

KYANITE AND RELATED MATERIALS STATISTICS

By Thomas D. Kelly and Michael J. Potter

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

Last modification: May 28, 2004

Year	Production	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1928							2,300
1929							3,700
1930							8,800
1931							3,500
1932							5,700
1933							4,500
1934					45.70	556	9,700
1935					25.40	302	20,000
1936					33.10	388	25,000
1937		6,960			39.20	443	27,000
1938		3,600			45.23	523	29,000
1939		3,070			51.30	602	15,000
1940		6,950			51.30	597	13,000
1941		13,000			44.60	495	22,000
1942		5,920			33.90	339	25,000
1943		9,050			33.90	319	23,000
1944		5,520			39.40	365	15,000
1945		13,700	279		39.40	357	15,000
1946		10,300	310		31.10	260	23,000
1947		11,100	217		31.10	227	43,000
1948		15,500	419		38.00	257	46,000
1949		11,000	943		34.70	238	61,000
1950		15,800	854		34.70	235	58,000
1951		17,800	898		38	238	73,000
1952		8,220	1,020		38	234	67,000
1953		6,010	936		38	232	47,000
1954		4,380	1,040		45	270	73,000
1955		6,880	1,560		38	231	38,000
1956	21,800	6,310	1,210		38	228	58,000
1957	18,000	5,440	2,350		38	220	82,000
1958	14,800	1,780	2,260		38	214	76,000
1959	16,500	5,110	2,480		54	300	77,000
1960	19,500	5,490	2,950		54	295	95,000
1961	13,400	4,910	3,630		54	292	130,000
1962	17,300	4,790	3,240		54	289	130,000
1963	26,800	2,380	4,580		54	285	120,000
1964	32,800	2,160	5,520		58	304	120,000
1965	36,300	3,670	9,290		58	300	120,000
1966	45,000	3,090	15,700		58	291	130,000
1967	36,500	1,650	19,400		58	283	130,000
1968	32,700	1,320	18,600		78	364	120,000
1969	44,100	1,890	17,900		74	330	140,000
1970	50,400	1,070	21,800		67	282	200,000
1971	50,000	1,220	28,600		72	291	190,000
1972	42,100	112	67,100		72	282	180,000
1973	52,800	200	85,000		72	265	200,000
1974	37,700	176	123,000		78	259	180,000
1975	21,900	59	136,000		100	302	190,000
1976	38,300	100	57,500		100	286	230,000
1977	36,500	48	35,200		93	250	250,000
1978	34,500		36,300		99	248	240,000
1979	36,900		45,400		99	223	290,000

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1980	36,800		45,400		109	216	350,000
1981	38,100		40,800		122	219	330,000
1982	24,500		36,300		122	206	290,000
1983	20,900		36,300		122	200	240,000
1984	24,500	6,800	40,800		130	204	280,000
1985	25,000	2,720	40,800		130	197	340,000
1986		4,540	45,000		130	193	300,000
1987		12,700	41,000		138	198	340,000
1988		8,890	45,000		138	190	380,000
1989		10,300	41,000		126	166	410,000
1990		17,700	35,000		126	157	400,000
1991		5,140	33,000		126	151	310,000
1992		6,000	35,000		141	164	320,000
1993		12,200	33,000		156	176	270,000
1994		7,900	35,000		171	188	280,000
1995		3,210	35,000		196	210	290,000
1996		11,300	35,000		208	216	330,000
1997		8,170	35,000		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	410,000
2001	130,000	3,260	35,000	100,000	222	204	420,000
2002	130,000	4,620	35,000	100,000	222	201	430,000

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) and its predecessor, Commodity Data Summaries (CDS). 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 either were not available or were withheld from publication because they are proprietary.

Production

Production data refers to the production of synthetic mullite for the years 1956–85. Synthetic mullite and kyanite production data for all other years were not published because they are proprietary except for the years 1998–2002. Production data are from the MYB. Data for 1998–2000 are estimates of synthetic mullite and kyanite production published in the MYB.

Imports

Import data refer to imports of kyanite and related materials. For the years 1937–77 and 1984–2002, import data are from the MYB. Data for other years were 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 from the MYB. For the years 1978–2002, data are from the “Salient Statistics” table in the MCS. Export data prior to 1945 were not available.

Apparent Consumption

Apparent consumption data are not available for the years 1928–97, because production data are proprietary. For the years 1998–2002, 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; and the values may be greater if additional data for mullite production (weight and value) were available. The graph below shows the higher values for mullite production compared to the kyanite price series.

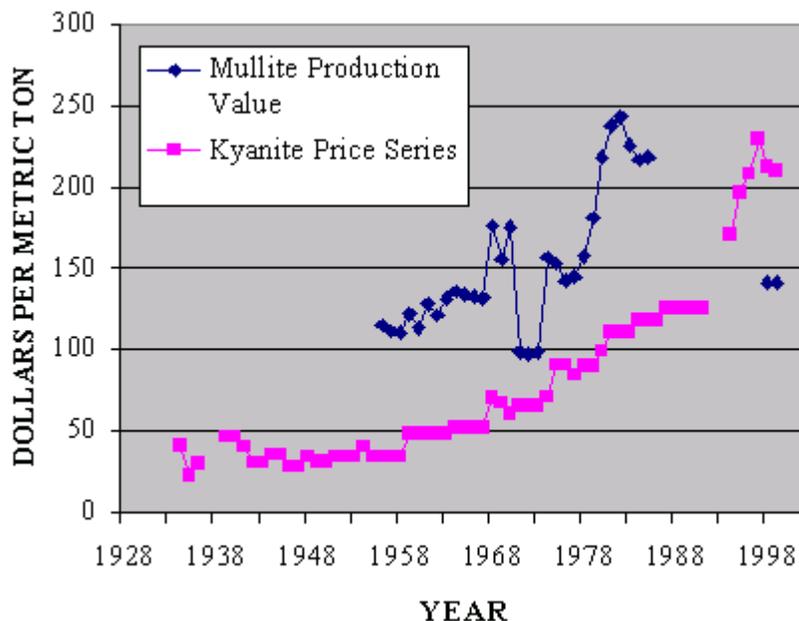


Figure 1. Unit Value Comparison

Estimated unit value data for kyanite (price series) were interpolated for the years 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 the years 1928–60 are from the “World Production” table in the 1960 MYB. World production data for the years 1961–70 were from the “World Mine Production” table in the CDS. World production for the years 1971–2002 were from the MYB.

References

- U.S. Bureau of Mines, 1933–96, Minerals Yearbook, 1932–94.
- U.S. Bureau of Mines, 1962–77, Commodity Data Summaries, 1962–77.
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