

# TITANIUM DIOXIDE PIGMENT STATISTICS<sup>1</sup>

## U.S. GEOLOGICAL SURVEY

[All values are in metric tons (t) titanium dioxide pigment unless otherwise noted]

Last modification: November 26, 2008

Year	Production	Shipments	Imports	Exports	Stocks	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
1939				3,920			178	2,090
1940				4,500			193	2,240
1941				7,100			227	2,510
1942				8,050			212	2,120
1943				8,860			207	1,950
1944				9,910			187	1,730
1945				11,600			199	1,800
1946				14,800			209	1,750
1947				19,200			270	1,970
1948				24,300			293	1,980
1949				26,900			303	2,070
1950	419,000	420,000		29,600		389,000	297	2,010
1951	441,000	419,000		35,600		405,000	373	2,340
1952	423,000	372,000		32,300		391,000	331	2,030
1953	446,000	440,000		36,100		410,000	325	1,980
1954	458,000	461,000		57,900		400,000	402	2,440
1955	505,000	522,000		49,300		456,000	372	2,260
1956	592,000	564,000	508	58,800		534,000	428	2,560
1957	553,000	484,000	36	48,000		505,000	410	2,380
1958	500,000	527,000	643	33,600		467,000	338	1,910
1959	612,000	583,000	2,600	32,900		582,000	321	1,800
1960	548,000	563,000	5,610	30,500		523,000	328	1,800
1961	583,000	570,000	8,190	28,200		563,000	327	1,780
1962	609,000	598,000	15,100	26,400		598,000	327	1,770
1963	600,000	610,000	22,900	24,200		599,000	332	1,770
1964	640,000	629,000	36,900	26,600		650,000	311	1,640
1965	655,000	651,000	45,000	24,400		676,000	297	1,540
1966	669,000	669,000	43,500	24,400		688,000	312	1,570
1967	658,000	650,000	42,400	23,500		677,000	306	1,490
1968	691,000	700,000	48,400	27,400		712,000	300	1,410
1969	730,000	719,000		22,200		708,000	338	1,500
1970	714,000	702,000	54,600	23,800		641,000	335	1,410
1971	733,000	740,000	38,900	24,300		667,000	386	1,550
1972	744,000	778,000	78,400	9,380		692,000	521	2,030
1973	835,000	845,000	54,800	18,800		767,000	744	2,730
1974	831,000	801,000	31,700	27,600		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		647,000	852	2,290
1978	717,000	648,000	107,000	35,700		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
1990	979,000	1,120,000	148,000	202,000	61,700	925,000	2,150	2,690

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<b>Year</b>	<b>Production</b>	<b>Shipments</b>	<b>Imports</b>	<b>Exports</b>	<b>Stocks</b>	<b>Apparent consumption</b>	<b>Unit value (\$/t)</b>	<b>Unit value (98\$/t)</b>
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		1,170,000	1,780	1,530
2005	1,310,000	1,420,000	341,000	524,000		1,130,000	2,180	1,820
2006	1,370,000	1,400,000	288,000	581,000		1,080,000	2,150	1,740
2007	1,440,000	1,480,000	221,000	682,000		979,000	1,870	2,380

<sup>1</sup>Compiled by D.A. Buckingham (retired) and J. Gambogi.

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

## Titanium Dioxide Pigment Worksheet Notes

### Data Sources

Sources for the titanium dioxide (TiO<sub>2</sub>) 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. Blank cells in the worksheet indicate that data were not available.

### Production

Production data are reported in gross weight TiO<sub>2</sub> pigment. Data are not available prior to 1950. Data for the years 1950–79 are estimated based on USCB production data reported in TiO<sub>2</sub> content. Data for the years 1980 to the most recent are from the MYB.

### Shipments

Shipments data are reported in gross weight TiO<sub>2</sub> pigment. Data are not available prior to 1950. Data for the years 1950–79 are estimated, based on USCB production data reported in TiO<sub>2</sub> content. Data for the years 1980 to the most recent are from the MYB.

### Imports

Import data are reported in gross weight TiO<sub>2</sub> pigment. Data are not available prior to 1956 and for the year 1969. Data are from the MYB.

### Exports

Export data are reported in gross weight TiO<sub>2</sub> pigment. Data are not available prior to 1939. Data are from the MYB.

### Stocks

Data are total industry stocks, reported in gross weight TiO<sub>2</sub> pigment. Data are not available prior to 1967. Data for the years 1967–78 are estimated, based on USCB production data reported in TiO<sub>2</sub> content. Data for the years 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 TiO<sub>2</sub> pigment. Data are insufficient to permit an estimation of apparent consumption prior to the year 1950. Apparent consumption data are estimated for the years 1950–69 using the following equation:

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

Apparent consumption data for the years 1970 to the most recent 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 TiO<sub>2</sub> pigment. For the years 1939–77, titanium pigment unit value data are based on the exports value data. For the years 1978 to the most recent, TiO<sub>2</sub> 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, 1997–2008, Minerals Yearbook, v. I, 1995–2007.

### 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, available online at <http://pubs.usgs.gov/ds/2005/140/>. (Accessed [date].)

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