

# TITANIUM SPONGE STATISTICS<sup>1</sup>

## U.S. GEOLOGICAL SURVEY

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

Last modification: November 26, 2008

Year	Production	Imports	Exports	Industry stocks	Government stocks	Government shipments	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
1941								11,600	129,000
1942								11,600	116,000
1943								11,600	109,000
1944								11,600	107,000
1945								11,600	105,000
1946								11,600	97,000
1947								14,300	105,000
1948	9						9	12,100	81,800
1949	23						23	11,000	75,300
1950	68						68	11,000	74,400
1951	449						450	11,000	69,000
1952	975				275		980	11,000	67,700
1953	2,030				27		2,000	11,000	67,200
1954	4,870	175			2,630		2,270	9,920	60,100
1955	6,710	514		775	6,030		3,610	7,610	46,300
1956	13,200	1,860		2,720	8,450		9,920	6,060	36,300
1957	15,600	3,200		2,540	18,000		7,460	4,960	28,800
1958	4,160	1,880		907	20,400		3,760	4,010	22,600
1959	3,540	1,420		998	20,400		3,590	3,530	19,800
1960	4,820	2,020		907	20,400		4,980	3,530	19,400
1961	6,100	2,260		1,090	20,400		6,340	3,530	19,200
1962	6,110	839		1,180	20,400		6,470	3,530	19,100
1963	7,150	1,330		998	20,300		8,040	3,530	18,800
1964		1,850		726	28,400		10,100	2,910	15,300
1965		2,840		816	28,400		11,000	2,910	15,100
1966		4,740		726	27,700		17,900	2,910	14,600
1967		6,510		2,630	27,700		18,200	2,910	14,200
1968		3,040		2,360	27,700		12,900	2,910	13,600
1969		5,210		1,730	27,900		18,300	2,910	12,900
1970		5,380		2,280	31,800		14,900	2,910	12,200
1971	9,050	2,540		2,470	31,800		11,000	2,910	11,700
1972	9,150	3,460		1,650	31,800		11,900	2,910	11,300
1973	13,700	4,690		1,760	29,500		18,300	3,130	11,500
1974	16,100	6,320		3,470	28,200		24,400	4,960	16,400
1975	15,300	3,800		5,140	28,800		16,000	5,950	18,000
1976	9,050	1,610		3,280	29,300		12,100	5,950	17,000
1977		2,170		3,220	29,300		14,700	6,570	17,700
1978		1,340	88	2,400	29,300		18,000	7,230	18,100
1979	19,100	2,260	163	1,950	29,300		21,700	8,770	19,700
1980	20,400	4,330	103	2,160	29,300		24,400	15,500	30,700
1981	24,000	5,890	53	3,380	29,300		28,700	16,900	30,300
1982	14,200	1,230	33	3,040	29,300		15,700	12,200	20,600
1983	12,700	1,090	35	2,840	29,300		14,600	12,600	20,600
1984	22,100	2,420	155	2,860	29,500		22,400	9,110	14,300
1985	21,100	1,560	46	4,310	33,400		19,600	8,270	12,500
1986	15,800	1,480	63	2,890	33,400		17,700	9,040	13,400
1987	17,800	924	85	2,270	33,400		18,000	9,040	13,000
1988	22,300	1,360	80	2,440	33,400		21,000	9,920	13,700
1989	25,200	903	136	2,110	33,400		24,900	11,100	14,600
1990	24,700	1,090	331	3,270	33,400		23,200	10,500	13,100
1991	13,400	612	418	2,850	33,400		13,400	10,500	12,600
1992		684	178	1,930	33,400		14,200	8,270	9,610

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Last modification: November 26, 2008

Year	Production	Imports	Exports	Industry stocks	Government stocks	Government shipments	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
1993		2,160	104	2,910	33,400		15,100	8,270	9,330
1994		6,470	126	5,570	33,400		18,800	9,660	10,600
1995		7,560	225	5,270	33,400		21,600	9,660	10,300
1996		10,100	528	4,390	33,200		28,400	9,660	10,000
1997		16,100	976	7,020	33,100	227	31,300	9,660	9,810
1998		10,900	348	10,600	31,700	1,380	28,200	9,660	9,660
1999		6,000	807	7,970	31,200	515	18,100	9,370	9,170
2000		7,240	1,930	5,010	26,300	4,870	18,200	8,710	8,240
2001		13,300	2,170	6,340	18,600	7,640	26,200	7,890	7,260
2002		10,700	2,810	11,700	13,200	5,400	17,300	8,020	7,270
2003		9,590	4,990	8,180	6,420	6,820	17,100	7,360	6,520
2004		11,900	2,410	7,660	2,510	3,910	21,200	11,000	9,490
2005		15,800	1,910	4,330	0	2,510	26,100	17,300	20,700
2006		24,400	1,380	8,240	0	0	28,400	20,600	25,500
2007		25,900	2,000	7,820	0	0	33,700	14,760	18,800

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

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

# TITANIUM SCRAP STATISTICS<sup>1</sup>

## U.S. GEOLOGICAL SURVEY

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

Last modification: November 26, 2008

Year	Imports	Exports	Industry stocks	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
1955				1,230		
1956				1,840		
1957				1,580		
1958				1,210		
1959				1,530		
1960				2,290		
1961				2,270		
1962				2,870		
1963				2,120		
1964				2,610		
1965				3,000		
1966				4,410		
1967				5,280		
1968				4,270		
1969				6,860		
1970	555			6,570		
1971	200			5,580		
1972	381		3,900	7,080		
1973	1,330		4,030	9,110		
1974	2,610		5,010	9,620		
1975	795		5,560	7,540		
1976	1,690		5,230	8,360	1,640	4,700
1977	4,080		6,140	9,880	1,610	4,330
1978	3,440	4,950	5,850	11,200	2,370	5,930
1979	5,570	4,510	6,110	12,700	4,000	8,980
1980	3,750	2,990	7,840	14,000	7,580	15,000
1981	3,440	2,980	9,510	13,400	5,700	10,200
1982	1,160	3,890	10,000	7,740	3,150	5,320
1983	1,430	4,880	11,500	9,500	3,130	5,120
1984	1,680	3,730	11,300	14,100	3,400	5,330
1985	1,940	6,130	10,600	13,400	3,140	4,760
1986	2,160	5,810	10,500	15,000	2,750	4,090
1987	2,220	5,080	9,210	16,400	2,970	4,260
1988	4,240	5,990	8,600	18,100	5,400	7,440
1989	5,310	5,470	8,030	17,600	7,890	10,400
1990	3,040	5,490	8,540	15,000	5,780	7,210
1991	2,670	4,570	7,910	11,400	3,190	3,820
1992	6,260	2,770	8,890	14,800	3,110	3,610
1993	5,510	3,890	8,130	15,300	3,280	3,700
1994	5,830	4,120	7,930	15,700	3,250	3,570
1995	11,100	3,420	9,430	20,500	3,910	4,180
1996	16,370	3,410	15,900	26,300	5,020	5,220
1997	10,650	5,500	15,200	26,300	4,610	4,680
1998	9,770	7,010	13,600	28,600	3,540	3,540
1999	6,870	8,130	9,450	21,900	2,850	2,790
2000	7,550	5,060	5,150	18,500	3,190	3,020
2001	11,600	7,500	4,920	17,000	3,520	3,270
2002	6,270	6,000	3,760	11,600	2,840	2,570
2003	5,550	5,320	4,320	14,300	3,550	3,140
2004	8,830	9,780	7,030	18,500	6,070	5,240
2005	12,400	20,600	6,900	25,800	13,100	15,700
2006	12,800	10,800	8,940	25,000	15,600	19,300

# TITANIUM SCRAP STATISTICS<sup>1</sup>

## U.S. GEOLOGICAL SURVEY

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

Last modification: November 26, 2008

Year	Imports	Exports	Industry stocks	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)
2007	12,200	9,510	12,600	23,800	10,900	13,900

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

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

## **Titanium Metal Worksheet Notes**

### **Data Sources**

Sources for the titanium metal worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB), and the Mineral Commodity Summaries (MCS). Other data sources include Metal Prices in the United States through 1998 (MP98), compiled and published by the U.S. Geological Survey in 1999. 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 either were not available or were withheld because they were proprietary.

### **Titanium Sponge**

#### **Production**

Data represent titanium sponge metal production. Data are not available for the years prior to 1948 and are withheld for the years 1964–70, 1977–78, and 1992 to the most recent. Data are from the MYB.

#### **Imports**

Data represent imports of titanium sponge metal. Data are not available prior to 1954. Data are from the MYB.

#### **Exports**

Data represent exports of titanium sponge metal. Data are not available prior to 1978. Data are from the MYB.

#### **Stocks**

Data represent yearend industry stocks of titanium sponge metal. Data are from the MYB.

#### **Government Stocks**

Data represent total yearend inventory of government stocks of titanium sponge metal. Data are not available prior to 1952. Data are from the MYB.

#### **Government Shipments**

Data represent shipments of titanium sponge metal from government stocks. Data are not available prior to 1997. Data are from the MCS.

#### **Apparent Consumption**

Apparent consumption data are not published. Consumption data are not available prior to 1948. Data for the years 1948–53 are estimated using titanium sponge metal production. Titanium sponge metal apparent consumption data for the years 1954 to the most recent are estimated using the “Reported Sponge Metal Consumption” data published in the MYB.

#### **Unit Value (\$/t)**

Unit value is defined as the value of 1 metric ton (t) apparent consumption of titanium sponge metal. Unit value data were estimated with the yearend market price for titanium sponge metal for the years 1941 to the most recent. Data are from the MYB and MP98.

#### **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.

### **Titanium Scrap**

#### **Imports**

Data represent imports of titanium scrap and waste. Data are not available prior to 1970. Data are from the MYB.

#### **Exports**

Data represent exports of titanium scrap and waste. Data are not available prior to 1978. Data are from MYB.

#### **Stocks**

Data represent yearend titanium scrap industry stocks. Data are from the MYB.

#### **Apparent Consumption**

Apparent consumption data are not published. Consumption data are not available prior to 1955. The “Reported Scrap Consumption” data as published in the MYB are used to estimate titanium scrap metal apparent consumption. Data represent scrap consumed to produce titanium metal products.

**Unit Value (\$/t)**

Unit value is defined as the value of 1 metric ton (t) apparent consumption of titanium scrap. Unit value data were estimated with the scrap import value. 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, 1950–96, Minerals Yearbook, 1948–94.
- U.S. Geological Survey, 1997–2008, Mineral Commodity Summaries, 1997–2008.
- U.S. Geological Survey, 1997–2008, Minerals Yearbook, v. I, 1995–2007.
- U.S. Geological Survey, 1999, Metal Prices in the United States through 1998.
- U.S. Geological Survey and U.S. Bureau of Mines, 1996, Mineral Commodity Summaries, 1996.

**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].)

**For more information, please contact:**

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