

**INDUSTRIAL GARNET STATISTICS<sup>1</sup>**

**U.S. GEOLOGICAL SURVEY**

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

Last modification: October 4, 2012

Year	Production	Sold or used	Imports	Exports	Stocks	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1900	2,890	NA	NA	NA	NA	2,900	42.70	840	NA
1901	4,030	NA	NA	NA	NA	4,000	39.20	770	NA
1902	3,560	NA	NA	NA	NA	3,600	37.30	700	NA
1903	3,580	NA	NA	NA	NA	3,600	37.00	670	NA
1904	3,500	NA	NA	NA	NA	3,500	33.60	610	NA
1905	4,580	NA	NA	NA	NA	4,600	32.30	590	NA
1906	4,220	NA	NA	NA	NA	4,200	37.20	680	NA
1907	6,400	NA	NA	NA	NA	6,400	33.10	580	NA
1908	1,810	NA	NA	NA	NA	1,800	35.70	650	NA
1909	2,700	NA	NA	NA	NA	2,700	38.00	690	NA
1910	3,460	NA	NA	NA	NA	3,500	32.80	580	NA
1911	3,700	NA	NA	NA	NA	3,700	32.90	580	NA
1912	4,490	NA	NA	NA	NA	4,500	36.40	620	NA
1913	4,820	NA	NA	NA	NA	4,800	38.10	628	4,820
1914	3,840	NA	NA	NA	NA	3,800	37.90	618	3,840
1915	3,900	NA	NA	NA	NA	3,900	35.80	577	3,900
1916	5,600	NA	NA	NA	NA	5,600	37.30	558	5,600
1917	4,530	NA	NA	NA	NA	4,500	43.80	558	4,530
1918	4,260	NA	NA	NA	NA	4,300	58.30	629	4,260
1919	4,490	NA	NA	NA	NA	4,500	69.20	652	5,290
1920	4,970	NA	NA	NA	NA	5,000	87.40	713	5,170
1921	2,770	NA	NA	NA	NA	2,800	94.30	859	2,770
1922	6,400	NA	NA	NA	NA	6,400	88.60	859	9,800
1923	8,170	NA	NA	NA	NA	8,200	84.30	803	13,900
1924	NA	7,520	1,020	NA	NA	8,500	89.60	855	12,500
1925	NA	7,650	1.81	NA	NA	7,600	93.20	868	11,400
1926	NA	5,800	0	NA	NA	5,800	90.30	831	5,800
1927	NA	5,750	0	NA	NA	5,800	99.70	935	NA
1928	6,000	NA	1.81	NA	NA	6,000	76.50	729	NA
1929	5,410	NA	0	NA	NA	5,400	80.50	767	NA
1930	4,540	NA	0	NA	NA	4,500	69.20	675	NA
1931	2,670	NA	1.81	NA	NA	2,700	72.20	774	NA
1932	1,770	NA	4.54	NA	NA	1,800	83.30	992	NA
1933	2,540	NA	0	NA	NA	2,500	88.70	1,110	NA
1934	2,350	NA	0	NA	NA	2,400	91.40	1,110	NA
1935	NA	2,780	0	NA	NA	2,800	92.40	1,100	NA
1936	3,470	NA	0	NA	NA	3,500	91.20	1,070	NA
1937	NA	4,410	0	NA	NA	4,400	86.70	982	NA
1938	NA	2,420	1.68	NA	NA	2,400	79.20	915	NA
1939	NA	3,680	0	NA	NA	3,700	75.70	887	NA
1940	NA	4,280	0	NA	NA	4,300	60.60	706	NA
1941	NA	4,990	NA	NA	NA	5,000	74.50	826	NA
1942	NA	3,950	NA	NA	NA	4,000	75.90	759	NA
1943	5,380	NA	NA	NA	NA	5,400	79.70	751	NA
1944	W	W	0.181	NA	NA	5,500	72.70	673	NA
1945	5,720	NA	2.77	NA	NA	5,700	65.60	594	NA
1946	7,020	NA	17.6	NA	NA	7,000	81.20	679	NA
1947	7,910	NA	0.573	NA	NA	7,900	77.60	567	NA
1948	7,290	NA	1.41	NA	NA	7,300	80.60	545	NA
1949	5,970	NA	NA	NA	NA	6,000	84.70	580	NA
1950	8,440	NA	2.80	NA	NA	8,400	94.00	636	NA

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1951	12,700	NA	NA	NA	NA	13,000	97.80	613	NA
1952	10,300	NA	1.81	NA	NA	10,000	95.00	584	NA
1953	9,540	NA	NA	NA	NA	9,500	104	633	NA
1954	NA	12,900	NA	NA	NA	13,000	75.50	457	NA
1955	NA	10,700	NA	NA	NA	10,700	111	675	NA
1956	NA	8,900	1.81	NA	NA	8,890	121	722	NA
1957	NA	8,870	1.81	NA	NA	8,890	122	706	NA
1958	NA	11,200	NA	NA	NA	11,200	77.90	439	NA
1959	NA	13,200	1.81	NA	NA	13,200	91.60	513	NA
1960	NA	9,550	NA	NA	NA	9,530	103	569	11,800
1961	NA	10,900	NA	NA	NA	10,900	94.70	516	13,400
1962	NA	12,900	NA	NA	NA	12,900	91.20	492	15,300
1963	NA	13,300	NA	NA	NA	13,300	106	567	15,700
1964	NA	14,600	0	NA	NA	14,600	111	583	17,200
1965	NA	17,500	0	NA	NA	17,500	97.90	507	20,000
1966	NA	19,900	0	NA	NA	19,900	105	528	20,700
1967	NA	18,600	0	NA	NA	18,600	99.50	485	19,600
1968	NA	20,100	0	NA	NA	20,100	95.70	448	20,900
1969	NA	18,600	0	NA	NA	18,600	101	448	21,100
1970	NA	17,100	0	NA	NA	17,100	113	476	19,000
1971	NA	17,200	0	NA	NA	17,200	112	452	18,900
1972	NA	17,200	0	NA	NA	17,200	114	445	20,900
1973	NA	20,700	0	NA	NA	20,700	115	423	24,000
1974	NA	22,400	0	NA	NA	22,400	114	377	26,600
1975	NA	15,600	0	NA	NA	15,600	134	406	19,800
1976	23,300	22,300	0	NA	NA	22,300	160	459	26,500
1977	19,900	18,200	NA	NA	NA	18,200	183	491	21,900
1978	18,900	20,000	NA	3,080	NA	16,900	196	489	24,900
1979	19,300	21,100	NA	3,180	NA	18,000	220	494	29,900
1980	24,400	24,100	0	3,450	5,770	20,600	205	405	30,900
1981	23,200	23,200	0	2,970	5,710	20,200	225	403	32,100
1982	24,800	24,200	0	3,080	6,290	21,100	229	388	32,200
1983	27,000	27,500	0	2,900	5,810	24,600	217	355	36,400
1984	26,900	25,100	0	3,080	7,600	22,000	226	355	39,700
1985	33,300	27,800	0	2,900	13,100	24,900	220	333	49,100
1986	29,300	28,900	363	4,990	12,700	24,300	234	347	45,100
1987	38,400	35,800	2,720	4,990	7,010	33,500	216	310	79,700
1988	42,500	41,900	4,540	7,980	5,440	38,400	266	366	94,800
1989	42,600	41,300	5,000	9,720	5,440	36,600	236	311	92,100
1990	47,000	45,900	5,000	10,000	2,210	44,200	257	321	108,000
1991	50,900	48,100	5,000	10,000	11,100	44,000	270	323	108,000
1992	54,100	46,100	12,100	7,600	8,640	45,700	282	328	106,000
1993	44,000	51,500	12,200	11,400	10,000	44,800	243	274	120,000
1994	44,700	41,100	6,000	10,000	5,000	43,600	260	286	101,000
1995	46,300	39,900	5,000	9,000	5,900	38,000	253	271	133,000
1996	60,900	46,200	8,000	13,000	14,600	34,500	242	252	173,000
1997	64,900	53,600	11,000	11,000	19,900	46,300	233	237	215,000
1998	74,000	51,900	20,000	12,000	39,900	39,900	243	243	300,000
1999	60,700	43,900	12,000	10,000	52,100	33,700	264	259	354,000
2000	60,200	51,300	23,000	10,000	50,100	66,300	273	258	456,000
2001	52,700	46,200	29,600	10,000	NA	72,300	292	269	608,000

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2002	38,500	37,500	27,200	10,400	NA	55,300	296	268	781,000
2003	29,200	33,100	34,800	11,000	NA	53,000	329	292	893,000
2004	28,400	30,400	36,500	10,900	NA	54,000	329	284	1,080,000
2005	40,100	23,100	41,800	13,400	NA	68,600	268	224	1,190,000
2006	34,100	16,800	50,800	13,300	NA	71,600	318	257	1,370,000
2007	61,400	20,700	98,000	12,000	NA	147,000	282	222	1,380,000
2008	62,900	49,800	92,300	12,500	NA	143,000	272	206	1,310,000
2009	45,600	22,100	71,100	13,200	NA	104,000	276	210	1,390,000
2010	52,600	28,900	79,700	11,700	NA	121,000	260	194	1,410,000
2011	56,400	33,700	116,000	14,500	NA	158,000	287	208	1,660,000

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

<sup>1</sup>Compiled by D.A. Buckingham (retired) and D.W. Olson.

## Industrial Garnet Worksheet Notes

### Data Sources

Sources of data for the industrial garnet 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); and the Mineral Commodity Summaries (MCS) and its predecessor, Commodity Data Summaries (CDS). The years of publication and corresponding years of data coverage are listed in the References section below.

### Production

Data are crude industrial garnet production. For 1944, data were withheld in order to avoid disclosing proprietary data. Production data were not available for 1924–27, 1935, 1937–42, and 1954–75. Sold or used data were substituted when production data were not available. Data are reported in the MR and the MYB.

### Sold or Used

Datum for 1944 was withheld in order to avoid disclosing proprietary data. Sold or used data were not available for 1900–23, 1928–34, 1936, 1943, and 1945–53. Data are reported in the MR and the MYB.

### Imports

Import data were first reported in 1924, however value data was reported for imports in some prior years. Import data for 1924–40, 1944–48, 1950, 1952, 1956–57, 1959, and 1988 to the most recent year are from the MR and the MYB. Import data for 1964–87 are from the MCS. Tonnage data were not available for all other years.

### Exports

The United States is generally a net exporter of industrial garnet. Export data were not reported prior to 1977. Export data for 1978–87 are from the MCS. Data for 1988 to the most recent year are reported in the MYB.

### Stocks

Stock data were not available prior to 1980. Stock data for 1980–2000 represent the quantity of industrial garnet held within domestic producer stockpiles. Data are reported in the MCS. Data for 2001 to the most recent year were not available.

### Apparent Consumption

Apparent consumption was estimated using production data for 1900–23, 1941–43, 1949, 1951, and 1953–54, and rounded to two significant figures. Where data for exports and imports were not available, they were assumed to be zero for this calculation. Data for 1924–40, 1945–48, 1950, and 1952 were estimated using the following equation:

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

Production data were withheld, import data are zero, and export data were not available for 1944. Apparent consumption datum for 1944 is estimated with interpolation based on apparent consumption data from 1943 and 1945; the interpolated apparent consumption was estimated to two significant figures. Apparent consumption data for 1955–2000 are reported in the CDS and the MCS. Data for 2001 to the most recent year were estimated using the following equation:

$$\text{APPARENT CONSUMPTION} = (\text{PRODUCTION} + \text{IMPORTS}) - \text{EXPORTS}.$$

### Unit Value (\$/t)

Unit value is defined as the value of 1 metric ton (t) apparent consumption in current dollars. Unit value was based on the production value for 1900–23, 1928–34, 1936, 1943, and 1945–53. Unit value for 1924–27, 1935, 1937–42, and 1954 to the most recent year was based on the sold or used value data. Unit value datum was withheld for 1944 in order to avoid disclosing proprietary data. Unit value datum was estimated for 1944 with interpolation using unit value data for 1943 and 1945.

### 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 for 1900–12 and 1927–59 were not available. World production data for 1913–26 are reported in the MR and the MYB. World production data for 1960 to the most recent year are from the CDS and MCS.

### References

U.S. Bureau of Mines, 1927–33, Mineral Resources of the United States, 1924–31.  
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**Recommended Citation Format:**

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, accessed [date], at <http://pubs.usgs.gov/ds/2005/140/>.

**For more information, please contact:**

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