

TITANIUM DIOXIDE PIGMENT STATISTICS¹

U.S. GEOLOGICAL SURVEY

[All values are in metric tons (t) gross weight unless otherwise noted]

Last modification: November 14, 2012

Year	Production	Shipments	Imports	Exports	Stocks	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
1939	NA	NA	NA	3,920	NA	NA	178	2,090
1940	NA	NA	NA	4,500	NA	NA	193	2,240
1941	NA	NA	NA	7,100	NA	NA	227	2,510
1942	NA	NA	NA	8,050	NA	NA	212	2,120
1943	NA	NA	NA	8,860	NA	NA	207	1,950
1944	NA	NA	NA	9,910	NA	NA	187	1,730
1945	NA	NA	NA	11,600	NA	NA	199	1,800
1946	NA	NA	NA	14,800	NA	NA	209	1,750
1947	NA	NA	NA	19,200	NA	NA	270	1,970
1948	NA	NA	NA	24,300	NA	NA	293	1,980
1949	NA	NA	NA	26,900	NA	NA	303	2,070
1950	419,000	420,000	NA	29,600	NA	389,000	297	2,010
1951	441,000	419,000	NA	35,600	NA	405,000	373	2,340
1952	423,000	372,000	NA	32,300	NA	391,000	331	2,030
1953	446,000	440,000	NA	36,100	NA	410,000	325	1,980
1954	458,000	461,000	NA	57,900	NA	400,000	402	2,440
1955	505,000	522,000	NA	49,300	NA	456,000	372	2,260
1956	592,000	564,000	508	58,800	NA	534,000	428	2,560
1957	553,000	484,000	36	48,000	NA	505,000	410	2,380
1958	500,000	527,000	643	33,600	NA	467,000	338	1,910
1959	612,000	583,000	2,600	32,900	NA	582,000	321	1,800
1960	548,000	563,000	5,610	30,500	NA	523,000	328	1,800
1961	583,000	570,000	8,190	28,200	NA	563,000	327	1,780
1962	609,000	598,000	15,100	26,400	NA	598,000	327	1,770
1963	600,000	610,000	22,900	24,200	NA	599,000	332	1,770
1964	640,000	629,000	36,900	26,600	NA	650,000	311	1,640
1965	655,000	651,000	45,000	24,400	NA	676,000	297	1,540
1966	669,000	669,000	43,500	24,400	NA	688,000	312	1,570
1967	658,000	650,000	42,400	23,500	NA	677,000	306	1,490
1968	691,000	700,000	48,400	27,400	NA	712,000	300	1,410
1969	730,000	719,000	NA	22,200	NA	708,000	338	1,500
1970	714,000	702,000	54,600	23,800	NA	641,000	335	1,410
1971	733,000	740,000	38,900	24,300	NA	667,000	386	1,550
1972	744,000	778,000	78,400	9,380	NA	692,000	521	2,030
1973	835,000	845,000	54,800	18,800	NA	767,000	744	2,730
1974	831,000	801,000	31,700	27,600	NA	666,000	892	2,950
1975	632,000	604,000	23,500	14,300	97,000	495,000	844	2,560
1976	741,000	740,000	62,400	18,700	103,000	625,000	869	2,490
1977	709,000	719,000	104,000	14,800	NA	647,000	852	2,290
1978	717,000	648,000	107,000	35,700	NA	662,000	959	2,400
1979	754,000	687,000	95,200	46,700	49,000	692,000	1,050	2,350
1980	660,000	664,000	88,500	41,500	75,500	623,000	1,200	2,370
1981	691,000	706,000	113,000	56,600	92,700	673,000	1,340	2,410
1982	598,000	641,000	126,000	67,200	78,900	628,000	1,450	2,440
1983	690,000	738,000	159,000	84,800	70,300	718,000	1,290	2,110
1984	757,000	821,000	176,000	98,200	75,800	775,000	1,350	2,110
1985	783,000	862,000	178,000	93,600	51,500	831,000	1,480	2,240
1986	844,000	984,000	184,000	105,000	69,800	845,000	1,550	2,310
1987	879,000	1,040,000	174,000	121,000	47,500	904,000	1,630	2,340
1988	927,000	1,100,000	185,000	123,000	49,700	921,000	1,780	2,450
1989	1,010,000	1,130,000	166,000	212,000	63,200	885,000	2,090	2,740

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Year	Production	Shipments	Imports	Exports	Stocks	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
1990	979,000	1,120,000	148,000	202,000	61,700	925,000	2,150	2,690
1991	992,000	1,120,000	166,000	212,000	72,100	936,000	2,120	2,540
1992	1,140,000	1,260,000	169,000	270,000	108,000	1,000,000	2,010	2,330
1993	1,160,000	1,290,000	172,000	290,000	123,000	1,030,000	1,920	2,170
1994	1,250,000	1,370,000	176,000	352,000	106,000	1,110,000	1,850	2,040
1995	1,250,000	1,330,000	183,000	342,000	120,000	1,080,000	1,910	2,040
1996	1,230,000	1,330,000	167,000	332,000	107,000	1,080,000	1,890	1,970
1997	1,340,000	1,360,000	194,000	405,000	108,000	1,130,000	1,760	1,790
1998	1,330,000	1,380,000	200,000	398,000	96,900	1,140,000	1,840	1,840
1999	1,350,000	1,430,000	225,000	384,000	137,000	1,160,000	1,890	1,850
2000	1,400,000	1,470,000	218,000	464,000	141,000	1,150,000	1,880	1,780
2001	1,330,000	1,370,000	209,000	415,000	159,000	1,100,000	1,890	1,740
2002	1,410,000	1,530,000	231,000	540,000	137,000	1,160,000	1,800	1,630
2003	1,420,000	1,350,000	241,000	584,000	156,000	1,070,000	1,830	1,620
2004	1,540,000	1,700,000	264,000	635,000	NA	1,170,000	1,780	1,530
2005	1,310,000	1,420,000	341,000	524,000	NA	1,130,000	2,180	1,820
2006	1,370,000	1,400,000	288,000	581,000	NA	1,080,000	2,150	1,740
2007	1,440,000	1,480,000	221,000	682,000	NA	979,000	1,870	1,470
2008	1,350,000	1,390,000	183,000	733,000	NA	800,000	2,210	1,670
2009	1,230,000	1,280,000	175,000	649,000	NA	757,000	2,210	1,680
2010	1,320,000	1,360,000	204,000	758,000	NA	767,000	2,320	1,730
2011	1,290,000	1,320,000	200,000	789,000	NA	706,000	3,530	2,560

NA Not available.

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Data are calculated, estimated, or reported. See notes for more information.

Titanium Dioxide Pigment Worksheet Notes

Data Sources

Sources for the titanium dioxide (TiO₂) pigment worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB). In addition, some data are from the U.S. Census Bureau (USCB). The years of publication and corresponding years of data coverage are listed in the References section below.

Production

Production data are reported in gross weight TiO₂ pigment. Data are not available prior to 1950. Data for 1950–79 are estimated based on USCB production data reported in TiO₂ content. Data for 1980 to the most recent year are from the MYB.

Shipments

Shipments data are reported in gross weight TiO₂ pigment. Data are not available prior to 1950. Data for 1950–79 are estimated, based on USCB production data reported in TiO₂ content. Data for 1980 to the most recent year are from the MYB.

Imports

Import data are reported in gross weight TiO₂ pigment. Data are not available prior to 1956 and for 1969. Data are from the MYB.

Exports

Export data are reported in gross weight TiO₂ pigment. Data are not available prior to 1939. Data are from the MYB.

Stocks

Data are total industry stocks, reported in gross weight TiO₂ pigment. Data are not available prior to 1967. Data for 1967–78 are estimated, based on USCB production data reported in TiO₂ content. Data for 1979–2003 are from the MYB. Data for 2004 to the most recent year are not available.

Apparent Consumption

Consumption data are reported in gross weight TiO₂ pigment. Data are insufficient to permit an estimation of apparent consumption prior to 1950. Apparent consumption data are estimated for 1950–69 using the following equation:

$$\text{APPARENT CONSUMPTION} = \text{PRODUCTION} + \text{IMPORTS} - \text{EXPORTS}.$$

Apparent consumption data for 1970 to the most recent year were calculated using the following equation:

$$\text{APPARENT CONSUMPTION} = \text{PRODUCTION} + \text{IMPORTS} - \text{EXPORTS} \pm (\text{STOCK CHANGES}).$$

Data for 2004 to the most recent year exclude stock changes. Data are from the MYB.

Unit Value (\$/t)

Unit value is defined as the value of 1 metric ton (t) gross weight apparent consumption of TiO₂ pigment. For 1939–77, titanium pigment unit value data are based on the exports value data. For 1978 to the most recent year, TiO₂ pigment unit value data are based on the shipments value data. Data are from the MYB.

Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

References

U.S. Bureau of Mines, 1934–96, Minerals Yearbook, 1932–94.

U.S. Geological Survey, 1995–present, Minerals Yearbook, v. I. (Available via <http://minerals.usgs.gov/minerals/>)

Recommended Citation Format:

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, accessed [date], at <http://pubs.usgs.gov/ds/2005/140/>.

For more information, please contact:

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