 100 2007 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% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.2% 2.0% 1.4% 0.5% 1.8% 0.4% 3.5% 0.5% | 2009 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% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.1% 0.5% 1.7% 9.5% 0.4% 0.4% 0.4% 0.5% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% | 1980 14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 0.3% 1.8% 1.3% 0.3% 0.3% 1.3% 0.3% 0.4% 1.9% 0.3% 1.6% | ent of To 2000 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% 0.4% 0.3% | 2005 17.8% 17.8% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 0.4% 0.4% 0.4% 0.4% | 1500 2007 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% | 2008 18.7% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.3% 0.4% 3.5% 0.5% 1.7% | 2009 19.5% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 0.5% 1.6% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.5% 0.4% 3.6% 0.5% 1.5% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 0.3% 1.3% 0.2% 20.7% | 1980 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% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 1.8% 2.1% 1.8% 0.3% 0.4% 1.9% 0.3% 1.6% 25.0% | ent of To' 2000 16.0% 6.1% 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 0.4% 0.4% 2.7% 0.3% 0.4% 0.17% 26.4% | 17.8% 17.8% 17.8% 17.8% 17.8% 1.0% 1.0% 1.0% 1.0% 1.3% 1.4% 1.3% 1.4% 1.3% 1.4% 1.4% 1.7% 1.4% 1.7% 1.5% 1.7% 1.5% 1.7% | 1500 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.5% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 3.3% 0.4% 3.3% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.5% 0.3% 0.4% 3.5% 0.4% 3.5% 0.5% 1.7% 23.3% | 2009 19.5% 3.2% 0.3% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 3.7% 0.5% 1.6% 2.1.9% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.5% 0.4% 3.6% 0.5% 1.5% 2.13% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% | 1980 14.4% 7.3% 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 0.3% 1.8% 1.3% 0.3% 0.3% 1.3% 0.3% 0.4% 1.9% 0.3% 1.6% | ent of To 2000 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% 0.4% 0.3% | 2005 17.8% 17.8% 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 0.4% 0.4% 0.4% 0.4% | 1500 2007 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% | 2008 18.7% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 0.3% 0.4% 3.5% 0.5% 1.7% | 2009 19.5% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 0.5% 1.6% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.5% 0.4% 3.6% 0.5% 1.5% 2.13% |
| Products Durable Goods (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) | 1960 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% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7% 36.0% | 1980 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% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 3.1% 1.8% 0.3% 1.8% 0.4% 1.9% 0.3% 1.6% 25.0% 31.0% | ent of To 2000 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% 0.3% | 17.8% 17.8% 17.8% 17.8% 17.8% 1.0% 1.0% 1.0% 1.0% 1.4% 1.4% 1.4% 1.4% 1.4% 1.7% 1.8% 1.25.2% 1.4% 1.7% 1.25.2% 1.2% | 1500 2007 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% 3.3% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.0% 1.4% 0.5% 1.8% 0.4% 3.5% 0.4% 3.5% 0.3% 0.4% 3.5% 3.5% 3.5% 3.7% | 2009 19.5% 3.2% 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 0.5% 1.6% 0.4% 0.5% 1.6% 0.4% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2.2% 2 | 2010 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% 2.1.3% 3.6% 3.6% 3.0.3% |
| Products Durable Goods (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 | 1960 11.3% 8.1% 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% | 1970 12.1% 7.9% 2.0% 2.2% 1.8% 1.7% 0.3% 0.3% 1.3% 0.2% 20.7% | 1980 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% | Perc 1990 14.3% 6.4% 0.3% 0.5% 1.4% 1.8% 2.1% 1.8% 0.3% 0.4% 1.9% 0.3% 1.6% 25.0% | ent of To 2000 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% 0.4% 2.7% 0.4% 2.7% 0.3% 0.4% 2.7% 0.3% | 17.8% 17.8% 17.8% 17.8% 17.8% 1.0% 1.0% 1.0% 1.0% 1.3% 1.4% 1.3% 1.4% 1.3% 1.4% 1.4% 1.7% 1.4% 1.7% 1.5% 1.7% 1.5% 1.7% | 1500 2007 18.1% 4.2% 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.5% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 3.3% 0.4% 3.3% | 2008 18.7% 3.5% 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.5% 0.3% 0.4% 3.5% 0.4% 3.5% 0.5% 1.7% 23.3% | 2009 19.5% 3.2% 0.3% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 3.7% 0.5% 1.6% 2.1.9% | 2010 19.6% 4.0% - 0.4% 0.6% 2.1% 1.7% 1.0% 1.5% 0.5% 0.4% 3.6% 0.5% 1.5% |

Detailed data not available.

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

^{*} 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.

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. | 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 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% | 6.4% 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. 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% | 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. 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% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. Neg. Neg. 13.9% 17.1% Neg. 27.4% 38.1% | 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. 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. 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% | 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% 79.3% 18.4% 28.3% 39.6% 71.0% 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.

Table 17

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

(In thousands of tons and percent of total discards)

| | | | | | Thousand | 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) | 0,0.0 | .0,720 | 20, | 20,000 | 02,270 | 00,000 | 00,000 | 00,000 | 00,100 | .0,000 |
| Nondurable Goods | | L | | | | | l | | | |
| Newspapers/Mechanical Papers† | 5,290 | 7,260 | 8,030 | 8,320 | 6,070 | 3,430 | 2,230 | 1,060 | 920 | 2,810 |
| Directories†** | 0,200 | 7,200 | 0,000 | 560 | 560 | 540 | 620 | 660 | 410 | - |
| Other Paper Nondurable Goods | | | | 000 | 000 | 0.0 | 020 | 000 | | |
| Books and Magazines | 1,820 | 2,210 | 3,110 | | | | | | | |
| Books** | 1,020 | 2,210 | 0,110 | 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§ | 1,270 | 1,010 | 0,100 | 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 | _, | -, | ., | -, | ., | ., | ., | ., | ., .20 | 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§ | riog. | 000 | 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** | .,5.0 | .,550 | _,,, | 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) | , | , | , | , | , | , | , | , | , | |
| 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 |
| | ŕ | | , | | | otal Disca | | , | , | |
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 11.6% | 12.1% | 14.9% | 45 40/ | 18.6% | 21.4% | 22.3% | 23.0% | 24.3% | 24.3% |
| | | 12.1/0 | 14.9% | 15.1% | 10.076 | | | 23.0% | 24.3 /0 | 24.070 |
| (Detail in Table 14) | | 12.176 | 14.9% | 15.1% | 10.076 | 21.170 | 22.070 | 23.0% | 24.3 /6 | 24.576 |
| (Detail in Table 14) Nondurable Goods | | 12.176 | 14.9% | 15.1% | 10.076 | 21.170 | 22.070 | 23.0% | 24.3 /6 | 24.576 |
| | 6.4% | 6.4% | 5.9% | 4.8% | 3.5% | 2.0% | 1.3% | 0.6% | 0.6% | 1.7% |
| Nondurable Goods | | <u> </u> | | | | | | | | |
| Nondurable Goods Newspapers/Mechanical Papers† | | <u> </u> | | 4.8% | 3.5% | 2.0% | 1.3% | 0.6% | 0.6% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** | | <u> </u> | | 4.8% | 3.5% | 2.0% | 1.3% | 0.6% | 0.6% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods | 6.4% | 6.4% | 5.9% | 4.8% | 3.5% | 2.0% | 1.3% | 0.6% | 0.6% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines | 6.4% | 6.4% | 5.9% | 4.8% 0.3% | 3.5% 0.3% | 2.0% 0.3% | 1.3% 0.4% | 0.6% 0.4% | 0.6% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** | 6.4% | 6.4% | 5.9% | 4.8% 0.3% 0.5% | 3.5% 0.3% 0.6% | 2.0% 0.3% 0.5% | 1.3% 0.4% 0.5% | 0.6% 0.4% 0.6% | 0.6% 0.3% 0.4% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** | 6.4% | 6.4% | 5.9% | 4.8% 0.3% 0.5% 1.4% | 3.5% 0.3% 0.6% 0.9% | 2.0% 0.3% 0.5% 0.9% | 1.3% 0.4% 0.5% 0.9% | 0.6% 0.4% 0.6% 0.7% | 0.6% 0.3% 0.4% 0.4% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** | 6.4% | 6.4% | 5.9% | 4.8% 0.3% 0.5% 1.4% 2.7% | 3.5% 0.3% 0.6% 0.9% 1.9% | 2.0% 0.3% 0.5% 0.9% 1.5% | 1.3% 0.4% 0.5% 0.9% 1.0% | 0.6% 0.4% 0.6% 0.7% 1.1% | 0.6% 0.3% 0.4% 0.4% 0.9% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ | 6.4% 2.2% 1.5% | 6.4% | 5.9% 2.3% 2.3% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% | |
| Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† | 6.4% 2.2% 1.5% 1.4% | 6.4% 2.0% 1.7% 1.6% | 5.9% 2.3% 2.3% 2.0% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.9% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% | |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% | 6.4% 2.0% 1.7% 1.6% 1.8% | 5.9% 2.3% 2.3% 2.0% 1.7% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.9% 2.0% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% | |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% | 6.4% 2.0% 1.7% 1.6% 1.8% 0.4% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.9% 2.0% 0.7% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% 0.7% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% | |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% | 6.4% 2.0% 1.7% 1.6% 1.8% 0.4% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.9% 2.0% 0.7% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% 0.7% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% | 1.7% - - - - - - - |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% | 1.7% 1.6% 1.8% 0.4% 3.1% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% 2.2% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% 2.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 2.0% 0.7% 2.6% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% 0.7% 2.5% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% | 1.7% 7.9% |
| 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** | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% | 1.7% 1.6% 1.8% 0.4% 3.1% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 2.1% 0.4% 2.2% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 0.6% 2.5% 1.9% 0.5% 0.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 2.0% 0.5% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% 0.7% 2.5% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% | 1.7% |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% | 1.7% 1.6% 1.8% 0.4% 3.1% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 1.7% 0.4% 2.2% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% 2.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 2.0% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% 0.7% 2.5% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% | 1.7% 2.3% |
| 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** | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. | 1.7% 1.6% 1.8% 0.4% 3.1% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% 2.2% 1.5% 0.4% 0.4% 0.4% 0.3% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 0.6% 2.5% 1.9% 0.5% 0.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 2.0% 0.5% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 0.7% 2.5% 2.2% 0.5% 0.6% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 0.7% 2.1% 0.7% 2.8% 2.3% 0.5% 0.6% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% | 1.7% |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. | 1.7% 1.6% 1.8% 0.4% 3.1% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 0.4% 2.2% 1.5% 0.4% 2.0% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 0.6% 2.5% 1.9% 0.5% 0.5% 3.2% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 2.0% 0.5% 0.6% 3.8% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 0.7% 2.5% 2.2% 0.5% 0.6% 4.1% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% 2.3% 0.5% 0.6% 4.5% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% 2.4% 0.6% 4.9% | 1.7% |
| 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** | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. | 1.7% 1.6% 1.8% 0.4% 3.1% 1.4% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% 2.2% 1.5% 0.4% 0.4% 0.4% 0.3% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% 2.5% 1.9% 0.5% 0.5% 0.5% 0.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 0.5% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.1% 2.5% 0.5% 4.1% 0.5% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% 0.5% 0.6% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% 2.4% 0.6% 4.9% 0.6% | 1.7% |
| 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 | 6.4% 2.2% 1.5% 1.4% 0.3% 3.2% Neg. 1.6% 0.1% | 1.7% 1.6% 1.8% 0.4% 3.1% 1.4% 0.2% | 5.9% 2.3% 2.3% 2.0% 1.7% 3.1% 1.4% 0.1% 1.5% 1.7% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 1.7% 0.4% 0.4% 0.4% 0.4% 0.3% 1.9% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% 2.5% 1.9% 0.5% 0.5% 0.5% 0.4% 2.3% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 0.5% 0.6% 3.8% 0.5% 2.5% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.1% 2.5% 0.5% 0.6% 4.1% 0.5% 2.4% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% 0.5% 0.6% 4.5% 0.6% 2.5% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.6% 0.6% 4.9% 0.6% 4.9% | 1.7% |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. 1.6% 0.1% 18.1% | 1.7% 1.6% 1.8% 0.4% 0.3% 1.4% 0.2% 18.9% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% 1.5% 1.7% 21.7% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 0.4% 2.2% 1.5% 0.4% 0.4% 0.4% 2.0% 0.3% 1.9% 24.8% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% 2.5% 1.9% 0.5% 0.5% 0.5% 0.4% 2.3% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 0.5% 0.6% 3.8% 0.5% 2.5% 2.5% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.5% 2.5% 0.5% 0.6% 4.1% 0.5% 2.4% 23.9% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.5% 0.6% 4.5% 0.6% 4.5% 2.5% 23.5% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% 2.4% 0.6% 0.6% 4.9% 0.6% 2.5% 21.4% | 1.7% |
| 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 | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. 1.6% 0.1% 18.1% | 1.7% 1.6% 1.8% 0.4% 0.3% 1.4% 0.2% 18.9% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% 1.5% 1.7% 21.7% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 0.4% 2.2% 1.5% 0.4% 0.4% 0.4% 2.0% 0.3% 1.9% 24.8% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 1.9% 0.6% 2.5% 1.9% 0.5% 0.5% 0.5% 0.4% 2.3% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 0.5% 0.6% 3.8% 0.5% 2.5% 2.5% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 2.5% 2.5% 0.5% 0.6% 4.1% 0.5% 2.4% 23.9% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.5% 0.6% 4.5% 0.6% 4.5% 2.5% 23.5% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% 2.4% 0.6% 0.6% 4.9% 0.6% 2.5% 21.4% | 1.7% |
| 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 23) | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. 1.6% 0.1% 18.1% 29.7% | 1.7% 1.6% 1.8% 0.4% 3.1% 0.3% 1.4% 0.2% 18.9% 35.6% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% 1.5% 21.7% 32.2% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 0.4% 2.2% 1.5% 0.4% 0.4% 2.0% 0.3% 1.9% 24.8% 27.3% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 0.6% 2.5% 1.9% 0.5% 0.5% 0.5% 3.2% 0.4% 2.3% 2.3% 2.3% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 0.7% 2.6% 0.5% 0.6% 3.8% 0.5% 2.5% 25.9% | 1.3% 0.4% 0.9% 1.0% 2.1% 2.7% 2.5% 2.2% 0.5% 0.6% 4.1% 0.5% 2.4% 23.9% 26.1% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 1.7% 2.1% 0.7% 2.8% 0.6% 4.5% 0.6% 2.5% 23.5% 24.9% | 0.6% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.7% 2.7% 2.4% 0.6% 4.9% 0.6% 2.5% 21.4% 23.0% | 1.7% 0.5% 0.5% |

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.

[§] Plastic 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)

| Cans Other Steel Packaging Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 20 30 30 00 80 110 90 40 60 60 60 | 1970 14,660 25,060 5,580 1,900 4,440 11,920 1,570 3,540 270 5,380 | 1980 21,800 34,420 6,740 2,450 4,780 13,970 520 2,850 240 3,610 | 1990 29,810 52,170 5,640 2,030 4,160 11,830 150 2,540 | 2000 38,850 64,010 5,710 1,910 3,420 11,040 Neg. | 2005 44,930 63,650 6,540 1,630 2,290 10,460 | 2007 46,260 61,760 6,760 1,620 2,030 10,410 | 2008 46,950 58,690 6,350 1,610 2,090 10,050 | 2009 47,580 53,440 6,000 1,710 1,950 | 2010 49,080 53,140 5,670 1,700 |
|--|---|---|---|---|---|---|---|---|---|--|
| (Detail in Table 12) Nondurable Goods (Detail in Table 15) 17,3 (Detail in Table 15) 17,3 (Detail in Table 15) Containers and Packaging Glass Packaging 1,4 Wine and Liquor Bottles 1,0 Other Bottles & Jars 3,7 1,4 Glass Packaging | 30 00 80 10 90 40 60 60 60 eg. | 14,660 25,060 5,580 1,900 4,440 11,920 1,570 3,540 270 5,380 | 34,420 6,740 2,450 4,780 13,970 520 2,850 240 | 52,170 5,640 2,030 4,160 11,830 | 5,710 1,910 3,420 11,040 | 63,650 6,540 1,630 2,290 | 61,760 6,760 1,620 2,030 | 58,690 6,350 1,610 2,090 | 53,440 6,000 1,710 | 53,140 5,670 1,700 |
| Nondurable Goods (Detail in Table 15) Containers and Packaging Glass Packaging Beer and Soft Drink Bottles** Wine and Liquor Bottles Other Bottles & Jars Total Glass Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Nother Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paper Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 000 80 110 990 440 660 660 660 eg. | 5,580 1,900 4,440 11,920 1,570 3,540 270 5,380 | 6,740 2,450 4,780 13,970 520 2,850 240 | 5,640 2,030 4,160 11,830 | 5,710 1,910 3,420 11,040 | 6,540 1,630 2,290 | 6,760 1,620 2,030 | 6,350 1,610 2,090 | 6,000 1,710 | 5,670 1,700 |
| Containers and Packaging Glass Packaging Beer and Soft Drink Bottles** 1,0 Other Bottles & Jars 3,7 Total Glass Packaging Beer and Soft Drink Cans 6,1 Cans 3,7 Other Steel Packaging 4,6 Aluminum Packaging 2,7 Total Steel Packaging 4,6 Aluminum Packaging 4,6 Aluminum Packaging 5,0 Beer and Soft Drink Cans N. Other Cans N. Other Cans N. Foil and Closures 1 Total Aluminum Packaging 1 Paper & Paperboard Pkg Corrugated Boxes 7,3 Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paper Packaging 3,8 Bags and Sacks Wrapping Papers Other Paper Packaging 2,9 Subtotal Other Paper & Paperboard Pkg | 000 80 110 990 440 660 660 660 eg. | 5,580 1,900 4,440 11,920 1,570 3,540 270 5,380 | 6,740 2,450 4,780 13,970 520 2,850 240 | 5,640 2,030 4,160 11,830 | 5,710 1,910 3,420 11,040 | 6,540 1,630 2,290 | 6,760 1,620 2,030 | 6,350 1,610 2,090 | 6,000 1,710 | 5,670 1,700 |
| Containers and Packaging Glass Packaging Beer and Soft Drink Bottles** 1,4 Wine and Liquor Bottles 1,0 Other Bottles & Jars 3,7 Total Glass Packaging 6,1 Steel Packaging Beer and Soft Drink Cans 6 Cans 3,7 Other Steel Packaging 2,0 Total Steel Packaging 4,6 Aluminum Packaging 4,6 Aluminum Packaging 8 Beer and Soft Drink Cans Nother Cans No | 80 10 90 40 60 60 60 eg. | 1,900 4,440 11,920 1,570 3,540 270 5,380 | 2,450 4,780 13,970 520 2,850 240 | 2,030 4,160 11,830 | 1,910 3,420 11,040 | 1,630 2,290 | 1,620 2,030 | 1,610 2,090 | 1,710 | 1,700 |
| Glass Packaging Beer and Soft Drink Bottles** Wine and Liquor Bottles Other Bottles & Jars Total Glass Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Nother Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 80 10 90 40 60 60 60 eg. | 1,900 4,440 11,920 1,570 3,540 270 5,380 | 2,450 4,780 13,970 520 2,850 240 | 2,030 4,160 11,830 | 1,910 3,420 11,040 | 1,630 2,290 | 1,620 2,030 | 1,610 2,090 | 1,710 | 1,700 |
| Beer and Soft Drink Bottles** Wine and Liquor Bottles Other Bottles & Jars Total Glass Packaging Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Other Cans Other Cans Other Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 80 10 90 40 60 60 60 eg. | 1,900 4,440 11,920 1,570 3,540 270 5,380 | 2,450 4,780 13,970 520 2,850 240 | 2,030 4,160 11,830 | 1,910 3,420 11,040 | 1,630 2,290 | 1,620 2,030 | 1,610 2,090 | 1,710 | 1,700 |
| Wine and Liquor Bottles Other Bottles & Jars 7 total Glass Packaging Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging 7 total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paper Backaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 80 10 90 40 60 60 60 eg. | 1,900 4,440 11,920 1,570 3,540 270 5,380 | 2,450 4,780 13,970 520 2,850 240 | 2,030 4,160 11,830 | 1,910 3,420 11,040 | 1,630 2,290 | 1,620 2,030 | 1,610 2,090 | 1,710 | 1,700 |
| Other Bottles & Jars Total Glass Packaging Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg Support Apperboard Packaging Subtotal Other Paper & Paperboard Pkg | 10 90 40 60 60 60 eg. | 4,440 11,920 1,570 3,540 270 5,380 | 4,780 13,970 520 2,850 240 | 4,160 11,830 150 | 3,420 11,040 | 2,290 | 2,030 | 2,090 | | |
| Total Glass Packaging Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 90 40 60 60 60 eg. | 11,920 1,570 3,540 270 5,380 | 13,970 520 2,850 240 | 11,830 150 | 11,040 | - | , | , | 1,950 | |
| Steel Packaging Beer and Soft Drink Cans Cans Other Steel Packaging Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 40 60 60 60 eg. | 1,570 3,540 270 5,380 | 520 2,850 240 | 150 | | 10,460 | 10,410 | 10 050 | | 1,990 |
| Beer and Soft Drink Cans Cans Cans Other Steel Packaging Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 60 60 60 eg. | 3,540 270 5,380 | 2,850 240 | | Neg. | | | 10,000 | 9,660 | 9,360 |
| Cans Other Steel Packaging Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 60 60 60 eg. | 3,540 270 5,380 | 2,850 240 | | Neg. | | | | | |
| Other Steel Packaging Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 60 60 eg. | 270 5,380 | 240 | 2,540 | | Neg. | Neg. | Neg. | Neg. | Neg. |
| Total Steel Packaging Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 60 eg. eg. | 5,380 | _ | | 2,630 | 2,130 | 2,430 | 2,240 | 1,880 | 2,300 |
| Aluminum Packaging Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | eg. eg. | | 3.610 | 200 | 240 | 240 | 240 | 240 | 360 | 440 |
| Beer and Soft Drink Cans Other Cans Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | g. | 100 | , | 2,890 | 2,870 | 2,370 | 2,670 | 2,480 | 2,240 | 2,740 |
| Other Cans Foil and Closures 1 Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | g. | 100 | | | | | | | | |
| Foil and Closures Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | _ | | 850 | 1,550 | 1,520 | 1,450 | 1,420 | 1,390 | 1,360 | 1,370 |
| Total Aluminum Packaging Paper & Paperboard Pkg Corrugated Boxes 7,3 Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging 3,8 Bags and Sacks Wrapping Papers Other Paper Packaging 2,9 Subtotal Other Paper & Paperboard Pkg | 70 | 60 | 40 | 20 | 50 | 80 | 30 | 70 | 60 | 70 |
| Paper & Paperboard Pkg Corrugated Boxes 7,3 Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging 3,8 Bags and Sacks Wrapping Papers Other Paper Packaging 2,9 Subtotal Other Paper & Paperboard Pkg | | 410 | 380 | 330 | 380 | 400 | 430 | 420 | 460 | 460 |
| Paper & Paperboard Pkg Corrugated Boxes 7,3 Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging 3,8 Bags and Sacks Wrapping Papers Other Paper Packaging 2,9 Subtotal Other Paper & Paperboard Pkg | 70 | 570 | 1,270 | 1,900 | 1,950 | 1,930 | 1,880 | 1,880 | 1,880 | 1,900 |
| Corrugated Boxes 7,3 Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging 3,8 Bags and Sacks Wrapping Papers Other Paper Packaging 2,9 Subtotal Other Paper & Paperboard Pkg | | | , - | , | , | , | , | , | , | , |
| Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 30 | 12,760 | 17.080 | 24,010 | 30,210 | 30,930 | 31,230 | 29,710 | 27,190 | 29,050 |
| Gable Top/Aseptic Cartons‡ Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | | 12,700 | ,000 | 2.,0.0 | 00,2.0 | 00,000 | 01,200 | 20,7.0 | | _0,000 |
| Folding Cartons Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | | | 790 | 510 | 550 | 500 | 500 | 490 | 460 | 540 |
| Other Paperboard Packaging Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | | | 3,820 | 4,300 | 5,820 | 5,530 | 5,530 | 5,340 | 4,980 | 5,470 |
| Bags and Sacks Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | 40 | 4,830 | 230 | 290 | 200 | 160 | 150 | 120 | 90 | 90 |
| Wrapping Papers Other Paper Packaging Subtotal Other Paper & Paperboard Pkg | | 1,000 | 3,380 | 2,440 | 1,490 | 1,120 | 1,140 | 1,170 | 910 | 1,040 |
| Other Paper Packaging 2,9 Subtotal Other Paper & Paperboard Pkg | | | 200 | 110 | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Subtotal Other Paper & Paperboard Pkg | 40 | 3,810 | 850 | 1,020 | 1,670 | 1,400 | 1,390 | 1,460 | 1,310 | 1,490 |
| , , | 10 | 0,010 | 000 | 1,020 | 1,070 | 1,400 | 1,000 | 1,400 | 1,010 | 8,630 |
| LOTS PAROL & ROSE UVA 11/11 | 10 | 21,400 | 26,350 | 32,680 | 39,940 | 39,640 | 39,940 | 38,290 | 34,940 | 37,680 |
| Total Paper & Board Pkg Plastics Packaging | 10 | 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 |
| | 60 | 910 | 890 | 1,430 | 1,740 | 1,420 | 1,910 | 1,900 | 1,750 | 1,830 |
| | 50 | 910 | | | - | - | - | | 660 | 770 |
| Bags and Sacks | | | 390 | 940 | 1,650 | 1,640 | 1,010 | 940 | | |
| Wraps | | | 840 | 1,530 | 2,550 | 2,810 | 3,180 | 3,020 | 3,190 | 3,160 |
| Subtotal Bags, Sacks, and Wraps | | 4 400 | 1,230 | 2,470 | 4,200 | 4,450 | 4,190 | 3,960 | 3,850 | 3,930 |
| 5 5 | 60 | 1,180 | 790 | 2,040 | 2,840 | 3,210 | 3,870 | 3,720 | 3,600 | 4,450 |
| 5 5 | 20 | 2,090 | 3,400 | 6,900 | 11,190 | 12,420 | 13,630 | 13,010 | 12,530 | 13,680 |
| Wood Packaging 2,0 | | 2,070 | 3,940 | 8,180 | 8,610 | 9,230 | 9,520 | 9,680 | 9,790 | 9,940 |
| | 20 | 130 | 130 | 150 | 240 | 280 | 320 | 310 | 280 | 340 |
| Total Containers & Pkg 27,3 | | 43,560 | 52,670 | 64,530 | 75,840 | 76,330 | 78,370 | 75,700 | 71,320 | 75,640 |
| Total Product Wastes† 54,6 | 20 | 83,280 | 108,890 | 146,510 | 178,700 | 184,910 | 186,390 | 181,340 | 172,340 | 177,860 |
| Other Wastes | 00 | 10.000 | 10.000 | 00.000 | 00.040 | 21.000 | 20.010 | 22.040 | 24.000 | 04.700 |
| Food Scraps 12,2 Yard Trimmings 20,0 | | 12,800 23,200 | 13,000 | 23,860 35,000 | 29,810 | 31,990 | 32,610 | 33,340 | 34,290 | 34,760 |
| Yard Trimmings 20,0 Miscellaneous Inorganic Wastes 1,3 | | 1,780 | 27,500 2,250 | 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 33,5 | | 37,780 | 42,750 | 61,760 | 63,840 | 67,750 | 68,990 | 70,020 | 71,310 | 72,000 |
| Total MSW Generated - Weight 88,1 | U | 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)

| | | | | Pero | 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) | 11.070 | 12.170 | 1 1.170 | 1 1.0 70 | 10.070 | 17.070 | 10.170 | 10.770 | 10.070 | 10.070 |
| 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 | | • | • | • | | • | • | • | • | |
| 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 | 0.070 | , | 2 | , | /0 | 0.070 | 1.070 | 11070 | 0.070 | ,0 |
| 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% | 0.2% | 0.2% | 0.8% | 0.7% | 0.7% | 0.8% | 0.8% |
| Paper & Paperboard Pkg | 0.276 | 0.576 | 0.076 | 0.576 | 0.076 | 0.076 | 0.7 76 | 0.7 76 | 0.076 | 0.076 |
| 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 | 0.576 | 10.576 | 11.576 | 11.576 | 12.570 | 12.2/0 | 12.2/0 | 12.2/0 | 11.2/0 | 11.076 |
| 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% |
| _ | 4.4% | 4.00/ | 0.2% | | | | | | | 0.0% |
| Other Paperboard Packaging | 4.4% | 4.0% | | 0.1% | 0.1% | 0.1% | 0.1% | 0.0% | 0.0% | |
| Bags and Sacks | | | 2.2% | 1.2% | 0.6% | 0.4% | 0.4% | 0.5% | 0.4% | 0.4% |
| Wrapping Papers | 0.00/ | 0.40/ | 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 | 10.00/ | 47.70/ | 47.40/ | 45.70/ | 10.50/ | 45.70/ | 45.00/ | 45.00/ | 4.4.00/ | 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 | | | | | | | | | | |
| 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% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% |
| Other Containers | 0.1% | 0.8% | 0.6% | 0.7% | 0.7% | 0.6% | 0.7% | 0.8% | 0.7% | 0.7% |
| Bags and Sacks | | | 0.3% | 0.5% | 0.7% | 0.6% | 0.4% | 0.4% | 0.3% | 0.3% |
| Wraps | | | 0.6% | 0.7% | 1.1% | 1.1% | 1.2% | 1.2% | 1.3% | 1.3% |
| Subtotal Bags, Sacks, and Wraps | | | 0.8% | 1.2% | 1.7% | 1.8% | 1.6% | 1.6% | 1.6% | 1.6% |
| Other Plastics Packaging | 0.1% | 1.0% | 0.5% | 1.0% | 1.2% | 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† | 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% |
| * Congration before materials recovery or combus | 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 Ton | 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 | | | | ., | | | | | | |
| 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 | _,0_0 | _,, 00 | 0,000 | ,000 | 20,000 | , | , | ,. 00 | , | ,000 |
| 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. | , vog. | riog. | riog. | i vog. | 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. | rveg. | iveg. | | 170 | 140 | 130 | 200 | 250 | 000 |
| 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 | Neg. | Neg. | 10 | 260 | 1,030 | 1,280 | 1,590 | 1,730 | 1,720 | 1,850 |
| Wood Packaging | _ | | | 130 | 1,370 | 1,830 | 2,020 | 2,110 | 2,200 | 2,300 |
| Other Misc. Packaging | Neg. | Neg. Neg. | Neg. | | | · · | | | 2,200 Neg. | |
| | Neg. | | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | | Neg. |
| Total Containers & Pkg Total Product Wastes† | 2,870 5,610 | 3,350 8,020 | 8,490 14,520 | 16,780 29,040 | 28,870 53,010 | 31,500 59,300 | 33,900 63,100 | 34,050 61,720 | 34,210 61,530 | 36,700 64,970 |
| Other Wastes | 3,010 | 0,020 | 17,520 | 20,040 | 30,010 | 33,300 | 00,100 | 01,720 | 01,000 | 07,570 |
| Food Scraps | Noc | Noc | Noc | Noc | 680 | 690 | 810 | 800 | 850 | 970 |
| Yard Trimmings | Neg. | Neg. | Neg. | Neg. | 15,770 | | | 21,300 | | 19,200 |
| Miscellaneous Inorganic Wastes | Neg. | Neg. | Neg. | 4,200 | · · | 19,860 | 20,900 | | 19,900 | 1 |
| G | 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.

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.

 $[\]ddagger$ 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 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) | 0.070 | | 0.2,0 | | | | | | , • | |
| 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) | | | | | , | | | 0_10,0 | | |
| Containers and Packaging | | J | | | | I | J | | I | ı |
| 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 | 11070 | 11070 | 0.170 | | 201170 | 2 70 | | 20.070 | 0,0 | 00.170 |
| 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 | rveg. | 1.070 | 0.070 | 20.570 | 00.070 | 00.070 | 04.070 | 04.070 | 00.070 | 00.070 |
| 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 | 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 | iveg. | 1.0 /6 | 25.2 /6 | JJ.Z /6 | 44.170 | 33.076 | 30.076 | 30.3 /6 | 30.7 /6 | 33.076 |
| 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 | 34.4 /0 | 21.0/6 | 37.470 | 40.0 /6 | 07.3/6 | 71.576 | 73.07 | 70.076 | 01.3/6 | 05.0 /6 |
| Gable Top/Aseptic Cartons‡ | | | Noa | Noa | Noa | Noa | Noa | Noa | 6.5% | |
| Folding Cartons | | | Neg. | Neg. | Neg. 7.0% | Neg. 21.5% | Neg. 28.0% | Neg. 35.2% | 50.0% | - |
| Other Paperboard Packaging | | | Neg. | Neg. | | | | | | - |
| | | | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Bags and Sacks | | | Neg. | Neg. | 20.1% | 28.6% | 36.8% | 37.6% | 49.5% | - |
| Wrapping Papers | 7.50/ | 0.00/ | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Other Paper Packaging | 7.5% | 9.2% | 35.3% | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - 0F 00/ |
| Subtotal Other Paper & Paperboard Pkg | 40.40/ | 4.4.50/ | 07.40/ | 00.00/ | FO 70/ | FO 00/ | 00 50/ | 05 50/ | 74.00/ | 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 | | | 0.00/ | 00.00/ | 00.10/ | 00.00/ | 0.4.00/ | 07.00/ | 00.00/ | 00.00/ |
| 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 | | | | | | | | | | |
| Wraps | | | | 0.40/ | 4.00/ | - aa/ | 0.407 | 2 22/ | | |
| 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 | | | | | | | | | | |
| 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.

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) | 3,570 | 10,720 | 20,440 | 20,000 | 02,270 | 00,000 | 00,000 | 00,000 | 00,100 | 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) | 14,540 | 21,000 | 23,730 | 40,070 | +0,+30 | +5,000 | 40,730 | 00,000 | 04,000 | 33,330 |
| | | | | | <u> </u> | <u> </u> | | | | <u> </u> |
| Containers and Packaging | | I | I | 1 | 1 | 1 | ı | 1 | 1 | 1 |
| Glass Packaging | 4 040 | F 440 | 0.040 | 0.750 | 4.400 | 4.540 | 4 400 | 4.000 | 0.000 | 0.000 |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | 3,380 | 2,240 | 1,190 | 800 | 720 | 730 | 460 | - |
| Wrapping Papers | | | 200 | 110 | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Other Paper Packaging | 2,720 | 3,460 | 550 | 1,020 | 1,670 | 1,400 | 1,390 | 1,460 | 1,310 | - |
| Subtotal Other Paper & Paperboard Pkg | | | | | | | | | | 6,470 |
| Total Paper & Board Pkg | 11,370 | 18,290 | 19,140 | 20,610 | 18,900 | 16,030 | 14,990 | 13,210 | 9,870 | 10,830 |
| Plastics Packaging | | | | | | | | | | |
| PET Bottles and Jars | | | 250 | 290 | 1,340 | 1,950 | 2,140 | 1,950 | 1,850 | 1,890 |
| HDPE Natural Bottles | | | 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 | | | | | | | | | | |
| Subtotal Bags, Sacks, and Wraps | | | 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 Total Product Wastes† | 24,500 49,010 | 40,210 75,260 | 44,180 94,370 | 47,750 117,470 | 46,970 125,690 | 44,830 125,610 | 44,470 123,290 | 41,660 119,630 | 37,110 110,810 | 38,940 112,890 |
| Other Wastes | 49,010 | 75,200 | 94,370 | 117,470 | 125,090 | 123,010 | 123,290 | 119,030 | 110,610 | 112,090 |
| Food Scraps | 12 200 | 12 000 | 13,000 | 22 060 | 20 120 | 21 200 | 21 000 | 32,540 | 33 440 | 33,790 |
| · · | 12,200 | 12,800 | , | 23,860 | 29,130 | 31,300 | 31,800 | - | 33,440 | |
| 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 |

^{*} 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 | | | | | | | | | | |
| 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% | 0.7% | 0.7% | 0.7% | 0.7% |
| Paper & Paperboard Pkg | 0.270 | 0.070 | 0.7 70 | 0.070 | 0.070 | 0.7 70 | 0.7 70 | 0.7 70 | 0.7 70 | 0.7 70 |
| 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 | 3.7 76 | J. 1 /6 | 7.070 | 7.170 | J.Z /6 | 2.076 |
| Gable Top/Aseptic Cartons‡ | | | 0.6% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | |
| Folding Cartons | | | 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% | - |
| Bags and Sacks | 4.7 70 | 4.3% | 2.5% | 1.3% | | 0.1% 0.5% | 0.1% | 0.1% | 0.1% | _ |
| • | | | 0.1% | | 0.7% | | | | | - |
| Wrapping Papers | 0.00/ | 0.40/ | | 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% | 0.00/ |
| Subtotal Other Paper & Paperboard Pkg | 10.00/ | 10.00/ | 14.00/ | 11.00/ | 10.00/ | 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 | | | 0.00/ | 0.00/ | 0.00/ | 4.40/ | 4.00/ | 4.00/ | 4.40/ | 4.40/ |
| PET Bottles and Jars | | | 0.2% | 0.2% | 0.8% | 1.1% | 1.3% | 1.2% | 1.1% | 1.1% |
| HDPE Natural Bottles | 0.40/ | 0.00/ | 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% |

^{*} 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 | Paperless purchase | Concentrates | Xeriscaping | | | |
| | appliances | orders | Container lightweighting | | | | |
| | Use of composites | | Cereal in bags | | | | |
| Materials substitution | in appliances and | | Coffee brick | | | | |
| | electronic circuitry | | Multi-use products | | | | |
| | High mileage tires | Regular servicing | Design for secondary | | | | |
| Lengthen life | Electronic components | Look at warranties | uses | | | | |
| | reduce moving parts | Extend warranties | | | | | |
| Consumer Practices | | | | | | | |
| | Purchase long lived | Repair | Purchasing: | | | | |
| | products | Duplexing | products in bulk, | | | | |
| | | Sharing | concentrates | | | | |
| | | Reduce unwanted | Reusable bags | | | | |
| | | mail | | | | | |
| Reuse | | | | • | | | |
| | Modular design | Envelopes | Reusable pallets | | | | |
| By design | | | Returnable secondary | | | | |
| | | | packaging | | | | |
| | Borrow or rent for | Clothing | Loosefill | | | | |
| | temporary use | Waste paper | Grocery sacks | | | | |
| Secondary | Give to charity | scratch pads | Dairy containers | | | | |
| · | Buy or sell at | | Glass and plastic jars | | | | |
| | garage sales | | | | | | |
| Reduce/Eliminate Toxins | | | | | | | |
| | Eliminate PCBs | Soy ink, waterbased | Replace lead foil on | | | | |
| | | Waterbased solvents | wine bottles | | | | |
| | | Reduce mercury | | | | | |
| 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 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

| Region | Number | Estimated Throughput (tpd) |
|------------|--------|----------------------------------|
| NORTHEAST | 153 | 27,186 |
| SOUTH | 195 | 24,754 |
| MIDWEST | 153 | 23,118 |
| WEST | 132 | 23,391 |
| U.S. Total | 633 | 98,449 |

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)

| | | | | Thousan | ds of Tons | | | | | |
|--|---------|---------------------------|---------|---------------|------------|---------|---------|---------|---------|---------|
| | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Generation | 88,120 | 121,060 | 151,640 | 208,270 | 242,540 | 252,660 | 255,380 | 251,360 | 243,650 | 249,860 |
| Recovery for recycling | 5,610 | 8,020 | 14,520 | 29,040 | 53,010 | 59,300 | 63,100 | 61,720 | 61,530 | 64,970 |
| Recovery for composting* | Neg. | Neg. | Neg. | 4,200 | 16,450 | 20,550 | 21,710 | 22,100 | 20,750 | 20,170 |
| 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 | 164,720 |
| Combustion with energy recovery** | 0 | 400 | 2,700 | 29,700 | 33,730 | 31,620 | 31,970 | 31,550 | 29,010 | 29,260 |
| Discards to landfill, | | | | | | | | | | |
| 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 | 2010 |
| Generation | 2.68 | 3.25 | 3.66 | 4.57 | 4.72 | 4.67 | 4.64 | 4.53 | 4.35 | 4.43 |
| 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 | 0.36 |
| Total Materials Recovery | 0.17 | 0.22 | 0.35 | 0.73 | 1.35 | 1.48 | 1.54 | 1.51 | 1.47 | 1.51 |
| Discards after recovery | 2.51 | 3.03 | 3.31 | 3.84 | 3.37 | 3.19 | 3.10 | 3.02 | 2.88 | 2.92 |
| Combustion with | | | | | | | | | | |
| energy recovery** | 0.00 | 0.01 | 0.07 | 0.65 | 0.66 | 0.58 | 0.58 | 0.57 | 0.52 | 0.52 |
| Discards to landfill, | | | | | | | | | | |
| other disposal† | 2.51 | 3.02 | 3.24 | 3.19 | 2.71 | 2.61 | 2.52 | 2.45 | 2.36 | 2.40 |
| Population (thousands) | 179,979 | 203,984 | 227,255 | 249,907 | 281,422 | 296,410 | 301,621 | 304,060 | 307,007 | 309,051 |
| | | | | Percent of To | | | | | | |
| | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Generation | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 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, 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

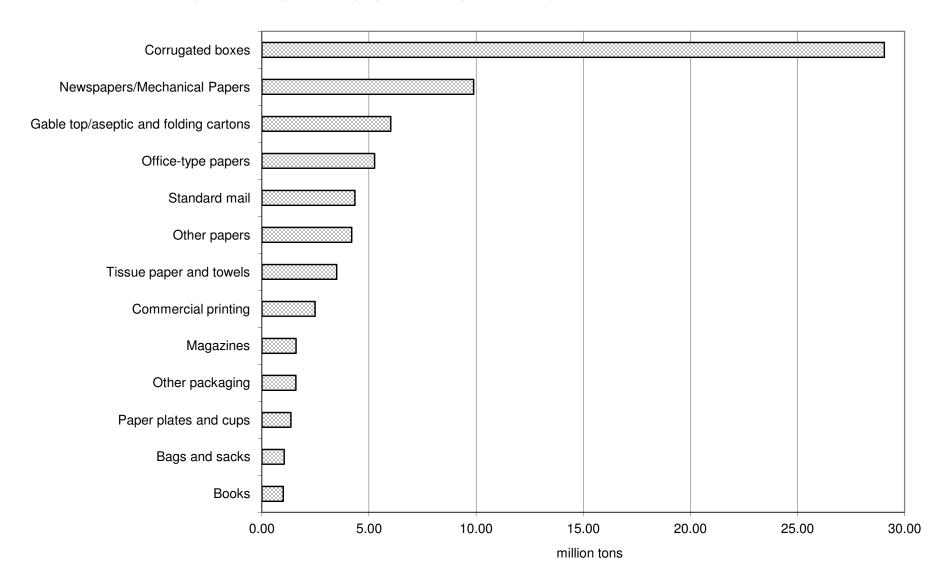


Figure 3. Paper and paperboard generation and recovery, 1960 to 2010

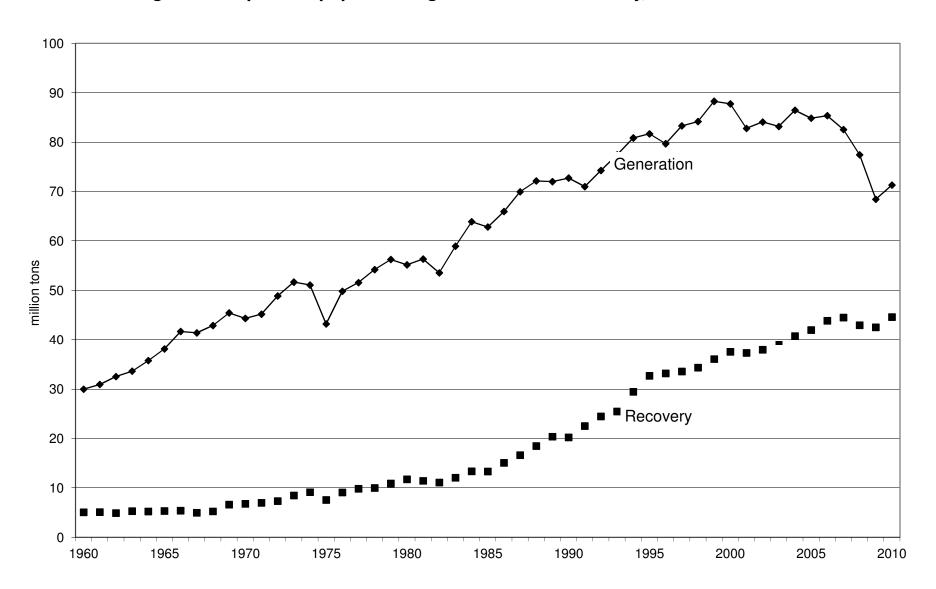


Figure 4. Glass products generated in MSW, 2010

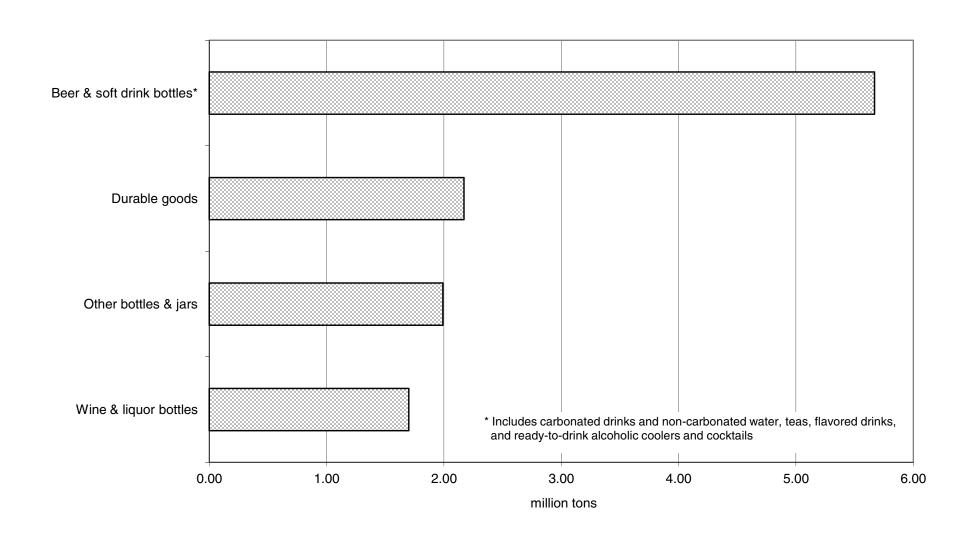


Figure 5. Glass generation and recovery, 1960 to 2010

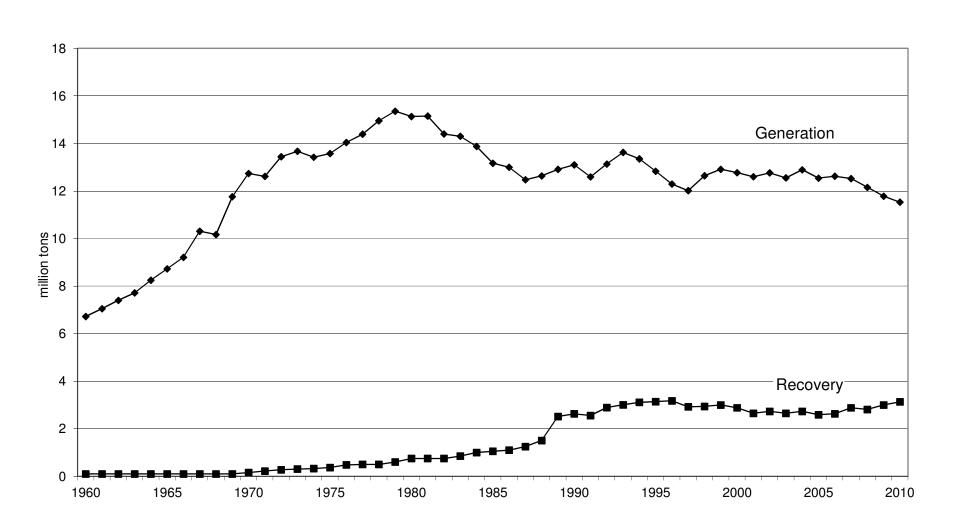


Figure 6. Metal products generated in MSW, 2010

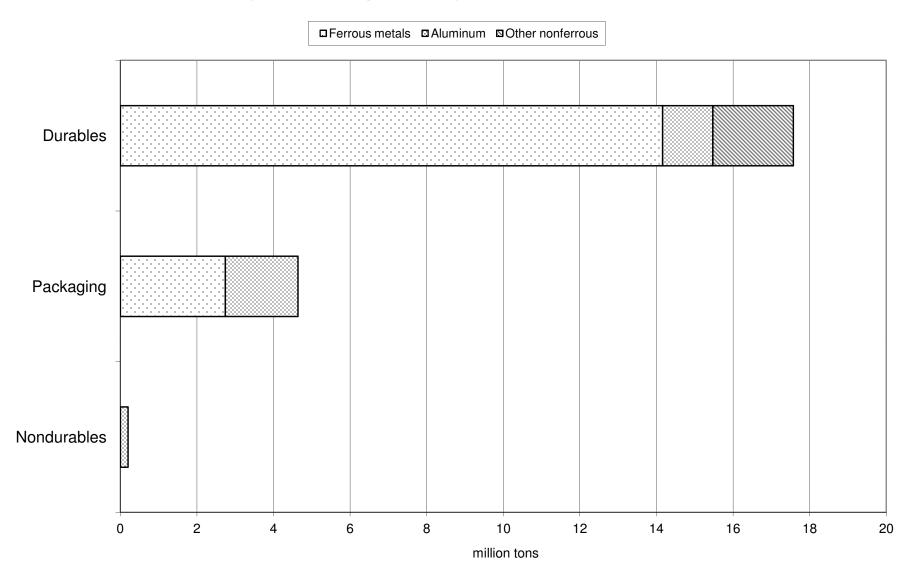


Figure 7. Metals generation and recovery, 1960 to 2010

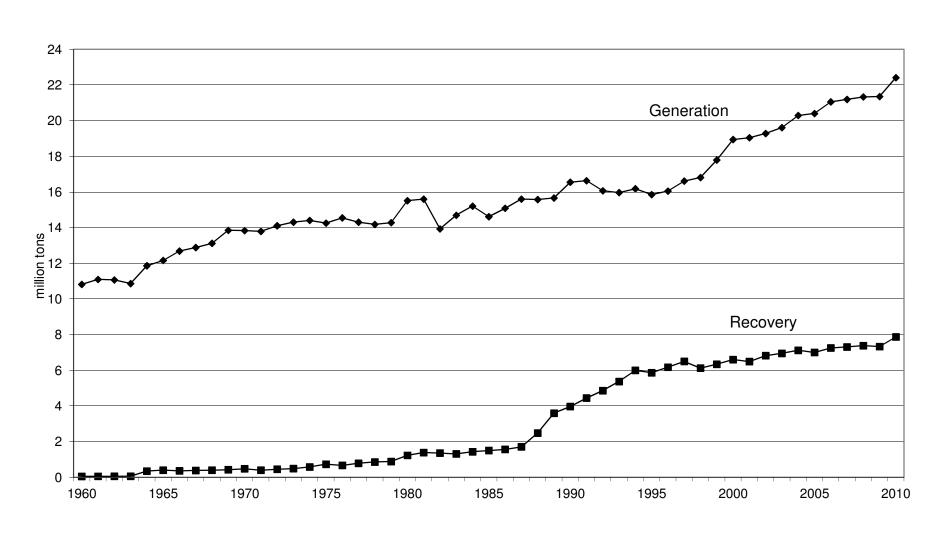


Figure 8. Plastics products generated in MSW, 2010

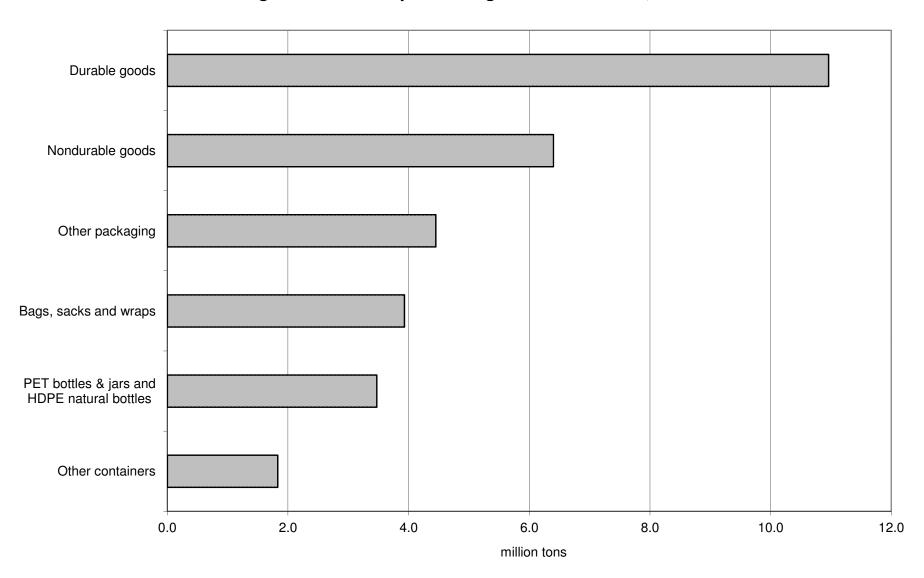


Figure 9. Plastics generation and recovery, 1960 to 2010

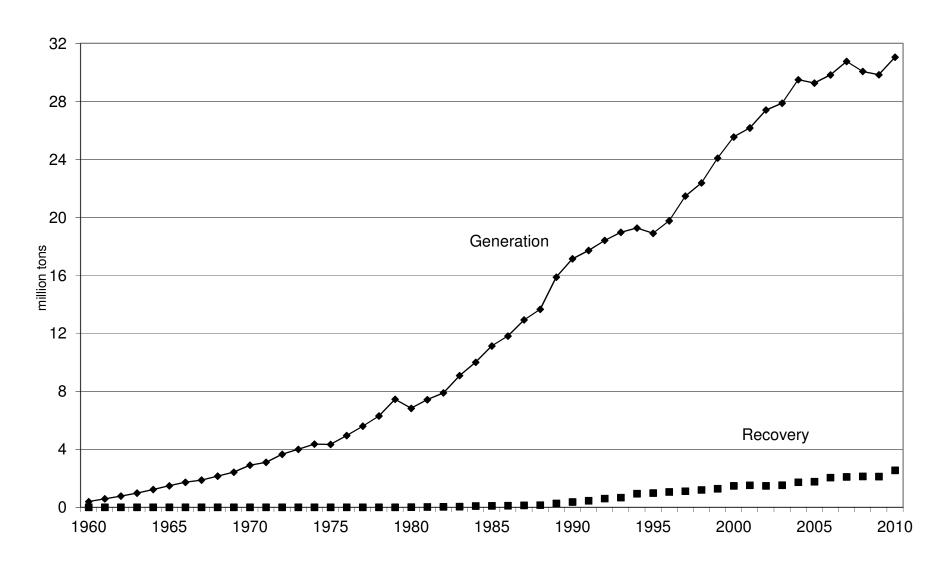


Figure 10. Generation of materials in MSW, 1960 to 2010

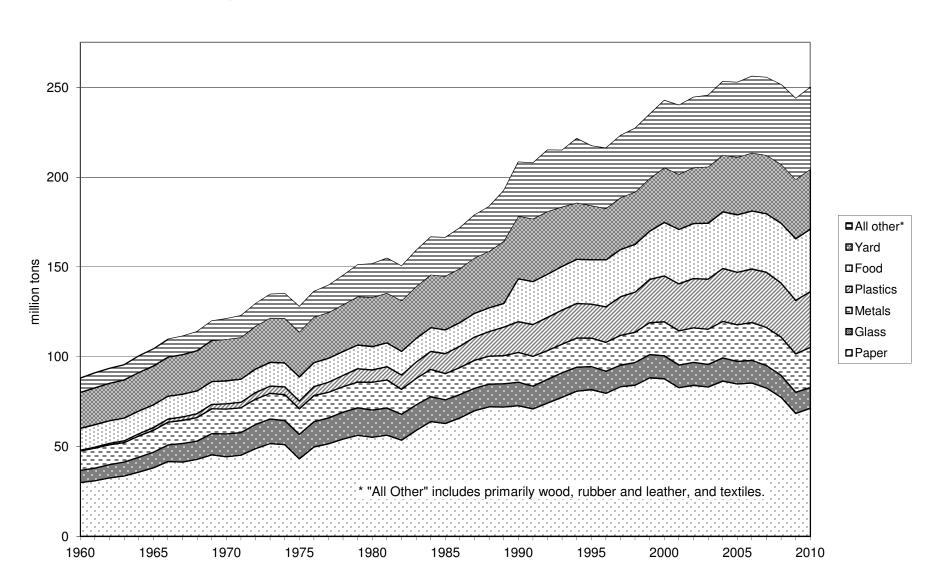


Figure 11. Recovery and discards of materials in MSW, 1960 to 2010

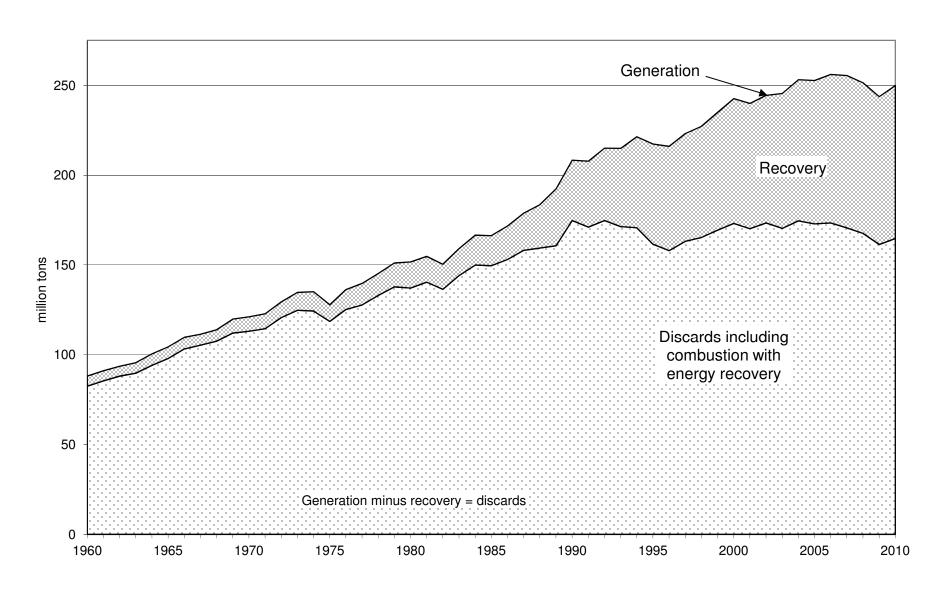
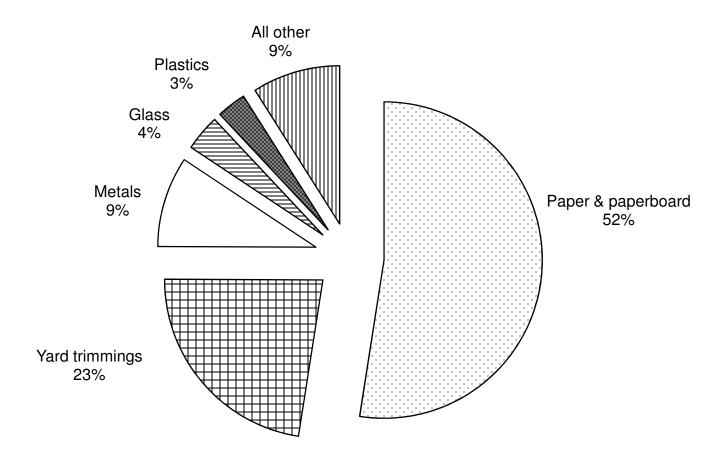
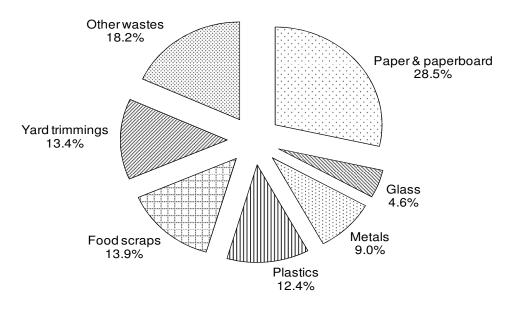


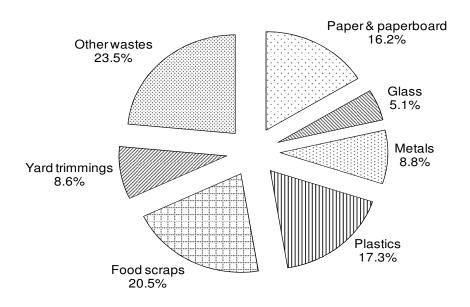
Figure 12. Materials recovery,* 2010



^{*} 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

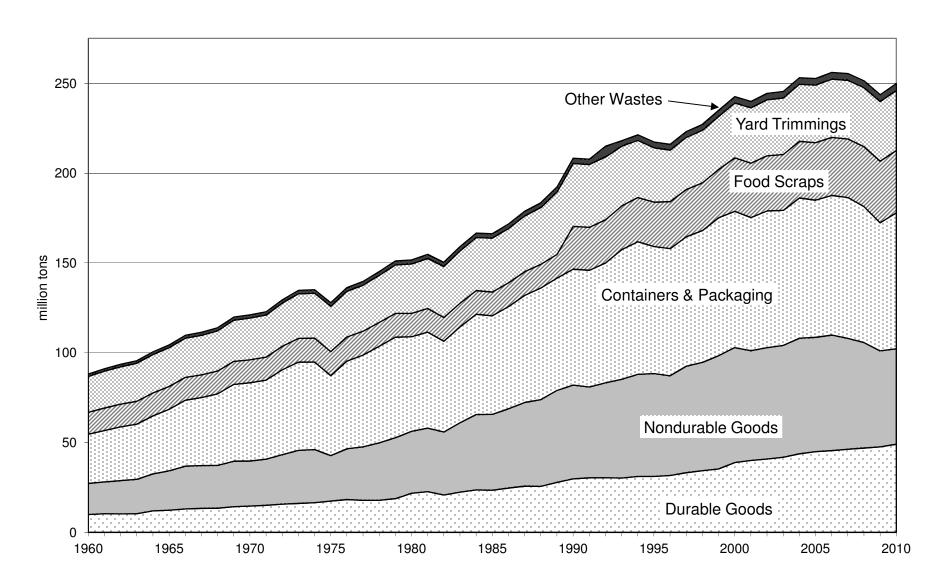
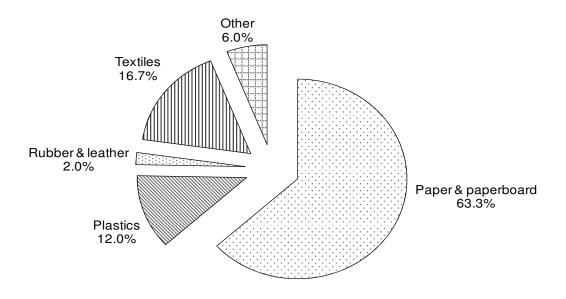
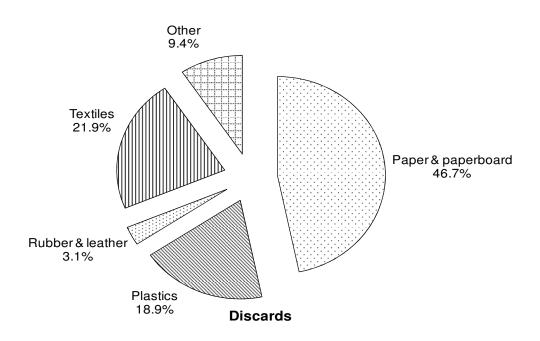


Figure 15. Nondurable goods generated and discarded* in municipal solid waste, 2010 (In percent of total generation and discards)

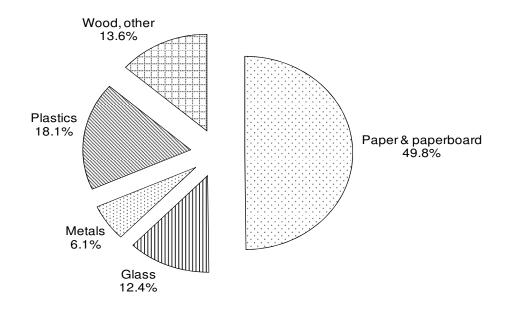


Generation

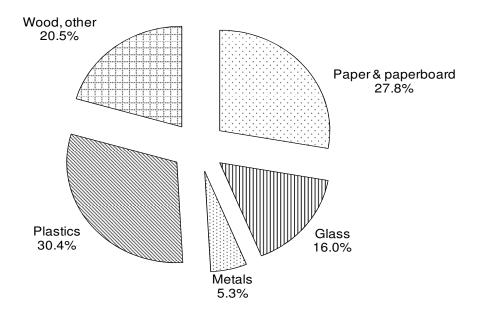


^{*}Discards in this figure include combustion with energy recovery.

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



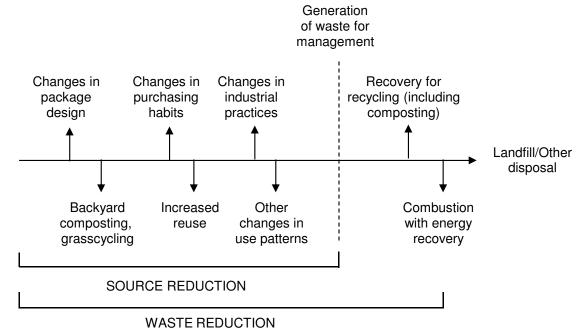
Generation



Discards

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

Figure 17. Diagram of solid waste management



Source: Franklin Associates, A Division of ERG

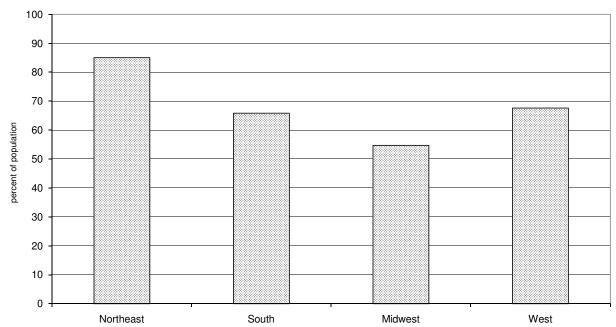


Figure 18. Population served by curbside recycling, 2010

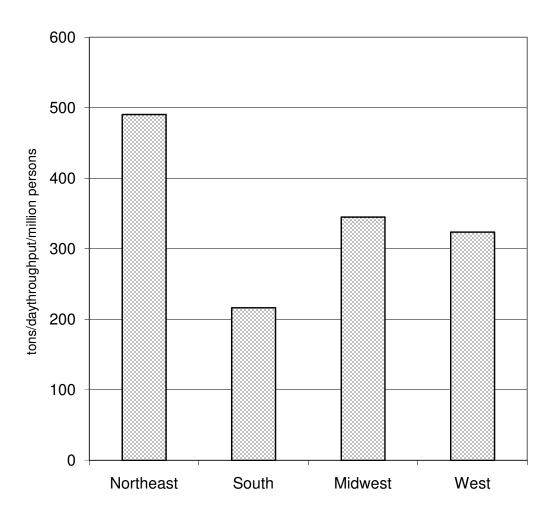
U.S. Census Bureau, BioCycle preliminary State of Garbage data received August 2010, BioCycle The State of Garbage in America. April 2006, and data from the following websites Connecticut Department of Environmental Protection, Delaware Solid Waste Management Authority, Georgia Department of Community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



Figure 19. States With Bottle Deposit Rules

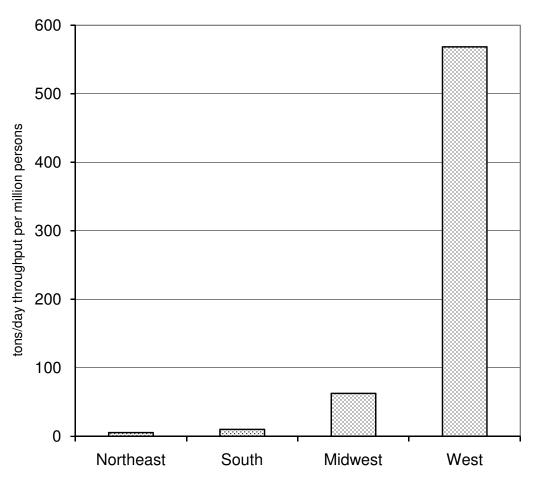
Source: Container Recycling Institute, 2011.

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



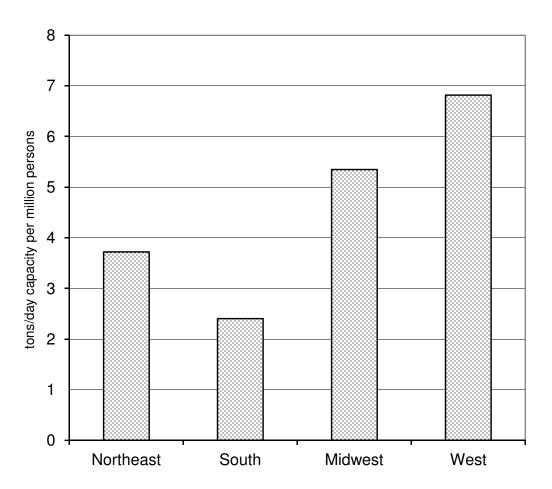
Source: U.S. Census Bureau, Governmental Advisory Associates, Inc.

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.

400

200

0

Northeast

1,600 1,400 1,200 1,000 800 600

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

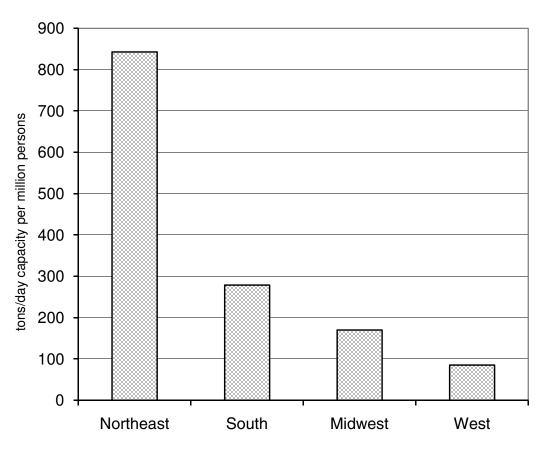
Source: Internet search: includes data for 47 states and the District of Columbia.

Midwest

West

South

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.

800
600
400
200
Northeast South Midwest West

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

Source: BioCycle October 2010.

Recovery of the composting component of recycling Recovery for recycling million tons Combustion with energy recovery Landfill, other disposal

Figure 26. Municipal solid waste management, 1960 to 2010

Source: Franklin Associates, A Division of ERG