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

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

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Table 1

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

(In thousands of tons and percent of total generation)

| | | Thousands 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)

| | | Thousands of Tons | | | | | | | | | |
|--------------------------------|-------|-------------------|--------|------------|-----------|------------|-----------|--------|--------|--------|--|
| 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 | 2,360 | |
| 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 | 64,780 | |
| 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 | 84,950 | |
| | | | | Percent of | of Genera | tion of Ea | ch Materi | al | | | |
| Materials | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 | |
| Paper and Paperboard | 16.9% | 15.3% | 21.3% | 27.8% | 42.8% | 49.5% | 53.9% | 55.5% | 62.1% | 62.5% | |
| Glass | 1.5% | 1.3% | 5.0% | 20.1% | 22.6% | 20.7% | 23.0% | 23.1% | 25.5% | 27.1% | |
| Metals | | | | | | | | | | | |
| Ferrous | 0.5% | 1.2% | 2.9% | 17.6% | 33.1% | 33.1% | 33.1% | 33.2% | 33.1% | 33.8% | |
| Aluminum | Neg. | 1.3% | 17.9% | 35.9% | 27.0% | 20.7% | 21.7% | 21.1% | 20.1% | 19.9% | |
| Other Nonferrous | Neg. | 47.8% | 46.6% | 66.4% | 66.3% | 68.8% | 68.8% | 69.4% | 69.5% | 70.5% | |
| Total Metals | 0.5% | 3.5% | 7.9% | 24.0% | 34.8% | 34.3% | 34.5% | 34.6% | 34.3% | 35.1% | |
| Plastics | Neg. | Neg. | 0.3% | 2.2% | 5.8% | 6.1% | 6.9% | 7.1% | 7.2% | 7.6% | |
| 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% | 36.4% | |
| 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% | 34.0% | |

^{*} 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 | 28,680 | | |
| 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 | 113,080 | | |
| 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 | 164,910 | | |
| | | | | Pei | rcent 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% | 17.4% | | |
| 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% | 2.0% | | |
| Total Materials in Products | 59.4% | 66.6% | 68.8% | 67.1% | 72.6% | 72.7% | 72.3% | 71.4% | 68.7% | 68.6% | | |
| Other Wastes | | | | | | | | | | | | |
| Food Scraps | 14.8% | 11.3% | 9.5% | 13.6% | 16.8% | 18.1% | 18.6% | 19.4% | 20.7% | 20.5% | | |
| . 000 00.upo | | | | 1 | 0.50/ | 7.1% | 6.9% | 6.9% | 8.2% | 8.6% | | |
| Yard Trimmings | 24.2% | 20.5% | 20.1% | 17.6% | 8.5% | 1.1/0 | 0.9% | 0.970 | 0.270 | 0.070 | | |
| · | 24.2% 1.6% | 20.5% 1.6% | 20.1% | 17.6% 1.7% | 2.0% | 2.1% | 2.2% | 2.3% | 2.4% | 2.3% | | |
| Yard Trimmings | | | | | | | | | | | | |

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

Details may not add to totals due to rounding.

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

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

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

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

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

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

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

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

[§] Valid default values for separating out paper and paperboard sub-categories for recovery and discards were not available.

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

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

Table 5

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

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

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

Details may not add to totals due to rounding.

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

Table 6

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

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

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

NA = Not Available

Details may not add to totals due to rounding.

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

[†] Lead in lead-acid batteries.

[‡] Other nonferrous metals in appliances and miscellaneous durables.

[§] Aluminum can recovery does not include used beverage cans imported to produce new beverage cans.

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/LLDPE | 2,000 | | | |
| PP | 4,070 | | | |
| PS | 580 | | | |
| Other resins | 2,740 | | | |
| Total Plastics in Durable Goods | 10,960 | 700 | 6.4% | 10,260 |
| | 20,500 | 700 | 0.170 | 10,200 |
| Nondurable Goods | | | | |
| Plastic Plates and Cups [§] | | | | |
| LDPE/LLDPE | 20 | | | 20 |
| PLA | 10 | | | 10 |
| PP | 140 | | | 140 |
| PS | 720 | | | 720 |
| Subtotal Plastic Plates and Cups | 890 | Neg. | Neg. | 890 |
| Trash Bags | | | | |
| HDPE | 230 | | | 230 |
| LDPE/LLDPE | 750 | | | 750 |
| Subtotal Trash Bags | 980 | | | 980 |
| All other nondurables* | | | | |
| PET | 440 | | | 440 |
| HDPE | 510 | | | 510 |
| PVC | 270 | | | 270 |
| LDPE/LLDPE | 1,180 | | | 1,180 |
| PLA | 30 | | | 1,100 |
| PP | 1,290 | | | 1,290 |
| PS | 210 | | | 210 |
| Other resins | 600 | | | 600 |
| Subtotal All Other Nondurables | 4,530 | | | 4,530 |
| | 4,550 | | | 4,330 |
| Total Plastics in Nondurable Goods, by resin | | | | |
| PET | 440 | | | 440 |
| HDPE | 740 | | | 740 |
| PVC | 270 | | | 270 |
| LDPE/LLDPE | 1,950 | | | 1,950 |
| PLA | 40 | | | |
| PP | 1,430 | | | 1,430 |
| PS | 930 | | | 930 |
| Other resins | 600 | | | 600 |
| Total Plastics in Nondurable Goods | 6,400 | Neg. | Neg. | 6,400 |
| Plastic Containers & Packaging | | | | |
| Bottles and Jars** | | | | |
| PET | 2,670 | 560 | 21.0% | 2,110 |
| Natural Bottles† | • | | | • |
| HDPE | 800 | 220 | 27.5% | 580 |
| 9 Due to source data aggregation DET curs are included in "Oth | | 220 | 21.370 | 500 |

Due to source data aggregation, PET cups are included in "Other Plastic Packaging".

Neg. = negligible, less than 5,000 tons

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

^{**} Injection stretch blow molded PET containers as defined in the 2008 Report on Postconsumer PET Container Recycling Activity Final Report. National Association for PET Container Resources.

Prior to 2010, caps and labels recovered with PET bottles and jars were included in the PET recovery estimate. Beginning in 2010, these recovered materials were included with other plastic packaging.

[†] 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.

Table 7 (continued)

PLASTICS IN PRODUCTS IN MSW, 2010

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

| | G <u>eneratio</u> n (Thousand | Recov (Thousand | ery (Percent | Discards (Thousand |
|--|----------------------------------|---------------------|-----------------|-----------------------|
| Product Category | tons) | tons) | of Gen.) | tons) |
| Plastic Containers & Packaging, cont. | tons) | tons) | or Gem) | tons) |
| Other plastic containers | | | | |
| HDPE | 1,450 | 280 | 19.3% | 1,170 |
| PVC | 30 | Neg. | 17.570 | 30 |
| LDPE/LLDPE | 30 | Neg. | | 30 |
| PP | 240 | 20 | 8.3% | 220 |
| PS | 80 | Neg. | 0.5 /c | 80 |
| Subtotal Other Containers | 1,830 | 300 | 16.4% | 1,530 |
| Bags, sacks, & wraps | , | | | , |
| HDPE | 690 | 30 | 4.3% | 660 |
| PVC | 50 | 50 | 1.570 | 50 |
| LDPE/LLDPE | 2,380 | 420 | 17.6% | 1,960 |
| PP | 680 | 420 | 17.070 | 680 |
| PS | 130 | | | 130 |
| Subtotal Bags, Sacks, & Wraps | 3,930 | 450 | 11.5% | 3,480 |
| Other Plastics Packaging‡ | 2,520 | | 11.0 /0 | 2,100 |
| PET | 710 | Neg. | | 710 |
| HDPE | 600 | 40 | 6.7% | 560 |
| PVC | 320 | Neg. | 0.770 | 320 |
| LDPE/LLDPE | 1,070 | Neg. | | 1,070 |
| PLA | 10 | Neg. | | 10 |
| PP | 1,110 | 40 | 3.6% | 1,070 |
| PS | 340 | 20 | 5.9% | 320 |
| Other resins | 290 | 30 | 10.3% | 260 |
| Subtotal Other Packaging | 4,450 | 130 | 2.9% | 4,320 |
| Total Plastics in Containers & Packaging, by resin | -, | | | -, |
| PET | 3,380 | 560 | 16.6% | 2,820 |
| HDPE | 3,540 | 570 | 16.1% | 2,970 |
| PVC | 400 | 370 | 10.170 | 400 |
| LDPE/LLDPE | 3,480 | 420 | 12.1% | 3,060 |
| PLA | 10 | 120 | 12.170 | 10 |
| PP | 2,030 | 60 | 3.0% | 1,970 |
| PS | 550 | 20 | 3.6% | 530 |
| Other resins | 290 | 30 | 10.3% | 260 |
| Total Plastics in Cont. & Packaging | 13,680 | 1,660 | 12.1% | 12,020 |
| Total Plastics in MSW, by resin | | _,, | | , |
| PET | 3,980 | 560 | 14.1% | 3,420 |
| HDPE | 5,450 | 570 | 10.5% | 4,880 |
| PVC | 910 | 370 | 10.5 % | 910 |
| LDPE/LLDPE | 7,430 | 420 | 5.7% | 7,010 |
| PLA | 50 | 420 | 3.770 | 50 |
| PP | 7,530 | 60 | 0.8% | 7,470 |
| PS | 2,060 | 20 | 1.0% | 2,040 |
| Other resins | 3,630 | 730 | 20.1% | 2,900 |
| Total Plastics in MSW | 31,040 | 2,360 | 7.6% | 28,680 |
| TOWN I WILLS HE HILD IT | J1,0-10 | 2,500 | 7.0 /0 | 20,000 |
| HDPE = High density polyethylene | PET = Polveth | ylene terephthalate | PS = Polystyre | ene |
| LDPE = Low density polyethylene | PLA = Polylac | | PVC = Polyvin | |
| LLDPE = Linear low density polyethylene | PP = Polyprop | | , | • |

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

| Products | 1960 | 1970 | 1980 | 1990 | 1housan 2000 | ds of Ton 2005 | s 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 | tal 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 | | | | | | | | | | |
| 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)

| | | | | | Thousan | ds of Ton | • | | | |
|--------------------------------|--------|-------|--------|-----------|------------|-----------|----------|---------|--------|--------|
| 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 | 36,510 |
| (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 | 64,780 |
| 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 | 84,950 |
| | | | | 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% | 48.3% |
| (Detail in Table 21) | 10.00/ | 0.00/ | 10.00/ | 10.00/ | 00.70/ | 00.40/ | 00.00/ | 0.4.00/ | 05.70/ | 00.40/ |
| Total Product** Wastes | 10.3% | 9.6% | 13.3% | 19.8% | 29.7% | 32.1% | 33.9% | 34.0% | 35.7% | 36.4% |
| Other Wastes | Noc | Noc | Noc | Noc | 2.3% | 2.2% | 2.5% | 2.4% | 2.5% | 2.8% |
| Food, Other [^] | Neg. | Neg. | Neg. | Neg. | 2.3% | 2.270 | 2.3% | 2.4% | 2.5% | 2.0% |
| 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% | 34.0% |

^{*} 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)

| | | Thousands 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) | | | | | | | | | | | | |
| 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 | 39,130 | | |
| (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 | 113,080 | | |
| 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 | 164,910 | | |
| | | | | 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% | 23.7% | | |
| (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% | 68.6% | | |
| 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% | 31.4% | | |
| Total MSW Discarded - % | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

^{*} Discards after materials and compost recovery. In this table, discards include combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes.

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

^{**} Other than food products.

Table 12

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

(In thousands of tons and percent of total generation)

| | | | | | Thousand | s of Tons | | | | |
|----------------------------------|--------|---------|---------|---------------|------------|-----------|---------|---------|---------|---------|
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 1000 | | | | | | | | | |
| Major Appliances | 1,630 | 2,170 | 2,950 | 3,310 | 3,640 | 3,610 | 3,620 | 3,690 | 3,760 | 4,020 |
| Small Appliances** | | | | 460 | 1,040 | 1,180 | 1,390 | 1,530 | 1,630 | 1,590 |
| Furniture and Furnishings | 2,150 | 2,830 | 4,760 | 6,790 | 8,120 | 9,340 | 9,930 | 10,230 | 10,500 | 10,820 |
| Carpets and Rugs** | | , | , | 1,660 | 2,440 | 2,830 | 3,000 | 3,150 | 3,320 | 3,460 |
| Rubber Tires | 1,120 | 1,890 | 2,720 | 3,610 | 4,930 | 4,910 | 5,020 | 5,010 | 5,010 | 5,190 |
| Batteries, Lead-Acid | Neg. | 820 | 1,490 | 1,510 | 2,280 | 2,750 | 2,820 | 2,940 | 2,960 | 3,190 |
| Miscellaneous Durables | -3 | | , | , | | , | | , | , | , |
| Selected Consumer Electronics*** | | | | | 1,900 | 2,630 | 2,300 | 2,310 | 2,370 | 2,440 |
| Other Miscellaneous Durables | | | | | 14,500 | 17,680 | 18,180 | 18,090 | 18,030 | 18,370 |
| Total Miscellaneous Durables | 5,020 | 6,950 | 9,880 | 12,470 | 16,400 | 20,310 | 20,480 | 20,400 | 20,400 | 20,810 |
| Total Durable Goods | 9,920 | 14,660 | 21,800 | 29,810 | 38,850 | 44,930 | 46,260 | 46,950 | 47,580 | 49,080 |
| Nondurable Goods | 17,330 | 25,060 | 34,420 | 52,170 | 64,010 | 63,650 | 61,760 | 58,690 | 53,440 | 53,140 |
| (Detail in Table 15) | , | ,,,,,,, | , , | , , | ,- ,- | , | , | , | , | , , |
| Containers and Packaging | 27,370 | 43,560 | 52,670 | 64,530 | 75,840 | 76,330 | 78,370 | 75,700 | 71,320 | 75,640 |
| (Detail in Table 18) | , | -, | , , , , | , , , , , , , | -,- | -, | -,- | | , | -,- |
| Total Product Wastes† | 54,620 | 83,280 | 108,890 | 146,510 | 178,700 | 184,910 | 186,390 | 181,340 | 172,340 | 177,860 |
| Other Wastes | | , | , | , | | , | | , | , | , |
| Food Scraps | 12,200 | 12,800 | 13,000 | 23,860 | 29,810 | 31,990 | 32,610 | 33,340 | 34,290 | 34,760 |
| Yard Trimmings | 20,000 | 23,200 | 27,500 | 35,000 | 30,530 | 32,070 | 32,630 | 32,900 | 33,200 | 33,400 |
| Miscellaneous Inorganic Wastes | 1,300 | 1,780 | 2,250 | 2,900 | 3,500 | 3,690 | 3,750 | 3,780 | 3,820 | 3,840 |
| Total Other Wastes | 33,500 | 37,780 | 42,750 | 61,760 | 63,840 | 67,750 | 68,990 | 70,020 | 71,310 | 72,000 |
| Total MSW Generated - Weight | 88,120 | 121,060 | 151,640 | 208,270 | 242,540 | - | 255,380 | 251,360 | 243,650 | 249,860 |
| | | | | • | ent of Tot | • | ition | | | |
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | | | | | | | | | | |
| Major Appliances | 1.8% | 1.8% | 1.9% | 1.6% | 1.5% | 1.4% | 1.4% | 1.5% | 1.5% | 1.6% |
| Small Appliances** | | | | 0.2% | 0.4% | 0.5% | 0.5% | 0.6% | 0.7% | 0.6% |
| Furniture and Furnishings | 2.4% | 2.3% | 3.1% | 3.3% | 3.3% | 3.7% | 3.9% | 4.1% | 4.3% | 4.3% |
| Carpets and Rugs** | | | | 0.8% | 1.0% | 1.1% | 1.2% | 1.3% | 1.4% | 1.4% |
| Rubber Tires | 1.3% | 1.6% | 1.8% | 1.7% | 2.0% | 1.9% | 2.0% | 2.0% | 2.1% | 2.1% |
| Batteries, Lead-Acid | Neg. | 0.7% | 1.0% | 0.7% | 0.9% | 1.1% | 1.1% | 1.2% | 1.2% | 1.3% |
| Miscellaneous Durables | | | | | | | | | | |
| Selected Consumer Electronics*** | | | | | 0.8% | 1.0% | 0.9% | 0.9% | 1.0% | 1.0% |
| Other Miscellaneous Durables | | | | | 6.0% | 7.0% | 7.1% | 7.2% | 7.4% | 7.4% |
| Total Miscellaneous Durables | 5.7% | 5.7% | 6.5% | 6.0% | 6.8% | 8.0% | 8.0% | 8.1% | 8.4% | 8.3% |
| Total Durable Goods | 11.3% | 12.1% | 14.4% | 14.3% | 16.0% | 17.8% | 18.1% | 18.7% | 19.5% | 19.6% |
| Nondurable Goods | 19.7% | 20.7% | 22.7% | 25.0% | 26.4% | 25.2% | 24.2% | 23.3% | 21.9% | 21.3% |
| (Detail in Table 15) | | | | | | | | | | |
| Containers and Packaging | 31.1% | 36.0% | 34.7% | 31.0% | 31.3% | 30.2% | 30.7% | 30.1% | 29.3% | 30.3% |
| (Detail in Table 19) | | | | | | | | | | |
| Total Product Wastes† | 62.0% | 68.8% | 71.8% | 70.3% | 73.7% | 73.2% | 73.0% | 72.1% | 70.7% | 71.2% |
| Other Wastes | | | | | | | | | | |
| Food Scraps | 13.8% | 10.6% | 8.6% | 11.5% | 12.3% | 12.7% | 12.8% | 13.3% | 14.1% | 13.9% |
| Yard Trimmings | 22.7% | 19.2% | 18.1% | 16.8% | 12.6% | 12.7% | 12.8% | 13.1% | 13.6% | 13.4% |
| Miscellaneous Inorganic Wastes | 1.5% | 1.5% | 1.5% | 1.4% | 1.4% | 1.5% | 1.5% | 1.5% | 1.6% | 1.5% |
| Total Other Wastes | 38.0% | 31.2% | 28.2% | 29.7% | 26.3% | 26.8% | 27.0% | 27.9% | 29.3% | 28.8% |
| Total MSW Generated - % | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

 $^{^{\}star}$ Generation before materials recovery or combustion. Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

Not estimated separately prior to 1990.

*** Not estimated separately prior to 1999. Preliminary data; may undergo revision.

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.

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 | | 1010 | | | | | | | | |
| 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) | , | -, | , | -, | , | | .,. | | -, | , |
| Containers and Packaging | 2,870 | 3,350 | 8,490 | 16,780 | 28,870 | 31,500 | 33,900 | 34,050 | 34,210 | 36,510 |
| (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 | 64,780 |
| Other Wastes | ,,,,, | 5,525 | ,=== | | 00,010 | 00,000 | 00,100 | 01,120 | 01,000 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 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 | 84,950 |
| | | - | P | ercent of | Generation | on of Eac | h Product | | | |
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | | | | | | | | | | |
| Major Appliances | 0.6% | 2.3% | 4.4% | 32.3% | 54.9% | 67.0% | 67.1% | 66.9% | 68.0% | 64.9% |
| Small Appliances** | | | | 2.2% | 1.9% | 1.7% | 1.4% | 7.2% | 7.2% | 6.9% |
| Furniture and Furnishings | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | 0.1% | 0.1% | 0.1% |
| Carpets and Rugs** | | | | Neg. | 7.8% | 8.8% | 9.3% | 8.6% | 8.9% | 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% | 96.6% | 96.2% |
| Miscellaneous Durables | | | | | | | | | | |
| Selected Consumer Electronics*** | | | | | 10.0% | 13.7% | 23.9% | 24.2% | 26.0% | 26.6% |
| Other Miscellaneous Durables | | | | | 5.2% | 3.6% | 2.6% | 1.9% | 1.7% | 2.6% |
| Total Miscellaneous Durables | 0.2% | 0.3% | 0.4% | 3.8% | 5.8% | 4.9% | 5.0% | 4.5% | 4.5% | 5.4% |
| Total Durable Goods | 3.5% | 6.4% | 6.2% | 11.6% | 16.9% | 17.9% | 17.8% | 17.8% | 18.0% | 18.5% |
| Nondurable Goods | 13.8% | 14.9% | 13.6% | 16.9% | 27.4% | 31.1% | 34.0% | 32.9% | 32.2% | 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% | 45.2% | 48.3% |
| (Detail in Table 21) | | | | | | | | | | |
| Total Product Wastes† | 10.3% | 9.6% | 13.3% | 19.8% | 29.7% | 32.1% | 33.9% | 34.0% | 33.9% | 36.4% |
| 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% | 60.5% | 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% | 29.6% | 28.0% |
| Total MSW Recovered - % | 6.4% | 6.6% | 9.6% | 16.0% | 28.6% | 31.6% | 33.2% | 33.3% | 32.7% | 34.0% |

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

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

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

^{***} Not estimated separately prior to 1999.

[†] Other than food products.

Table 14 PRODUCTS DISCARDED* IN THE MUNICIPAL WASTE STREAM, 1960 TO 2010 (WITH DETAIL ON DURABLE GOODS)

(In thousands of tons and percent of total discards)

| | | | | | Thousa | nds of To | ns | | | |
|----------------------------------|---------|---------|----------|---------|---------|---|---------|---------|---------|---------|
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | | , | , | , | | • | , | | | |
| Major Appliances | 1,620 | 2,120 | 2,820 | 2,240 | 1,640 | 1,190 | 1,190 | 1,220 | 1,250 | 1,410 |
| Small Appliances** | | | | 450 | 1,020 | 1,160 | 1,370 | 1,420 | 1,520 | 1,480 |
| Furniture and Furnishings | 2,150 | 2,830 | 4,760 | 6,790 | 8,120 | 9,340 | 9,930 | 10,220 | 10,490 | 10,810 |
| Carpets and Rugs** | - | | | 1,660 | 2,250 | 2,580 | 2,720 | 2,880 | 3,040 | 3,150 |
| Rubber Tires | 790 | 1,640 | 2,570 | 3,170 | 3,640 | 3,210 | 3,250 | 3,240 | 3,240 | 3,350 |
| Batteries, Lead-Acid | Neg. | 200 | 450 | 40 | 150 | 110 | 120 | 120 | 120 | 120 |
| Miscellaneous Durables | | | | | | | | | | |
| Selected Consumer Electronics*** | | | | | 1,710 | 2,270 | 1,750 | 1,750 | 1,770 | 1,790 |
| Other Miscellaneous Durables | | | | | 13,740 | 17,040 | 17,700 | 17,740 | 17,720 | 17,890 |
| 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 | 39,130 |
| (Detail in Table 22) | _ 1,000 | 10,210 | , | , | , | 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , | , | 01,110 | 00,100 |
| Total Product Wastes† | 49,010 | 75,260 | 94,370 | 117,470 | 125,690 | 125,610 | 123,290 | 119,620 | 110,810 | 113,080 |
| Other Wastes | 10,010 | , | 0 1,01 0 | , | ,,,,,, | | , | , | , | , |
| 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 | 164,910 |
| | | 1 | 1.01,120 | | | Total Dis | | , | , | , |
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | | l | l | l | l. | | l . | | | |
| Major Appliances | 2.0% | 1.9% | 2.1% | 1.3% | 0.9% | 0.7% | 0.7% | 0.7% | 0.8% | 0.9% |
| Small Appliances** | | | | 0.3% | 0.6% | 0.7% | 0.8% | 0.8% | 0.9% | 0.9% |
| Furniture and Furnishings | 2.6% | 2.5% | 3.5% | 3.9% | 4.7% | 5.4% | 5.8% | 6.1% | 6.5% | 6.6% |
| Carpets and Rugs** | | | | 0.9% | 1.3% | 1.5% | 1.6% | 1.7% | 1.9% | 1.9% |
| Rubber Tires | 1.0% | 1.5% | 1.9% | 1.8% | 2.1% | 1.9% | 1.9% | 1.9% | 2.0% | 2.0% |
| Batteries, Lead-Acid | Neg. | 0.2% | 0.3% | 0.0% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| Miscellaneous Durables | | | | | | | | | | |
| Selected Consumer Electronics*** | | | | | 1.0% | 1.3% | 1.0% | 1.0% | 1.1% | 1.1% |
| Other Miscellaneous Durables | | | | | 7.9% | 9.9% | 10.4% | 10.6% | 11.0% | 10.8% |
| Total Miscellaneous Durables | 6.1% | 6.1% | 7.2% | 6.9% | 8.9% | 11.2% | 11.4% | 11.6% | 12.1% | 11.9% |
| Total Durable Goods | 11.6% | 12.1% | 14.9% | 15.1% | 18.6% | 21.4% | 22.3% | 23.0% | 24.3% | 24.3% |
| Nondurable Goods | 18.1% | 18.9% | 21.7% | 24.8% | 26.8% | 25.4% | 23.9% | 23.5% | 21.4% | 20.6% |
| (Detail in Table 17) | | | | | | | | | | |
| Containers and Packaging | 29.7% | 35.6% | 32.2% | 27.3% | 27.1% | 25.9% | 26.1% | 24.9% | 23.0% | 23.7% |
| (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% | 68.6% |
| 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% | 31.4% |
| 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.

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

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

Not estimated separately prior to 1990.

*** Not estimated separately prior to 1999. Preliminary data; may undergo revision. ** Not estimated separately prior to 1990.

[†] Other than food products.

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

(In thousands of tons and percent of total generation)

| | | | | | | Thousand | ds of Tons | • | | | | |
|--|---|--|---|--|---|--|---|--|--|--|---|---|
| Products | 1960 | 1970 | 1980 | 1990 | 1995 | 1999 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 9,920 | 14,660 | 21,800 | 29,810 | 31,140 | 35,340 | 38,850 | 44,930 | 46,260 | 46,950 | 47,580 | 49,080 |
| (Detail in Table 12) | | | , | , | , | , | , | | | , | , | |
| Nondurable Goods | | | L | | L | L | | L | | | | |
| Newspapers/Mechanical Papers† | 7,110 | 9,510 | 11,050 | 13,430 | 13,140 | 14,870 | 14,790 | 12,790 | 10,780 | 8,800 | 7,760 | 9,880 |
| Directories†** | | | | 610 | 490 | 740 | 680 | 660 | 760 | 840 | 650 | - |
| Other Paper Nondurable Goods | | | | | | | | | | | | |
| Books and Magazines | 1,920 | 2,470 | 3,390 | | | | | | | | | |
| Books** | | | | 970 | 1,150 | 1,130 | 1,240 | 1,100 | 1,270 | 1,340 | 960 | 990 |
| Magazines** | | | | 2,830 | 2,530 | 2,210 | 2,230 | 2,580 | 2,550 | 2,050 | 1,450 | 1,590 |
| Office-Type Papers*** | 1,520 | 2,650 | 4,000 | 6,410 | 6,640 | 7,710 | 7,420 | 6,620 | 6,060 | 6,050 | 5,380 | 5,260 |
| Standard Mail§ | | | | 3,820 | 4,620 | 5,320 | 5,570 | 5,830 | 5,910 | 5,510 | 4,650 | 4,340 |
| Other Commercial Printing† | 1,260 | 2,130 | 3,120 | 4,460 | 6,770 | 6,270 | 7,380 | 6,440 | 6,200 | 5,130 | 3,490 | 2,480 |
| Tissue Paper and Towels | 1,090 | 2,080 | 2,300 | 2,960 | 2,970 | 3,240 | 3,220 | 3,460 | 3,500 | 3,460 | 3,490 | 3,490 |
| Paper Plates and Cups | 270 | 420 | 630 | 650 | 970 | 950 | 960 | 1,160 | 1,230 | 1,250 | 1,170 | 1,350 |
| Other Nonpackaging Paper | 2,700 | 3,630 | 4,230 | 3,840 | 4,270 | 4,620 | 4,250 | 4,490 | 4,260 | 4,630 | 4,420 | 4,190 |
| Total Other Paper Nondurable Goods | | | | | | | | | | | | 23,690 |
| Disposable Diapers | Neg. | 350 | 1,930 | 2,700 | 3,010 | 3,310 | 3,230 | 3,410 | 3,730 | 3,770 | 3,810 | 3,740 |
| Plastic Plates and Cups§ | | | 190 | 650 | 780 | 910 | 870 | 930 | 860 | 780 | 900 | 890 |
| Trash Bags** | | | | 780 | 780 | 950 | 850 | 1,060 | 1,070 | 930 | 1,000 | 980 |
| Clothing and Footwear | 1,360 | 1,620 | 2,170 | 4,010 | 5,070 | 6,260 | 6,470 | 7,890 | 8,320 | 8,820 | 9,080 | 8,950 |
| Towels, Sheets and Pillowcases** | | | | 710 | 740 | 780 | 820 | 980 | 1,100 | 1,160 | 1,230 | 1,290 |
| Other Miscellaneous Nondurables | 100 | 200 | 1,410 | 3,340 | 3,320 | 3,730 | 4,030 | 4,250 | 4,160 | 4,170 | 4,000 | 3,720 |
| Total Nondurable Goods | 17,330 | 25,060 | 34,420 | 52,170 | 57,250 | 63,000 | 64,010 | 63,650 | 61,760 | 58,690 | 53,440 | 53,140 |
| Containers and Packaging | 27,370 | 43,560 | 52,670 | 64,530 | 70,730 | 76,800 | 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 | 159,120 | 175,140 | 178,700 | 184,910 | 186,390 | 181,340 | 172,340 | 177,860 |
| Other Wastes | 33,500 | 37,780 | 42,750 | 61,760 | 58,160 | 59,740 | 63,840 | 67,750 | 68,990 | 70,020 | 71,310 | 72,000 |
| Total MSW Generated - Weight | 88,120 | 121,060 | 151,640 | 208,270 | 217,280 | 234,880 | 242,540 | 252,660 | 255,380 | 251,360 | 243,650 | 249,860 |
| | | | | | | | al Genera | | | | | |
| Products | 1960 | 1970 | 1980 | 1990 | 1995 | 1999 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 11.3% | 12.1% | 14.4% | 14.3% | 14.3% | 15.0% | 16.0% | 17.8% | 18.1% | 18.7% | 19.5% | 19.6% |
| (Detail in Table 12) Nondurable Goods | | | | | | | | | | | | |
| Newspapers/Mechanical Papers† | 8.1% | | | | | | | F 40/ | 4.00/ | | | 4.0% |
| Newspapers/Medianical rapers [| | 7 0% | 7 30/ | 6 10/- | 6.0% | 6.3% | 6 1% | | | 3 50/ | 3 20/ | |
| Directories+** | 0.1/6 | 7.9% | 7.3% | 6.4% | 6.0% | 6.3% | 6.1% | 5.1% | 4.2% 0.3% | 3.5% | 3.2% | 4.0 /6 |
| Directories†** | 0.1/6 | 7.9% | 7.3% | 6.4% 0.3% | 6.0% 0.2% | 6.3% 0.3% | 6.1% 0.3% | 0.3% | 0.3% | 3.5% 0.3% | 3.2% 0.3% | - |
| Other Paper Nondurable Goods | | | | | | | | | | | | - |
| Other Paper Nondurable Goods Books and Magazines | 2.2% | 7.9% 2.0% | 7.3% 2.2% | 0.3% | 0.2% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | - |
| Other Paper Nondurable Goods Books and Magazines Books** | | | | 0.3% | 0.2% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.4% |
| Other Paper Nondurable Goods Books and Magazines Books** Magazines** | 2.2% | 2.0% | 2.2% | 0.3% 0.5% 1.4% | 0.2% 0.5% 1.2% | 0.3% 0.5% 0.9% | 0.3% 0.5% 0.9% | 0.3% 0.4% 1.0% | 0.3% 0.5% 1.0% | 0.3% 0.5% 0.8% | 0.3% 0.4% 0.6% | - 0.4% 0.6% |
| Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** | | | | 0.3% 0.5% 1.4% 3.1% | 0.2% 0.5% 1.2% 3.1% | 0.3% 0.5% 0.9% 3.3% | 0.3% 0.5% 0.9% 3.1% | 0.3% 0.4% 1.0% 2.6% | 0.3% 0.5% 1.0% 2.4% | 0.3% 0.5% 0.8% 2.4% | 0.3% 0.4% 0.6% 2.2% | 0.4% 0.6% 2.1% |
| Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ | 2.2% | 2.0% | 2.2% | 0.3% 0.5% 1.4% 3.1% 1.8% | 0.2% 0.5% 1.2% 3.1% 2.1% | 0.3% 0.5% 0.9% 3.3% 2.3% | 0.3% 0.5% 0.9% 3.1% 2.3% | 0.3% 0.4% 1.0% 2.6% 2.3% | 0.3% 0.5% 1.0% 2.4% 2.3% | 0.3% 0.5% 0.8% 2.4% 2.2% | 0.3% 0.4% 0.6% 2.2% 1.9% | 0.4% 0.6% 2.1% 1.7% |
| Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† | 2.2% 1.7% 1.4% | 2.0% 2.2% 1.8% | 2.2% 2.6% 2.1% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% | 0.3% 0.5% 0.9% 3.3% 2.3% 2.7% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% | 0.4% 1.0% 2.6% 2.3% 2.5% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% | 0.4% 0.6% 2.2% 1.9% 1.4% | 0.4% 0.6% 2.1% 1.7% 1.0% |
| Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ | 2.2% | 2.0% | 2.2% | 0.3% 0.5% 1.4% 3.1% 1.8% | 0.2% 0.5% 1.2% 3.1% 2.1% | 0.3% 0.5% 0.9% 3.3% 2.3% | 0.3% 0.5% 0.9% 3.1% 2.3% | 0.3% 0.4% 1.0% 2.6% 2.3% | 0.3% 0.5% 1.0% 2.4% 2.3% | 0.3% 0.5% 0.8% 2.4% 2.2% | 0.3% 0.4% 0.6% 2.2% 1.9% | 0.4% 0.6% 2.1% 1.7% |
| 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 | 2.2% 1.7% 1.4% 1.2% | 2.0% 2.2% 1.8% 1.7% | 2.2% 2.6% 2.1% 1.5% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% | 0.3% 0.5% 0.9% 3.3% 2.3% 2.7% 1.4% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% | 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% |
| Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** Standard Mail§ Other Commercial Printing† Tissue Paper and Towels | 2.2% 1.7% 1.4% 1.2% 0.3% | 2.0% 2.2% 1.8% 1.7% 0.3% | 2.2% 2.6% 2.1% 1.5% 0.4% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% | 0.3% 0.5% 0.9% 3.3% 2.3% 2.7% 1.4% 0.4% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% | 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% | 0.4% 0.6% 2.2% 1.9% 1.4% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% |
| 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 | 2.2% 1.7% 1.4% 1.2% 0.3% | 2.0% 2.2% 1.8% 1.7% 0.3% | 2.2% 2.6% 2.1% 1.5% 0.4% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% | 0.3% 0.5% 0.9% 3.3% 2.3% 2.7% 1.4% 0.4% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% | 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% |
| 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 | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% | 0.3% 0.5% 0.9% 3.3% 2.3% 2.7% 1.4% 0.4% 2.0% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% 1.7% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% |
| 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 | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 1.3% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% | 0.3% 0.5% 0.9% 3.3% 2.3% 2.7% 1.4% 0.4% 2.0% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% 1.7% 1.5% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% | 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% |
| 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§ | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.3% 0.3% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 1.4% 0.4% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% | 0.3% 0.5% 1.0% 2.4% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 1.5% |
| 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** | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 1.3% 0.3% 0.4% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.5% 0.5% 1.7% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 1.5% 0.4% |
| 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 | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 1.3% 0.3% 0.4% 1.9% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% 2.3% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 0.4% 2.7% | 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% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 3.1% | 0.3% 1.0% 2.4% 2.3% 2.4% 1.5% 1.7% 1.5% 0.3% 0.4% 3.3% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 3.7% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 0.4% 0.4% 3.6% |
| 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** | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 1.3% 0.3% 0.4% 1.9% 0.3% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% 2.3% 0.3% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 0.4% 0.3% | 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% 0.3% 1.7% 26.4% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 3.1% 0.4% | 0.3% 1.0% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5% 1.7% 23.3% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.4% 0.5% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 0.4% 0.4% 3.6% 0.5% 1.5% 21.3% |
| 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 | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 1.3% 0.4% 1.9% 0.3% 1.6% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 0.3% 1.5% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 0.3% 1.6% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 1.3% 0.4% 0.4% 0.4% 0.4% 1.7% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 0.4% 1.7% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 1.6% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5% 1.7% | 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% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 1.5% 0.4% 0.4% 3.6% 1.5% |
| 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) | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% 19.7% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% 22.7% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 0.3% 0.4% 1.9% 0.3% 1.6% 25.0% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 2.3% 0.5% 1.5% 26.3% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 2.7% 0.4% 2.7% 0.3% 1.6% 26.8% | 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% 0.3% 1.7% 26.4% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 3.1% 0.4% 1.7% 25.2% | 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% 1.6% 24.2% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5% 1.7% 23.3% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 3.7% 0.5% 1.6% 21.9% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 0.4% 0.4% 3.6% 0.5% 1.5% |
| 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) Total Product Wastes‡ | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% 19.7% 31.1% 62.0% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7% 36.0% 68.8% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% 22.7% 34.7% 71.8% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 0.3% 0.4% 1.9% 0.3% 1.6% 25.0% 31.0% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% 0.3% 1.5% 26.3% 32.6% 73.2% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 0.4% 32.7% 74.6% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 1.3% 0.4% 2.7% 0.3% 1.7% 26.4% 31.3% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 3.1% 0.4% 3.1% 0.25.2% 73.2% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.49 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 24.2% 30.7% 73.0% | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5% 1.7% 23.3% 30.1% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 1.6% 0.4% 0.5% 1.6% 21.9% 29.3% 70.7% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.5% 0.4% 0.4% 3.6% 0.5% 1.5% 21.3% 30.3% |
| 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) | 2.2% 1.7% 1.4% 1.2% 0.3% 3.1% Neg. 1.5% 0.1% 19.7% 31.1% | 2.0% 2.2% 1.8% 1.7% 0.3% 3.0% 0.3% 1.3% 0.2% 20.7% 36.0% | 2.2% 2.6% 2.1% 1.5% 0.4% 2.8% 1.3% 0.1% 1.4% 0.9% 22.7% 34.7% | 0.3% 0.5% 1.4% 3.1% 1.8% 2.1% 1.4% 0.3% 1.8% 1.3% 0.4% 1.9% 0.3% 1.6% 25.0% 31.0% | 0.2% 0.5% 1.2% 3.1% 2.1% 3.1% 1.4% 0.4% 2.0% 1.4% 0.4% 0.3% 1.5% 26.3% 32.6% | 0.3% 0.5% 0.9% 3.3% 2.7% 1.4% 0.4% 2.0% 1.4% 0.4% 0.4% 0.4% 0.3% 1.6% 26.8% 32.7% | 0.3% 0.5% 0.9% 3.1% 2.3% 3.0% 1.3% 0.4% 1.8% 1.3% 0.4% 2.7% 0.3% 1.7% 26.4% 31.3% | 0.3% 0.4% 1.0% 2.6% 2.3% 2.5% 1.4% 0.5% 1.8% 1.3% 0.4% 0.4% 3.1% 0.4% 1.7% 25.2% | 0.3% 0.5% 1.0% 2.4% 2.3% 2.4% 1.4% 0.5% 1.7% 1.5% 0.3% 0.4% 3.3% 0.4% 3.3% 3.3% 3.3% 3.3% 3.3% 3.3% 3.3% 3 | 0.3% 0.5% 0.8% 2.4% 2.2% 2.0% 1.4% 0.5% 1.8% 1.5% 0.3% 0.4% 3.5% 0.5% 1.7% 23.3% 30.1% | 0.3% 0.4% 0.6% 2.2% 1.9% 1.4% 0.5% 1.8% 0.4% 0.4% 0.5% 1.6% 21.9% 29.3% | 0.4% 0.6% 2.1% 1.7% 1.0% 1.4% 0.5% 1.7% 9.5% 0.4% 0.4% 0.5% 1.5% 0.4% 3.6% 0.5% 1.5% 30.3% |

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

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

**Not estimated separately prior to 1990.

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

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

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

‡ Other than food products.

Detailed data not available.

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

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 | ls of Tons | | | | | |
|---|--|---|---|---|---|--|--|--|--|---|---|---|
| Products | 1960 | 1970 | 1980 | 1990 | 1995 | 1999 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 350 | 940 | 1,360 | 3,460 | 5,010 | 5,920 | 6,580 | 8,030 | 8,230 | 8,360 | 8,430 | 9,080 |
| (Detail in Table 13) | | | | | | | | | | | | |
| Nondurable Goods | | | | | | | | | | | | |
| Newspapers/Mechanical Papers† | 1,820 | 2,250 | 3,020 | 5,110 | 7,010 | 8,040 | 8,720 | 9,360 | 8,550 | 7,740 | 6,840 | 7,070 |
| Directories†** | | | | 50 | 60 | 130 | 120 | 120 | 140 | 180 | 240 | - |
| Other Paper Nondurable Goods | | | | | | | | | | | | |
| Books and Magazines | 100 | 260 | 280 | | | | | | | | | |
| Books** | | | | 100 | 220 | 190 | 240 | 270 | 360 | 390 | 320 | - |
| Magazines** | | | | 300 | 650 | 550 | 710 | 960 | 1,010 | 820 | 780 | - |
| Office-Type Papers*** | 250 | 710 | 870 | 1,700 | 3,040 | 3,630 | 4,090 | 4,110 | 4,300 | 4,290 | 3,990 | - |
| Standard Mail§ | 400 | 0.40 | 0.50 | 200 | 710 | 1,360 | 1,830 | 2,090 | 2,380 | 2,240 | 2,950 | - |
| Other Commercial Printing† | 130 | 340 | 350 | 700 | 1,120 | 1,230 | 810 | 1,440 | 2,790 | 2,200 | 2,310 | - |
| Tissue Paper and Towels | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Paper Plates and Cups | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Other Nonpackaging Paper | 40 | 110 | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Total Other Paper Nondurable Goods | | | | NI. | NI. | NI. | Man | NI. | NI. | NI. | NI | 10,650 |
| Disposable Diapers | | | Noa | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Plastic Plates and Cups§ Trash Bags** | | | Neg. | Neg. Neg. | 10 Neg. | Neg. | Neg. Neg. | Neg. Neg. | Neg. Neg. | Neg. Neg. | Neg. Neg. | Neg. Neg. |
| Clothing and Footwear | 50 | 60 | 150 | 520 | 660 | Neg. 860 | 900 | 1,250 | 1,250 | 1,250 | 1,250 | 1,250 |
| Towels, Sheets and Pillowcases** | 50 | 00 | 150 | 120 | 130 | 140 | 140 | 1,230 | 1,230 | 200 | 210 | 220 |
| Other Miscellaneous Nondurables | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Total Nondurable Goods | 2,390 | 3,730 | 4,670 | 8,800 | 13,610 | 16,130 | 17,560 | 19,770 | 20,970 | 19,310 | 18,890 | 19,190 |
| Containers and Packaging | 2,870 | 3,350 | 8,490 | 16,780 | 27,530 | 28,750 | 28,870 | 31,500 | 33,900 | 34,050 | 34,210 | 36,510 |
| (Detail in Table 20) | 2,070 | 0,000 | 0, .00 | .0,,,00 | 27,000 | 20,700 | 20,0.0 | 0.,000 | 00,000 | 0.,000 | 0.,2.0 | 00,0.0 |
| . , | 5,610 | 8,020 | 14,520 | 29,040 | 46,150 | 50,800 | 53,010 | 59,300 | 63,100 | 61,720 | 61,530 | 64,780 |
| i otai product Wastes‡ | | | | - , | | | - | | | | | |
| Total Product Wastes‡ Other Wastes | | | Nea. | 4.200 | 9.600 | 14.720 | 16.450 | 20.550 | 21.710 | 1 22.100 | 20./50 | 20.1/0 |
| Other Wastes Total MSW Recovered - Weight | Neg. 5,610 | Neg. 8,020 | Neg. 14,520 | 4,200 33,240 | 9,600 55,750 | 14,720 65,520 | 16,450 69,460 | 20,550 79,850 | 21,710 84,810 | 22,100 83,820 | 20,750 82,280 | 20,170 84,950 |
| Other Wastes | Neg. | Neg. | , | 33,240 | 55,750 | 65,520 | 69,460 | 79,850 | 84,810 | 83,820 | | |
| Other Wastes | Neg. | Neg. 8,020 | , | 33,240 | 55,750 | 65,520 | _ | 79,850 | 84,810 | _ | | 84,950 |
| Other Wastes Total MSW Recovered - Weight | Neg. 5,610 | Neg. | 14,520 | 33,240 | 55,750 Percent o | 65,520 f Generati | 69,460 on of Eac | 79,850 h Product | 84,810 | 83,820 | 82,280 | |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods | Neg. 5,610 | Neg. 8,020 | 14,520 1980 | 33,240 1990 | 55,750 Percent o 1995 | 65,520 f Generati 1999 | 69,460 on of Eac 2000 | 79,850 h Product 2005 | 84,810 2007 | 83,820 2008 | 82,280 2009 | 84,950 2010 |
| Other Wastes Total MSW Recovered - Weight Products | Neg. 5,610 | Neg. 8,020 | 14,520 1980 | 33,240 1990 | 55,750 Percent o 1995 | 65,520 f Generati 1999 | 69,460 on of Eac 2000 | 79,850 h Product 2005 | 84,810 2007 | 83,820 2008 | 82,280 2009 | 84,950 2010 |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) | Neg. 5,610 | Neg. 8,020 | 14,520 1980 | 33,240 1990 | 55,750 Percent o 1995 | 65,520 f Generati 1999 | 69,460 on of Eac 2000 | 79,850 h Product 2005 | 84,810 2007 | 83,820 2008 | 82,280 2009 | 84,950 2010 |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) Nondurable Goods | Neg. 5,610 1960 3.5% | Neg. 8,020 1970 6.4% | 14,520 1980 6.2% | 33,240 1990 11.6% | 55,750 Percent o 1995 16.1% | 65,520 f Generati 1999 16.8% | 69,460 on of Eac 2000 16.9% | 79,850 h Product 2005 17.9% | 2007 17.8% | 2008 17.8% | 2009 17.7% | 2010 18.5% |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† | Neg. 5,610 1960 3.5% | Neg. 8,020 1970 6.4% | 14,520 1980 6.2% | 33,240 1990 11.6% | 55,750 Percent o 1995 16.1% | 65,520 f Generati 1999 16.8% | 69,460 on of Eac 2000 16.9% | 79,850 h Product 2005 17.9% | 2007 17.8% | 2008 17.8% | 2009 17.7% | 2010 18.5% |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** | Neg. 5,610 1960 3.5% | Neg. 8,020 1970 6.4% | 14,520 1980 6.2% | 33,240 1990 11.6% | 55,750 Percent o 1995 16.1% | 65,520 f Generati 1999 16.8% | 69,460 on of Eac 2000 16.9% | 79,850 h Product 2005 17.9% | 2007 17.8% | 2008 17.8% | 2009 17.7% | 2010 18.5% |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods | Neg. 5,610 1960 3.5% | Neg. 8,020 1970 6.4% | 14,520 1980 6.2% 27.3% | 33,240 1990 11.6% 38.0% 8.2% | 55,750 Percent o | 65,520 f Generati 1999 16.8% 54.1% 17.6% | 69,460 on of Eac 2000 16.9% 59.0% 17.6% | 79,850 h Product 2005 17.9% 73.2% 18.2% | 2007 17.8% 79.3% 18.4% 28.3% | 83,820 2008 17.8% 88.0% 21.4% 29.1% | 2009 17.7% 88.1% 36.9% | 2010 18.5% |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** | Neg. 5,610 1960 3.5% 25.6% | Neg. 8,020 1970 6.4% 23.7% | 14,520 1980 6.2% 27.3% 8.3% | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% | 55,750 Percent o 1995 16.1% 53.3% 12.2% 19.1% 25.7% | 65,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% | 69,460 on of Eac 2000 16.9% 59.0% 17.6% 19.4% 31.8% | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% | 2007 17.8% 79.3% 18.4% 28.3% 39.6% | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% | 2009 17.7% 88.1% 36.9% 33.3% 53.8% | 2010 18.5% |
| Other Wastes Total MSW Recovered - Weight Products Durable Goods (Detail in Table 13) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines Books** Magazines** Office-Type Papers*** | Neg. 5,610 1960 3.5% | Neg. 8,020 1970 6.4% | 14,520 1980 6.2% 27.3% | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% | 55,750 Percent o 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% | 65,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% | 69,460 on of Eac 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% | 79.3% 18.4% 28.3% 39.6% 71.0% | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% | 2010 18.5% 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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§ | Neg. 5,610 1960 3.5% 25.6% 5.2% | Neg. 8,020 1970 6.4% 23.7% 10.5% | 14,520 1980 6.2% 27.3% 8.3% 21.8% | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% | 53.3% 12.2% 19.1% 53.3% 12.2% | 65,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8% | 84,810 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% | 2010 18.5% 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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† | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% 10.3% | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 5.2% 15.7% | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% | 55,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% | 84,810 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% | 2010 18.5% 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% 10.3% Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 16.5% Neg. | 65,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. | 84,810 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. | 2010 18.5% 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. Neg. Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 5.2% 5.2% Neg. | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. | 65,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% Neg. | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. | 84,810 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. | 2010 18.5% 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% 10.3% Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 16.5% Neg. | 65,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. | 79,850 h Product 2005 17.9% 73.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. | 84,810 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. | 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. Neg. Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. | 55,750 Percent o 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. Neg. | 54.1% 17.6% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. Neg. | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. | 79,850 h Product 2005 17.9% 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. | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. | 71.6% |
| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. Neg. Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. Neg. | 55,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. Neg. | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. | 79,850 h Product 2005 17.9% 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. | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. | 84,950 2010 18.5% 71.6% 45.0% Neg. |
| Other Wastes Total MSW Recovered - Weight Products 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§ | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. Neg. Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. Neg. 1.3% | 55,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. Neg. Neg. | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. | 79,850 h Product 2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. | 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 63.4% 66.2% Neg. Neg. Neg. | 2010 18.5% 71.6% - - - - - - - 45.0% Neg. |
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| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. Neg. 1.5% Neg. Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. Neg. Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 55,750 Percent o 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. 1.3% Neg. 1.3% Neg. 13.0% Neg. | 55,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 69,460 on of Eacl 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. | 79,850 h Product 2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 83,820 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. | 82,280 2009 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. |
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| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. Neg. 1.5% Neg. Neg. | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. Neg. Neg. | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 5.2% 15.7% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 55,750 Percent o 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. 1.3% Neg. 1.3% Neg. 13.0% Neg. | 55,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 69,460 on of Eacl 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. | 79,850 h Product 2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 83,820 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. | 82,280 2009 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. |
| Other Wastes Total MSW Recovered - Weight Products 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) | Neg. 5,610 1960 3.5% 25.6% 5.2% 16.4% Neg. 1.5% Neg. 1.5% | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. Neg. 3.0% Neg. Neg. 7.7% | 14,520 1980 6.2% 27.3% 8.3% 21.8% 11.2% Neg. Neg. Neg. Neg. 13.6% 16.1% | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 26.5% 15.7% Neg. Neg. Neg. Neg. Neg. 13.0% 16.9% 26.0% | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 16.5% Neg. Neg. Neg. 13.0% 17.6% Neg. 23.8% 38.9% | 65,520 f Generati 1999 16.8% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. Neg. Neg. Neg. 13.7% 17.9% Neg. 37.4% | 69,460 on of Eacl 2000 16.9% 59.0% 17.6% 19.4% 31.8% 55.1% 32.9% 11.0% Neg. Neg. Neg. 13.9% 17.1% Neg. 27.4% 38.1% | 79,850 h Product 2005 17.9% 18.2% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. 15.8% 17.3% 41.3% | 2007 17.8% 79.3% 18.4% 28.3% 39.6% 71.0% 45.0% Neg. Neg. Neg. Neg. 15.0% 17.3% 17.3% 14.0% 43.3% | 83,820 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% 17.2% 45.0% | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 74.2% 66.2% Neg. Neg. Neg. Neg. Neg. 13.8% 17.1% Neg. 35.3% 48.0% | 2010 18.5% 71.6% - - - - - - - 45.0% Neg. Neg. Neg. 14.0% 17.1% Neg. 36.1% |
| Other Wastes Total MSW Recovered - Weight Products 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 | Neg. 5,610 1960 3.5% 25.6% 16.4% 10.3% Neg. Neg. Neg. Neg. 1.5% | Neg. 8,020 1970 6.4% 23.7% 10.5% 26.8% 16.0% Neg. Neg. Neg. 14.9% | 14,520 1980 6.2% 27.3% 8.3% 21.8% Neg. Neg. Neg. Neg. Neg. | 33,240 1990 11.6% 38.0% 8.2% 10.3% 10.6% 5.2% 15.7% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. 13.0% 16.9% | 55,750 Percent 0 1995 16.1% 53.3% 12.2% 19.1% 25.7% 45.8% 15.4% 16.5% Neg. Neg. Neg. 1.3% Neg. 1.3% Neg. 1.3% Neg. 1.3% Neg. 13.0% 17.6% Neg. 23.8% | 55,520 f Generati 1999 16.8% 54.1% 17.6% 16.8% 24.9% 47.1% 25.6% 19.6% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 69,460 on of Eacl 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% | 79,850 h Product 2005 17.9% 18.2% 24.5% 37.2% 62.1% 35.8% 22.4% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 79.3% 18.4% 28.3% 39.6% 71.0% 40.3% 45.0% Neg. Neg. Neg. Neg. Neg. Neg. 15.0% 17.3% Neg. 34.0% | 83,820 2008 17.8% 88.0% 21.4% 29.1% 40.0% 70.9% 40.7% 42.9% Neg. Neg. Neg. Neg. Neg. Neg. Neg. Neg. | 82,280 2009 17.7% 88.1% 36.9% 33.3% 53.8% 62.4% 66.2% Neg. Neg. Neg. Neg. Neg. Neg. 13.8% 17.1% Neg. 35.3% | 71.6% |

^{*} 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.
 Source: Franklin Associates, A Division of ERG

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 | 1 | | | | |
|---|---|--|--|---|--|--|---|--|--|---|--|---|
| Products | 1960 | 1970 | 1980 | 1990 | 1995 | 1999 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 9,570 | 13,720 | 20,440 | 26,350 | 26,130 | 29,420 | 32,270 | 36,900 | 38,030 | 38,590 | 39,150 | 40,000 |
| (Detail in Table 14) | , | , | , | , | | , | , | | , | , | , | · · |
| Nondurable Goods | | | • | • | • | | • | • | | | | • |
| Newspapers/Mechanical Papers† | 5,290 | 7,260 | 8,030 | 8,320 | 6,130 | 6,830 | 6,070 | 3,430 | 2,230 | 1,060 | 920 | 2,810 |
| Directories†** | | | | 560 | 430 | 610 | 560 | 540 | 620 | 660 | 410 | - |
| Other Paper Nondurable Goods | | | | | | | | | | | | |
| Books and Magazines | 1,820 | 2,210 | 3,110 | | | | | | | | | |
| Books** | | | | 870 | 930 | 940 | 1,000 | 830 | 910 | 950 | 640 | - |
| Magazines** | | | | 2,530 | 1,880 | 1,660 | 1,520 | 1,620 | 1,540 | 1,230 | 670 | - |
| Office-Type Papers*** | 1,270 | 1,940 | 3,130 | 4,710 | 3,600 | 4,080 | 3,330 | 2,510 | 1,760 | 1,760 | 1,390 | - |
| Standard Mail§ | | | | 3,620 | 3,910 | 3,960 | 3,740 | 3,740 | 3,530 | 3,270 | 1,700 | - |
| Other Commercial Printing† | 1,130 | 1,790 | 2,770 | 3,760 | 5,650 | 5,040 | 6,570 | 5,000 | 3,410 | 2,930 | 1,180 | - |
| Tissue Paper and Towels | 1,090 | 2,080 | 2,300 | 2,960 | 2,970 | 3,240 | 3,220 | 3,460 | 3,500 | 3,460 | 3,490 | - |
| Paper Plates and Cups | 270 | 420 | 630 | 650 | 970 | 950 | 960 | 1,160 | 1,230 | 1,250 | 1,170 | - |
| Other Nonpackaging Paper | 2,660 | 3,520 | 4,230 | 3,840 | 4,270 | 4,620 | 4,250 | 4,490 | 4,260 | 4,630 | 4,420 | - |
| Total Other Paper Nondurable Goods | | | | | | | | | | | | 13,040 |
| Disposable Diapers | Neg. | 350 | 1,930 | 2,700 | 3,010 | 3,310 | 3,230 | 3,410 | 3,730 | 3,770 | 3,810 | 3,740 |
| Plastic Plates and Cups§ | | | 190 | 650 | 770 | 910 | 870 | 930 | 860 | 780 | 900 | 890 |
| Trash Bags** | | | | 780 | 780 | 950 | 850 | 1,060 | 1,070 | 930 | 1,000 | 980 |
| Clothing and Footwear | 1,310 | 1,560 | 2,020 | 3,490 | 4,410 | 5,400 | 5,570 | 6,640 | 7,070 | 7,570 | 7,830 | 7,700 |
| Towels, Sheets and Pillowcases** | | | | 590 | 610 | 640 | 680 | 810 | 910 | 960 | 1,020 | 1,070 |
| Other Miscellaneous Nondurables | 100 | 200 | 1,410 | 3,340 | 3,320 | 3,730 | 4,030 | 4,250 | 4,160 | 4,170 | 4,000 | 3,720 |
| Total Nondurable Goods | 14,940 | 21,330 | 29,750 | 43,370 | 43,640 | 46,870 | 46,450 | 43,880 | 40,790 | 39,380 | 34,550 | 33,950 |
| Containers and Packaging | 24,500 | 40,210 | 44,180 | 47,750 | 43,200 | 48,050 | 46,970 | 44,830 | 44,470 | 41,650 | 37,110 | 39,130 |
| (Detail in Table 22) | 40.040 | 75.000 | 04.070 | 447.470 | 440.070 | 101010 | 405 000 | 105.010 | 400.000 | 440.000 | 440.040 | 440.000 |
| Total Product Wastes‡ | 49,010 | 75,260 | 94,370 | 117,470 | 112,970 | 124,340 | 125,690 | 125,610 | 123,290 | 119,620 | 110,810 | 113,080 |
| Other Wastes | 33,500 | 37,780 | 42,750 | 57,560 | 48,560 | 45,020 | 47,390 | 47,200 | 47,280 | 47,920 | 50,560 | 51,830 |
| Total MSW Discarded - Weight | 82,510 | 113,040 | 137,120 | 175,030 | 161,530 | 169,360 | 173,080 | 172,810 | 170,570 | 167,540 | 161,370 | 164,910 |
| Dreducto | 1960 | 1970 | 1980 | 1990 | 1995 | 1999 | otal Disca 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Products Durable Goods | | | 1900 | 1990 | | 1999 | 2000 | 2005 | 2007 | 2000 | 2009 | 2010 |
| | | 10 10/ | 1 / 00/ | 45 40/ | 16 00/ | 17 40/ | 10 00/ | 01 40/ | 22 20/ | 22 00/ | 04.00/ | 04.00/ |
| | 11.6% | 12.1% | 14.9% | 15.1% | 16.2% | 17.4% | 18.6% | 21.4% | 22.3% | 23.0% | 24.3% | 24.3% |
| (Detail in Table 14) | 11.6% | 12.1% | 14.9% | 15.1% | 16.2% | 17.4% | 18.6% | 21.4% | 22.3% | 23.0% | 24.3% | 24.3% |
| (Detail in Table 14) Nondurable Goods | | | | | | | | | | | | |
| (Detail in Table 14) Nondurable Goods Newspapers/Mechanical Papers† | 6.4% | 6.4% | 5.9% | 4.8% | 3.8% | 4.0% | 3.5% | 2.0% | 1.3% | 0.6% | 0.6% | 1.7% |
| (Detail in Table 14) Nondurable Goods Newspapers/Mechanical Papers† Directories†** | | | | | | | | | | | | 1.7% |
| (Detail in Table 14) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods | 6.4% | 6.4% | 5.9% | 4.8% | 3.8% | 4.0% | 3.5% | 2.0% | 1.3% | 0.6% | 0.6% | 1.7% |
| (Detail in Table 14) Nondurable Goods Newspapers/Mechanical Papers† Directories†** Other Paper Nondurable Goods Books and Magazines | | | | 4.8% 0.3% | 3.8% 0.3% | 4.0% 0.4% | 3.5% 0.3% | 2.0% 0.3% | 1.3% 0.4% | 0.6% | 0.6% | 1.7% |
| (Detail in Table 14) 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% | 3.8% 0.3% 0.6% | 4.0% 0.4% 0.6% | 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% | 1.7% |
| (Detail in Table 14) 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% | 3.8% 0.3% | 4.0% 0.4% | 3.5% 0.3% | 2.0% 0.3% | 1.3% 0.4% | 0.6% | 0.6% | 1.7% |
| (Detail in Table 14) 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% 1.4% | 3.8% 0.3% 0.6% 1.2% | 4.0% 0.4% 0.6% 1.0% | 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% | 1.7% |
| (Detail in Table 14) 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% | 3.8% 0.3% 0.6% 1.2% 2.2% | 4.0% 0.4% 0.6% 1.0% 2.4% | 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% | 1.7% |
| (Detail in Table 14) 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% 2.0% 1.7% | 5.9% 2.3% 2.3% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% | 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% | 1.7% |
| (Detail in Table 14) 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% | 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% | 1.7% |
| (Detail in Table 14) 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% | 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% | 1.7% - - - - |
| (Detail in Table 14) 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% | 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% - - - - |
| (Detail in Table 14) 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% | 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% |
| (Detail in Table 14) 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% | 6.4% 2.0% 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% 2.7% | 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% 2.9% 2.0% 0.7% 2.6% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 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% 7.9% |
| (Detail in Table 14) 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% | 6.4% 2.0% 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% 2.6% | 4.0% 0.4% 0.6% 1.0% 2.4% 3.0% 3.0% 0.6% 2.7% 2.0% 0.5% 0.6% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 0.6% 2.5% 1.9% 0.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 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% |
| (Detail in Table 14) 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% | 6.4% 2.0% 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% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% 2.6% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% 2.7% | 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% 2.9% 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% 2.7% | 1.7% |
| (Detail in Table 14) 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% 1.7% 2.2% 1.5% 0.4% 0.4% 0.4% 0.4% 0.3% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% 2.6% 1.9% 0.5% | 4.0% 0.4% 0.6% 1.0% 2.4% 3.0% 3.0% 0.6% 2.7% 2.0% 0.5% 0.6% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 3.8% 0.6% 2.5% 1.9% 0.5% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 2.0% 0.7% 2.6% 2.0% 0.5% 0.6% | 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% |
| (Detail in Table 14) 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% 1.3% 0.3% 3.2% Neg. 1.6% 0.1% | 1.7% 1.6% 1.8% 0.4% 3.1% 0.3% 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% 2.2% 1.5% 0.4% 0.4% 0.4% 0.3% 1.9% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% 0.5% 0.5% 0.5% 0.5% 0.4% 2.7% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% 2.7% 2.0% 0.5% 0.6% 3.2% | 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% 0.4% 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% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 0.7% 2.5% 2.2% 0.6% 4.1% | 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% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.6% 0.6% 0.6% 4.9% 0.6% 2.5% | 1.7% |
| (Detail in Table 14) 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% 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% 2.1% 1.7% 0.4% 2.2% 1.5% 0.4% 0.4% 0.4% 2.0% 0.3% 1.9% 24.8% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% 0.5% 0.5% 0.5% 0.4% 2.7% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% 2.7% 0.5% 0.6% 3.2% 0.4% 2.2% 27.7% | 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% 3.2% 0.4% 2.3% 26.8% | 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% 25.4% | 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% 2.18 0.7% 0.5% 0.6% 4.5% 0.6% 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% 4.9% 0.6% 4.9% 2.5% 21.4% | 1.7% 7.9% 2.3% 0.5% 0.6% 4.7% 0.6% 2.3% 20.6% |
| (Detail in Table 14) 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% | 1.7% 1.6% 1.8% 0.4% 3.1% 0.3% 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% 2.2% 1.5% 0.4% 0.4% 0.4% 0.3% 1.9% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 1.8% 0.6% 0.5% 0.5% 0.5% 0.5% 0.4% 2.7% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 1.9% 0.6% 2.7% 2.0% 0.5% 0.6% 3.2% | 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% 0.4% 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% 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% 0.3% 0.4% 0.4% 0.9% 1.1% 0.7% 2.2% 0.6% 0.6% 0.6% 4.9% 0.6% 2.5% | 1.7% 7.9% 2.3% 0.5% 0.6% 4.7% 0.6% 2.3% |
| (Detail in Table 14) 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% 1.7% 21.7% 32.2% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% 2.2% 1.5% 0.4% 0.3% 1.9% 24.8% 27.3% | 3.8% 0.3% 0.6% 1.2% 2.2% 3.5% 3.5% 0.6% 2.6% 0.5% 0.5% 0.5% 2.7% 0.4% 2.1% 27.0% | 4.0% 0.4% 0.6% 1.0% 2.4% 3.0% 0.6% 2.7% 2.0% 0.5% 0.6% 3.2% 0.4% 2.2% 27.7% 28.4% | 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% 0.4% 2.3% 26.8% 27.1% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 0.7% 2.6% 0.5% 0.6% 3.8% 0.5% 2.5.4% 25.4% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 0.7% 2.5% 2.2% 0.6% 4.1% 0.5% 2.4% 2.3% 2.3% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 0.7% 2.8% 2.3% 0.6% 4.5% 0.6% 2.5% 23.5% 24.9% | 0.6% 0.3% 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% |
| (Detail in Table 14) 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) Total Product Wastes‡ | 6.4% 2.2% 1.5% 1.4% 1.3% 0.3% 3.2% Neg. 1.6% 0.1% 18.1% 29.7% 59.4% | 1.7% 1.6% 1.8% 0.4% 3.1% 0.3% 1.4% 0.2% 18.9% 35.6% 66.6% | 5.9% 2.3% 2.3% 2.0% 1.7% 0.5% 3.1% 1.4% 0.1% 1.5% 21.7% 32.2% 68.8% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 0.4% 2.2% 1.5% 0.4% 2.0% 0.3% 1.9% 24.8% 27.3% | 3.8% 0.3% 0.6% 1.2% 2.2% 2.4% 3.5% 0.6% 2.6% 1.9% 0.5% 0.5% 2.7% 0.4% 2.1% 27.0% 69.9% | 4.0% 0.4% 0.6% 1.0% 2.4% 2.3% 3.0% 0.6% 2.7% 2.0% 0.5% 0.6% 3.2% 0.4% 2.2% 27.7% 28.4% | 3.5% 0.3% 0.6% 0.9% 1.9% 2.2% 0.6% 2.5% 1.9% 0.5% 0.5% 3.2% 0.4% 2.3% 26.8% 27.1% | 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% 25.4% 25.9% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 2.0% 0.7% 2.5% 2.2% 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% 0.5% 0.6% 4.5% 0.6% 2.5% 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% 4.9% 0.6% 2.5% 21.4% 23.0% | 1.7% |
| (Detail in Table 14) 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% 1.7% 21.7% 32.2% | 4.8% 0.3% 0.5% 1.4% 2.7% 2.1% 2.1% 1.7% 0.4% 2.2% 1.5% 0.4% 0.3% 1.9% 24.8% 27.3% | 3.8% 0.3% 0.6% 1.2% 2.2% 3.5% 3.5% 0.6% 2.6% 0.5% 0.5% 0.5% 2.7% 0.4% 2.1% 27.0% | 4.0% 0.4% 0.6% 1.0% 2.4% 3.0% 0.6% 2.7% 2.0% 0.5% 0.6% 3.2% 0.4% 2.2% 27.7% 28.4% | 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% 0.4% 2.3% 26.8% 27.1% | 2.0% 0.3% 0.5% 0.9% 1.5% 2.2% 0.7% 2.6% 0.5% 0.6% 3.8% 0.5% 2.5.4% 25.4% | 1.3% 0.4% 0.5% 0.9% 1.0% 2.1% 0.7% 2.5% 2.2% 0.6% 4.1% 0.5% 2.4% 2.3% 2.3% | 0.6% 0.4% 0.6% 0.7% 1.1% 2.0% 0.7% 2.8% 2.3% 0.6% 4.5% 0.6% 2.5% 23.5% 24.9% | 0.6% 0.3% 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% |

<sup>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.

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.

United Standard Mail: Not estimated separately prior to 1980.

Detailed data not available.

Neg. = Less than 5,000 tons or 0.05 percent.</sup>

Table 18

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

| | | | | | Thousan | ds of Ton | s | | | |
|---------------------------------------|--------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 9,920 | 14,660 | 21,800 | 29,810 | 38,850 | 44,930 | 46,260 | 46,950 | 47,580 | 49,080 |
| (Detail in Table 12) | | | | | | | | | | |
| Nondurable Goods | 17,330 | 25,060 | 34,420 | 52,170 | 64,010 | 63,650 | 61,760 | 58,690 | 53,440 | 53,140 |
| (Detail in Table 15) | | | | | | | | | | |
| Containers and Packaging | | | | | | | | | | |
| Glass Packaging | | | | | | | | | | |
| Beer and Soft Drink Bottles** | 1,400 | 5,580 | 6,740 | 5,640 | 5,710 | 6,540 | 6,760 | 6,350 | 6,000 | 5,670 |
| Wine and Liquor Bottles | 1,080 | 1,900 | 2,450 | 2,030 | 1,910 | 1,630 | 1,620 | 1,610 | 1,710 | 1,700 |
| Other Bottles & Jars | 3,710 | 4,440 | 4,780 | 4,160 | 3,420 | 2,290 | 2,030 | 2,090 | 1,950 | 1,990 |
| Total Glass Packaging | 6,190 | 11,920 | 13,970 | 11,830 | 11,040 | 10,460 | 10,410 | 10,050 | 9,660 | 9,360 |
| Steel Packaging | | | | | | | | | | |
| Beer and Soft Drink Cans | 640 | 1,570 | 520 | 150 | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Cans | 3,760 | 3,540 | 2,850 | 2,540 | 2,630 | 2,130 | 2,430 | 2,240 | 1,880 | 2,300 |
| Other Steel Packaging | 260 | 270 | 240 | 200 | 240 | 240 | 240 | 240 | 360 | 440 |
| Total Steel Packaging | 4,660 | 5,380 | 3,610 | 2,890 | 2,870 | 2,370 | 2,670 | 2,480 | 2,240 | 2,740 |
| Aluminum Packaging | | , | | | , | | | | , | , |
| Beer and Soft Drink Cans | Neg. | 100 | 850 | 1,550 | 1,520 | 1,450 | 1,420 | 1,390 | 1,360 | 1,370 |
| Other Cans | Neg. | 60 | 40 | 20 | 50 | 80 | 30 | 70 | 60 | 70 |
| Foil and Closures | 170 | 410 | 380 | 330 | 380 | 400 | 430 | 420 | 460 | 460 |
| Total Aluminum Packaging | 170 | 570 | 1,270 | 1,900 | 1,950 | 1,930 | 1,880 | 1,880 | 1,880 | 1,900 |
| Paper & Paperboard Pkg | 170 | 070 | 1,270 | 1,500 | 1,000 | 1,500 | 1,000 | 1,000 | 1,000 | 1,500 |
| Corrugated Boxes | 7,330 | 12.760 | 17,080 | 24,010 | 30,210 | 30,930 | 31,230 | 29,710 | 27,190 | 29,050 |
| Other Paper & Paperboard Pkg | 7,000 | 12,700 | 17,000 | 24,010 | 30,210 | 30,330 | 31,200 | 23,710 | 27,130 | 23,030 |
| Gable Top/Aseptic Cartons‡ | | | 790 | 510 | 550 | 500 | 500 | 490 | 460 | 540 |
| Folding Cartons | | | 3,820 | 4,300 | 5,820 | 5.530 | 5,530 | 5,340 | 4,980 | 5,470 |
| Other Paperboard Packaging | 3,840 | 4,830 | 230 | 290 | 200 | 160 | 150 | 120 | 90 | 90 |
| Bags and Sacks | 3,040 | 4,030 | | | | | | | 910 | 1,040 |
| • | | | 3,380 | 2,440 | 1,490 | 1,120 | 1,140 | 1,170 | | 1 |
| Wrapping Papers | 0.040 | 0.040 | 200 | 110 | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Other Paper Packaging | 2,940 | 3,810 | 850 | 1,020 | 1,670 | 1,400 | 1,390 | 1,460 | 1,310 | 1,490 |
| Subtotal Other Paper & Paperboard Pkg | | 04 400 | 00.050 | 00.000 | 00.040 | 00.040 | 00.040 | 00.000 | 04040 | 8,630 |
| Total Paper & Board Pkg | 14,110 | 21,400 | 26,350 | 32,680 | 39,940 | 39,640 | 39,940 | 38,290 | 34,940 | 37,680 |
| Plastics Packaging | | | | | | | | | | |
| PET Bottles and Jars | | | 260 | 430 | 1,720 | 2,540 | 2,840 | 2,680 | 2,570 | 2,670 |
| HDPE Natural Bottles | | | 230 | 530 | 690 | 800 | 820 | 750 | 760 | 800 |
| Other Containers | 60 | 910 | 890 | 1,430 | 1,740 | 1,420 | 1,910 | 1,900 | 1,750 | 1,830 |
| Bags and Sacks | | | 390 | 940 | 1,650 | 1,640 | 1,010 | 940 | 660 | 770 |
| Wraps | | | 840 | 1,530 | 2,550 | 2,810 | 3,180 | 3,020 | 3,190 | 3,160 |
| Subtotal Bags, Sacks, and Wraps | | | 1,230 | 2,470 | 4,200 | 4,450 | 4,190 | 3,960 | 3,850 | 3,930 |
| Other Plastics Packaging | 60 | 1,180 | 790 | 2,040 | 2,840 | 3,210 | 3,870 | 3,720 | 3,600 | 4,450 |
| Total Plastics Packaging | 120 | 2,090 | 3,400 | 6,900 | 11,190 | 12,420 | 13,630 | 13,010 | 12,530 | 13,680 |
| Wood Packaging | 2,000 | 2,070 | 3,940 | 8,180 | 8,610 | 9,230 | 9,520 | 9,680 | 9,790 | 9,940 |
| Other Misc. Packaging | 120 | 130 | 130 | 150 | 240 | 280 | 320 | 310 | 280 | 340 |
| Total Containers & Pkg | 27,370 | 43,560 | 52,670 | 64,530 | 75,840 | 76,330 | 78,370 | 75,700 | 71,320 | 75,640 |
| Total Product Wastes† | 54,620 | 83,280 | 108,890 | 146,510 | 178,700 | 184,910 | 186,390 | 181,340 | 172,340 | 177,860 |
| Other Wastes | | | | | | | | | | |
| 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 |

^{*} Generation before materials recovery or combustion.

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

[†] Other than food products.

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

Details may not add to totals due to rounding.

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

⁻ Detailed data not available.

Table 19

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

| | | | | Perc | ent of To | tal Genera | ation | | | |
|---------------------------------------|--------|--------|--------|---------|-----------|------------|--------|--------|--------|--------|
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 11.3% | 12.1% | 14.4% | 14.3% | 16.0% | 17.8% | 18.1% | 18.7% | 19.5% | 19.6% |
| (Detail in Table 12) | | | | | | | | | | |
| Nondurable Goods | 19.7% | 20.7% | 22.7% | 25.0% | 26.4% | 25.2% | 24.2% | 23.3% | 21.9% | 21.3% |
| (Detail in Table 15) | | | | | | | | | | |
| Containers and Packaging | | | | | | | | | | |
| Glass Packaging | | | | | | | | | | |
| Beer and Soft Drink Bottles** | 1.6% | 4.6% | 4.4% | 2.7% | 2.4% | 2.6% | 2.6% | 2.5% | 2.5% | 2.3% |
| Wine and Liquor Bottles | 1.2% | 1.6% | 1.6% | 1.0% | 0.8% | 0.6% | 0.6% | 0.6% | 0.7% | 0.7% |
| Other Bottles & Jars | 4.2% | 3.7% | 3.2% | 2.0% | 1.4% | 0.9% | 0.8% | 0.8% | 0.8% | 0.8% |
| Total Glass Packaging | 7.0% | 9.8% | 9.2% | 5.7% | 4.6% | 4.1% | 4.1% | 4.0% | 4.0% | 3.7% |
| Steel Packaging | | | | | | | | | | |
| Beer and Soft Drink Cans | 0.7% | 1.3% | 0.3% | 0.1% | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Cans | 4.3% | 2.9% | 1.9% | 1.2% | 1.1% | 0.8% | 1.0% | 0.9% | 0.8% | 0.9% |
| Other Steel Packaging | 0.3% | 0.2% | 0.2% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.2% |
| Total Steel Packaging | 5.3% | 4.4% | 2.4% | 1.4% | 1.2% | 0.9% | 1.0% | 1.0% | 0.9% | 1.1% |
| Aluminum Packaging | | | | | | | | | | |
| Beer and Soft Drink Cans | Neg. | 0.1% | 0.6% | 0.7% | 0.6% | 0.6% | 0.6% | 0.6% | 0.6% | 0.5% |
| Other Cans | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | 0.01% | 0.03% | 0.02% | 0.03% |
| Foil and Closures | 0.2% | 0.3% | 0.3% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% |
| Total Aluminum Packaging | 0.2% | 0.5% | 0.8% | 0.9% | 0.8% | 0.8% | 0.7% | 0.7% | 0.8% | 0.8% |
| Paper & Paperboard Pkg | | | | | | | | | | |
| Corrugated Boxes | 8.3% | 10.5% | 11.3% | 11.5% | 12.5% | 12.2% | 12.2% | 12.2% | 11.2% | 11.6% |
| Other Paper & Paperboard Pkg | 0.070 | | | | | 1 -1 - 7 - | , • | | ,• | |
| Gable Top/Aseptic Cartons‡ | | | 0.5% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% |
| Folding Cartons | | | 2.5% | 2.1% | 2.4% | 2.2% | 2.2% | 2.1% | 2.0% | 2.2% |
| Other Paperboard Packaging | 4.4% | 4.0% | 0.2% | 0.1% | 0.1% | 0.1% | 0.1% | 0.0% | 0.0% | 0.0% |
| Bags and Sacks | 1.170 | 1.070 | 2.2% | 1.2% | 0.6% | 0.4% | 0.4% | 0.5% | 0.4% | 0.4% |
| Wrapping Papers | | | 0.1% | 0.1% | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Other Paper Packaging | 3.3% | 3.1% | 0.6% | 0.5% | 0.7% | 0.6% | 0.5% | 0.6% | 0.5% | 0.6% |
| Subtotal Other Paper & Paperboard Pkg | 0.070 | 0.170 | 0.070 | 0.070 | 0.770 | 0.070 | 0.070 | 0.070 | 0.070 | 3.5% |
| Total Paper & Board Pkg | 16.0% | 17.7% | 17.4% | 15.7% | 16.5% | 15.7% | 15.6% | 15.2% | 14.3% | 15.1% |
| Plastics Packaging | 10.070 | 17.770 | 17.470 | 10.7 70 | 10.070 | 10.770 | 10.070 | 10.270 | 14.070 | 10.170 |
| PET Bottles and Jars | | | 0.2% | 0.2% | 0.7% | 1.0% | 1.1% | 1.1% | 1.1% | 1.1% |
| HDPE Natural Bottles | | | 0.2% | 0.2% | 0.7% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% |
| Other Containers | 0.1% | 0.8% | 0.6% | 0.5% | 0.7% | 0.6% | 0.7% | 0.8% | 0.7% | 0.7% |
| Bags and Sacks | 0.170 | 0.070 | 0.3% | 0.5% | 0.7% | 0.6% | 0.4% | 0.4% | 0.7% | 0.7% |
| Wraps | | | 0.6% | 0.5% | 1.1% | 1.1% | 1.2% | 1.2% | 1.3% | 1.3% |
| Subtotal Bags, Sacks, and Wraps | | | 0.8% | 1.2% | 1.7% | 1.1% | 1.6% | 1.6% | 1.6% | 1.6% |
| Other Plastics Packaging | 0.1% | 1.0% | 0.6% | 1.0% | 1.7% | 1.3% | 1.5% | 1.5% | 1.5% | 1.8% |
| Total Plastics Packaging | 0.1% | 1.0% | 2.2% | 3.3% | 4.6% | 4.9% | 5.3% | 5.2% | 5.1% | 5.5% |
| Wood Packaging | 2.3% | 1.7% | 2.6% | 3.9% | 3.5% | 3.7% | 3.7% | 3.9% | 4.0% | 4.0% |
| Other Misc. Packaging | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| | | | | | | | | | | |
| Total Containers & Pkg | 31.1% | 36.0% | 34.7% | 31.0% | 31.3% | 30.2% | 30.7% | 30.1% | 29.3% | 30.3% |
| Total Product Wastes† Other Wastes | 62.0% | 68.8% | 71.8% | 70.3% | 73.7% | 73.2% | 73.0% | 72.1% | 70.7% | 71.2% |
| Food Scraps | 13.8% | 10.6% | 8.6% | 11.5% | 12.3% | 12.7% | 12.8% | 13.3% | 14.1% | 13.9% |
| Yard Trimmings | 22.7% | 19.2% | 18.1% | 16.8% | 12.5% | 12.7% | 12.8% | 13.1% | 13.6% | 13.9% |
| 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% |
| | 55.075 | J 70 | _0,0 | _0.7 /0 | _0.070 | _0.070 | =:.070 | =:.070 | _0.070 | _5.570 |

^{*} 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.

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

| | | | | | Thousan | ds of Tons | 3 | | | |
|--|--------|-------|--------|--------|---------|------------|----------|--------|--------|--------|
| 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 | - 3 | | | , | | | | | | |
| 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 | _,==== | _, | 0,000 | , | | , | , | , | , | , |
| 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 | . tog. | . tog. | .109. | . tog. | i iog. | , tog. | 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 | 24,500 | 20,000 | 20,070 | 20,000 |
| PET Bottles and Jars | | | 10 | 140 | 380 | 590 | 700 | 730 | 720 | 560 |
| 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 | rveg. | rveg. | rveg. | | 170 | 140 | 100 | 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 | 130 |
| Total Plastics Packaging | Neg. | Neg. | 10 | 260 | 1,030 | 1,280 | 1,590 | 1,730 | 1,720 | 1,660 |
| Wood Packaging | Neg. | Neg. | Neg. | 130 | 1,370 | 1,830 | 2,020 | 2,110 | 2,200 | 2,300 |
| Other Misc. Packaging | | | | | ١ | | i | l | l : | |
| | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Total Containers & Pkg Total Product Wastes† | 2,870 | 3,350 | 8,490 | 16,780 | 28,870 | 31,500 | 33,900 | 34,050 | 34,210 | 36,510 |
| • | 5,610 | 8,020 | 14,520 | 29,040 | 53,010 | 59,300 | 63,100 | 61,720 | 61,530 | 64,780 |
| Other Wastes | N1 | N1 | NI | N1 | 000 | 000 | 010 | 000 | 050 | 070 |
| Food Scraps | Neg. | Neg. | Neg. | Neg. | 680 | 690 | 810 | 800 | 850 | 970 |
| Yard Trimmings | Neg. | Neg. | Neg. | 4,200 | 15,770 | 19,860 | 20,900 | 21,300 | 19,900 | 19,200 |
| Miscellaneous Inorganic Wastes | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Total Other Wastes | Neg. | Neg. | Neg. | 4,200 | 16,450 | 20,550 | 21,710 | 22,100 | 20,750 | 20,170 |
| Total MSW Recovered - Weight | 5,610 | 8,020 | 14,520 | 33,240 | 69,460 | 79,850 | 84,810 | 83,820 | 82,280 | 84,950 |

^{*} 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.

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

| | | | F | Percent of | Generati | on of Eac | h Product | | | |
|---------------------------------------|-------|-------|-------|------------|----------|-----------|-----------|-------|-------|--------|
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 3.5% | 6.4% | 6.2% | 11.6% | 16.9% | 17.9% | 17.8% | 17.8% | 17.7% | 18.5% |
| (Detail in Table 13) | | | | | | | | | | |
| Nondurable Goods | 13.8% | 14.9% | 13.6% | 16.9% | 27.4% | 31.1% | 34.0% | 32.9% | 35.3% | 36.1% |
| (Detail in Table 16) | | | | | | | | | | |
| Containers and Packaging | | | | | | | | | | |
| Glass Packaging | | | | | | | | | | |
| Beer and Soft Drink Bottles** | 6.4% | 2.5% | 10.8% | 33.5% | 26.8% | 30.6% | 34.6% | 35.6% | 39.0% | 41.4% |
| Wine and Liquor Bottles | Neg. | Neg. | Neg. | 10.3% | 22.5% | 15.3% | 14.8% | 14.9% | 18.1% | 24.7% |
| Other Bottles & Jars | Neg. | Neg. | Neg. | 12.5% | 26.9% | 14.8% | 14.8% | 14.8% | 17.9% | 18.1% |
| Total Glass Packaging | 1.6% | 1.3% | 5.4% | 22.1% | 26.1% | 24.8% | 27.7% | 28.0% | 31.1% | 33.4% |
| Steel Packaging | | | | | | | | | | |
| Beer and Soft Drink Cans | 1.6% | 1.3% | 9.6% | 26.7% | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Cans | Neg. | 1.7% | 5.3% | 23.2% | 58.2% | 62.9% | 64.6% | 62.9% | 66.0% | 67.0% |
| Other Steel Packaging | Neg. | Neg. | Neg. | 30.0% | 66.7% | 66.7% | 66.7% | 79.2% | 80.6% | 79.5% |
| Total Steel Packaging | Neg. | 1.5% | 5.5% | 23.9% | 58.9% | 63.3% | 64.8% | 64.5% | 68.3% | 69.0% |
| Aluminum Packaging | | | | | | | | | | |
| Beer and Soft Drink Cans | Neg. | 10.0% | 37.6% | 63.9% | 54.6% | 44.8% | 48.6% | 48.2% | 50.7% | 49.6% |
| Other Cans | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | 14.3% | NA | NA |
| Foil and Closures | Neg. | Neg. | Neg. | 6.1% | 7.9% | 10.0% | 9.3% | 9.5% | NA | NA |
| Total Aluminum Pkg | Neg. | 1.8% | 25.2% | 53.2% | 44.1% | 35.8% | 38.8% | 38.3% | 36.7% | 35.8% |
| Paper & Paperboard Pkg | | | | | | | | | | |
| 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 | | | | | | | | | | |
| Gable Top/Aseptic Cartons‡ | | | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | 6.5% | - |
| Folding Cartons | | | Neg. | Neg. | 7.0% | 21.5% | 28.0% | 35.2% | 50.0% | - |
| Other Paperboard Packaging | | | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Bags and Sacks | | | Neg. | Neg. | 20.1% | 28.6% | 36.8% | 37.6% | 49.5% | - |
| Wrapping Papers | | | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Other Paper Packaging | 7.5% | 9.2% | 35.3% | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | - |
| Subtotal Other Paper & Paperboard Pkg | | | | | | | | | | 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 | | | | | | | | | | |
| PET Bottles and Jars | | | 3.8% | 32.6% | 22.1% | 23.2% | 24.6% | 27.2% | 28.0% | 21.0% |
| 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/ | F 00/ | 0.40/ | 0.00/ | 0.40/ | 44.50/ |
| 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% | 2.9% |
| Total Plastics Packaging | Neg. | Neg. | Neg. | 3.8% | 9.2% | 10.3% | 11.7% | 13.3% | 13.7% | 12.1% |
| 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% | 48.3% |
| Total Product Wastes† | 10.3% | 9.6% | 13.3% | 19.8% | 29.7% | 32.1% | 33.9% | 34.0% | 35.7% | 36.4% |
| Other Wastes | l | | ١ | | 0.001 | 0.001 | 0.50 | 0.401 | 0.50/ | 0.051 |
| 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% | 34.0% |

^{*} 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)

| Durable Goods | | | | | | Thousan | ds of Tons | <u> </u> | | | |
|---|---------------------------------|--------|---------|---------|---------|-----------|------------|----------|---------|---------------|---------|
| Durable Goods | Products | 1960 | 1970 | 1980 | 1990 | | | | 2008 | 2009 | 2010 |
| Nondurable Goods | Durable Goods | 9,570 | | | 26,350 | | 36,900 | 38,030 | | | 40,000 |
| Contail in Table 179 | (Detail in Table 14) | | | • | - | | | - | | | |
| Containers and Packaging | , , | 14,940 | 21,330 | 29,750 | 43,370 | 46,450 | 43,880 | 40,790 | 39,380 | 34,550 | 33,950 |
| Beer and Soft Drink Bottles** | | , | , | , | | , , , , , | _, | , | , | , , , , , , , | , |
| Beer and Soft Drink Bottles" 1,310 5,440 6,010 3,750 4,180 1,480 1,380 1,370 1,400 1,220 1,220 1,480 1,380 1,380 1,370 1,700 1,200 1,220 1,200 1,360 1,370 1,780 1,780 1,200 1,220 1,200 1,360 1,360 1,370 1,780 1,780 1,200 1,220 1,200 | Containers and Packaging | | | • | • | | • | • | | | |
| Mine and Liquor Bottles | Glass Packaging | | | | | | | | | | |
| Mine and Liquor Bottles | 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 |
| Chien Forties & Jaris 3,710 4,440 4,780 3,640 2,500 1,950 1,730 1,780 1,600 6,630 1,640 1,630 1,64 | | | 1,890 | | - | - | - | - | 1,370 | 1,400 | 1,280 |
| Steel Packaging 6,090 11,770 13,220 9,210 8,160 7,870 7,530 7,240 6,660 6,23 | • | | - | | | | - | | | | 1,630 |
| Steel Packaging Beer and Soft Drink Cans 3,340 3,480 2,700 1,190 1,100 790 860 830 640 76 | Total Glass Packaging | | | - | - | - | - | - | | · · | 6,230 |
| Beer and Soft Dirink Cans | 5 5 | -, | , - | | | | , | , | , - | ., | -, |
| Cans | | 630 | 1.550 | 470 | 110 | Nea | Nea | Nea | Nea | Nea | Nea |
| Other Steel Packaging | | | - | | | | _ | _ | _ | _ | 760 |
| Act | | 1 | | - | - | - | | | | | 90 |
| Beer and Soft Drink Cans Neg. 90 530 560 690 800 730 720 670 670 | 5 5 | | | _ | | | | | | | 850 |
| Beer and Soft Drink Cans | | 1,000 | 0,000 | 0,110 | 2,200 | 1,100 | 0,0 | 0.10 | 000 | 7.10 | |
| Other Cans | | Nea | an | 530 | 560 | 690 | 800 | 730 | 720 | 670 | 690 |
| Foil and Closures | | | | | | | | | | | 70 |
| Total Aluminum Pkg | | | | | | | | | | | |
| Paper & Paperboard Pkg | | | | | | | | | | | |
| Corrugated Boxes 4,810 10,000 10,690 12,480 9,880 8,830 8,250 6,950 5,090 4,36 | 3 | 170 | 260 | 950 | 890 | 1,090 | 1,240 | 1,150 | 1,160 | 1,190 | 1,220 |
| Other Paper & Paperboard Pkg Gable Top/Aseptic Cartons‡ 790 510 550 500 500 490 430 7-80 7-80 7-80 510 550 500 500 490 430 7-80 7-80 7-80 550 5,410 4,340 3,980 3,460 2,490 - <td></td> <td>4.010</td> <td>10.000</td> <td>10.000</td> <td>10 400</td> <td>0.000</td> <td>0.000</td> <td>0.050</td> <td>0.050</td> <td>F 000</td> <td>4.000</td> | | 4.010 | 10.000 | 10.000 | 10 400 | 0.000 | 0.000 | 0.050 | 0.050 | F 000 | 4.000 |
| Gable Top/Aseptic Cartons‡ Image: Carton of Folding Cartons of Folding Cartons 510 550 550 500 490 430 -1 Folding Cartons Other Paperboard Packaging 3,840 4,830 230 290 200 1160 1150 120 9 -1 Bags and Sacks 3,840 4,830 230 290 1,190 800 720 730 460 -1 Wrapping Papers 2,720 3,460 550 1,020 1,670 1,400 1,390 1,460 1,510 -2 Other Paper Packaging 2,720 3,460 550 1,020 16,70 1,400 1,390 1,460 1,310 | · · | 4,810 | 10,000 | 10,690 | 12,480 | 9,880 | 8,830 | 8,250 | 6,950 | 5,090 | 4,360 |
| Folding Cartons | | | | 700 | 540 | | 500 | 500 | 400 | 400 | |
| Other Paperboard Packaging Bags and Sacks 3,840 4,830 230 290 200 160 150 120 90 - Bags and Sacks 9 2,240 1,190 800 720 730 460 - Wrapping Papers 2,720 3,460 550 1,020 1,670 1,400 1,390 1,460 1,310 - Subtotal Other Paper & Paperboard Pkg 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging 8 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging 8 250 290 1,340 1,950 2,140 1,950 1,850 2,111 HDPE Natural Bottles 6 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,530 Bags and Sacks Wraps 1,180 790< | • • • | | | | | | | | | | - |
| Bags and Sacks Label Sacks Action Sacks Wrapping Papers Action Sacks Sacks And Wraps Action Sacks Sacks And Sacks Sacks And Wraps Action Sacks Sacks And Sacks Sacks And Wraps Action Sacks Sacks Sacks And Wraps Action Sacks Sacks Sacks And Wraps Action Sacks | | | | - | , | - | , | - | | | - |
| Wrapping Papers 2,720 3,460 550 1,020 1,670 1,400 1,390 1,460 1,310 - Subtotal Other Paper & Paper & Paperboard Pkg 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging 250 290 1,340 1,950 2,140 1,950 1,850 2,11 HDPE Natural Bottles 60 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,53 Bags and Sacks Wraps 1,230 2,410 4,020 4,220 3,810 3,570 3,490 3,48 Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,780 3,610 3,470 4,32 Total Plastics Packaging 120 2,090 | | 3,840 | 4,830 | | | | | | | | - |
| Other Paper Packaging Subtotal Other Paper & Paperboard Pkg 2,720 3,460 550 1,020 1,670 1,400 1,390 1,460 1,310 -6,47 Total Paper & Board Pkg 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging PET Bottles and Jars HDPE Natural Bottles 250 290 1,340 1,950 2,140 1,950 530 540 58 Other Containers Bags and Sacks Wraps 60 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,53 Subtotal Bags, Sacks, and Wraps Subtotal Bags, Sacks, and Wraps Subtotal Pastics Packaging 60 1,180 790 2,020 2,750 3,120 3,810 3,570 3,490 3,48 Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,780 3,610 3,470 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 | • | | | - | - | · · | | - | | | - |
| Subtotal Other Paper & Paperboard Pkg 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging PET Bottles and Jars 250 290 1,340 1,950 2,140 1,950 530 540 58 Other Containers 60 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,53 Bags and Sacks Wraps 1 1,230 2,410 4,020 4,220 3,810 3,570 3,490 3,48 Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,780 3,610 3,470 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 1,11,410 12,040 11,280 10,810 12,02 Wood Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging <t< td=""><td>,, ,</td><td></td><td></td><td></td><td></td><td></td><td>Neg.</td><td>Neg.</td><td>Neg.</td><td>Neg.</td><td>-</td></t<> | ,, , | | | | | | Neg. | Neg. | Neg. | Neg. | - |
| Total Paper & Board Pkg 11,370 18,290 19,140 20,610 18,900 16,030 14,990 13,210 9,870 10,83 Plastics Packaging PET Bottles and Jars 250 290 1,340 1,950 2,140 1,950 1,850 2,111 HDPE Natural Bottles 60 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,53 Bags and Sacks Wraps 80 1,230 2,410 4,020 4,220 3,810 3,570 3,490 3,48 Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,810 3,570 3,490 3,48 Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,810 3,570 3,490 3,48 Other Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging | | 2,720 | 3,460 | 550 | 1,020 | 1,670 | 1,400 | 1,390 | 1,460 | 1,310 | - |
| Plastics Packaging Last of the packaging of the pac | , , | | | | | | | | | | 6,470 |
| PET Bottles and Jars 250 290 1,340 1,950 2,140 1,950 2,11 HDPE Natural Bottles 230 510 480 570 590 530 540 58 Other Containers 60 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,53 Bags and Sacks Wraps 1,230 2,410 4,020 4,220 3,810 3,570 3,490 3,48 Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,780 3,610 3,470 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 12,02 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 | | 11,370 | 18,290 | 19,140 | 20,610 | 18,900 | 16,030 | 14,990 | 13,210 | 9,870 | 10,830 |
| HDPE Natural Bottles | Plastics Packaging | | | | | | | | | | |
| Other Containers 60 910 890 1,410 1,570 1,280 1,720 1,620 1,460 1,53 Bags and Sacks 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 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75, | PET Bottles and Jars | | | 250 | 290 | 1,340 | 1,950 | 2,140 | 1,950 | 1,850 | 2,110 |
| Bags and Sacks 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 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 110,810 113,08 Other Wastes 12,200 12,800 </td <td>HDPE Natural Bottles</td> <td></td> <td></td> <td>230</td> <td>510</td> <td>480</td> <td>570</td> <td>590</td> <td>530</td> <td>540</td> <td>580</td> | HDPE Natural Bottles | | | 230 | 510 | 480 | 570 | 590 | 530 | 540 | 580 |
| 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 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 110,810 113,08 Other Wastes 12,200 | Other Containers | 60 | 910 | 890 | 1,410 | 1,570 | 1,280 | 1,720 | 1,620 | 1,460 | 1,530 |
| 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 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 110,810 113,08 Other Wastes 12,200 12,800 | Bags and Sacks | | | | | | | | | | |
| Other Plastics Packaging 60 1,180 790 2,020 2,750 3,120 3,780 3,610 3,470 4,32 Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,02 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 119,620 110,810 113,08 Other Wastes 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Tr | Wraps | | | | | | | | | | |
| Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,020 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 119,620 110,810 113,08 Other Wastes 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 M | Subtotal Bags, Sacks, and Wraps | | | 1,230 | 2,410 | 4,020 | 4,220 | 3,810 | 3,570 | 3,490 | 3,480 |
| Total Plastics Packaging 120 2,090 3,390 6,640 10,160 11,140 12,040 11,280 10,810 12,020 Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 119,620 110,810 113,08 Other Wastes 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 M | Other Plastics Packaging | 60 | 1,180 | 790 | 2,020 | 2,750 | 3,120 | 3,780 | 3,610 | 3,470 | 4,320 |
| Wood Packaging 2,000 2,070 3,940 8,050 7,240 7,400 7,500 7,570 7,590 7,64 Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 119,620 110,810 113,08 Other Wastes 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 <th< td=""><td>Total Plastics Packaging</td><td>120</td><td>2,090</td><td>3,390</td><td>6,640</td><td>10,160</td><td>11,140</td><td>12,040</td><td></td><td>10,810</td><td>12,020</td></th<> | Total Plastics Packaging | 120 | 2,090 | 3,390 | 6,640 | 10,160 | 11,140 | 12,040 | | 10,810 | 12,020 |
| Other Misc. Packaging 120 130 130 150 240 280 320 310 280 34 Total Containers & Pkg 24,500 40,210 44,180 47,750 46,970 44,830 44,470 41,650 37,110 39,13 Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 125,610 123,290 119,620 110,810 113,08 Other Wastes 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 <td>0 0</td> <td>2.000</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>7,640</td> | 0 0 | 2.000 | | - | - | - | - | - | | | 7,640 |
| Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 123,290 119,620 110,810 113,08 Other Wastes Food Scraps 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | 3 3 | | | - | - | - | - | - | | | 340 |
| Total Product Wastes† 49,010 75,260 94,370 117,470 125,690 123,290 119,620 110,810 113,08 Other Wastes Food Scraps 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | Total Containers & Pkg | 24.500 | 40.210 | 44.180 | 47.750 | 46.970 | 44.830 | 44.470 | 41.650 | 37.110 | 39,130 |
| Other Wastes 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | | | | | | | | | | | 113,080 |
| Food Scraps 12,200 12,800 13,000 23,860 29,130 31,300 31,800 32,540 33,440 33,79 Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | | - , 3 | -,==3 | ,,,,,, | , | -,3 | -,3 | - , | .,==3 | -,5 | , |
| Yard Trimmings 20,000 23,200 27,500 30,800 14,760 12,210 11,730 11,600 13,300 14,20 Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | | 12.200 | 12.800 | 13,000 | 23.860 | 29 130 | 31.300 | 31,800 | 32.540 | 33 440 | 33 790 |
| Miscellaneous Inorganic Wastes 1,300 1,780 2,250 2,900 3,500 3,690 3,750 3,780 3,820 3,84 Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | • | | | | | | | | | | |
| Total Other Wastes 33,500 37,780 42,750 57,560 47,390 47,200 47,280 47,920 50,560 51,83 | · · | | | | | | | | | | |
| | · · | | | | | | | | | | |
| Total MCW Disported Weight 99.510 112.040 127.100 179.000 179.010 170.010 | Total MSW Discarded - Weight | 82,510 | 113,040 | 137,120 | 175,030 | 173,080 | 172,810 | 170,570 | 167,540 | 161,370 | 164,910 |

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

Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

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

[†] Other than food products.

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

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

⁻ Detailed data not available.

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

| | | | | Per | cent of To | otal Disca | rds | | | |
|---------------------------------------|--------|--------|--------|--------|------------|------------|--------|--------|--------|--------|
| Products | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2007 | 2008 | 2009 | 2010 |
| Durable Goods | 11.6% | 12.1% | 14.9% | 15.1% | 18.6% | 21.4% | 22.3% | 23.0% | 24.3% | 24.3% |
| (Detail in Table 14) | | | | | | | | | | |
| Nondurable Goods | 18.1% | 18.9% | 21.7% | 24.8% | 26.8% | 25.4% | 23.9% | 23.5% | 21.4% | 20.6% |
| (Detail in Table 17) | | | | | | | | | | |
| Containers and Packaging | | | | | | | | | | |
| Glass Packaging | | | | | | | | | | |
| Beer and Soft Drink Bottles** | 1.6% | 4.8% | 4.4% | 2.1% | 2.4% | 2.6% | 2.6% | 2.4% | 2.3% | 2.0% |
| Wine and Liquor Bottles | 1.3% | 1.7% | 1.8% | 1.0% | 0.9% | 0.8% | 0.8% | 0.8% | 0.9% | 0.8% |
| Other Bottles & Jars | 4.5% | 3.9% | 3.5% | 2.1% | 1.4% | 1.1% | 1.0% | 1.1% | 1.0% | 1.0% |
| Total Glass Packaging | 7.4% | 10.4% | 9.6% | 5.3% | 4.7% | 4.6% | 4.4% | 4.3% | 4.1% | 3.8% |
| Steel Packaging | | | | | | | | | | |
| Beer and Soft Drink Cans | 0.8% | 1.4% | 0.3% | 0.1% | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Cans | 4.5% | 3.1% | 2.0% | 1.1% | 0.6% | 0.5% | 0.5% | 0.5% | 0.4% | 0.5% |
| Other Steel Packaging | 0.3% | 0.2% | 0.2% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.1% |
| Total Steel Packaging | 5.6% | 4.7% | 2.5% | 1.3% | 0.7% | 0.5% | 0.6% | 0.5% | 0.4% | 0.5% |
| Aluminum Packaging | 0.070 | ,. | | 1.070 | | 0.070 | 0.070 | 0.070 | | 0.070 |
| Beer and Soft Drink Cans | Neg. | 0.1% | 0.4% | 0.3% | 0.4% | 0.5% | 0.4% | 0.4% | 0.4% | 0.4% |
| Other Cans | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. | Neg. |
| Foil and Closures | 0.2% | 0.4% | 0.3% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.3% | 0.3% |
| Total Aluminum Pkg | 0.2% | 0.5% | 0.7% | 0.5% | 0.6% | 0.7% | 0.7% | 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 | 3.076 | 0.076 | 7.076 | 7.170 | 3.7 76 | 3.176 | 7.0 /0 | 7.170 | 0.276 | 2.070 |
| 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% | 0.1% | - |
| Bags and Sacks | 4.7 70 | 4.3 /0 | 2.5% | 1.3% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | - |
| Wrapping Papers | | | | 0.1% | | | | | | - |
| 11 0 1 | 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/ | 4.00/ |
| PET Bottles and Jars | | | 0.2% | 0.2% | 0.8% | 1.1% | 1.3% | 1.2% | 1.1% | 1.3% |
| 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% | 7.3% |
| 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% | 23.7% |
| Total Product Wastes† | 59.4% | 66.6% | 68.8% | 67.1% | 72.6% | 72.7% | 72.3% | 71.4% | 68.7% | 68.6% |
| 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% | 31.4% |
| Total MSW Discarded - % | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

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

Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

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

 $[\]ensuremath{\dagger}$ 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 | | | | J | | | |
| 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 S | erved |
|-----------------------|-----------|----------------|----------------|-----------|
| 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

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

| | | | | | 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 | 64,780 |
| 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 | 84,950 |
| Discards after recovery | 82,510 | 113,040 | 137,120 | 175,030 | 173,080 | 172,810 | 170,570 | 167,540 | 161,370 | 164,910 |
| 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 | 135,650 |
| | - | 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 |
| | | | ı | Percent of To | otal Generat | ion | | | | |
| | 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% | 25.9% |
| 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% | 34.0% |
| Discards after recovery | 93.6% | 93.4% | 90.4% | 84.0% | 71.4% | 68.4% | 66.8% | 66.7% | 66.2% | 66.0% |
| 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% | 54.3% |

^{*} 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

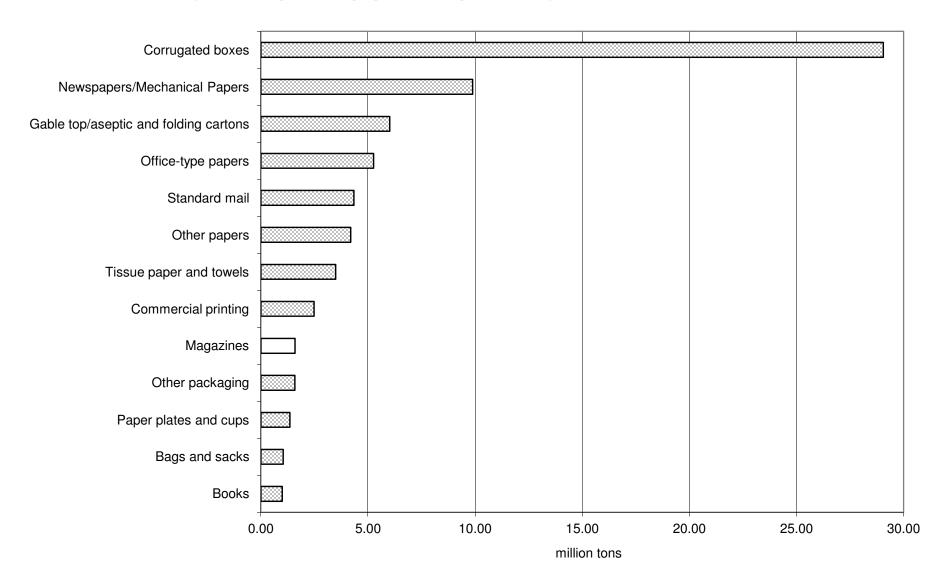


Figure 3. Paper and paperboard generation and recovery, 1960 to 2010

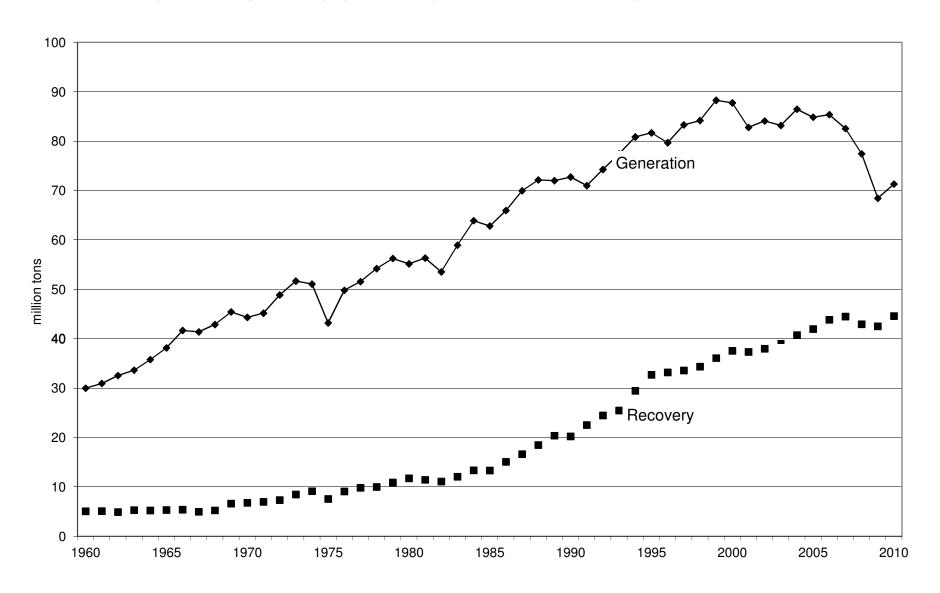


Figure 4. Glass products generated in MSW, 2010

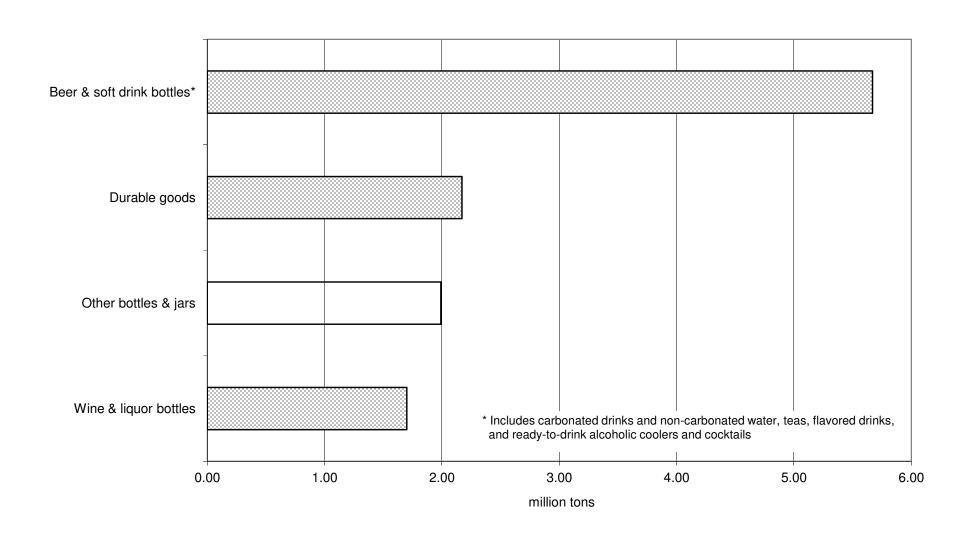


Figure 5. Glass generation and recovery, 1960 to 2010

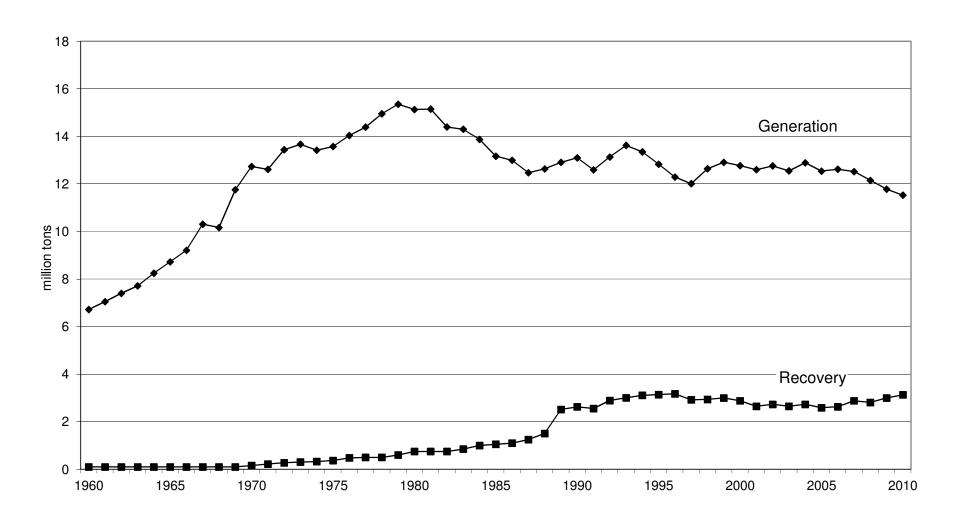


Figure 6. Metal products generated in MSW, 2010

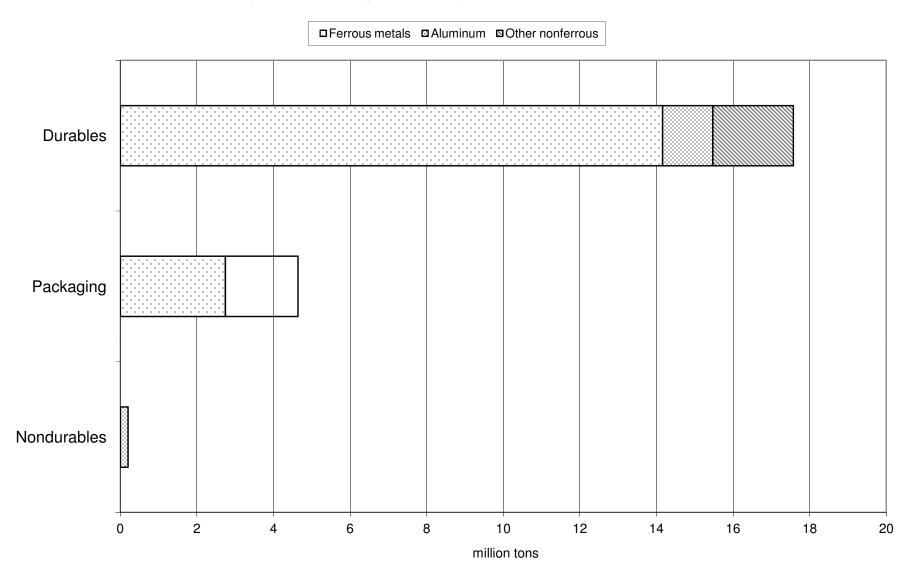


Figure 7. Metals generation and recovery, 1960 to 2010

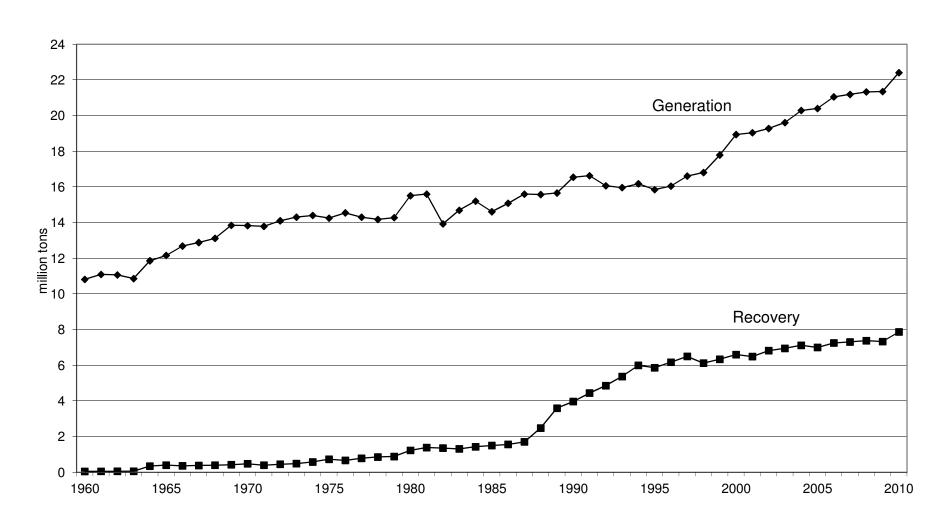


Figure 8. Plastics products generated in MSW, 2010

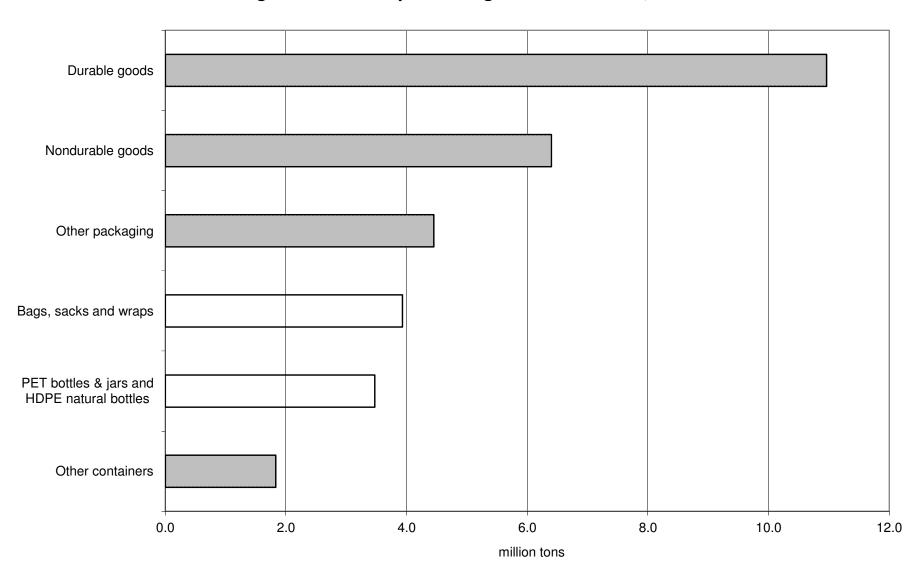


Figure 9. Plastics generation and recovery, 1960 to 2010

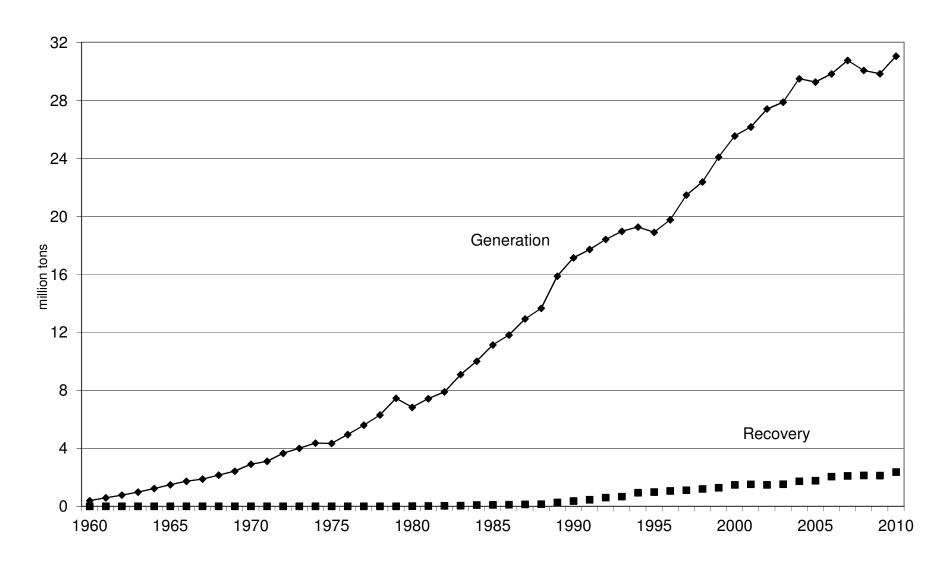


Figure 10. Generation of materials in MSW, 1960 to 2010

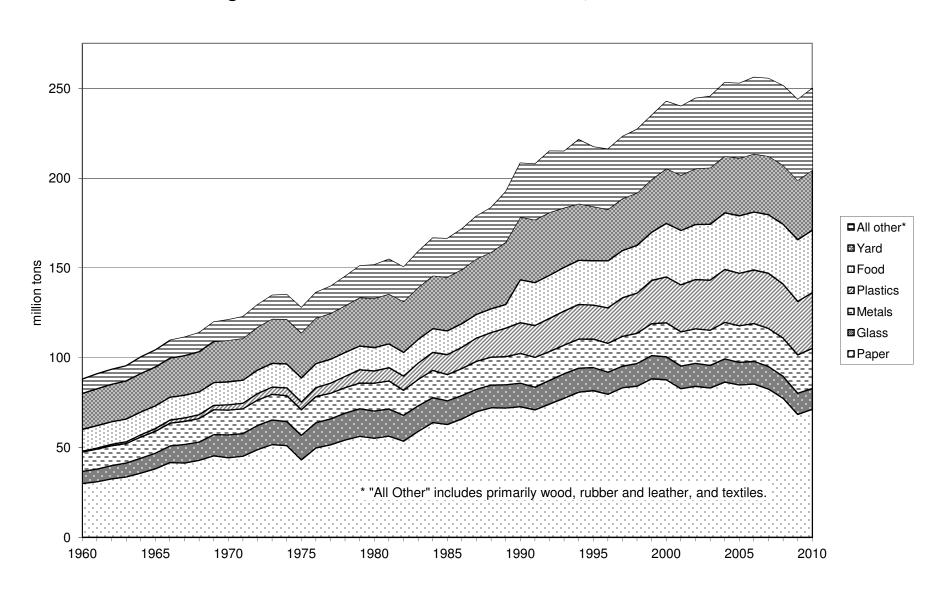


Figure 11. Recovery and discards of materials in MSW, 1960 to 2010

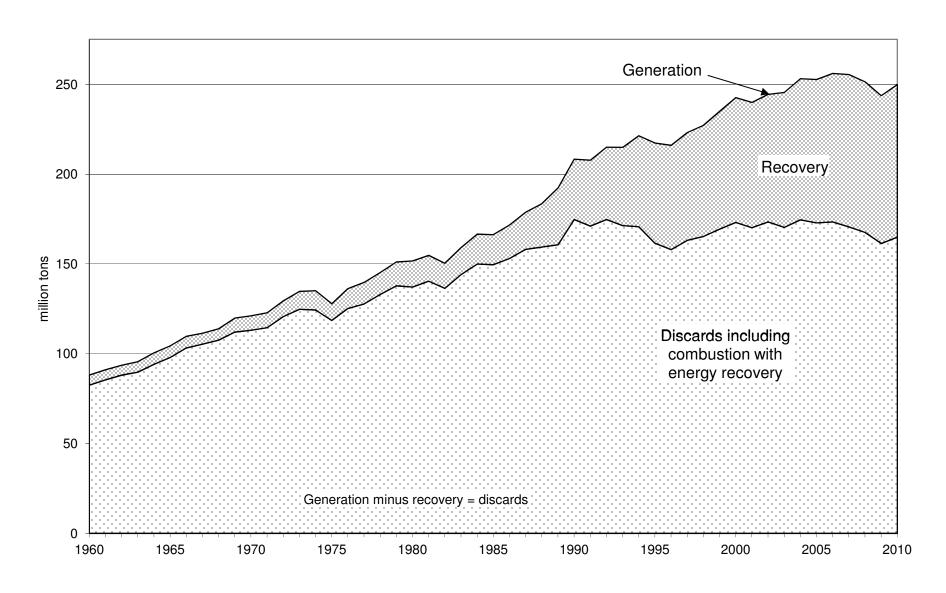
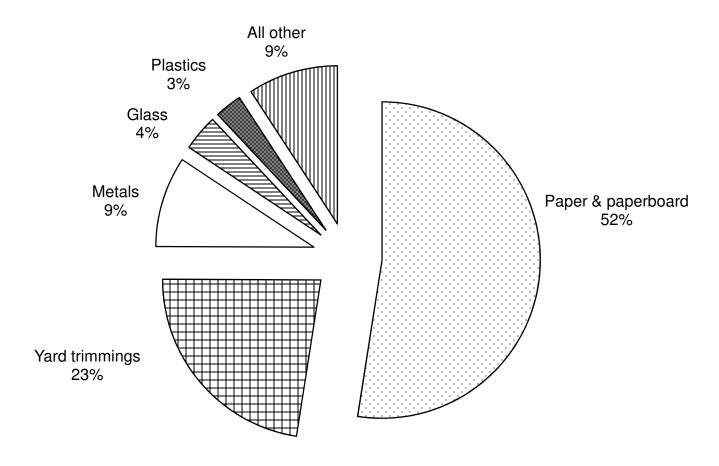
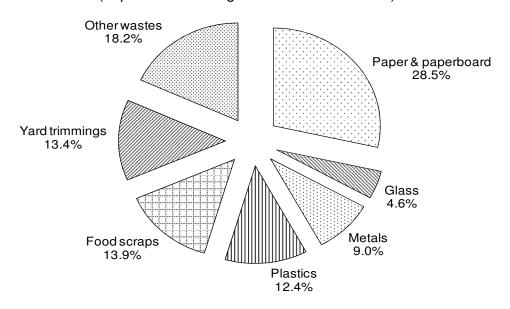


Figure 12. Materials recovery,* 2010

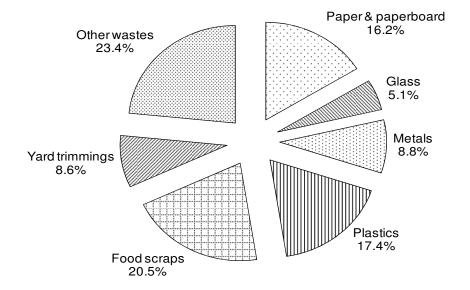


^{*} In percent by weight of total recovery

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



Generation



Discards

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

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

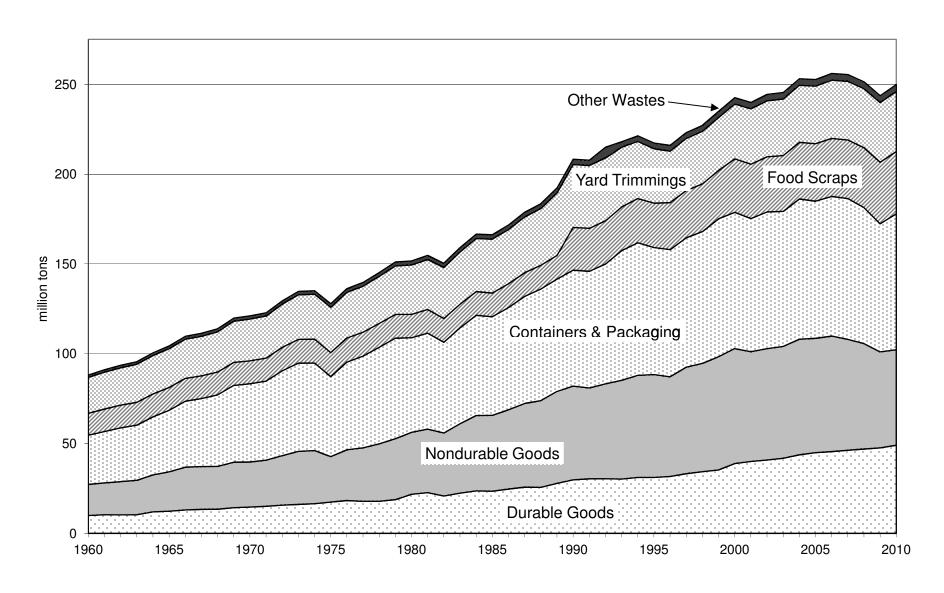
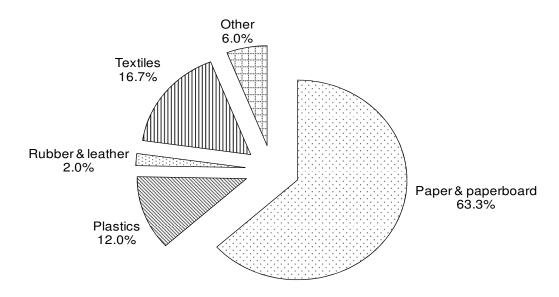
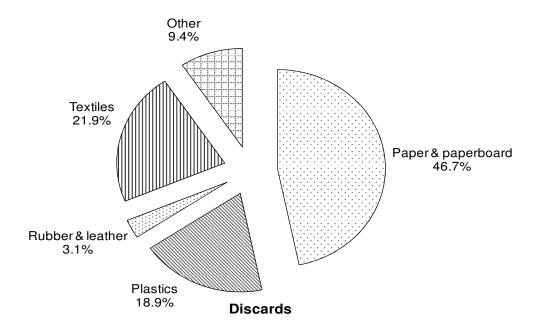


Figure 15. Nondurable goods generated and discarded* in municipal solid waste, 2010 (In percent of total generation and discards)

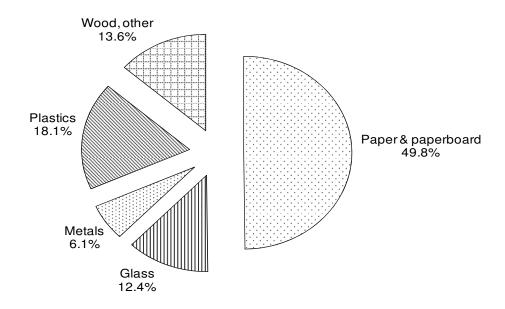


Generation

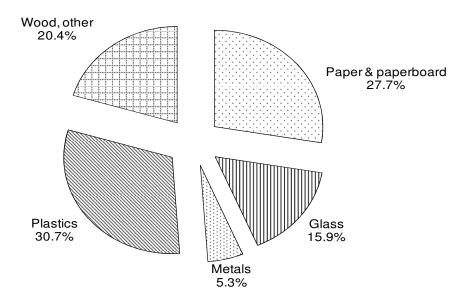


^{*}Discards in this figure include combustion with energy recovery.

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



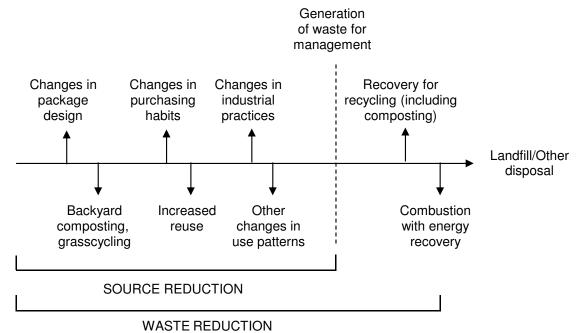
Generation



Discards

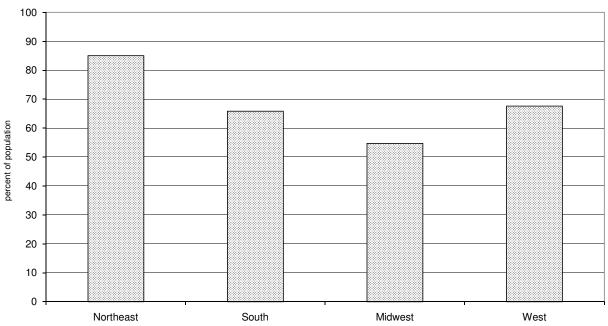
^{*}Discards in this figure include combustion with energy recovery.

Figure 17. Diagram of solid waste management



Source: Franklin Associates, A Division of ERG

Figure 18. Population served by curbside recycling, 2010



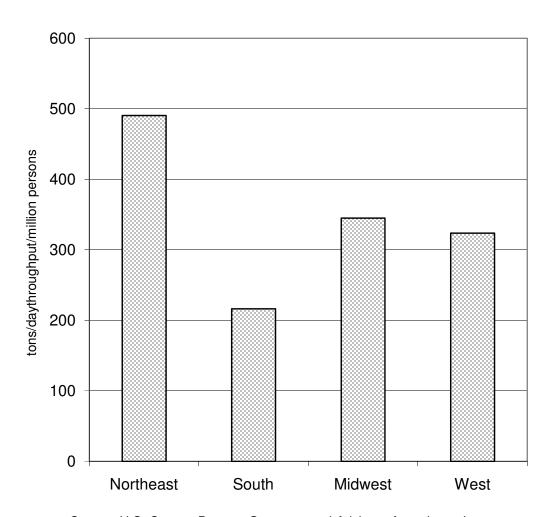
U.S. Census Bureau, BioCycle preliminary State of Garbage data received August 2010, BioCycle The State of Garbage in America. April 2006, and data from the following websites Connecticut Department of Environmental Protection, Delaware Solid Waste Management Authority, Georgia Department of Community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



Figure 19. States With Bottle Deposit Rules

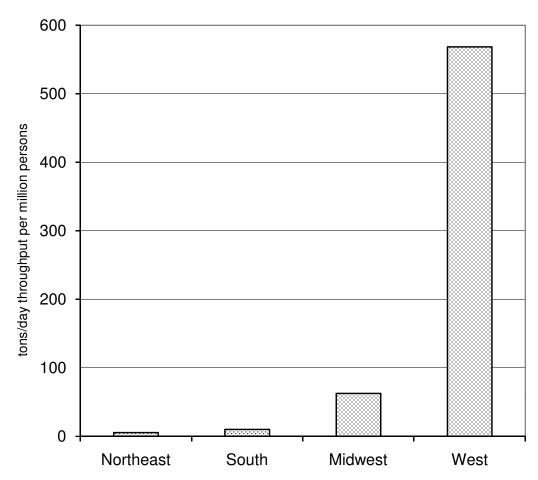
Source: Container Recycling Institute, 2011.

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



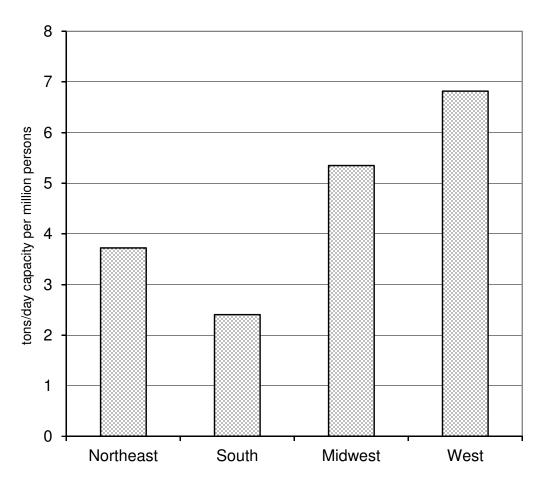
Source: U.S. Census Bureau, Governmental Advisory Associates, Inc.

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



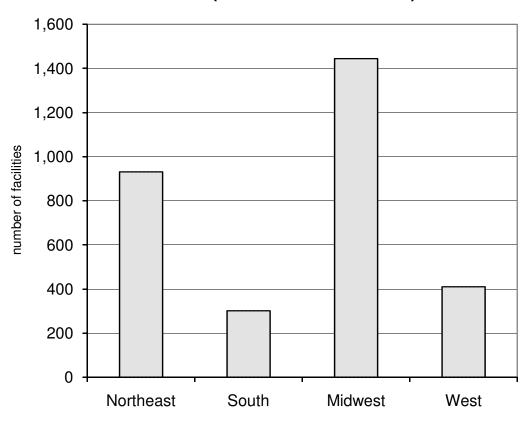
Source: U.S. Census Bureau; Governmental Advisory Associates, Inc.

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



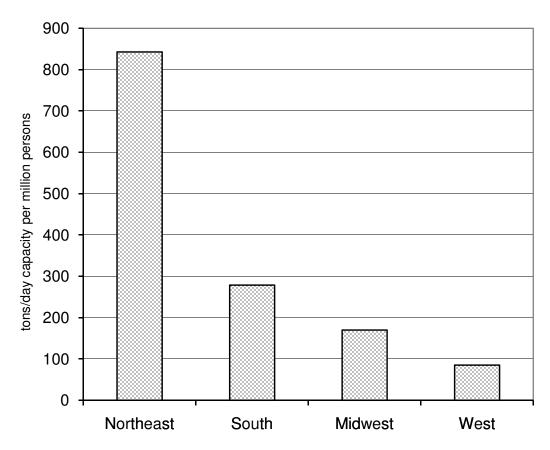
Source: U.S. Census Bureau; *BioCycle*, November 2010; Medina County, Ohio, Solid Waste District 2010 Annual Report; and West Wendover, Nevada, City website.

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



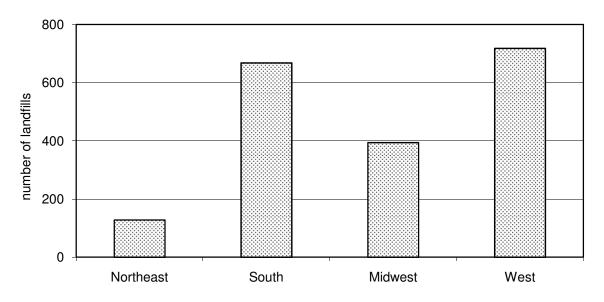
Source: Internet search: includes data for 47 states and the District of Columbia.

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



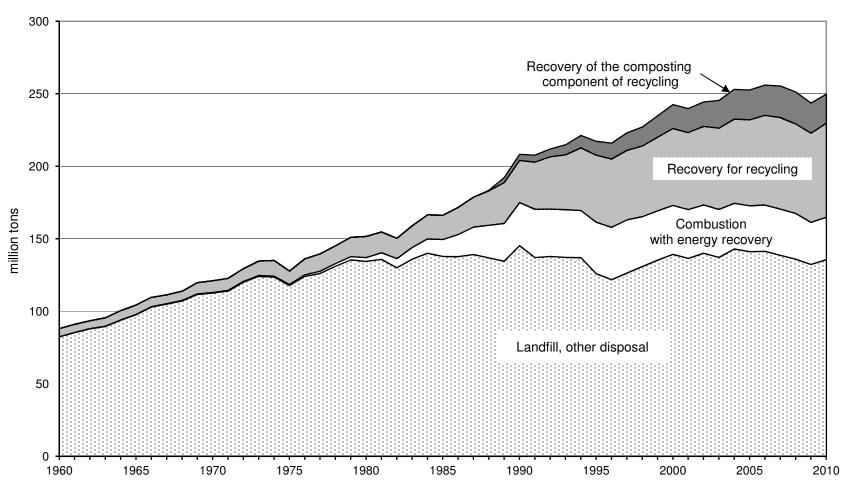
Source: U.S. Census Bureau, Energy Recovery Council (ERC). December 2010.

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



Source: BioCycle October 2010.

Figure 26. Municipal solid waste management, 1960 to 2010



Source: Franklin Associates, A Division of ERG