

COBALT END-USE STATISTICS¹**U.S. GEOLOGICAL SURVEY**

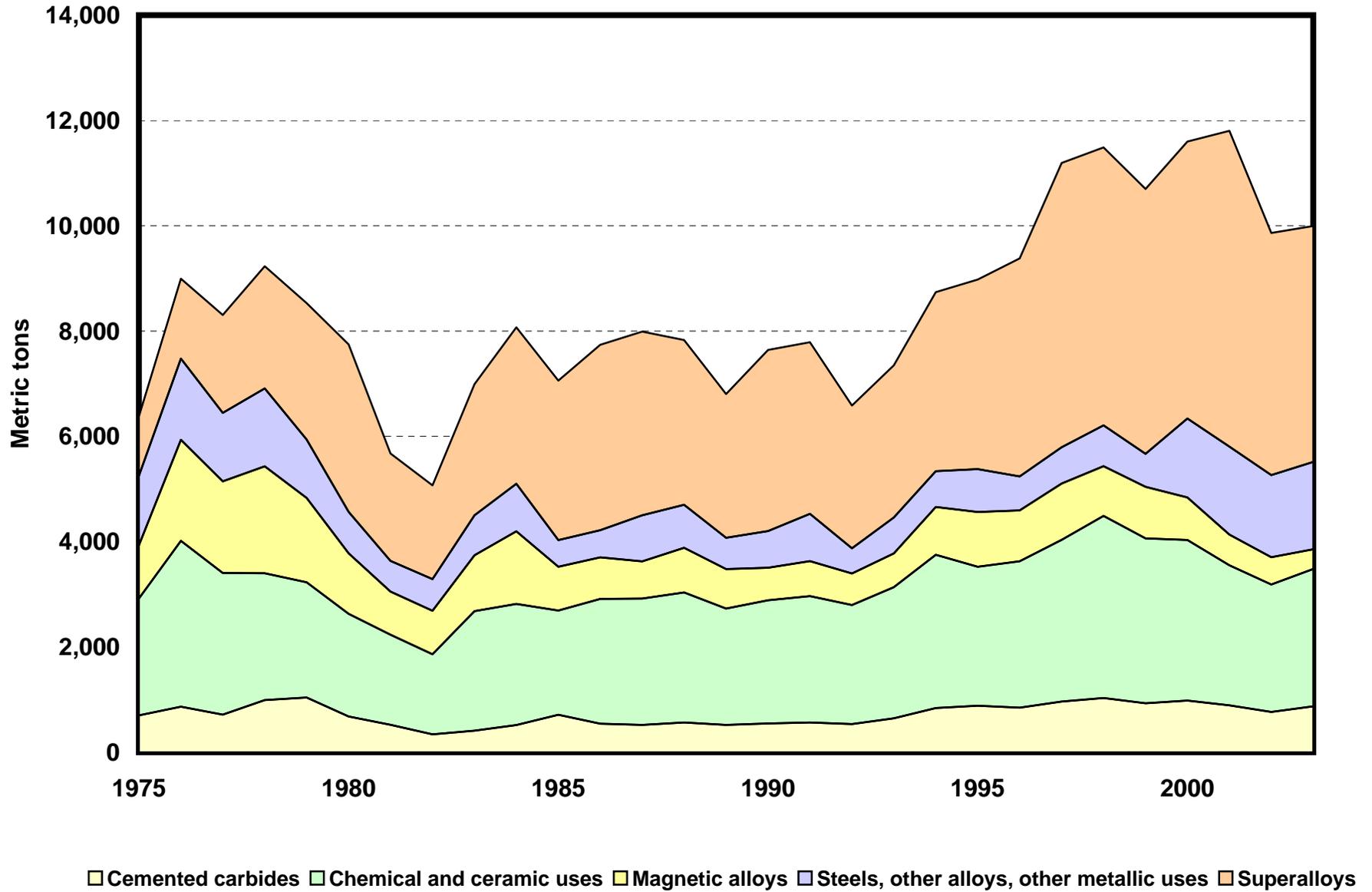
[Metric tons of cobalt content]

Last modification: September 1, 2005

| Year | Cemented carbides | Chemical and ceramic uses | Magnetic alloys | Steels, other alloys, other metallic uses | Superalloys | Apparent consumption |
|-------------|--------------------------|----------------------------------|------------------------|--|--------------------|-----------------------------|
| 1975 | 700 | 2,220 | 1,010 | 1,320 | 1,130 | 6,380 |
| 1976 | 866 | 3,150 | 1,920 | 1,540 | 1,520 | 9,000 |
| 1977 | 716 | 2,690 | 1,740 | 1,300 | 1,860 | 8,310 |
| 1978 | 991 | 2,410 | 2,030 | 1,480 | 2,320 | 9,240 |
| 1979 | 1,040 | 2,190 | 1,600 | 1,110 | 2,590 | 8,530 |
| 1980 | 679 | 1,950 | 1,150 | 788 | 3,180 | 7,740 |
| 1981 | 523 | 1,710 | 820 | 582 | 2,040 | 5,680 |
| 1982 | 342 | 1,520 | 827 | 600 | 1,780 | 5,070 |
| 1983 | 411 | 2,270 | 1,060 | 760 | 2,490 | 6,980 |
| 1984 | 517 | 2,300 | 1,380 | 904 | 2,970 | 8,060 |
| 1985 | 713 | 1,980 | 831 | 505 | 3,030 | 7,060 |
| 1986 | 543 | 2,370 | 790 | 516 | 3,520 | 7,740 |
| 1987 | 521 | 2,400 | 705 | 875 | 3,490 | 7,990 |
| 1988 | 566 | 2,470 | 848 | 817 | 3,130 | 7,830 |
| 1989 | 521 | 2,210 | 749 | 594 | 2,730 | 6,800 |
| 1990 | 547 | 2,340 | 618 | 696 | 3,440 | 7,640 |
| 1991 | 567 | 2,400 | 663 | 899 | 3,260 | 7,790 |
| 1992 | 537 | 2,260 | 598 | 480 | 2,710 | 6,590 |
| 1993 | 646 | 2,490 | 641 | 682 | 2,890 | 7,350 |
| 1994 | 841 | 2,910 | 907 | 681 | 3,400 | 8,730 |
| 1995 | 884 | 2,640 | 1,040 | 815 | 3,600 | 8,970 |
| 1996 | 848 | 2,780 | 965 | 647 | 4,140 | 9,380 |
| 1997 | 964 | 3,070 | 1,070 | 689 | 5,400 | 11,200 |
| 1998 | 1,030 | 3,460 | 945 | 774 | 5,280 | 11,500 |
| 1999 | 932 | 3,130 | 980 | 627 | 5,030 | 10,700 |
| 2000 | 982 | 3,050 | 808 | 1,500 | 5,260 | 11,600 |
| 2001 | 891 | 2,660 | 584 | 1,670 | 6,000 | 11,800 |
| 2002 | 767 | 2,420 | 517 | 1,560 | 4,600 | 9,860 |
| 2003 | 873 | 2,610 | 372 | 1,660 | 4,480 | 10,000 |

¹Compiled by G.R. Matos and K.B. Shedd.

End Uses of Cobalt



Cobalt End-Use Worksheet Notes

Data Sources

The sources of data for the cobalt end-use worksheet are the report Cobalt Recycling in the United States in 1998, U.S. Geological Survey; and the Minerals Yearbook, an annual collection, compilation, and analysis of mineral industry data, published by the U.S. Bureau of Mines and the U.S. Geological Survey.

End Use

End use is defined as the use of the mineral commodity in a particular industrial sector or product. End-use estimates are derived by applying the calculated percentages of end-use consumption to the calculated U.S. apparent consumption; actual consumption may be greater or less. For cobalt, end-use categories are cemented carbides; chemical and ceramic uses; magnetic alloys; steels, other alloys, other metallic uses; and superalloys.

Data are rounded to no more than three significant digits; data may not add to totals shown.

References

Shedd, K.B., 2003, Cobalt recycling in the United States in 1998: U.S. Geological Survey Circular 1196-M, 16 p. (Also available online at <http://pubs.usgs.gov/circ/2004/1196am/c1196a-m.pdf>.)
U.S. Bureau of Mines, 1977–96, Minerals Yearbook, v. I, 1975–94.
U.S. Geological Survey, 1997–2005, Mineral Yearbook, v. I, 1995–2003.

Recommended Citation Format:

(1) If taken from CD version:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, one CD-ROM. (Also available online at <http://pubs.usgs.gov/ds/2005/140/>.)

(2) If taken from online version:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, available online at <http://pubs.usgs.gov/ds/2005/140/>. (Accessed [date].)

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