NONRENEWABLE ORGANICS STATISTICS By Thomas D. Kelly [All values in metric tons] Last modification: July 19, 2004

| | | | Last mounica | | | | Total |
|------|-------------|-----------|--------------|-----------|-----------|-------------|--------------|
| | Asphalt and | | | Waxes and | Petroleum | Oil and gas | nonrenewable |
| Year | road oil | Coal | Lubricants | oils | coke | products | organics |
| 1900 | 9,000 | 199,000 | 1,200,000 | 70,000 | 5,000 | 10,000 | 1,500,000 |
| 1901 | 13,000 | 219,000 | 1,250,000 | 70,000 | 5,000 | 10,000 | 1,600,000 |
| 1902 | 18,900 | 254,000 | 1,300,000 | 70,000 | 5,000 | 10,000 | 1,700,000 |
| 1903 | 41,900 | 303,000 | 1,350,000 | 70,000 | 5,000 | 10,000 | 1,800,000 |
| 1904 | 40,300 | 261,000 | 1,400,000 | 80,000 | 5,000 | 10,000 | 1,800,000 |
| 1905 | 47,500 | 271,000 | 1,450,000 | 80,000 | 5,000 | 10,000 | 1,900,000 |
| 1906 | 59,000 | 282,000 | 1,500,000 | 80,000 | 5,000 | 10,000 | 1,900,000 |
| 1907 | 125,000 | 259,000 | 1,550,000 | 80,000 | 5,000 | 10,000 | 2,000,000 |
| 1908 | 109,000 | 271,000 | 1,600,000 | 80,000 | 5,000 | 10,000 | 2,100,000 |
| 1909 | 118,000 | 288,000 | 1,650,000 | 90,000 | 5,000 | 10,000 | 2,200,000 |
| 1910 | 146,000 | 317,000 | 1,700,000 | 90,000 | 5,000 | 10,000 | 2,300,000 |
| 1911 | 251,000 | 332,000 | 1,750,000 | 90,000 | 5,000 | 10,000 | 2,400,000 |
| 1912 | 376,000 | 452,000 | 1,800,000 | 90,000 | 5,000 | 10,000 | 2,700,000 |
| 1913 | 500,000 | 551,000 | 1,850,000 | 90,000 | 5,000 | 10,000 | 3,000,000 |
| 1914 | 612,000 | 530,000 | 1,900,000 | 100,000 | 5,000 | 10,000 | 3,200,000 |
| 1915 | 955,000 | 709,000 | 1,950,000 | 100,000 | 5,000 | 10,000 | 3,700,000 |
| 1916 | 1,140,000 | 1,010,000 | 2,000,000 | 100,000 | 5,000 | 10,000 | 4,300,000 |
| 1917 | 1,220,000 | 1,220,000 | 2,050,000 | 100,000 | 5,000 | 10,000 | 4,600,000 |
| 1918 | 1,090,000 | 1,130,000 | 2,080,000 | 110,000 | 5,000 | 10,000 | 4,400,000 |
| 1919 | 1,170,000 | 1,240,000 | 2,050,000 | 115,000 | 5,000 | 10,000 | 4,600,000 |
| 1920 | 1,580,000 | 1,070,000 | 2,220,000 | 134,000 | 5,000 | 10,000 | 5,000,000 |
| 1921 | 1,390,000 | 833,000 | 1,810,000 | 149,000 | 5,000 | 10,000 | 4,200,000 |
| 1922 | 1,860,000 | 1,000,000 | 2,330,000 | 157,000 | 5,000 | 10,000 | 5,400,000 |
| 1923 | 2,150,000 | 1,340,000 | 2,650,000 | 172,000 | 5,000 | 10,000 | 6,300,000 |
| 1924 | 2,790,000 | 1,320,000 | 2,730,000 | 201,000 | 5,000 | 10,000 | 7,100,000 |
| 1925 | 2,880,000 | 1,510,000 | 3,090,000 | 225,000 | 10,000 | 10,000 | 7,700,000 |
| 1926 | 2,810,000 | 1,720,000 | 3,390,000 | 243,000 | 10,000 | 10,000 | 8,200,000 |
| 1927 | 3,110,000 | 1,860,000 | 3,260,000 | 271,000 | 10,000 | 10,000 | 8,500,000 |
| 1928 | 3,690,000 | 2,050,000 | 3,480,000 | 294,000 | 10,000 | 10,000 | 9,500,000 |
| 1929 | 3,520,000 | 2,010,000 | 3,550,000 | 296,000 | 10,000 | 20,000 | 9,400,000 |
| 1930 | 3,500,000 | 1,800,000 | 3,250,000 | 296,000 | 10,000 | 30,000 | 8,900,000 |
| 1931 | 3,610,000 | 1,610,000 | 3,000,000 | 318,000 | 10,000 | 40,000 | 8,600,000 |
| 1932 | 3,300,000 | 1,240,000 | 2,500,000 | 326,000 | 10,000 | 50,000 | 7,400,000 |
| 1933 | 3,110,000 | 1,390,000 | 2,580,000 | 379,000 | 10,000 | 60,000 | 7,500,000 |
| 1934 | 3,350,000 | 1,600,000 | 2,780,000 | 350,000 | 10,000 | 70,000 | 8,200,000 |
| 1935 | 3,560,000 | 1,800,000 | 2,960,000 | 240,000 | 13,000 | 80,000 | 8,650,000 |
| 1936 | 4,600,000 | 2,140,000 | 3,360,000 | 275,000 | 27,000 | 90,000 | 10,500,000 |
| 1937 | 4,940,000 | 2,020,000 | 3,510,000 | 288,000 | 51,200 | 100,000 | 10,900,000 |
| 1938 | 5,280,000 | 2,120,000 | 3,190,000 | 250,000 | 88,700 | 120,000 | 11,000,000 |
| 1939 | 5,760,000 | 2,320,000 | 3,570,000 | 299,000 | 117,000 | 200,000 | 12,300,000 |
| 1940 | 5,940,000 | 1,750,000 | 3,710,000 | 413,000 | 149,000 | 270,000 | 12,200,000 |
| 1941 | 7,330,000 | 2,490,000 | 4,550,000 | 494,000 | 169,000 | 500,000 | 15,500,000 |
| 1942 | 7,290,000 | 2,750,000 | 4,370,000 | 770,000 | 198,000 | 550,000 | 15,900,000 |
| 1943 | 6,410,000 | 2,830,000 | 4,730,000 | 887,000 | 167,000 | 711,000 | 15,700,000 |
| 1944 | 6,550,000 | 2,650,000 | 4,850,000 | 922,000 | 171,000 | 1,270,000 | 16,400,000 |
| 1945 | 6,740,000 | 2,630,000 | 5,310,000 | 935,000 | 315,000 | 1,500,000 | 17,400,000 |
| 1946 | 8,120,000 | 2,350,000 | 5,250,000 | 745,000 | 365,000 | 1,600,000 | 18,400,000 |
| 1947 | 9,290,000 | 2,590,000 | 5,490,000 | 652,000 | 307,000 | 1,420,000 | 19,700,000 |
| 1948 | 9,550,000 | 2,580,000 | 5,410,000 | 763,000 | 358,000 | 1,780,000 | 20,400,000 |
| 1949 | 9,450,000 | 2,350,000 | 4,980,000 | 572,000 | 545,000 | 2,260,000 | 20,200,000 |
| 1950 | 10,800,000 | 2,750,000 | 5,840,000 | 725,000 | 668,000 | 2,980,000 | 23,800,000 |

NONRENEWABLE ORGANICS STATISTICS By Thomas D. Kelly [All values in metric tons] Last modification: July 19, 2004

| | | | Last mounica | | | | Total |
|------|-------------|-----------|--------------|-----------|-----------|-------------|--------------|
| | Asphalt and | | | Waxes and | Petroleum | Oil and gas | nonrenewable |
| Year | road oil | Coal | Lubricants | oils | coke | products | organics |
| 1951 | 11,900,000 | 2,830,000 | 6,360,000 | 882,000 | 650,000 | 3,910,000 | 26,500,000 |
| 1952 | 12,900,000 | 2,430,000 | 5,740,000 | 945,000 | 618,000 | 3,570,000 | 26,200,000 |
| 1953 | 13,000,000 | 2,870,000 | 6,090,000 | 1,130,000 | 890,000 | 5,060,000 | 29,000,000 |
| 1954 | 13,800,000 | 2,280,000 | 5,800,000 | 1,250,000 | 1,300,000 | 6,100,000 | 30,500,000 |
| 1955 | 15,300,000 | 2,610,000 | 6,390,000 | 1,450,000 | 965,000 | 7,350,000 | 34,100,000 |
| 1956 | 16,400,000 | 2,710,000 | 6,610,000 | 1,580,000 | 1,460,000 | 8,130,000 | 36,900,000 |
| 1957 | 15,900,000 | 2,840,000 | 6,200,000 | 1,690,000 | 1,670,000 | 8,210,000 | 36,500,000 |
| 1958 | 16,900,000 | 2,190,000 | 5,940,000 | 1,880,000 | 2,320,000 | 9,490,000 | 38,700,000 |
| 1959 | 17,900,000 | 2,150,000 | 6,450,000 | 2,230,000 | 2,380,000 | 11,100,000 | 42,200,000 |
| 1960 | 18,300,000 | 2,200,000 | 6,420,000 | 2,360,000 | 2,440,000 | 11,900,000 | 43,600,000 |
| 1961 | 18,700,000 | 2,070,000 | 6,250,000 | 2,570,000 | 2,950,000 | 13,000,000 | 45,500,000 |
| 1962 | 20,000,000 | 2,000,000 | 6,560,000 | 2,710,000 | 3,080,000 | 15,000,000 | 49,400,000 |
| 1963 | 20,500,000 | 1,930,000 | 6,560,000 | 2,850,000 | 2,760,000 | 15,900,000 | 50,500,000 |
| 1964 | 20,900,000 | 2,240,000 | 6,890,000 | 2,680,000 | 2,710,000 | 18,100,000 | 53,500,000 |
| 1965 | 22,100,000 | 2,450,000 | 7,090,000 | 2,660,000 | 3,120,000 | 20,200,000 | 57,600,000 |
| 1966 | 23,300,000 | 2,400,000 | 7,360,000 | 2,820,000 | 3,060,000 | 22,900,000 | 61,800,000 |
| 1967 | 22,800,000 | 2,320,000 | 6,640,000 | 2,530,000 | 3,390,000 | 24,700,000 | 62,400,000 |
| 1968 | 24,500,000 | 2,380,000 | 7,290,000 | 2,970,000 | 3,350,000 | 28,200,000 | 68,700,000 |
| 1969 | 25,100,000 | 2,480,000 | 7,340,000 | 2,850,000 | 3,690,000 | 32,400,000 | 73,900,000 |
| 1970 | 26,900,000 | 2,420,000 | 7,470,000 | 2,610,000 | 4,000,000 | 35,400,000 | 78,800,000 |
| 1971 | 27,600,000 | 2,140,000 | 7,420,000 | 2,700,000 | 4,000,000 | 36,800,000 | 80,700,000 |
| 1972 | 28,100,000 | 2,190,000 | 7,970,000 | 2,770,000 | 4,000,000 | 39,400,000 | 84,400,000 |
| 1973 | 31,400,000 | 2,190,000 | 8,870,000 | 3,470,000 | 4,330,000 | 41,400,000 | 91,700,000 |
| 1974 | 29,000,000 | 2,180,000 | 8,530,000 | 4,180,000 | 3,980,000 | 42,800,000 | 90,700,000 |
| 1975 | 25,200,000 | 1,890,000 | 7,520,000 | 5,210,000 | 4,140,000 | 35,500,000 | 79,500,000 |
| 1976 | 24,900,000 | 1,910,000 | 8,420,000 | 7,360,000 | 4,260,000 | 41,800,000 | 88,700,000 |
| 1977 | 26,100,000 | 2,100,000 | 8,720,000 | 8,070,000 | 5,650,000 | 45,900,000 | 96,500,000 |
| 1978 | 28,500,000 | 2,100,000 | 9,470,000 | 7,110,000 | 4,640,000 | 46,800,000 | 98,600,000 |
| 1979 | 28,500,000 | 2,400,000 | 9,920,000 | 6,640,000 | 3,530,000 | 54,700,000 | 106,000,000 |
| 1980 | 23,900,000 | 2,200,000 | 8,300,000 | 7,610,000 | 4,360,000 | 70,400,000 | 117,000,000 |
| 1981 | 20,600,000 | 1,900,000 | 8,000,000 | 7,090,000 | 5,260,000 | 61,700,000 | 105,000,000 |
| 1982 | 20,600,000 | 1,300,000 | 7,300,000 | 6,300,000 | 4,170,000 | 54,500,000 | 94,000,000 |
| 1983 | 22,400,000 | 1,100,000 | 7,600,000 | 5,910,000 | 1,810,000 | 55,100,000 | 94,000,000 |
| 1984 | 24,800,000 | 1,400,000 | 8,100,000 | 5,380,000 | 2,900,000 | 56,100,000 | 99,000,000 |
| 1985 | 25,700,000 | 1,000,000 | 7,600,000 | 5,380,000 | 2,720,000 | 56,600,000 | 99,000,000 |
| 1986 | 27,100,000 | 640,000 | 7,400,000 | 4,990,000 | 2,540,000 | 58,300,000 | 101,000,000 |
| 1987 | 28,100,000 | 730,000 | 8,400,000 | 4,720,000 | 4,360,000 | 64,600,000 | 111,000,000 |
| 1988 | 28,200,000 | 640,000 | 8,100,000 | 5,250,000 | 4,540,000 | 66,100,000 | 113,000,000 |
| 1989 | 27,200,000 | 540,000 | 8,300,000 | 5,120,000 | 4,170,000 | 66,600,000 | 112,000,000 |
| 1990 | 29,000,000 | 540,000 | 8,600,000 | 5,120,000 | 5,440,000 | 71,600,000 | 120,000,000 |
| 1991 | 26,700,000 | 540,000 | 7,600,000 | 5,770,000 | 4,540,000 | 74,900,000 | 120,000,000 |
| 1992 | 27,400,000 | 1,100,000 | 7,700,000 | 4,590,000 | 6,900,000 | 78,000,000 | 126,000,000 |
| 1993 | 28,700,000 | 820,000 | 7,900,000 | 4,330,000 | 3,381,000 | 82,300,000 | 127,000,000 |
| 1994 | 29,000,000 | 820,000 | 8,300,000 | 4,460,000 | 4,170,000 | 87,800,000 | 135,000,000 |
| 1995 | 29,400,000 | 820,000 | 8,100,000 | 4,460,000 | 3,990,000 | 88,300,000 | 135,000,000 |
| 1996 | 29,200,000 | 820,000 | 7,900,000 | 3,500,000 | 4,540,000 | 90,900,000 | 137,000,000 |
| 1997 | 30,400,000 | 820,000 | 8,300,000 | 4,590,000 | 3,630,000 | 95,600,000 | 143,000,000 |
| 1998 | 31,400,000 | 730,000 | 8,700,000 | 5,120,000 | 6,350,000 | 94,200,000 | 147,000,000 |
| 1999 | 33,000,000 | 730,000 | 8,900,000 | 4,880,000 | 8,530,000 | 104,000,000 | 160,000,000 |
| 2000 | 31,700,000 | 730,000 | 8,700,000 | 4,990,000 | 4,170,000 | 99,500,000 | 150,000,000 |
| 2001 | 31,400,000 | 640,000 | 8,000,000 | 5,120,000 | 6,170,000 | 90,600,000 | 142,000,000 |

NONRENEWABLE ORGANICS STATISTICS By Thomas D. Kelly [All values in metric tons] Last modification: July 19, 2004

| | | | | | | | Total |
|------|-------------|------|------------|-----------|-----------|-------------|--------------|
| | Asphalt and | | | Waxes and | Petroleum | Oil and gas | nonrenewable |
| | | | | | | | |
| Year | road oil | Coal | Lubricants | oils | coke | products | organics |

Nonrenewable Organics Worksheet Notes

Data Sources

Sources of data for the nonrenewable organics worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR); the U.S. International Trade Commission publication, Synthetic Organic Chemicals (SOC); and the U.S. Department of Energy publication, Annual Energy Review (AER). All data are estimates of U.S. apparent consumption of fossil fuels used for nonfuel purposes.

Asphalt and Road Oil

For the years 1900–01, estimates from Consumption of Materials in the United States, 1900–1995 (Matos and Wagner, 1998) are used. Asphalt and road oil data for the years 1902–79 are recorded from the MR and the MYB. For the years 1980–2002, data are recorded from the AER.

Coal

For the years 1900–17 estimates from Consumption of Materials in the United States, 1900–1995 (Matos and Wagner, 1998) are used. Coal chemicals data are recorded for the years 1918–79 from the MR and the MYB. For the years 1980–2002, coal data are recorded from the AER.

Lubricants

For the years 1900–17, estimates from Consumption of Materials in the United States, 1900–1995 (Matos and Wagner, 1998) are used. Lubricant data for the years 1918–79 are recorded from the MR and MYB. For the years 1980–2002, lubricant data are recorded from the AER.

Waxes and Oils

For the years 1900–17, estimates from Consumption of Materials in the United States, 1900–1995 (Matos and Wagner, 1998) are used. Miscellaneous oils and waxes data are recorded from the MR an MYB for the years 1918–79. For the years 1980–2002, the category, Other, data consisting of distillate fuel oil, residual fuel oil, waxes, and miscellaneous products are recorded from the AER.

Petroleum Coke

For the years 1900–34 estimates from Consumption of Materials in the United States, 1900–1995 (Matos and Wagner, 1998) are used. For the years 1935–79, data are from the MYB. A declining factor was used to estimate petroleum coke for nonfuel uses (Matos and Wagner, 1998). For the years 1980–2002, Petroleum Coke data are recorded from the AER.

Oil and Gas Products

For the years 1900–34 estimates from Consumption of Materials in the United States, 1900–1995 (Matos and Wagner, 1998) are used. For the years 1934–79, the categories Natural Gas for Carbon Black, Plastic Resins, and Synthetic Rubber data are recorded (and summed) from SOC. For the years 1980–2002, the AER categories: Liquefied Petroleum Gases, Natural Gas, Pentanes Plus, Petrochemical Feedstock, and Special Naphthas are combined to estimate Oil and Gas Products.

Total Nonrenewable Organics

Total nonrenewable organics data are the sum of all categories listed above. For the years 1900–34, two significant figures are reported because of the estimates made in calculating some categories.

References

Matos, G.R., and Wagner, L.A., 1998, Consumption of materials in the United States, 1900–95: Annual Review of Energy and the Environment, v. 23, p. 107-122.

- U.S. Bureau of Mines, 1927–34, Mineral Resources of the United States, 1924–31.
- U.S. Bureau of Mines, 1933–96, Minerals Yearbook, 1932–94.
- U.S. Energy Information Administration, 1982–2003, Annual Energy Review, 1980–2002.
- U.S. Geological Survey, 1901–27, Mineral Resources of the United States, 1900–23.
- U.S. Geological Survey, 1997–2002, Minerals Yearbook, v. I, 1995–2000.
- U.S. International Trade Commission, 1938-80, Synthetic Organic Chemicals, 1934-79.

For more information, please contact:

Thomas D. Kelly Minerals and Materials Analysis Section, USGS (303) 236-8747 x 269 kellyt@usgs.gov