INDUSTRIAL DIAMOND STATISTICS[1]
U.S. GEOLOGICAL SURVEY
[All values in metric tons (t) gross weight unless otherwise noted]
Last modification: November 14, 2012

Year	Primary production	Secondary production	Imports	Exports	Government shipments	Stocks	Apparent consumption	Unit value ($/t)	Unit value (98$/t)	World production
1900	0	NA	NA	NA	NA	NA	0.022	28,400,000	557,000,000	NA
1901	0	NA	NA	NA	NA	NA	0.031	26,800,000	525,000,000	NA
1902	0	NA	NA	NA	NA	NA	0.030	27,000,000	509,000,000	NA
1903	0	NA	NA	NA	NA	NA	0.027	27,500,000	500,000,000	NA
1904	0	NA	NA	NA	NA	NA	0.018	29,300,000	533,000,000	NA
1905	0	NA	NA	NA	NA	NA	0.0056	35,000,000	637,000,000	NA
1906	0	NA	NA	NA	NA	NA	0.0077	33,400,000	607,000,000	NA
1907	0	NA	NA	NA	NA	NA	0.022	28,400,000	498,000,000	NA
1908	0	NA	NA	NA	NA	NA	0.031	26,800,000	487,000,000	NA
1909	0	NA	NA	NA	NA	NA	0.030	27,000,000	490,000,000	NA
1910	0	NA	NA	NA	NA	NA	0.0081	33,100,000	580,000,000	NA
1911	0	NA	NA	NA	NA	NA	0.0096	32,200,000	565,000,000	NA
1912	0	NA	NA	NA	NA	NA	0.019	29,000,000	491,000,000	NA
1913	0	NA	NA	NA	NA	NA	0.020	28,800,000	474,000,000	NA
1914	0	NA	NA	NA	NA	NA	0.023	28,100,000	458,000,000	NA
1915	0	NA	NA	NA	NA	NA	0.015	30,100,000	486,000,000	NA
1916	0	NA	NA	NA	NA	NA	0.034	26,400,000	395,000,000	NA
1917	0	NA	NA	NA	NA	NA	0.060	24,200,000	308,000,000	NA
1918	0	NA	NA	NA	NA	NA	0.048	25,100,000	271,000,000	NA
1919	0	NA	NA	NA	NA	NA	0.11	22,100,000	208,000,000	NA
1920	0	NA	NA	NA	NA	NA	0.16	20,700,000	168,000,000	NA
1921	0	NA	NA	NA	NA	NA	0.016	29,900,000	272,000,000	NA
1922	0	NA	NA	NA	NA	NA	0.040	25,800,000	250,000,000	NA
1923	0	NA	NA	NA	NA	NA	0.0067	34,000,000	324,000,000	NA
1924	0	NA	0.0268	NA	NA	NA	0.027	51,400,000	490,000,000	NA
1925	0	NA	0.0789	NA	NA	NA	0.079	34,700,000	324,000,000	NA
1926	0	NA	0.00354	NA	NA	NA	0.0035	58,800,000	539,000,000	NA
1927	0	NA	0.00725	NA	NA	NA	0.0073	305,000,000	2,850,000,000	NA
1928	0	NA	0.00787	NA	NA	NA	0.0079	354,000,000	3,380,000,000	NA
1929	0	NA	0.0103	NA	NA	NA	0.010	403,000,000	3,840,000,000	NA
1930	0	NA	0.0302	NA	NA	NA	0.030	94,300,000	925,000,000	NA
1931	0	NA	0.0452	NA	NA	NA	0.045	53,600,000	573,000,000	NA
1932	0	NA	0.0329	NA	NA	NA	0.033	32,600,000	389,000,000	NA
1933	0	NA	0.0533	NA	NA	NA	0.053	24,600,000	309,000,000	NA
1934	0	NA	0.106	NA	NA	NA	0.11	27,800,000	338,000,000	NA
1935	0	NA	0.192	NA	NA	NA	0.19	22,900,000	272,000,000	NA
1936	0	NA	0.234	NA	NA	NA	0.23	18,800,000	222,000,000	NA
1937	0	NA	0.378	NA	NA	NA	0.38	17,900,000	203,000,000	NA
1938	0	NA	0.279	NA	NA	NA	0.28	15,400,000	178,000,000	2.20
1939	0	NA	0.714	NA	NA	NA	0.71	13,700,000	161,000,000	2.20
1940	0	NA	0.762	NA	NA	NA	0.76	14,500,000	169,000,000	2.85
1941	0	NA	1.38	NA	NA	NA	1.4	10,800,000	120,000,000	1.87
1942	0	NA	2.24	0.00909	NA	NA	2.2	9,850,000	98,600,000	1.94
1943	0	NA	2.44	0.0233	NA	NA	2.4	9,030,000	85,200,000	2.01
1944	0	NA	2.53	0.0239	NA	NA	2.5	9,070,000	84,000,000	2.09
1945	0	NA	2.16	0.0184	NA	NA	2.1	5,970,000	54,300,000	2.16
1946	0	NA	0.941	0.0233	NA	NA	0.92	15,400,000	128,000,000	2.23
1947	0	NA	0.823	0.0246	NA	NA	0.80	16,600,000	121,000,000	2.30
1948	0	NA	2.13	0.0105	NA	NA	2.1	15,600,000	106,000,000	2.38
1949	0	NA	1.28	0.0111	NA	NA	1.3	13,900,000	95,100,000	2.45
1950	0	NA	2.24	0.0117	NA	NA	2.2	16,600,000	112,000,000	2.52
1951	0	NA	2.46	0.0121	NA	NA	2.5	19,200,000	121,000,000	2.82
1952	0	NA	2.74	0.0352	NA	NA	2.7	19,100,000	117,000,000	3.16
1953	0	NA	2.71	0.0353	NA	NA	2.7	18,200,000	111,000,000	3.28
1954	0	NA	2.80	0.287	NA	NA	2.5	17,400,000	105,000,000	3.36
1955	0	0.200	3.02	0.322	NA	NA	2.9	21,900,000	134,000,000	3.50
1956	0	0.200	3.28	0.333	NA	NA	3.2	22,600,000	136,000,000	3.66
1957	0	0.200	2.52	0.356	NA	NA	2.4	20,400,000	118,000,000	4.16

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1958	0.260	0.200	2.01	0.470	NA	NA	2.0	19,500,000	110,000,000	4.48
1959	0.300	0.200	2.62	0.549	NA	NA	2.6	24,000,000	134,000,000	4.18
1960	0.400	0.200	2.63	0.565	NA	NA	2.7	19,700,000	108,000,000	4.20
1961	0.500	0.360	2.84	0.782	NA	0.0117	2.9	24,100,000	131,000,000	5.44
1962	0.800	0.400	2.46	0.779	NA	NA	2.9	20,800,000	112,000,000	5.53
1963	1.00	0.400	2.40	0.986	NA	NA	2.8	21,100,000	112,000,000	6.05
1964	1.00	0.400	2.86	1.43	NA	NA	2.8	21,000,000	111,000,000	6.02
1965	1.10	0.400	2.60	1.19	NA	NA	2.9	21,400,000	110,000,000	5.86
1966	1.20	0.400	3.71	1.20	NA	NA	4.1	18,600,000	93,500,000	6.21
1967	1.60	0.500	3.42	1.52	NA	NA	4.0	18,600,000	90,600,000	6.25
1968	2.20	0.600	2.74	2.09	NA	NA	3.4	22,000,000	103,000,000	5.18
1969	2.60	0.600	2.82	2.48	0	NA	3.5	18,800,000	83,400,000	5.42
1970	2.60	0.600	2.67	2.57	0	NA	3.3	18,300,000	77,000,000	5.84
1971	2.60	0.600	2.58	2.36	0.300	13.5	3.4	17,800,000	71,800,000	5.78
1972	3.00	0.600	3.03	2.77	0.940	13.0	4.35	17,400,000	67,700,000	6.25
1973	3.40	0.400	3.83	3.14	0.660	12.3	5.25	17,100,000	62,900,000	6.12
1974	3.80	0.400	3.68	3.92	0.880	11.4	4.85	17,100,000	56,500,000	6.57
1975	3.80	0.400	2.86	3.54	0.680	10.7	4.20	18,700,000	56,600,000	6.12
1976	5.06	0.540	3.41	3.74	0.420	10.2	5.79	17,900,000	51,300,000	5.92
1977	6.16	0.540	4.53	4.48	0.520	9.68	7.27	17,500,000	47,000,000	6.08
1978	5.74	0.600	4.44	4.63	0.520	NA	6.6	19,800,000	49,400,000	6.03
1979	8.40	0.600	9.91	11.8	0.420	8.80	7.6	21,500,000	48,400,000	5.84
1980	10.0	0.600	4.37	6.57	0.300	8.58	8.62	25,300,000	50,100,000	6.51
1981	11.4	0.460	4.08	6.29	0.300	8.28	9.95	27,100,000	48,500,000	5.92
1982	10.6	0.360	3.83	6.61	0.540	7.74	8.72	22,400,000	37,900,000	6.04
1983	13.8	0.360	4.98	9.19	0.240	7.50	10.2	17,800,000	29,100,000	6.47
1984	15.2	0.440	8.74	10.4	0.300	7.20	14.3	13,000,000	20,400,000	7.47
1985	15.2	0.300	9.24	11.1	0.300	6.90	14.0	13,800,000	20,900,000	7.96
1986	16.0	0.924	9.20	11.0	0.400	6.52	15.1	12,000,000	17,900,000	10.7
1987	W	0.660	9.78	12.0	0.400	6.10	14.4	9,770,000	14,000,000	10.1
1988	W	1.44	14.2	15.6	0.360	5.96	17.2	9,160,000	12,600,000	59.3
1989	18.0	0.720	14.1	16.2	0.000	5.96	15.8	7,480,000	9,840,000	76.1
1990	18.0	1.28	19.3	14.6	0.600	5.36	17.2	7,130,000	8,900,000	77.5
1991	18.0	0.760	15.5	16.4	1.00	4.36	17.2	6,990,000	8,360,000	95.6
1992	19.0	0.700	21.4	17.8	2.08	2.34	19.8	5,250,000	6,100,000	93.4
1993	21.0	3.22	27.6	22.0	0.260	2.09	29.8	4,230,000	4,770,000	100
1994	20.8	3.22	35.4	31.5	1.02	1.61	30.8	3,270,000	3,600,000	98.9
1995	23.0	5.26	38.3	21.3	0.100	1.42	40.0	2,840,000	3,030,000	100
1996	22.8	4.08	44.3	22.2	0.300	1.09	44.8	2,720,000	2,830,000	101
1997	25.0	2.10	51.4	26.5	0.380	0.690	56.8	2,540,000	2,580,000	103
1998	28.0	2.10	45.1	22.6	0.160	0.632	54.0	2,550,000	2,550,000	106
1999	41.6	2.02	42.3	21.0	0.120	0.499	66.0	2,520,000	2,470,000	96.2
2000	49.6	2.02	58.7	20.7	0.100	0.400	89.5	2,130,000	2,020,000	96.9
2001	40.0	2.00	56.8	19.5	0.082	0.318	79.2	1,650,000	1,520,000	113
2002	44.0	1.14	37.4	18.4	0.080	0.240	64.5	1,990,000	1,800,000	119
2003	47.2	0.98	50.3	16.8	0.060	0.180	81.6	1,400,000	1,240,000	117
2004	50.4	1.00	48.4	20.0	0.076	0.104	79.7	1,550,000	1,340,000	901
2005	25.2	1.03	57.2	18.5	0.000	0.104	64.9	1,870,000	1,560,000	861
2006	25.6	6.95	74.7	18.1	0.001	0.103	89.2	1,440,000	1,160,000	880
2007	26.0	6.95	82.9	21.4	0.008	0.095	94.4	1,350,000	1,060,000	900
2008	26.3	6.85	99.0	23.2	0.095	0	109	1,180,000	893,000	897
2009	18.2	6.78	49.5	13.4	0	0	61.1	1,210,000	919,000	886
2010	18.6	6.76	119	22.5	0	0	122	974,000	728,000	887
2011	19.6	7.00	146	29.7	0	0	143	1,020,000	739,000	888

NA Not available. W Withheld to avoid disclosing company proprietary data.

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

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

Industrial Diamond Worksheet Notes

Data Sources
Sources of data for the industrial diamond 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 Mineral Commodity Summaries (MCS) and its predecessor, Commodity Data Summaries (CDS); and the U.S. Bureau of Mines Mineral Facts and Problems (MFP). The years of publication and corresponding years of data coverage are listed in the References section below.

Primary Production
Primary production data for 1900–57, 1962–65, 1967–85, and 1995 to the most recent year were from the MYB. Primary production data for 1958–61 and 1966 were from the CDS. Primary production data for 1986–94 were withheld in order to avoid disclosing proprietary data. Primary production data for 1958 to the most recent year represent the total quantity of synthetic industrial diamonds that were produced domestically.

Secondary Production
Secondary production data for 1900–54 were not available. Secondary production for 1955–66 were from the CDS. Secondary production for 1967–94 and 1996 to the most recent year were from the MYB. Secondary production datum for 1995 was withheld in order to avoid disclosing proprietary datum. Secondary production data for 1955 to the most recent year represent the total quantity of industrial diamonds that were salvaged or recycled from industrial diamond tools and wet and dry diamond wastes.

Imports
Import data for 1924 to the most recent year were from the MR and the MYB, and represent the total quantity of natural and synthetic industrial diamond materials that were imported into the United States for consumption purposes. Import data for 1900–23 were not available.

Exports
Export data for 1942 to the most recent year were from the MYB. Export data for 1942 to the most recent year represent the total quantity of natural and synthetic industrial diamond materials that were exported from the United States to foreign recipients. Export data for 1900–41 were not available.

Government Shipments
Shipment data for 1969–77 were from the MFP. Shipment data for 1978 to the most recent year were from the MCS. Shipment data for 1969 to the most recent year represent the total quantity of natural and synthetic industrial diamond stones, grit, and powder that were shipped from government stockpiles to domestic recipients. Shipment data for 1900–68 were not available.

Stocks
Stock data for 1961, 1971–77, and 1979 to the most recent year were from the MYB. Stock data for 1961, 1971–77, and 1979 to the most recent year represent the total quantity of industrial diamond stones and bort that were held within Government stockpiles annually. Stock data for 1900–60, 1962–70, and 1978 were not available.

Apparent Consumption
Apparent consumption figures were developed based on the following considerations:

- Apparent consumption figures were limited to two significant figures based on broad assumptions that had to be made throughout the period covered for 1900–71 and 1978–79. Exports for 1924–41 were assumed to be zero due to the low values for most of the earlier values in these series.
- Apparent consumption for 1900–23 was calculated by using imports that were estimated by regression analysis.
- Apparent consumption was estimated for 1924–85 by using the formula:

APPARENT CONSUMPTION = PRIMARY PRODUCTION + SECONDARY PRODUCTION + IMPORTS - EXPORTS ± GOVERNMENT SHIPMENTS ± STOCK CHANGES.

- No secondary production, export, stock, or government shipment data were available for 1924–41 and were assumed to be zero.
- No secondary production, stock, or government shipment data were available for 1942–54 and were assumed to be zero.
- No government shipment or stock data were available for 1955–60 and 1962–68 and were assumed to be zero.
- No government shipment and insufficient stock data were available for 1961 and were assumed to be zero.
- No stock data were available for 1969–71 and 1978–79 and were assumed to be zero when apparent consumption was calculated.
- Domestic consumption data from the MYB were used as an estimate for apparent consumption for 1986 to the most recent year.

Unit Value ($/t)
Unit value is the value in dollars of 1 metric ton (t) of natural and synthetic diamond apparent consumption. Unit value data for 1900 to the most recent year were estimated as being equal to the total value of imports divided by the total import quantity. Unit values rose steeply from 1926 to 1927–29 because of the added demand for glaziers' and engravers', unset, and miners' diamond and decreased in 1930 when demand subsided. Unit value decreased, especially during the late 1980s to 2004, because of an increasing amount of synthetic diamonds being produced.

Unit Value (98$/t)
Unit value is estimated in terms of constant 1998 dollars by dividing the Consumer Price Index conversion factors, with 1998 as the base year, into the actual unit value data.

World Production
World production data for 1938 to the most recent year were from the MYB. World production data for 1938–87 represent the total quantity of natural industrial diamonds that were produced annually throughout the world. World production data for 1988–2000 represent the total quantity of natural and synthetic industrial diamonds that were produced annually throughout the world. World production data for 1900–37 were not available. Production data for the United States were not included in world production for 1986–94. There is a large increase in the world production quantity between 2003 and 2004 because Chinese synthetic production data has been corrected from 2004 to present using data provided by industry sources.

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