

**KYANITE AND RELATED MATERIALS STATISTICS<sup>1</sup>**  
**U.S. GEOLOGICAL SURVEY**  
[All values in metric tons (t) gross weight unless otherwise noted]  
Last modification: October 18, 2012

<b>Year</b>	<b>Production</b>	<b>Imports</b>	<b>Exports</b>	<b>Apparent consumption</b>	<b>Unit value (\$/t)</b>	<b>Unit value (98\$/t)</b>	<b>World production</b>
1928	NA	NA	NA	NA	NA	NA	2,300
1929	NA	NA	NA	NA	NA	NA	3,700
1930	NA	NA	NA	NA	NA	NA	8,800
1931	NA	NA	NA	NA	NA	NA	3,500
1932	NA	NA	NA	NA	NA	NA	5,700
1933	NA	NA	NA	NA	NA	NA	4,500
1934	NA	NA	NA	NA	45.70	556	9,700
1935	NA	NA	NA	NA	25.40	302	20,000
1936	NA	NA	NA	NA	33.10	388	25,000
1937	NA	6,960	NA	NA	39.20	443	27,000
1938	NA	3,600	NA	NA	45.23	523	29,000
1939	NA	3,070	NA	NA	51.30	602	15,000
1940	NA	6,950	NA	NA	51.30	597	13,000
1941	NA	13,000	NA	NA	44.60	495	22,000
1942	NA	5,920	NA	NA	33.90	339	25,000
1943	NA	9,050	NA	NA	33.90	319	23,000
1944	NA	5,520	NA	NA	39.40	365	15,000
1945	NA	13,700	279	NA	39.40	357	15,000
1946	NA	10,300	310	NA	31.10	260	23,000
1947	NA	11,100	217	NA	31.10	227	43,000
1948	NA	15,500	419	NA	38.00	257	46,000
1949	NA	11,000	943	NA	34.70	238	61,000
1950	NA	15,800	854	NA	34.70	235	58,000
1951	NA	17,800	898	NA	38.00	238	73,000
1952	NA	8,220	1,020	NA	38.00	234	67,000
1953	NA	6,010	936	NA	38.00	232	47,000
1954	NA	4,380	1,040	NA	44.60	270	73,000
1955	NA	6,880	1,560	NA	38.00	231	38,000
1956	21,800	6,310	1,210	NA	38.00	228	58,000
1957	18,000	5,440	2,350	NA	38.00	220	82,000
1958	14,800	1,780	2,260	NA	38.00	214	76,000
1959	16,500	5,110	2,480	NA	53.50	300	77,000
1960	19,500	5,490	2,950	NA	53.50	295	95,000
1961	13,400	4,910	3,630	NA	53.50	292	130,000
1962	17,300	4,790	3,240	NA	53.50	289	130,000
1963	26,800	2,380	4,580	NA	53.50	285	120,000
1964	32,800	2,160	5,520	NA	57.90	304	120,000
1965	36,300	3,670	9,290	NA	57.90	300	120,000
1966	45,000	3,090	15,700	NA	57.90	291	130,000
1967	36,500	1,650	19,400	NA	57.90	283	130,000
1968	32,700	1,320	18,600	NA	77.70	364	120,000
1969	44,100	1,890	17,900	NA	74.40	330	140,000
1970	50,400	1,070	21,800	NA	67.20	282	200,000
1971	50,000	1,220	28,600	NA	72.20	291	190,000
1972	42,100	112	67,100	NA	72.20	282	180,000
1973	52,800	200	85,000	NA	72.20	265	200,000
1974	37,700	176	123,000	NA	78.30	259	180,000
1975	21,900	59	136,000	NA	100	302	190,000
1976	38,300	100	57,500	NA	100	286	230,000
1977	36,500	48	35,200	NA	93.10	250	250,000
1978	34,500	NA	36,300	NA	99.20	248	240,000

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1979	36,900	NA	45,400	NA	99.20	223	290,000
1980	36,800	NA	45,400	NA	109	216	350,000
1981	38,100	NA	40,800	NA	122	219	330,000
1982	24,500	NA	36,300	NA	122	206	290,000
1983	20,900	NA	36,300	NA	122	200	240,000
1984	24,500	6,800	40,800	NA	130	204	280,000
1985	25,000	2,720	40,800	NA	130	197	340,000
1986	W	4,540	45,000	NA	130	193	300,000
1987	W	12,700	41,000	NA	138	198	340,000
1988	W	8,890	45,000	NA	138	190	380,000
1989	W	10,300	41,000	NA	126	166	410,000
1990	W	17,700	35,000	NA	126	157	400,000
1991	W	5,140	33,000	NA	126	151	310,000
1992	W	6,000	35,000	NA	141	164	320,000
1993	W	12,200	33,000	NA	156	176	270,000
1994	W	7,900	35,000	NA	171	188	280,000
1995	W	3,210	35,000	NA	196	210	280,000
1996	W	11,300	35,000	NA	208	216	300,000
1997	W	8,170	35,000	NA	229	233	350,000
1998	129,000	9,610	35,000	104,000	213	213	460,000
1999	129,000	6,290	35,000	100,000	210	205	360,000
2000	130,000	6,440	35,000	101,000	222	210	406,000
2001	130,000	3,260	35,000	98,000	222	204	424,000
2002	130,000	4,620	35,000	100,000	206	187	353,000
2003	130,000	4,480	35,000	99,000	206	182	388,000
2004	130,000	4,010	35,000	99,000	199	172	435,000
2005	142,000	6,300	35,000	113,000	191	166	420,000
2006	140,000	4,350	35,000	109,000	198	183	416,000
2007	158,000	1,760	35,700	124,000	273	215	475,000
2008	137,000	5,580	36,100	107,000	307	232	408,000
2009	111,000	4,880	25,800	90,100	276	210	331,000
2010	133,000	2,180	37,900	97,200	283	212	389,000
2011	138,000	5,390	38,100	105,000	298	216	434,000

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

<sup>1</sup>Compiled by T.D. Kelly (retired), M.J. Potter (retired), D.J. Cordier, and A.O. Tanner.

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

## **Kyanite and Related Materials Worksheet Notes**

### **Data Sources**

The sources of data for the kyanite worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and Mineral Commodity Summaries (MCS). The years of publication and corresponding years of data coverage are listed in the References section below.

### **Production**

Production data refers to the production of synthetic mullite for 1956–85. Synthetic mullite and kyanite production data for 1986–97 were not published because they are proprietary. Production data for 1998 to the most recent year are estimates of synthetic mullite and kyanite production data published in the MYB.

### **Imports**

Import data refer to imports of kyanite and related materials. For 1937–77 and 1984 to the most recent year, import data are from the MYB. Data for 1978–83 are not available.

### **Exports**

Export data refer to an estimate for kyanite and related materials exported from the United States. For the years, 1945–77 data are reported in the MYB. Data for 1978 to the most recent year are reported in the MCS. Export data prior to 1945 were not available.

### **Apparent Consumption**

Apparent consumption data are not available for 1928–97, because production data are proprietary. For 1998 to the most recent year, an estimated apparent consumption is published in the MCS.

### **Unit Value (\$/t)**

Unit value is defined as the value of 1 metric ton (t) of kyanite apparent consumption. The prices from the MYB for raw and calcined U.S. kyanite were averaged to estimate unit value for kyanite. This is a rough estimate; the values may be greater if additional data for mullite production (weight and value) were available. Estimated unit value data for kyanite (price series) were interpolated for 1937–38 and 1992–93.

### **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 1928–60 are from the “World Production” table in the 1960 MYB. World production data for 1961–70 were from the “World Mine Production” table in the CDS. World production data for 1971–2002 were from the MCS. Data for 2003 to the most recent year are unpublished revisions made by the USGS kyanite commodity specialist.

### **References**

- U.S. Bureau of Mines, 1933–96, Minerals Yearbook, 1932–94.
- U.S. Bureau of Mines, 1978–95, Mineral Commodity Summaries, 1978–95.
- U.S. Geological Survey, 1995–present, Minerals Yearbook, v. I. (Available via <http://minerals.usgs.gov/minerals/>.)
- U.S. Geological Survey, 1997–most recent, Mineral Commodity Summaries 1997–most recent. (Available via <http://minerals.usgs.gov/minerals/>.)
- U.S. Geological Survey and U.S. Bureau of Mines, 1996, Mineral Commodity Summaries, 1996.

### **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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