

**INDIUM STATISTICS<sup>1</sup>**  
**U.S. GEOLOGICAL SURVEY**

[All values are in metric tons (t) indium content unless otherwise noted]

Last modification: April 1, 2014

<b>Year</b>	<b>Production</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>	<b>World production</b>
1936	NA	NA	NA	NA	0.04	965,000	11,300,000	NA
1937	NA	NA	NA	NA	0.07	965,000	10,900,000	NA
1938	NA	NA	NA	NA	0.11	965,000	11,200,000	NA
1939	NA	NA	NA	NA	0.15	965,000	11,300,000	NA
1940	NA	NA	NA	NA	0.18	739,000	8,600,000	NA
1941	0.218	NA	NA	NA	0.22	402,000	4,460,000	NA
1942	0.653	NA	NA	NA	0.65	723,000	7,230,000	NA
1943	1.85	NA	NA	NA	1.9	402,000	3,790,000	NA
1944	2.56	NA	NA	NA	2.6	281,000	2,600,000	NA
1945	1.79	0.041	NA	NA	1.8	157,000	1,430,000	NA
1946	0.301	0.155	NA	NA	0.46	72,300	603,000	NA
1947	0.433	0.271	NA	NA	0.70	72,300	528,000	NA
1948	0.380	0.451	NA	NA	0.83	72,300	489,000	NA
1949	1.70	0.645	NA	NA	2.3	72,300	495,000	NA
1950	3.91	NA	NA	NA	3.9	72,300	489,000	NA
1951	4.76	NA	NA	NA	4.8	72,300	452,000	NA
1952	NA	NA	NA	NA	4.4	72,300	444,000	NA
1953	NA	NA	NA	NA	4.0	72,300	441,000	NA
1954	NA	NA	NA	NA	3.5	72,300	438,000	NA
1955	NA	NA	NA	NA	3.1	72,300	441,000	NA
1956	2.72	NA	NA	NA	2.7	72,300	433,000	NA
1957	NA	NA	NA	NA	3.0	72,300	420,000	NA
1958	NA	NA	NA	NA	3.3	72,300	408,000	NA
1959	NA	NA	NA	NA	3.5	72,300	404,000	NA
1960	NA	NA	NA	NA	3.8	72,300	397,000	NA
1961	NA	NA	NA	NA	4.1	72,300	395,000	NA
1962	NA	NA	NA	NA	4.4	72,300	391,000	NA
1963	NA	NA	NA	NA	4.7	72,300	385,000	NA
1964	NA	NA	NA	NA	4.9	77,200	406,000	NA
1965	NA	NA	NA	NA	5.2	88,400	458,000	NA
1966	5.51	NA	NA	NA	5.5	88,400	444,000	NA
1967	1.90	9.02	NA	NA	11	88,400	431,000	NA
1968	2.66	8.74	NA	NA	11	80,400	377,000	NA
1969	1.96	8.80	NA	NA	11	80,400	357,000	NA
1970	NA	12.5	NA	NA	13	80,400	338,000	NA
1971	NA	12.1	NA	NA	12	80,400	324,000	NA
1972	NA	19.5	NA	NA	20	80,400	314,000	68.4
1973	NA	25.2	NA	NA	25	56,900	209,000	54.1
1974	NA	15.3	NA	NA	15	142,000	469,000	56.0
1975	NA	3.54	NA	NA	3.5	182,000	551,000	46.7
1976	NA	9.02	NA	NA	9.0	258,000	739,000	46.5
1977	NA	9.05	NA	NA	9.1	314,000	845,000	40.4
1978	NA	6.41	NA	NA	6.4	275,000	688,000	44.5
1979	NA	9.14	NA	NA	22	433,000	972,000	46.7
1980	NA	9.30	NA	NA	19	547,000	1,080,000	49.8
1981	NA	14.3	NA	NA	16	242,000	434,000	43.5
1982	NA	21.3	NA	NA	16	134,000	226,000	49.8
1983	NA	33.4	NA	NA	16	103,000	169,000	23.3
1984	NA	31.8	NA	NA	19	96,500	151,000	29.5
1985	NA	30.5	NA	NA	19	84,600	128,000	29.5
1986	NA	43.0	NA	NA	22	83,900	125,000	41.1

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1987	NA	47.3	NA	NA	25	235,000	337,000	53.5
1988	NA	38.1	NA	NA	28	319,000	440,000	106
1989	NA	26.8	NA	NA	28	275,000	362,000	115
1990	NA	30.2	NA	NA	30	230,000	287,000	118
1991	NA	36.3	NA	NA	30	218,000	261,000	140
1992	NA	54.4	NA	NA	30	225,000	261,000	140
1993	NA	73.4	NA	0.80	35	207,000	234,000	140
1994	0	70.2	NA	1.60	40	143,000	157,000	145
1995	0	85.2	NA	1.60	43	388,000	415,000	239
1996	0	33.2	NA	1.60	45	381,000	396,000	200
1997	0	85.5	NA	0.44	50	319,000	324,000	230
1998	0	75.0	NA	0.44	50	306,000	306,000	230
1999	0	77.4	25	0	52	303,000	296,000	215
2000	0	69.4	15	0	55	188,000	178,000	335
2001	0	79.0	10	0	69	120,000	110,000	408
2002	0	112	10	0	102	97,000	87,900	406
2003	0	123	NA	NA	90	170,000	151,000	381
2004	0	143	NA	NA	100	643,000	555,000	392
2005	0	142	NA	NA	115	946,000	790,000	607
2006	0	100	NA	NA	125	918,000	742,000	638
2007	0	147	NA	NA	125	795,000	625,000	631
2008	0	144	NA	NA	125	685,000	519,000	678
2009	0	105	NA	NA	100	500,000	380,000	685
2010	0	117	NA	NA	100	565,000	422,000	679
2011	0	146	NA	NA	100	720,000	522,000	738
2012	0	109	NA	NA	100	650,000	462,000	782

NA Not available.

<sup>1</sup>Compiled by C.A. DiFrancesco, M.W. George, J.F. Carlin, Jr., and A.C. Tolcin.

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

## Indium Worksheet Notes

### Data Sources

The sources of data for the indium worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB); Mineral Commodity Summaries (MCS) and its predecessor, Commodity Data Summaries (CDS); and Metal Prices in the United States through 1998 (MP98). The years of publication and corresponding years of data coverage are listed in the References section below.

### Production

Production data were for refined indium. Data for 1956 and 1966–69 were for Anaconda only, with data from the ASARCO facilities in Denver, CO, and Perth Amboy, NJ, not available. Data were from the MYB. No production of indium from domestic ore and concentrates has been reported for 1994 to the most recent year.

### Imports

Imports data report the amount of indium content in wrought, unwrought, and scrap and waste indium imported into the United States. Data were from the MYB for 1945–49 and 1967–73, and the CDS and the MCS for 1974 to the most recent year. Data were not available for 1936–44 and 1950–66.

### Exports

Exports data are reported in terms of contained indium. Data for 1999–2002 are estimates from the MYB.

### Stocks

Stocks data report the amount of contained indium held in government stocks and do not include producer, consumer, or dealer stocks. Data were from the CDS and the MCS.

### Apparent Consumption

Apparent consumption figures were developed based on the following considerations:

- They were limited to two significant figures based on broad assumptions that had to be made throughout the period covered— 1936 to the most recent year.
- Apparent consumption figures for 1936–40 were interpolated by assuming that apparent consumption before 1936 was equal to zero (no statistics reported), as production and use were minimal. A 60 percent price drop in December of 1940 and increased wartime demand, especially protection of bearings for engines and machines, caused demand and consumption to rise.
- Apparent consumption was estimated for 1941–51, 1956, and 1966–78, using the formula:

$$\text{APPARENT CONSUMPTION} = \text{PRODUCTION} + \text{IMPORTS} - \text{EXPORTS} \pm \text{CHANGES IN STOCKS.}$$

- If production, imports, exports, or stocks data were not available, they were presumed to equal zero in the above equation.
- The values for apparent consumption were interpolated for 1952–55 and 1957–65.
- Domestic consumption data from the MCS were used as an estimate for apparent consumption for 1979 to the most recent year. Data may include unpublished revisions from the USGS indium commodity specialist.

Apparent consumption since the early 1970s is estimated and may be an inaccurate indicator of domestic consumption because much of the indium was probably exported as components in high tech final products.

### Unit Value (\$/t)

Unit value is the value, in current dollars, of 1 metric ton (t) of indium apparent consumption. Unit value was calculated using price data from the MP98 for refined indium for 1936–98 and from the MCS for 1999 to the most recent year.

**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.

**World Production**

World production data were for smelter production of indium for 1972–74 and for refined indium for 1975 to the most recent year. Data for 1972 to the most recent year do not contain U.S. production. Data were from the CDS, MCS, and MYB. Data were not available for 1936–71.

**References**

- U.S. Bureau of Mines, 1943–96, Minerals Yearbook, 1941–94.
- U.S. Bureau of Mines, 1974–77, Commodity Data Summaries, 1974–77.
- U.S. Bureau of Mines, 1978–95, Mineral Commodity Summaries, 1978–95.
- U.S. Geological Survey, 1995–present, Minerals Yearbook, v. I. (Available via <http://minerals.usgs.gov/minerals/>.)
- U.S. Geological Survey, 1997–most recent, Mineral Commodity Summaries 1997–most recent. (Available via <http://minerals.usgs.gov/minerals/>.)
- 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.

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**For more information, please contact:**

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