

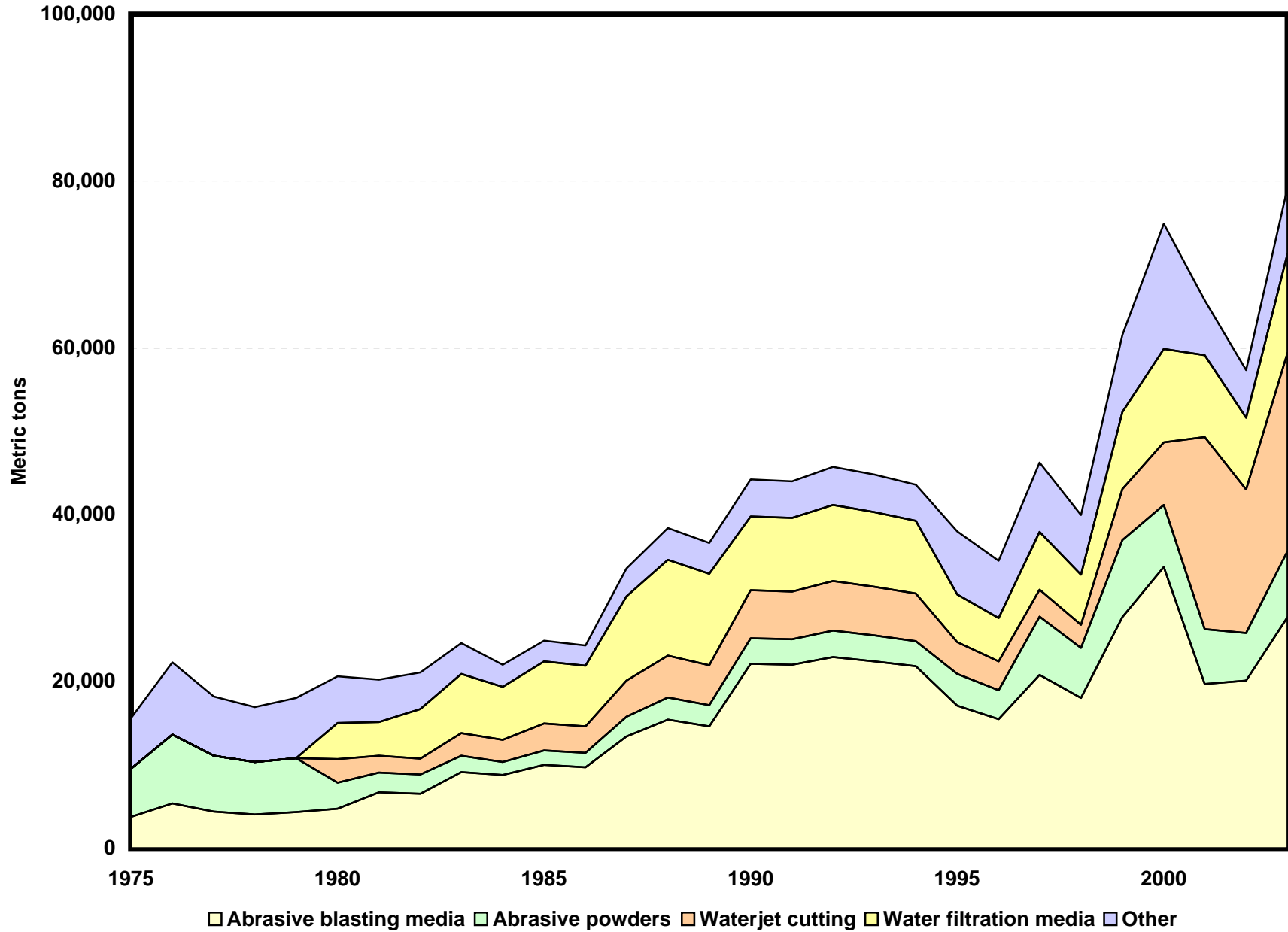
INDUSTRIAL GARNET END-USE STATISTICS¹
U.S. GEOLOGICAL SURVEY
 [Metric tons]

Last modification: September 15, 2005

| Year | Abrasive blasting media | Abrasive powders | Waterjet cutting | Water filtration | Other | Apparent consumption |
|------|-------------------------|------------------|------------------|------------------|--------|----------------------|
| 1975 | 3,740 | 5,770 | | | 6,080 | 15,600 |
| 1976 | 5,350 | 8,250 | | | 8,700 | 22,300 |
| 1977 | 4,370 | 6,730 | | | 7,100 | 18,200 |
| 1978 | 4,060 | 6,250 | | | 6,590 | 16,900 |
| 1979 | 4,320 | 6,480 | | | 7,200 | 18,000 |
| 1980 | 4,740 | 3,090 | 2,880 | 4,330 | 5,560 | 20,600 |
| 1981 | 6,670 | 2,420 | 2,020 | 4,040 | 5,050 | 20,200 |
| 1982 | 6,540 | 2,320 | 1,900 | 5,910 | 4,430 | 21,100 |
| 1983 | 9,100 | 1,970 | 2,710 | 7,130 | 3,690 | 24,600 |
| 1984 | 8,800 | 1,540 | 2,640 | 6,380 | 2,640 | 22,000 |
| 1985 | 9,960 | 1,740 | 3,240 | 7,470 | 2,490 | 24,900 |
| 1986 | 9,720 | 1,700 | 3,160 | 7,290 | 2,430 | 24,300 |
| 1987 | 13,400 | 2,350 | 4,360 | 10,100 | 3,350 | 33,500 |
| 1988 | 15,400 | 2,690 | 4,990 | 11,500 | 3,840 | 38,400 |
| 1989 | 14,600 | 2,560 | 4,760 | 11,000 | 3,660 | 36,600 |
| 1990 | 22,100 | 3,090 | 5,750 | 8,840 | 4,420 | 44,200 |
| 1991 | 22,000 | 3,080 | 5,720 | 8,800 | 4,400 | 44,000 |
| 1992 | 22,900 | 3,200 | 5,940 | 9,140 | 4,570 | 45,700 |
| 1993 | 22,400 | 3,140 | 5,820 | 8,960 | 4,480 | 44,800 |
| 1994 | 21,800 | 3,050 | 5,670 | 8,720 | 4,360 | 43,600 |
| 1995 | 17,100 | 3,800 | 3,800 | 5,700 | 7,600 | 38,000 |
| 1996 | 15,500 | 3,450 | 3,450 | 5,180 | 6,900 | 34,500 |
| 1997 | 20,800 | 6,950 | 3,240 | 6,950 | 8,330 | 46,300 |
| 1998 | 18,000 | 5,990 | 2,790 | 5,990 | 7,180 | 39,900 |
| 1999 | 27,700 | 9,230 | 6,150 | 9,230 | 9,230 | 61,500 |
| 2000 | 33,700 | 7,480 | 7,480 | 11,200 | 15,000 | 74,800 |
| 2001 | 19,700 | 6,580 | 23,000 | 9,870 | 6,580 | 65,800 |
| 2002 | 20,100 | 5,730 | 17,200 | 8,600 | 5,730 | 57,300 |
| 2003 | 27,700 | 7,920 | 23,800 | 11,900 | 7,920 | 79,200 |

¹Compiled by G.R. Matos and D.W. Olson.

End Uses of Industrial Garnet



Industrial Garnet End-Use Worksheet Notes

Data Source

The source of data for the industrial garnet end-use worksheet is the Minerals Yearbook (MYB), 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. For industrial garnet, end-use categories are abrasive blasting media, abrasive powders, waterjet cutting, water filtration media, and other uses. These categories have been used in end-use reporting for MYB from 1995 to the present.

The category of abrasive blasting media includes the following industries and applications for the years listed: aircraft from 1975 through 1980; petroleum industry from 1990 through 1994; ceramic and glass from 1981 through 1994; 75 percent of transport manufacturing from 1981 through 1989; and 32 percent of transport manufacturing from 1990 through 1994.

The category of abrasive powders includes the following industries and applications for the years listed: electronic components from 1980 through 1994; and flat glass and optical glass from 1975 through 1980.

The category waterjet cutting includes the following industries and applications for the years listed: 25 percent of transport manufacturing from 1981 through 1989; 68 percent of transport manufacturing from 1990 through 1994; and other transportation for 1980.

The category other uses includes wood furniture finishing and other small uses.

Blank cells in the spreadsheet indicate that data were not available. Data are rounded to no more than three significant digits; data may not add to totals shown.

References

U.S. Bureau of Mines, 1977–96, Minerals Yearbook, v. I, 1975–94.

U.S. Geological Survey, 1997–2005, Minerals 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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