LEAD STATISTICS¹ U.S. GEOLOGICAL SURVEY [All values are in metric tons (t) lead content unless otherwise noted] Last modification: April 1, 2014

Primary Seconds Logon Source Logone Logone <thlogone< th=""> <thlogone< th=""> <thlogone< t<="" th=""><th colspan="11">Last modification: April 1, 2014</th></thlogone<></thlogone<></thlogone<>	Last modification: April 1, 2014										
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	1964	408,000	426,000	189,000	21,000		179,000	997,000	300	1,580	2,530,000

LEAD STATISTICS¹ U.S. GEOLOGICAL SURVEY [All values are in metric tons (t) lead content unless otherwise noted]

Year pro 1965	rimary oduction	Secondary			Government					
1965	oduction				Government		Apparent		Unit value	World
		production	Imports	Exports	shipments	Stocks	consumption	(\$/t)	(98 \$/t)	production
	385,000	450,000	202,000	11,000	49,000	176,000	1,000,000	353	1,830	2,700,000
1966	410,000	440,000	259,000	5,400	58,000	187,000	1,100,000	333	1,670	2,850,000
1967	386,000	433,000	330,000	5,900	25,000	196,000	1,130,000	309	1,510	2,870,000
1968	487,000	428,000	307,000	8,200	26,000	186,000	1,200,000	291	1,370	3,010,000
1969	594,000	468,000	253,000	6,400	20,000	NA	1,320,000	329	1,460	3,240,000
1970	626,000	459,000	222,000	11,000	11,000	296,000	1,360,000	346	1,450	3,390,000
1971	604,000	444,000	177,000	21,000	9,000	NA	1,210,000	306	1,230	3,490,000
1972	617,000	452,000	220,000	40,000	41,000	240,000	1,260,000	331	1,290	3,450,000
1973	624,000	489,000	170,000	110,000	191,000	194,000	1,420,000	359	1,320	3,490,000
1974	620,000	545,000	107,000	56,000	241,000	174,000	1,430,000	496	1,640	3,490,000
1975	579,000	597,000	90,000	19,000	6,000	189,000	1,040,000	474	1,440	3,440,000
1976	596,000	659,000	129,000	5,000	NA	150,000	1,280,000	509	1,460	3,690,000
1977	552,000	637,000	230,000	9,000	NA	127,000	1,180,000	677	1,820	3,410,000
1978	568,000	650,000	230,000	8,000	NA	134,000	1,220,000	743	1,860	3,460,000
1979	578,000	673,000	190,000	11,000	NA	191,000	1,130,000	1,160	2,600	3,510,000
1980	548,000	581,000	85,000	164,000	NA	172,000	906,000	937	1,850	3,520,000
1981	498,000	578,000	100,000	23,300	NA	195,000	977,000	805	1,440	3,350,000
1982	512,000	521,000	95,000	55,600	NA	171,000	1,110,000	562	949	3,450,000
1983	515,000	452,000	180,000	24,400	NA	159,000	1,140,000	478	782	3,350,000
1984	396,000	586,000	162,000	16,600	NA	142,000	1,140,000	564	885	3,200,000
1985	487,000	570,000	134,000	27,300	NA	178,000	1,130,000	421	638	3,390,000
1986	366,000	575,000	140,000	12,600	NA	104,000	1,150,000	485	721	3,240,000
1987	374,000	658,000	190,000	10,000	NA	110,000	1,200,000	791	1,140	3,430,000
1988	392,000	691,000	150,000	14,000	NA	105,000	1,230,000	818	1,130	3,420,000
1989	396,000	842,000	120,000	34,000	NA	98,000	1,330,000	869	1,140	3,400,000
1990	404,000	874,000	90,900	64,000	NA	112,000	1,300,000	1,010	1,260	3,370,000
1991	346,000	830,000	117,000	102,000	NA	80,800	1,230,000	739	884	3,260,000
1992	305,000	861,000	191,000	70,000	NA	103,000	1,270,000	774	899	3,200,000
1993	335,000	843,000	196,000	58,500	19,000	94,800	1,340,000	699	788	2,900,000
1994	351,000	858,000	231,000	53,500	67,100	76,700	1,490,000	820	902	2,800,000
1995	374,000	963,000	264,000	57,000	34,000	93,800	1,570,000	933	998	2,710,000
1996	326,000	1,030,000	268,000	61,000	39,000	79,900	1,630,000	1,080	1,120	2,920,000
1997	343,000	1,040,000	265,000	53,000	26,000	101,000	1,610,000	1,030	1,050	3,100,000
1998	337,000	1,060,000	310,000	40,000	50,000	89,000	1,690,000	999	999	3,060,000
1999	350,000	1,060,000	323,000	37,000	61,000	91,000	1,760,000	963	942	3,080,000
2000	341,000	1,080,000	365,000	48,600	32,000	125,000	1,740,000	961	910	3,200,000
2001	290,000	1,090,000	284,000	38,100	41,000	100,000	1,690,000	962	886	3,120,000
2002	262,000	1,100,000	218,000	43,400	6,000	111,000	1,530,000	961	871	2,850,000
2003	245,000	1,140,000	183,000	123,000	60,000	84,600	1,490,000	965	855	3,200,000
2004	148,000	1,130,000	208,000	82,600	52,600	59,000	1,470,000	1,220	1,050	3,150,000
2005	143,000	1,150,000	310,000	64,600	29,000	46,800	1,480,000	1,350	1,130	3,470,000
2006	153,000	1,160,000	343,000	68,500	24,000	56,000	1,580,000	1,710	1,380	3,630,000
2007	123,000	1,180,000	267,000	56,500	0	51,600	1,540,000	2,730	2,150	3,710,000
2008	135,000	1,140,000	314,000	74,800	0	72,500	1,490,000	2,650	2,010	3,880,000
2009	103,000	1,110,000	252,000	82,000	0	63,300	1,400,000	1,920	1,460	3,850,000
2010	115,000	1,140,000	273,000	83,500	0	64,800	1,450,000	2,400	1,790	4,150,000
2011	118,000	1,130,000	316,000	47,200	0	48,300	1,540,000	2,690	1,950	4,730,000
2012 NA Not av	111,000	1,110,000	351,000	53,400	0	72,100	1,500,000	2,510	1,780	5,170,000

NA Not available.

¹Compiled by C.A. DiFrancesco, G.R. Smith, P.N. Gabby, and D.E. Guberman. Data are calculated, estimated, or reported. See notes for more information.

Lead Worksheet Notes

Data Sources

The sources of data for the lead 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); Mineral Commodity Summaries (MCS); and the Statistical Compendium (SC). The years of publication and corresponding years of data coverage are listed in the References section below.

Primary Production

Primary U.S. lead production data report the amount of refined lead. Data were from the MYB and MR for 1900–73 and the MCS for 1974 to the most recent year. Antimonial lead was included when available as well as desilverized lead and soft lead for 1900–05.

Secondary Production

U.S. secondary production was equated to old lead scrap (scrap including—but not limited to—metal articles that have been discarded after serving a useful purpose such as auto batteries.). New scrap statistics were not included because they are often included as part of primary smelter statistics. Undifferentiated scrap numbers were used from 1907–38. Data were from the MYB and MR for 1907–73 and the MYB for 1974 to the most recent year. Data were not available for 1900–06.

Imports

Import data report the amounts of refined lead imported into the United States in various shapes and forms. Import data exclude all manufactured lead products. Data were from the MYB and MR for 1900–73 and the MCS for 1974 to the most recent year.

Exports

Export data report the amounts of refined lead exported from the United States in various shapes and forms. Export data exclude all manufactured lead products. Data were from the MYB and MR for 1900–73 and the MYB for 1974 to the most recent year.

Government Shipments

Government shipment data were for shipments from the government stockpile. Negative numbers for government shipments indicate U.S. Government purchases for refined lead. Data for 1943–48, and 1956–59 were from the MYB and MR. Data for 1963–73 were from the SC. Data for 1974–75 and 1993 to the most recent year were from the MCS. Data were not available for 1900–42, 1949–55, 1960–62, and 1976–92.

Stocks

Stocks for 1900–05 include ore and bullion. Stocks for 1956 and before usually include stocks in transit and in process. Beginning in 1956, consumer stocks of scrap were added to secondary smelter stock and scrap, and secondary smelter metal stocks were included with consumer metal stock. Primary lead stocks were withheld for 2000 to the most recent year, but included in consumer and secondary smelter statistics. Data were from the MYB and MR for 1900–73, the MCS for 1974–99, and the MYB for 2000 to the most recent year. Data were not available for 1922, 1929, 1953, 1955, 1969, and 1971.

Apparent Consumption

The apparent consumption of lead in the United States for 1900 to the most recent year was estimated using the formula:

$\label{eq:apparent} \begin{aligned} \text{APPARENT CONSUMPTION} = \text{PRODUCTION} + \text{IMPORTS} - \text{EXPORTS} \pm \text{CHANGES IN STOCKS} \pm \\ \text{GOVERNMENT SHIPMENTS}. \end{aligned}$

Unit Value (\$/t)

Unit value is the value in dollars of 1 metric ton (t) of lead apparent consumption. Lead unit value (\$/t) was estimated in actual dollars from prices for domestic refined lead from the MYB and MR for 1900–73 and the MCS for 1974 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 contained lead in world smelter production for 1900–54 and for world mine production for 1955–98. Data were from the MYB and MR for 1900–73 and the MCS for 1974 to the most recent year. World production data were for contained lead in world smelter production originating from ores and may include secondary lead when inseparable. Data were not available for the years 1901–05, 1914–18, 1926, 1937, and 1940–44.

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