

CADMIUM STATISTICS¹
U.S. GEOLOGICAL SURVEY

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

Last modification: October 21, 2008

Year	Production	Imports	Exports	Shipments	Stocks	Apparent consumption	Unit value (\$/t)	Unit value (98 \$/t)	World production
1900	0						1,430	28,000	14
1901	0						1,500	29,000	13
1902	0						1,190	22,000	13
1903	0	3.94				3.94	1,170	21,000	17
1904	0	3.47				3.47	1,300	24,000	25
1905	0	3.69				3.69	1,430	26,000	25
1906	0.136	6.27				6.40	1,680	31,000	21
1907	6.35	0.886				7.24	1,850	32,000	39
1908	3.63	1.62				5.25	1,650	30,000	37
1909	2.41	4.02				6.43	1,150	21,000	39
1910	2.13	1.84				3.97	1,210	21,000	43
1911	11.9	2.44				14.3	1,480	26,000	55
1912	23.8	2.38	18			8.20	1,680	28,000	67
1913	24.6	0.751				25.3	1,700	28,000	62
1914	41.5	0.200				39.8	1,960	32,000	80
1915	41.5	0.122				41.6	2,620	42,300	78
1916	61.4					43.6	3,440	51,400	119
1917	94.1					94.1	3,240	41,300	172
1918	57.7		18			38.5	3,260	35,200	165
1919	45.3					45.3	2,690	25,400	89
1920	58.7					45.3	2,580	21,000	81
1921	31.1	0.046				31.1	2,160	19,700	54
1922	59.7	1.02				60.7	2,400	23,300	128
1923	83.4	0.007				83.4	1,940	18,500	248
1924	58.7	0.501				59.2	1,320	12,600	245
1925	228	0.002				228	1,320	12,300	416
1926	368					368	1,320	12,200	960
1927	488	10.2				497	1,320	12,400	661
1928	851	106				957	1,320	12,600	1,500
1929	1,130	97.2		1,060		1,420	1,320	12,600	2,180
1930	1,260	18.2		755		1,420	1,320	12,900	2,480
1931	477	0.123		701		630	1,210	13,000	1,230
1932	363			524		480	1,210	14,400	1,040
1933	1,030	49.4		1,110		1,260	1,210	15,200	1,950
1934	1,260	57.1		1,120		1,570	1,210	14,700	2,480
1935	1,580	84.1		1,830		1,890	1,540	18,300	3,150
1936	1,650	261		1,650		2,190	2,160	25,300	3,390
1937	1,940	376	11	1,840		2,690	2,690	30,500	3,970
1938	1,950	10.2	208	1,150		1,850	2,160	25,000	4,010
1939	2,170	141		2,350		2,680	1,410	16,500	4,580
1940	2,890	12.5	176	2,930	1,290	2,800	1,810	21,100	5,220
1941	3,280	66.9	78	3,200	1,180	3,520	1,980	22,000	5,220
1942	3,340	24.2	114	3,280	914	3,470	1,740	17,400	5,030
1943	3,840	22.2	71	3,780	1,450	3,350	1,740	16,400	5,380
1944	3,980	30.2	249	3,880	1,270	4,020	1,650	15,300	5,320
1945	3,800	13.0	46	3,600	706	3,920	1,700	15,400	4,760
1946	2,940	7.90	64	2,800	457	3,170	2,180	18,200	4,050
1947	3,860	9.21	138	3,560	578	3,510	3,460	25,300	4,930
1948	3,530	4.45	434	3,470	213	3,540	3,660	24,700	4,870
1949	3,730	71.3	257	3,570	316	3,400	4,410	30,200	5,220
1950	4,170	286	160	4,020	266	4,330	4,780	32,300	6,010

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1951	3,770	40.9	275	3,520	509	3,250	5,620	35,200	6,070
1952	3,890	675	136	3,510	847	4,090	4,920	30,300	6,170
1953	4,430	705	30	3,690	1,530	4,340	4,410	26,900	7,060
1954	4,330	182	453	3,590	2,190	3,400	3,750	22,700	7,300
1955	4,420	421	632	5,070	1,650	4,850	3,750	22,800	8,390
1956	4,810	1,410	583	4,960	1,520	5,770	3,750	22,500	9,070
1957	4,790	719	314	4,580	1,670	4,990	3,750	21,800	9,390
1958	4,390	455	263	3,590	2,540	3,720	3,350	18,900	9,800
1959	3,900	743	408	5,110	1,570	5,180	2,980	16,700	10,200
1960	4,740	427	1,110	5,440	894	4,590	3,350	18,400	11,100
1961	4,750	489	318	4,640	1,040	4,620	3,700	20,200	11,700
1962	5,050	507	325	5,470	570	5,510	3,790	20,500	11,700
1963	4,530	450	596	4,590	626	5,210	4,980	26,500	11,800
1964	4,740	501	653	4,400	980	4,250	6,610	34,800	12,700
1965	4,390	962	33	3,690	1,560	4,730	5,690	29,400	11,900
1966	4,750	1,520	172	5,350	1,130	6,700	5,340	26,900	13,000
1967	3,950	720	313	4,360	699	5,250	5,820	28,400	13,200
1968	4,830	874	240	5,100	499	6,050	5,840	27,400	15,000
1969	5,740	489	492	5,890	650	6,830	7,210	32,000	17,600
1970	4,290	1,130	169	3,110	1,740	4,110	7,870	33,100	16,500
1971	3,600	1,590	30	3,530	1,950	4,930	4,230	17,000	15,400
1972	3,760	1,100	462	4,750	1,060	5,720	5,640	22,000	16,700
1973	3,400	1,770	139	3,910	694	5,690	8,020	29,400	17,200
1974	3,020	1,800	28	2,950	906	5,490	9,020	29,800	17,300
1975	1,990	2,380	180	742	2,200	3,060	7,410	22,400	15,200
1976	2,050	3,330	229	2,710	1,640	5,380	5,860	16,800	17,000
1977	2,000	2,330	107	1,840	1,780	3,820	6,530	17,600	18,300
1978	1,650	2,880	326	1,960	1,490	4,510	5,400	13,500	17,300
1979	1,820	2,570	211	2,470	896	4,930	6,080	13,700	18,700
1980	1,580	2,620	236	1,270	1,320	3,530	6,260	12,400	18,200
1981	1,600	3,090	239	1,380	1,360	4,380	4,250	7,620	17,400
1982	1,010	2,310	11	1,830	952	3,730	2,450	4,140	16,400
1983	1,050	2,200	170	1,500	349	3,760	2,490	4,080	17,600
1984	1,690	1,890	106	1,810	351	3,300	3,730	5,850	19,600
1985	1,600	1,990	86	1,790	306	3,720	2,670	4,040	19,100
1986	1,490	3,170	38	2,030	441	4,390	2,760	4,100	19,100
1987	1,520	2,700	241	1,920	261	4,180	4,380	6,280	19,000
1988	1,890	2,480	613	2,070	481	3,620	15,200	20,900	21,900
1989	1,550	2,790	369	2,020	326	4,100	13,800	18,100	21,400
1990	1,680	1,740	385	1,860	336	3,110	7,450	9,290	20,200
1991	1,680	2,040	448	1,740	725	3,080	4,430	5,300	20,900
1992	1,620	1,960	213	2,080	588	3,270	2,000	2,320	19,600
1993	1,090	1,420	38	1,320	299	3,010	994	1,120	18,700
1994	1,010	1,110	1,450	1,290	139	1,040	2,490	2,740	18,200
1995	1,270	848	1,050	1,280	222	1,160	4,050	4,330	20,100
1996	1,530	843	201	1,310	479	2,250	2,730	2,840	18,900
1997	2,060	790	554	1,370	1,090	2,510	1,130	1,150	20,300
1998	1,240	514	180	1,570	729	2,100	626	626	20,200
1999	1,190	294	20	1,020	893	1,850	390	382	20,000
2000	1,890	425	314	1,580	1,200	2,010	362	343	20,300
2001	1,450	107	216	1,040	1,750	1,000	500	460	20,000

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2002	1,280	81	264	1,470	1,360	1,700	644	583	17,800
2003	1,450	112	615	1,200	1,430	1,020	1,310	1,160	18,400
2004	1,480	263	154	1,410	1,170	1,840	1,200	1,040	18,700
2005	1,470	288	686	1,680	1,540	699	3,300	2,750	20,200
2006	723	180	483	833	1,400	568	2,980	2,410	19,900
2007	735	316	424	692	1,440	585	7,610	5,980	20,400

¹Compiled by D.A. Buckingham (retired), J. Plachy (retired), P.H. Kuck, and A.C. Tolcin.

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

Cadmium Worksheet Notes

Data Sources

The sources of data for the cadmium worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR). Years of publication and corresponding years of data coverage are listed in the References section below. Blank cells in the worksheet indicate that data are not available.

Production

Data are domestic production of cadmium metal. Beginning in 1960, production includes secondary cadmium production. Data are from the MR and the MYB.

Imports

Data are imports of cadmium into the United States. No data are available for the years 1900–02 and 1916–20. Data are from the MR and the MYB. For the years 1989–2001, import data on unwrought metal were combined with the data for cadmium waste & scrap from the U.S. Census Bureau's (USCB) Harmonized Tariff Schedule (HTS) code 8107.10. Beginning in the year 2002, trade data for the two categories were reported separately, either as unwrought metal and powders (HTS 8107.20) or waste and scrap (HTS 8107.30). A third code, other articles thereof [including alloys] (HTS 8107.90), was retained. The import figures for the years 2002 to the most recent were obtained by summing these three categories. The import figures for 2002 to the most recent exclude cadmium sulfide, cadmium oxide, and other cadmium chemicals in Chapter 28 of the HTS.

Exports

Data are exports of cadmium from the United States. With the exception of the years 1912 and 1918, no export data are available prior to 1937. No datum is available for the year 1939. Export data prior to the year 1950 are for cadmium metal only. Export data for the years 1951–93 are in terms of cadmium content. Beginning in the year 1991 export data includes secondary cadmium. Data for the years 1994–2001 include exports of cadmium metal, alloy, and scrap. Beginning in the year 2002, trade data for the two categories were reported separately either as unwrought metal and powders (HTS B 8107.20) or waste and scrap (HTS B 8107.30). A third code, other articles thereof [including alloys] (HTS B 8107.90), was retained. The export figures for the years 2002 to the most recent were obtained by summing these three categories. The export figures for 2002 to the most recent exclude cadmium sulfide, cadmium oxide, and other cadmium chemicals in Chapter 28 of the HTS Schedule B. Data are from the MR and the MYB and include unpublished data revisions by the Commodity Specialist prior to 1978.

Shipments

Data are producer shipments, in terms of cadmium content. Shipments data are not available prior to 1929. For the years 1930–59 shipments are for cadmium compounds. Beginning in 1960, data include shipments of cadmium in compounds and metal from producer plants. Data are from the MR and the MYB.

Stocks

Stocks Data are not available prior to 1940. For the years 2001 to the most recent, stock data are industry stocks of cadmium metal only and are end of year, December 31. Data are from the MR and the MYB.

Apparent Consumption

Apparent consumption data are not available prior to 1903. Data for the years 1903–28 were estimated using the following equation:

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

Data for the years 1929 to the most recent are from the MR and the MYB.

Unit Value (\$/t)

Unit value is defined as the value of 1 metric ton (t) of cadmium apparent consumption. The cadmium metal market price data as published in the MR and the MYB, are used to calculate this unit value. Data for the years 1987 to the most recent represent the New York Dealer price published in the annual tables of Platts Metals Week.

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

Data are world refinery production of cadmium. World production data begins in 1932. Data prior to 1932 are production data from selected countries. Data are from the MR and the MYB.

References

- U.S. Bureau of Mines, 1927–34, Mineral Resources of the United States, 1924–31.
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