

GEMSTONES STATISTICS¹
U.S. GEOLOGICAL SURVEY

[All values in metric tons (t) gemstones unless otherwise noted]

Last modification: November 30, 2007

Year	Production value (\$)	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1900	231,000						
1901	289,000						
1902	328,000						
1903	308,000						
1904	324,000						
1905	326,000						
1906	208,000						
1907	471,000						
1908	415,000						
1909	534,000						
1910	296,000						
1911	344,000						
1912	320,000						
1913	319,000						
1914	125,000						
1915	170,000						
1916	218,000						
1917	131,000						
1918	107,000						
1919	112,000	0.163		0.163	519,000,000	4,890,000,000	
1920	265,000	0.0850		0.0850	658,000,000	5,360,000,000	
1921	518,000	0.0583		0.0583	490,000,000	4,460,000,000	
1922					0	0	
1923					0	0	
1924					0	0	
1925					0	0	
1926					0	0	
1927					0	0	
1928					0	0	
1929		0.158		0.158	433,000,000	4,130,000,000	
1930		0.106		0.106	344,000,000	3,360,000,000	
1931		0.0924		0.0924	221,000,000	2,370,000,000	
1932		0.0479		0.0479	240,000,000	2,860,000,000	
1933		0.0421		0.0421	274,000,000	3,430,000,000	
1934		0.0505		0.0505	278,000,000	3,380,000,000	
1935	5,000	0.0821		0.0821	266,000,000	3,170,000,000	
1936	12,500	0.109		0.109	295,000,000	3,460,000,000	
1937	32,000	0.123		0.123	341,000,000	3,860,000,000	
1938	127,000	0.0845		0.0845	312,000,000	3,610,000,000	
1939	353,000	0.139		0.139	276,000,000	3,240,000,000	
1940	545,000	0.116		0.116	325,000,000	3,780,000,000	
1941	505,000	0.0954		0.0954	354,000,000	3,920,000,000	
1942	150,000	0.0864		0.0864	329,000,000	3,290,000,000	
1943	67,000	0.190		0.190	379,000,000	3,570,000,000	
1944	41,000	0.221		0.221	350,000,000	3,240,000,000	0.471
1945	40,000	0.276		0.276	414,000,000	3,750,000,000	0.513
1946	325,000	0.441		0.441	428,000,000	3,580,000,000	0.557
1947	570,000	0.271		0.271	405,000,000	2,960,000,000	0.508
1948	450,000	0.263		0.263	440,000,000	2,970,000,000	0.449
1949	450,000	0.213		0.213	394,000,000	2,700,000,000	
1950	450,000	0.238		0.238	497,000,000	3,360,000,000	
1951	450,000	0.232		0.232	555,000,000	3,480,000,000	

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1952	450,000	0.234		0.234	518,000,000	3,190,000,000	
1953	550,000	0.243		0.243	535,000,000	3,270,000,000	
1954	650,000	0.301		0.301	477,000,000	2,890,000,000	
1955	800,000	0.364		0.364	482,000,000	2,930,000,000	0.800
1956	925,000	0.384		0.384	489,000,000	2,930,000,000	0.972
1957	900,000	0.329		0.329	513,000,000	2,980,000,000	0.652
1958	1,000,000	0.377		0.377	440,000,000	2,480,000,000	1.19
1959	1,190,000	0.517		0.517	411,000,000	2,300,000,000	1.18
1960	1,190,000	0.450		0.450	428,000,000	2,360,000,000	1.34
1961	1,310,000	0.801		0.801	278,000,000	1,520,000,000	1.40
1962	1,300,000	0.755		0.755	297,000,000	1,600,000,000	1.27
1963	1,400,000	0.813		0.813	315,000,000	1,680,000,000	1.28
1964	1,500,000	0.809		0.809	369,000,000	1,940,000,000	1.55
1965	2,200,000	1.18		1.18	308,000,000	1,590,000,000	1.55
1966	2,400,000	1.28		1.28	333,000,000	1,680,000,000	1.78
1967	2,400,000	1.45		1.45	303,000,000	1,480,000,000	1.87
1968	2,500,000	1.96		1.96	274,000,000	1,280,000,000	2.13
1969	2,400,000	1.98		1.98	286,000,000	1,270,000,000	2.61
1970	2,400,000	2.39	0.330	2.39	203,000,000	853,000,000	2.66
1971	2,600,000	3.21	0.315	3.21	164,000,000	660,000,000	2.49
1972	2,700,000	4.61	0.360	4.61	155,000,000	605,000,000	2.54
1973	2,700,000	4.46	0.345	4.46	210,000,000	771,000,000	2.49
1974	4,600,000	2.94	0.292	2.94	299,000,000	988,000,000	2.34
1975	8,700,000	3.81	0.289	3.81	222,000,000	673,000,000	2.05
1976	8,900,000	5.08	0.302	5.08	231,000,000	662,000,000	1.86
1977	8,900,000	4.75	0.311	4.75	344,000,000	925,000,000	1.86
1978	8,900,000	5.04	0.320	5.04	440,000,000	1,100,000,000	1.89
1979	8,200,000	5.39	0.239	5.39	402,000,000	903,000,000	2.05
1980	6,900,000	5.12	0.265	5.12	533,000,000	1,050,000,000	2.09
1981	7,600,000	7.11	0.643	7.11	389,000,000	698,000,000	2.03
1982	7,200,000	7.60	0.537	7.60	313,000,000	529,000,000	2.05
1983	7,400,000	10.3	0.498	10.3	277,000,000	453,000,000	4.61
1984	7,500,000	14.7	0.455	14.7	248,000,000	389,000,000	5.22
1985	7,400,000	14.1	0.476	14.1	261,000,000	395,000,000	5.25
1986	9,300,000	16.7	0.505	16.7	250,000,000	372,000,000	8.41
1987	21,400,000	19.8	0.506	19.8	206,000,000	296,000,000	8.20
1988	42,500,000	19.9	0.427	19.9	254,000,000	350,000,000	9.84
1989	42,900,000	23.9	0.210	23.9	214,000,000	281,000,000	10.10
1990	52,900,000	26.1	0.243	26.1	176,000,000	220,000,000	10.50
1991	84,400,000	101	0.742	101	45,800,000	54,800,000	10.20
1992	66,200,000	129	0.385	129	37,500,000	43,600,000	11.40
1993	57,700,000	150	0.326	150	38,500,000	43,400,000	9.48
1994	50,500,000	236	0.324	236	27,200,000	29,900,000	10.60
1995	48,700,000	322	0.466	322	20,700,000	22,100,000	11.10
1996	43,300,000	364	0.418	364	19,900,000	20,700,000	11.00
1997	25,000,000	289	0.590	289	29,000,000	29,500,000	11.40
1998	14,300,000	238	0.682	238	38,800,000	38,800,000	12.10
1999	16,100,000	331	1.09	331	32,400,000	31,700,000	12.10
2000	17,200,000	291	3.26	291	44,400,000	42,000,000	13.40
2001	14,900,000	280	1.80	280	40,400,000	37,200,000	14.60
2002	12,600,000	221	2.86	221	58,100,000	52,600,000	15.30
2003	12,500,000	325	3.30	325	41,100,000	36,400,000	17.60

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2004	14,500,000	284	4.52	284	53,300,000	46,000,000	17.20
2005	13,400,000	374	5.15	374	44,800,000	37,400,000	18.40
2006	11,300,000	500	6.52	500	35,600,000	28,800,000	18.30

¹Compiled by C.A. DiFrancesco (retired) and D.W. Olson.

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

Gemstones Worksheet Notes

Data Sources

Sources of data for the gemstones 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). 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 Value

Data are the value of U.S. gemstones production. Data for the years 1922–34 are not available. Data are from the MR and the MYB.

Imports

Import data for the years 1919–21 are rough or uncut and cut but unset natural diamonds. Import data for the years 1929–2006 represent the summed gross weights of rough or uncut and cut but unset natural diamonds, emeralds, sapphires, rubies; natural, cultured and imitation pearls; and various other natural, synthetic and imitation gemstones; imported into the United States for consumption. Data are not included for agate, corals, jade, and marcasites. Import data are not available for the years 1922–28. Data are from the MR and the MYB.

Exports

Export data are not available prior to 1970. Data for the years 1970–2006 represent the summed weights of all natural diamond materials that were exported or re-exported from the United States. Data are from the MYB.

Apparent Consumption

Gemstones apparent consumption data are not reported and could not be accurately calculated because only value data are given for production. Import data were used to estimate U.S. gemstones apparent consumption.

Unit Value (\$/t)

Unit value is defined as the value of 1 metric ton (t) of gemstones apparent consumption in current dollars. Because there are no apparent consumption data, unit value was estimated using imports unit value data for the years 1919–21 and 1929–2006, and rounded to two significant figures. Unit value data for the years 1922–28 were estimated by interpolation of imports value data, and rounded to two significant figures. Fluctuations in the unit value series, such as for the years 1920–21, 1929–30, 1949–50, 1969–70, and 1990–91, may not indicate changes in value, but may reflect variations in type, quantity, and quality of the gemstones imported. Data are from the MR and the MYB.

Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, was 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 prior to 1944 and for the years 1949–54 are reported in total gemstone-quality diamonds, plus industrial diamonds. World production data for the years 1944–48 and 1955–2006 represent the total quantity of natural gemstones quality diamonds. Data are from the MR and the MYB.

References

- U.S. Bureau of Mines, 1927–33, Mineral Resources of the United States, 1924–31.
- U.S. Bureau of Mines, 1933–96, Minerals Yearbook, 1932–94.
- U.S. Geological Survey, 1901–26, Mineral Resources of the United States, 1900–23.
- U.S. Geological Survey, 1997–2007, Minerals Yearbook, v. I, 1995–2006.

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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:

[USGS Gemstones Commodity Specialist](#)