

IRON OXIDE PIGMENTS END-USE STATISTICS¹
U.S. GEOLOGICAL SURVEY
 [Metric tons]

Last modification: September 15, 2005

Year	Coatings	Construction materials	Colorants	Foundry sands	Industrial chemicals	Ferrites and other applications	Animal feed and fertilizers	Other	Apparent consumption
1975	41,800	17,000	5,650	4,520	14,700	14,700	10,200	4,520	113,000
1976	60,300	24,500	8,150	6,520	21,200	21,200	14,700	6,520	163,000
1977	64,800	26,300	8,750	7,000	22,800	22,800	15,800	7,000	175,000
1978	66,600	41,200	13,700	9,800	17,600	25,500	15,700	5,880	196,000
1979	71,100	39,300	18,700	7,480	13,100	20,600	15,000	1,870	187,000
1980	53,700	31,900	16,000	7,250	10,200	13,100	10,200	2,900	145,000
1981	48,800	28,100	22,200	8,880	8,880	17,800	10,400	2,960	148,000
1982	36,300	22,000	15,400	6,600	5,500	14,300	8,800	1,100	110,000
1983	46,100	33,300	17,900	7,680	6,400	W	7,680	8,960	128,000
1984	43,100	34,400	13,500	6,150	6,150	W	6,150	13,500	123,000
1985	40,900	34,700	14,900	7,440	6,200	W	7,440	12,400	124,000
1986	40,900	36,000	14,900	6,200	7,440	W	6,200	12,400	124,000
1987	41,500	45,800	17,200	8,580	7,150	W	5,720	17,200	143,000
1988	36,000	50,400	24,500	8,640	7,200	W	5,760	11,500	144,000
1989	37,000	53,900	26,200	7,700	7,700	W	7,700	13,900	154,000
1990	36,000	48,000	25,500	6,000	9,000	W	7,500	18,000	150,000
1991	30,100	41,900	21,000	7,860	5,240	W	7,860	17,000	131,000
1992	33,400	49,300	24,700	8,700	4,350	W	W	24,700	145,000
1993	27,900	50,000	19,100	11,800	8,820	W	W	29,400	147,000
1994	35,500	55,800	20,300	13,500	10,100	W	W	33,800	169,000
1995	38,600	W	W	15,400	17,400	W	W	122,000	193,000
1996	45,500	62,100	W	16,600	18,600	W	W	64,200	207,000
1997	63,300	65,500	W	20,300	9,040	W	W	67,800	226,000
1998	57,300	73,300	22,900	16,000	13,700	W	W	45,800	229,000
1999	55,000	75,000	25,000	20,000	20,000	W	W	55,000	250,000
2000	44,800	77,900	23,600	W	18,900	W	W	70,800	236,000
2001	41,000	73,400	19,400	W	15,100	W	W	67,000	216,000
2002	53,000	81,900	28,900	W	19,300	W	W	57,800	241,000
2003	54,100	60,900	27,100	W	22,600	W	W	60,900	226,000

W Withheld to avoid disclosing company proprietary data; data included with the other uses category.

¹Compiled by G.R. Matos and M.J. Potter.

Iron Oxide Pigments End-Use Worksheet Notes

Data Source

The source of data for the iron oxide pigments end-use worksheet is 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 estimated end-use percentages of reported shipments to the calculated U.S. apparent consumption; actual consumption may be greater. The end-use categories for iron oxide pigments are:

- Coatings (industrial finishes, trade sales lacquers, paints, varnishes).
- Construction materials, (cement, mortar, preformed concrete, roofing granules).
- Colorants (for ceramics, glass, paper, plastics, rubber, and textiles).
- Foundry sands.
- Industrial chemicals (such as catalysts).
- Ferrites and other (magnetic and electronic) applications.
- Animal feed and fertilizers, and
- Other industrial uses (including cosmetics, magnetic ink and toner, polishing agents, and data indicated by the symbol W).

Data for 1975 and 1976 applied the same percentage distribution as in the year 1977. End-use data were not collected for these years.

W in spreadsheet indicates information withheld to avoid disclosing company proprietary data; data included with the other uses category. 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/.](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/.](http://pubs.usgs.gov/ds/2005/140/) (Accessed [date].)

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