

GEMSTONES STATISTICS
By David A. Buckingham and Donald W. Olson
[All values in metric tons (t) unless otherwise noted]
Last modification: August 21, 2003

Year	Production value (\$)	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1900	231,170						
1901	289,050						
1902	328,450						
1903	307,900						
1904	324,300						
1905	326,350						
1906	208,000						
1907	471,300						
1908	415,063						
1909	534,280						
1910	295,767						
1911	343,692						
1912	319,722						
1913	319,454						
1914	124,651						
1915	170,431						
1916	217,793						
1917	131,012						
1918	106,523						
1919	111,763	0.163		0.163	520,000,000	4,900,000,000	
1920	265,205	0.0850		0.0850	660,000,000	5,400,000,000	
1921	518,280	0.0583		0.0583	490,000,000	4,500,000,000	
1922					480,000,000	4,700,000,000	
1923					480,000,000	4,600,000,000	
1924					470,000,000	4,500,000,000	
1925					460,000,000	4,300,000,000	
1926					450,000,000	4,100,000,000	
1927					450,000,000	4,200,000,000	
1928					440,000,000	4,200,000,000	
1929		0.158		0.158	430,000,000	4,100,000,000	
1930		0.106		0.106	340,000,000	3,300,000,000	
1931		0.0924		0.0924	220,000,000	2,400,000,000	
1932		0.0479		0.0479	240,000,000	2,900,000,000	
1933		0.0421		0.0421	270,000,000	3,400,000,000	
1934		0.0505		0.0505	280,000,000	3,400,000,000	
1935	5,000	0.0821		0.0821	270,000,000	3,200,000,000	
1936	12,500	0.109		0.109	300,000,000	3,500,000,000	
1937	32,000	0.123		0.123	340,000,000	3,900,000,000	
1938	127,000	0.0845		0.0845	310,000,000	3,600,000,000	
1939	352,500	0.139		0.139	280,000,000	3,300,000,000	
1940	545,000	0.116		0.116	330,000,000	3,800,000,000	
1941	505,000	0.0954		0.0954	350,000,000	3,900,000,000	
1942	150,000	0.0864		0.0864	330,000,000	3,300,000,000	
1943	67,000	0.190		0.190	380,000,000	3,600,000,000	
1944	41,000	0.221		0.221	350,000,000	3,200,000,000	0.471
1945	40,000	0.276		0.276	410,000,000	3,700,000,000	0.513
1946	325,000	0.441		0.441	430,000,000	3,600,000,000	0.557
1947	570,000	0.271		0.271	410,000,000	3,000,000,000	0.508
1948	450,000	0.263		0.263	440,000,000	3,000,000,000	0.449
1949	450,000	0.213		0.213	390,000,000	2,700,000,000	
1950	450,000	0.238		0.238	500,000,000	3,400,000,000	
1951	450,000	0.232		0.232	560,000,000	3,500,000,000	

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1952	450,000	0.234		0.234	520,000,000	3,200,000,000	
1953	550,000	0.243		0.243	540,000,000	3,300,000,000	
1954	650,000	0.301		0.301	480,000,000	2,900,000,000	
1955	800,000	0.364		0.364	480,000,000	2,900,000,000	0.800
1956	925,000	0.384		0.384	490,000,000	2,900,000,000	0.972
1957	900,000	0.329		0.329	510,000,000	3,000,000,000	0.652
1958	1,000,000	0.377		0.377	440,000,000	2,500,000,000	1.19
1959	1,185,000	0.517		0.517	410,000,000	2,300,000,000	1.18
1960	1,188,000	0.450		0.450	430,000,000	2,400,000,000	1.34
1961	1,309,000	0.801		0.801	280,000,000	1,500,000,000	1.40
1962	1,296,000	0.755		0.755	300,000,000	1,600,000,000	1.27
1963	1,400,000	0.813		0.813	320,000,000	1,700,000,000	1.28
1964	1,500,000	0.809		0.809	370,000,000	1,900,000,000	1.55
1965	2,200,000	1.18		1.18	310,000,000	1,600,000,000	1.55
1966	2,400,000	1.28		1.28	330,000,000	1,700,000,000	1.78
1967	2,400,000	1.45		1.45	300,000,000	1,500,000,000	1.87
1968	2,500,000	1.96		1.96	270,000,000	1,300,000,000	2.13
1969	2,400,000	1.98		1.98	290,000,000	1,300,000,000	2.61
1970	2,400,000	2.39	0.330	2.39	200,000,000	840,000,000	2.66
1971	2,600,000	3.21	0.315	3.21	160,000,000	640,000,000	2.49
1972	2,700,000	4.61	0.360	4.61	160,000,000	620,000,000	2.54
1973	2,700,000	4.46	0.345	4.46	210,000,000	770,000,000	2.49
1974	4,600,000	2.94	0.292	2.94	300,000,000	990,000,000	2.34
1975	8,700,000	3.81	0.289	3.81	220,000,000	670,000,000	2.05
1976	8,900,000	5.08	0.302	5.08	230,000,000	660,000,000	1.86
1977	8,900,000	4.75	0.311	4.75	340,000,000	910,000,000	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	400,000,000	900,000,000	2.05
1980	6,900,000	5.12	0.265	5.12	530,000,000	1,000,000,000	2.09
1981	7,600,000	7.11	0.643	7.11	390,000,000	700,000,000	2.03
1982	7,200,000	7.60	0.537	7.60	310,000,000	520,000,000	2.05
1983	7,400,000	10.3	0.498	10.3	280,000,000	460,000,000	4.61
1984	7,500,000	14.7	0.455	14.7	250,000,000	390,000,000	5.22
1985	7,400,000	14.1	0.476	14.1	260,000,000	390,000,000	5.25
1986	9,300,000	16.7	0.505	16.7	250,000,000	370,000,000	8.41
1987	21,400,000	19.8	0.506	19.8	210,000,000	300,000,000	8.20
1988	42,500,000	19.9	0.427	19.9	250,000,000	340,000,000	9.84
1989	42,900,000	23.9	0.210	23.9	210,000,000	280,000,000	10.1
1990	52,900,000	26.1	0.243	26.1	180,000,000	220,000,000	10.5
1991	84,400,000	101	0.742	101	46,000,000	55,000,000	10.2
1992	66,200,000	129	0.385	129	38,000,000	44,000,000	11.4
1993	57,700,000	150	0.326	150	39,000,000	44,000,000	9.48
1994	50,500,000	236	0.324	236	27,000,000	30,000,000	10.6
1995	48,700,000	322	0.466	322	21,000,000	22,000,000	11.1
1996	43,300,000	364	0.418	364	20,000,000	21,000,000	11.0
1997	25,000,000	289	0.590	289	29,000,000	29,000,000	11.5
1998	14,300,000	238	0.682	238	39,000,000	39,000,000	12.2
1999	16,100,000	331	1.09	331	32,000,000	31,000,000	11.8
2000	17,200,000	291	3.25	291	44,000,000	42,000,000	12.5

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 1929–2000 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 1970–2000 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 1929–2000, 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 gemstones quality diamonds, plus industrial diamonds. World production data for the years 1944–48 and 1955–2000 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, 1997–2002, Minerals Yearbook, v. I, 1995–2000.

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