KYANITE AND RELATED MATERIALS STATISTICS¹ U.S. GEOLOGICAL SURVEY

[All values in metric tons (t) kyanite & related materials unless otherwise noted]					
Last modification: October 26, 2007					

Apparent Unit value Unit value World production 1928 (\$\mathcal{N}) (98\$\mathcal{N}) production 1929 3.700 1931 3.700 1932 3.500 1933 5.700 1934 4.500 3.500 1935 2.5,000 3.500 1936 3.500 2.5,000 1937 6,6960 3.20 443 27,000 1939 3.070 51.30 602 15,000 1941 13.000 44.60 495 22,000 1941 13.000 3.40 351 3.50 3.50 1944 5,520 33.90 319 23,000			La		Apparent	,	Unit value	World
1928 1 1 2,300 1929 3,700 1930 3,500 1931 1932	Voor	Production	Importe	Evnorte				
1929 <th></th> <th>Froduction</th> <th>imports</th> <th>Exports</th> <th>consumption</th> <th>(\$/1)</th> <th>(909/1)</th> <th>-</th>		Froduction	imports	Exports	consumption	(\$/1)	(909/1)	-
1930 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1931 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1932 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1933 4,500 1934 45.70 556 9,700 1935 25.40 302 20,000 1937 6,960 33.10 388 25,000 1938 3,600 45.23 523 29,000 1939 3,070 51.30 602 15,000 1940 6,950 51.30 697 13,000 1941 13,000 44.60 495 22,000 1942 5,920 33.90 319 23,000 1943 9,050 33.90 319 23,000 1944 5,520 39,40 357 15,000 1945 13,700 279 39,40 357 15,000 1944 15,500 419 38,00 223 46,000 1947 11,100 217 31.10 227 43,000 1949 11,000 943 34,70 238 61,000 <								,
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 51.30 507 13,000 1941 13,000 44.60 495 22,000 1942 5,920 33,90 339 25,000 1944 5,520 39,40 355 15,000 1944 5,520 39,40 357 15,000 1944 13,700 279 39,40 357 15,000 1947 11,100 217 31,10 227 43,000 1948 15,500 419 38,00 238 74,6000 1951 17,800 898 38,00 238 73,000								
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 1941 13,000 44.60 495 22,000 1942 5,920 33.90 319 22,000 1943 9,050 33.90 319 23,000 1944 5,520 39.40 357 15,000 1945 13,700 279 39.40 357 15,000 1946 10,300 310 31.10 260 23,000 1944 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 38.00 234 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>45.70</td><td>550</td><td></td></td<>						45.70	550	
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 33.90 319 23,000 1943 9,050 33.90 319 23,000 1944 5,520 39,40 365 15,000 1945 13,700 279 39,40 365 15,000 1944 5,520 39,40 357 15,000 15,000 1947 11,100 217 31,10 227 43,000 1948 15,500 419 38.00 238 73,000 1950 17,800 898 38.00 238 73,000 1951 17,800 898 38.00								
19376,96039,2044327,00019383,60045.2352329,00019393,07051.3060215,00019406,95051.3059713,000194113,00044.6049522,00019425,92033.9033923919439,05033.9031923,00019445,52039.4036515,000194513,70027939.4035715,000194415,50041938.0022746,000194711,10021731.1022743,000194815,50041938.0023873,000195015,80085434.7023861,000195117,80089838.0023467,00019528,2201,02038.0023873,00019556,8801,56038.0023138,000195621,8006,3101,21038.0022858,000195718,0005,4402,35038.0022858,000195718,0005,4902,52035.5029595,000195814,8001,7802,26038.0022858,000195718,0005,7402,35053.5029595,000196413,4004,68053.5029595,000196536,0002,38053.50289130								
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 1944 5,520 39,40 357 15,000 1944 5,520 39,40 357 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 1949 15,000 419 38.00 238 61,000 1950 15,800 854 34.70 238 61,000 1951 17,800 898 38.00 232 47,000 1953 6,010 936 38.00 231 38,000 1955 <td< td=""><td></td><td></td><td>6.060</td><td></td><td></td><td></td><td></td><td></td></td<>			6.060					
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 $9,050$ 33.90 339 $23,000$ 1944 $5,520$ 39.40 365 $15,000$ 1945 $13,700$ 279 39.40 365 $15,000$ 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 34.70 238 $58,000$ 1951 $17,800$ 898 38.00 234 $67,000$ 1952 $8,220$ $1,020$ 38.00 234 $47,000$ 1954 $4,380$ $1,600$ 38.00 231 $38,000$ 1955 $6,880$ $1,560$ 38.00 231 $38,000$ 1955 $18,000$ $5,440$ $2,350$ 38.00 228 $82,000$ 1955 $14,800$ $1,780$ $2,950$ 53.50 289 $130,000$ 1956 $21,800$ $5,110$ $2,480$ 53.50 289 $130,000$ 1957 $18,000$ $5,490$ $2,950$ 53.50 289 $130,000$ 1961 $13,400$ $4,910$ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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 $9,050$ 33.90 339 $25,000$ 1944 $5,520$ 39.40 365 $15,000$ 1945 $13,700$ 279 39.40 357 $15,000$ 1946 $10,300$ 310 31.10 227 $43,000$ 1947 $11,100$ 217 31.10 227 $43,000$ 1948 $15,500$ 419 38.00 225 $46,000$ 1949 $11,000$ 943 34.70 238 $61,000$ 1950 $15,800$ 854 34.70 238 $61,000$ 1951 $17,800$ 898 38.00 234 $67,000$ 1952 $8,220$ $1,020$ 38.00 234 $47,000$ 1953 $6,010$ 936 38.00 231 $38,000$ 1954 $4,380$ $1,400$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 295 $95,000$ 1960 $19,500$ $5,520$ 57.90 304 $120,000$ 1964 $32,800$ $15,700$ 57.90 304 $120,000$ 1964 $32,600$ 17.70 364 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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 1944 10,300 310 31.10 260 23,000 1944 11,100 217 31.10 227 43,000 1948 15,500 419 38.00 238 61,000 1949 11,000 943 34.70 235 58,000 1951 17,800 898 38.00 238 73,000 1952 8,220 1,020 38.00 231 38,000 1953 6,010 936 38.00 231 38,000 1954 4,380 1,640 44.60 270 73,000 1955 6,880 1,560 38.00 228								
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 34.70 235 58,000 1950 15,800 854 34.70 235 58,000 1951 17,800 898 38.00 234 67,000 1952 8,220 1,020 38.00 232 47,000 1954 4,380 1,040 44.60 270 73,000 1955 6,880 1,560 38.00 228 58,000 1955 6,880 1,560 38.00			-					
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 34.70 238 58,000 1951 17,800 898 38.00 234 67,000 1952 8,220 1,020 38.00 232 47,000 1953 6,010 936 38.00 231 38,000 1954 4,380 1,040 44.60 270 73,000 1955 6,880 1,560 38.00 228 58,000 1957 18,000 5,160								
1944 5,520 39,40 365 15,000 1945 13,700 279 39,40 357 15,000 1946 10,300 310 31.10 220 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 38.00 238 73,000 1952 8,220 1,020 38.00 232 47,000 1953 6,010 936 38.00 231 38,000 1955 6,880 1,560 38.00 221 82,000 1954 14,800 1,780 2,260 38.00 224 82,000 1957 18,000 5,440 2,350 53.50 295 50,000								
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 34.70 238 $61,000$ 1951 $17,800$ 898 38.00 234 $67,000$ 1952 $8,220$ $1,020$ 38.00 234 $67,000$ 1953 $6,010$ 936 38.00 231 $38,000$ 1954 $4,380$ $1,640$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 221 $82,000$ 1955 $6,880$ $1,560$ 38.00 221 $82,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 295 $95,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 285 $120,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,000$ $15,700$ 57.90 300 $120,000$ 1964 $32,000$ $15,700$ 57.90 283 $130,000$ <			-					
194610,30031031.1026023,000194711,10021731.1022743,000194815,50041938.0025746,000194911,00094334.7023861,000195015,80085434.7023858,000195117,80089838.0023873,00019528,2201,02038.0023467,00019536,01093638.0023138,00019544,3801,04044.6627073,00019556,8801,56038.0022882,000195621,8006,3101,21038.0022882,000195718,0005,4402,35038.0022082,000195814,8001,7802,26038.0021476,000195916,5005,1102,48053.5030077,000196019,5005,4902,95053.5029595,000196113,4004,9103,63053.50285120,000196326,8002,3804,58053.50285120,000196432,8002,1605,52057.90304120,000196536,3003,6709,29057.90283130,000196432,8001,32018,60077.70364120,000196536,3003,6709,29057.90				270				,
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 38.00 238 67,000 1952 8,220 1,020 38.00 234 67,000 1953 6,010 936 38.00 232 47,000 1954 4,380 1,040 44.60 270 73,000 1955 6,880 1,560 38.00 228 58,000 1955 6,880 1,560 38.00 220 82,000 1955 18,000 5,440 2,350 38.00 214 76,000 1959 16,500 5,110 2,480 53.50 295 95,000 1960 19,500 5,490 2,350 53.50 289 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
194815,500419 38.00 25746,000194911,000943 34.70 23861,000195015,800854 34.70 23558,000195117,800898 38.00 23467,00019528,2201,020 38.00 23467,00019536,010936 38.00 23247,00019544,3801,04044.6027073,00019556,8801,560 38.00 22858,000195621,8006,3101,210 38.00 22858,000195718,0005,4402,350 38.00 22082,000195814,8001,7802,260 38.00 21476,000195916,5005,1102,48053.5029595,000196019,5005,4902,95053.50292130,000196113,4004,9103,63053.50289130,000196217,3004,7903,24053.50289130,000196326,8002,3804,58053.50285120,000196432,8002,1605,52057,90304120,000196536,3003,6709,29057,90283130,000196432,8001,32018,60077.70364120,000196536,3003,6709,29057,90282200,0001966 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1949 $11,000$ 943 34.70 238 $61,000$ 1950 $15,800$ 854 34.70 235 $58,000$ 1951 $17,800$ 898 38.00 238 $73,000$ 1952 $8,220$ $1,020$ 38.00 234 $67,000$ 1953 $6,010$ 936 38.00 232 $47,000$ 1954 $4,380$ $1,040$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 221 $38,000$ 1955 $6,880$ $1,560$ 38.00 220 $82,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 220 $82,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 295 $95,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 295 $95,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 289 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1964 $32,000$ $16,50$ $19,400$ 57.90 291 $130,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 19								
1950 $15,800$ 854 34.70 235 $58,000$ 1951 $17,800$ 898 38.00 238 $73,000$ 1952 $8,220$ $1,020$ 38.00 234 $67,000$ 1953 $6,010$ 936 38.00 232 $47,000$ 1954 $4,380$ $1,040$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 228 $58,000$ 1956 $21,800$ $6,310$ $1,210$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1957 $18,000$ $5,440$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 295 $95,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 292 $130,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 289 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 285 $120,000$ 1964 $32,800$ $2,180$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 283 $130,000$ 1964 $32,800$ $1,650$ $19,400$ 57.90 283 $130,000$ 1966 $45,000$ $3,090$ $17,900$ 74.40 330 $140,0$				-				
1951 $17,800$ 898 38.00 238 $73,000$ 1952 $8,220$ $1,020$ 38.00 234 $67,000$ 1953 $6,010$ 936 38.00 232 $47,000$ 1954 $4,380$ $1,040$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 231 $38,000$ 1955 $6,880$ $1,560$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 295 $95,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 292 $130,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 289 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 283 $130,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 281 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1974 $53,600$ $1,070$ $21,800$ 72.20 282 $180,000$ 1974 $37,700$ 176 $123,000$ 78.30 25			-					
1952 $8,220$ $1,020$ 38.00 234 $67,000$ 1953 $6,010$ 936 38.00 232 $47,000$ 1954 $4,380$ $1,040$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 231 $38,000$ 1955 $6,880$ $1,560$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 295 $95,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 295 $95,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 300 $120,000$ 1964 $32,800$ $3,670$ $9,290$ 57.90 283 $130,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 281 $10,000$ 1964 $32,800$ $1,650$ $19,400$ 57.90 281 $10,000$ 1966 $45,000$ $3,090$ $15,700$ 77.20 282 $200,000$ 1970 $50,400$ $1,070$ $21,800$ $67.$			-					
1953 $6,010$ 936 38.00 232 $47,000$ 1954 $4,380$ $1,040$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 231 $38,000$ 1956 $21,800$ $6,310$ $1,210$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 390 $77,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 292 $130,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 289 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1970 $50,400$ $1,700$ 72.20 282 $200,000$ 1971 $50,000$ $1220,200$ 72.20 282 $180,000$ 1972 $42,100$ 112 $67,100$			-					
1954 $4,380$ $1,040$ 44.60 270 $73,000$ 1955 $6,880$ $1,560$ 38.00 231 $38,000$ 1956 $21,800$ $6,310$ $1,210$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 300 $77,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 292 $130,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 289 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1964 $32,600$ $3,670$ $9,290$ 57.90 300 $120,000$ 1964 $32,700$ $1,5700$ 57.90 283 $130,000$ 1966 $45,000$ $3,670$ $9,290$ 57.90 283 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $200,000$ 1971 $50,000$ <			-	-				
1955 $6,880$ $1,560$ 38.00 231 $38,000$ 1956 $21,800$ $6,310$ $1,210$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 300 $77,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 295 $95,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 292 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 288 $120,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 265 $200,000$ 1974 $37,700$ <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>			-					
1956 $21,800$ $6,310$ $1,210$ 38.00 228 $58,000$ 1957 $18,000$ $5,440$ $2,350$ 38.00 220 $82,000$ 1958 $14,800$ $1,780$ $2,260$ 38.00 214 $76,000$ 1959 $16,500$ $5,110$ $2,480$ 53.50 300 $77,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 295 $95,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 292 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 283 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 282 $180,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>			-					
195718,000 $5,440$ $2,350$ 38.00 220 $82,000$ 195814,8001,780 $2,260$ 38.00 214 $76,000$ 195916,500 $5,110$ $2,480$ 53.50 300 $77,000$ 196019,500 $5,490$ $2,950$ 53.50 295 $95,000$ 196113,400 $4,910$ $3,630$ 53.50 292 $130,000$ 196217,300 $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 282 $180,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 302 $190,000$ 1976 $38,300$ </td <td></td> <td>21 800</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>		21 800	-					
195814,8001,7802,260 38.00 21476,000195916,5005,1102,480 53.50 300 $77,000$ 196019,5005,4902,950 53.50 295 $95,000$ 196113,4004,910 $3,630$ 53.50 292 $130,000$ 196217,3004,790 $3,240$ 53.50 289 $130,000$ 196326,8002,3804,580 53.50 285 $120,000$ 1964 $32,800$ 2,160 $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 282 $180,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 302 $190,000$ 1976 $38,300$ 100 $57,500$ 100 286 $230,000$ 1978 $34,500$ $36,300$ 9								
1959 $16,500$ $5,110$ $2,480$ 53.50 300 $77,000$ 1960 $19,500$ $5,490$ $2,950$ 53.50 295 $95,000$ 1961 $13,400$ $4,910$ $3,630$ 53.50 292 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 283 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1969 $44,100$ $1,890$ $17,900$ 74.40 330 $140,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $180,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 285 $120,000$ 1973 $52,800$ 200 $85,000$ 72.20 285 $180,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 286 $230,000$ 1976<			,					
196019,5005,4902,95053,5029595,000196113,4004,9103,63053,50292130,000196217,3004,7903,24053,50289130,000196326,8002,3804,58053,50285120,000196432,8002,1605,52057,90304120,000196536,3003,6709,29057,90300120,000196645,0003,09015,70057,90291130,000196645,0003,09015,70057,90283130,000196736,5001,65019,40057,90283130,000196832,7001,32018,60077.70364120,000196944,1001,89017,90074,40330140,000197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20282180,000197242,10011267,10072.20282180,000197352,80020085,00072.20285200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,0001				-				
1961 $13,400$ $4,910$ $3,630$ 53.50 292 $130,000$ 1962 $17,300$ $4,790$ $3,240$ 53.50 289 $130,000$ 1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1969 $44,100$ $1,890$ $17,900$ 74.40 330 $140,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 282 $180,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 302 $190,000$ 1976 $38,300$ 100 $57,500$ 100 286 $230,000$ 1978 $34,500$ $36,300$ 99.20 248 $240,000$								
196217,3004,7903,24053.50289130,000196326,8002,3804,58053.50285120,000196432,8002,1605,52057.90304120,000196536,3003,6709,29057.90300120,000196645,0003,09015,70057.90291130,000196736,5001,65019,40057.90283130,000196832,7001,32018,60077.70364120,000196944,1001,89017,90074.40330140,000197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20282180,000197352,80020085,00072.20282180,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000			-					
1963 $26,800$ $2,380$ $4,580$ 53.50 285 $120,000$ 1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 283 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1969 $44,100$ $1,890$ $17,900$ 74.40 330 $140,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 285 $200,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 302 $190,000$ 1976 $38,300$ 100 $57,500$ 100 286 $230,000$ 1978 $34,500$ $36,300$ 99.20 248 $240,000$								
1964 $32,800$ $2,160$ $5,520$ 57.90 304 $120,000$ 1965 $36,300$ $3,670$ $9,290$ 57.90 300 $120,000$ 1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1969 $44,100$ $1,890$ $17,900$ 74.40 330 $140,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 291 $190,000$ 1972 $42,100$ 112 $67,100$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 265 $200,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 302 $190,000$ 1976 $38,300$ 100 $57,500$ 100 286 $230,000$ 1977 $36,500$ 48 $35,200$ 93.10 250 $250,000$ 1978 $34,500$ $36,300$ 99.20 248 $240,000$								-
196536,3003,6709,29057.90300120,000196645,0003,09015,70057.90291130,000196736,5001,65019,40057.90283130,000196832,7001,32018,60077.70364120,000196944,1001,89017,90074.40330140,000197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20291190,000197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197834,50036,30099.20248240,000								
1966 $45,000$ $3,090$ $15,700$ 57.90 291 $130,000$ 1967 $36,500$ $1,650$ $19,400$ 57.90 283 $130,000$ 1968 $32,700$ $1,320$ $18,600$ 77.70 364 $120,000$ 1969 $44,100$ $1,890$ $17,900$ 74.40 330 $140,000$ 1970 $50,400$ $1,070$ $21,800$ 67.20 282 $200,000$ 1971 $50,000$ $1,220$ $28,600$ 72.20 282 $180,000$ 1972 $42,100$ 112 $67,100$ 72.20 282 $180,000$ 1973 $52,800$ 200 $85,000$ 72.20 265 $200,000$ 1974 $37,700$ 176 $123,000$ 78.30 259 $180,000$ 1975 $21,900$ 59 $136,000$ 100 302 $190,000$ 1976 $38,300$ 100 $57,500$ 100 286 $230,000$ 1978 $34,500$ $36,300$ 99.20 248 $240,000$								-
196736,5001,65019,40057.90283130,000196832,7001,32018,60077.70364120,000196944,1001,89017,90074.40330140,000197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20291190,000197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197834,50036,30099.20248240,000								
196832,7001,32018,60077.70364120,000196944,1001,89017,90074.40330140,000197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20291190,000197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197834,50036,30099.20248240,000								
196944,1001,89017,90074.40330140,000197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20291190,000197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197834,50036,30099.20248240,000								
197050,4001,07021,80067.20282200,000197150,0001,22028,60072.20291190,000197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000								
197150,0001,22028,60072.20291190,000197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000								
197242,10011267,10072.20282180,000197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000								
197352,80020085,00072.20265200,000197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000			-					
197437,700176123,00078.30259180,000197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000								
197521,90059136,000100302190,000197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000								
197638,30010057,500100286230,000197736,5004835,20093.10250250,000197834,50036,30099.20248240,000				-				
197736,5004835,20093.10250250,000197834,50036,30099.20248240,000								
1978 34,500 36,300 99.20 248 240,000				-				
								-

KYANITE AND RELATED MATERIALS STATISTICS¹ U.S. GEOLOGICAL SURVEY

		Las	st modific	cation: Octobe			
				Apparent	Unit value	Unit value	World
Year	Production	Imports	Exports	consumption	(\$/t)	(98 \$/t)	production
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	280,000
1996		11,300	35,000		208	216	300,000
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	406,000
2001	130,000	3,260	35,000	98,000	222	204	424,000
2002	130,000	4,620	35,000	100,000	139	126	391,000
2003	130,000	4,480	35,000	99,000	139	123	386,000
2004	130,000	4,010	35,000	99,000	136	117	456,000
2005	130,000	6,300	35,000	101,000	172	144	450,000
2006	130,000	4,000	35,000	99,000	172	139	452,000

[All values in metric tons (t) kyanite & related materials unless otherwise noted] Last modification: October 26, 2007

¹Compiled by T.D. Kelly (retired) and M.J. Potter.

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. 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 the years 1986–97 were not published because they are proprietary. Production data for the years 1998–2006 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 the years 1937–77 and 1984–2006, import data are from the MYB. Data for the years 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 MR. Data for the years 1978–2006 are reported 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 1998–2006, 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.

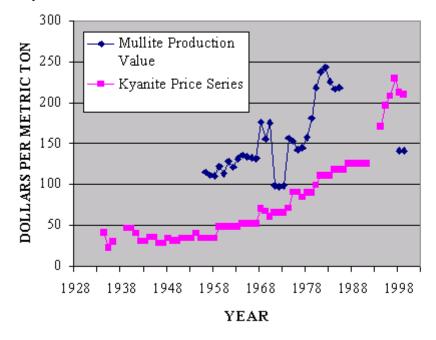


Figure 1. Unit Value Comparison

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 MCS. Data for the years 2003–06 are unpublished revisions made by the 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, 1997–2007, Mineral Commodity Summaries, 1997–2007.
- U.S. Geological Survey, 1997–2007, Minerals Yearbook, v. I, 1995–2006.
- 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, available online at http://pubs.usgs.gov/ds/2005/140/. (Accessed [date].)

For more information, please contact:

USGS Kyanite Commodity Specialist