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

Last modification: November 6, 2008

| Last modification: November 6, 2008 | | | | | | | | | | | |
|-------------------------------------|-------------------------|------------------|----------------|----------------|-------------|-----------------|------------|------------|--|--|--|
| | TOTAL NATURAL ABRASIVES | | | | | | | | | | |
| | | | | | Apparent | Unit value | Unit value | World | | | |
| Year | Production | Shipments | | Exports | consumption | (\$/t) | (98\$/t) | production | | | |
| 1900 | 4,410 | 3,910 | 11,900 | | 16,300 | | | | | | |
| 1901 | 3,910 | 3,910 | 13,100 | | 17,000 | | | | | | |
| 1902 | 3,860 | 3,860 | 8,030 | | 11,900 | | | | | | |
| 1903 | 4,120 | 4,120 | 12,700 | | 16,800 | | | | | | |
| 1904 | 17,700 | 1,740 | 8,200 | | 25,900 | | | | | | |
| 1905 | 26,800 | 1,930 | 12,700 | | 39,400 | | | | | | |
| 1906 | 1,050 | 1,050 | 16,200 | | 17,200 | | | | | | |
| 1907 | 970 | 970 | 13,400 | | 14,400 | | | | | | |
| 1908 | 607 | 607 | 9,000 | | 9,610 | | | | | | |
| 1909 | 1,430 | 1,430 | 11,200 | | 12,600 | | | | | | |
| 1910 | 933 | 933 | 30,500 | | 31,400 | | | | | | |
| 1911 | 598 | 598 | 11,600 | | 12,200 | | | | | | |
| 1912 | 900 | 900 | 17,600 | | 18,500 | | | | | | |
| 1913 | 19,700 | 19,700 | 18,500 | | 38,300 | | | 116,000 | | | |
| 1913 | 59,900 | 59,900 | 13,900 | | 73,700 | 16.9 | 276 | | | | |
| 1915 | 69,300 | 69,300 | 9,180 | | 78,600 | 13.4 | 216 | , | | | |
| 1916 | 105,000 | 105,000 | 8,510 | | 114,000 | 13.4 | 194 | · | | | |
| 1917 | 105,000 | 103,000 | 2,070 | | 107,000 | 20.2 | 257 | 135,000 | | | |
| 1917 | 99,100 | 99,100 | 8,660 | | 107,000 | 25.6 | 276 | | | | |
| | 76,800 | 76,800 | 11,800 | | 88,600 | 24.7 | 233 | | | | |
| 1919 1920 | 98,100 | , | 33,300 | | 131,000 | 28.3 | 233 | | | | |
| | · | 98,100 | | | · | | | | | | |
| 1921 | 37,000 | 37,000 | 16,100 | | 53,100 | 46.5 | 423 | | | | |
| 1922 | 56,600 | 56,600 | 20,100 | | 76,700 | 31.8 | 309 | | | | |
| 1923 | 74,100 | 74,100 | 26,200 | | 100,000 | 34.1 | 325 | | | | |
| 1924 | 65,700 | 65,700 | 28,700 | | 94,400 | 40.3 | 384 | • | | | |
| 1925 | 65,600 | 65,600 | 26,200 | | 91,900 | 41.2 | 385 | | | | |
| 1926 | 70,800 | 70,800 | 26,900 | | 97,700 | 41.0 | 376 | | | | |
| 1927 | 57,100 | 57,100 | 23,000 | | 80,100 | 43.7 | 408 | | | | |
| 1928 | 68,800 | 68,800 | 25,100 | | 93,900 | 38.0 | 362 | 78,800 | | | |
| 1929 | 65,400 | 65,400 | 27,600 | | 93,100 | 35.4 | 337 | 65,400 | | | |
| 1930 | 50,600 | 50,600 | 19,100 | | 69,600 | 31.4 | 308 | | | | |
| 1931 | 34,800 | 34,800 | 13,000 | | 47,700 | 25.7 | 275 | | | | |
| 1932 | 21,800 | 21,800 | 6,500 | | 28,300 | 28.0 | | | | | |
| 1933 | 36,700 | 36,700 | 10,100 | | 46,600 | 27.3 | 342 | 36,700 | | | |
| 1934 | 30,600 | 30,600 | 11,700 | | 42,300 | 31.7 | 386 | 30,600 | | | |
| 1935 | 38,600 | 38,600 | 19,100 | | 57,700 | 29.3 | 349 | 38,600 | | | |
| 1936 | 38,800 | 38,800 | 20,500 | | 59,300 | 30.9 | 362 | 38,800 | | | |
| 1937 | 45,900 | 45,900 | 20,900 | | 66,800 | 30.3 | 343 | 48,200 | | | |
| 1938 | 26,200 | 26,200 | 10,900 | | 37,100 | 34.8 | 402 | 27,800 | | | |
| 1939 | 41,100 | 41,100 | 15,800 | | 56,900 | 31.6 | 370 | 43,500 | | | |
| 1940 | 40,400 | 40,400 | 11,300 | | 51,800 | 23.3 | 271 | 44,400 | | | |
| 1941 | 60,500 | 60,500 | | | 68,100 | 22.4 | 248 | | | | |
| 1942 | 50,400 | 50,400 | 5,400 | 19,000 | 39,700 | 22.4 | 224 | | | | |
| 1943 | 42,400 | 42,400 | 6,080 | 19,000 | 30,400 | 21.8 | 206 | | | | |
| 1944 | 40,700 | 40,700 | 6,810 | 22,800 | 35,800 | 22.4 | 207 | 46,400 | | | |
| 1945 | 42,400 | 42,400 | 7,200 | 27,100 | 37,800 | 24.0 | 218 | | | | |
| 1946 | 48,900 | 48,900 | 12,800 | 27,200 | 47,700 | 25.7 | 214 | | | | |
| 1947 | 53,000 | 53,000 | 15,700 | 34,300 | 52,600 | 28.0 | 204 | | | | |
| 1948 | 41,300 | 41,300 | 14,800 | 28,800 | 45,900 | 34.6 | 234 | | | | |
| 1949 | 34,900 | 34,900 | 10,200 | 639 | 44,600 | 36.9 | 253 | | | | |
| 1950 | 52,200 | 52,200 | 36,700 | 466 | 88,500 | | | | | | |
| 1950 | 52,200 | 52,200 | <i>5</i> 6,/00 | 466 | 88,500 | 38.9 | 263 | 61,30 | | | |

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

| | | | | | November 6, | | | |
|------|------------|-----------|---------|---------|-------------|------------|------------|------------|
| | | | 101711 | | Apparent | Unit value | Unit value | World |
| Year | Production | Shinments | Imports | Exports | consumption | (\$/t) | (98\$/t) | production |
| 1951 | 53,700 | 53,700 | 23,300 | 610 | 76,200 | 40.9 | 256 | • |
| 1952 | 49,300 | 49,300 | 13,000 | 33,900 | 60,800 | 38.8 | 238 | 67,500 |
| 1953 | 48,000 | 48,000 | 11,500 | 52,400 | 60,000 | 42.3 | 258 | 57,100 |
| 1954 | 52,300 | 52,300 | 6,300 | 49,200 | 60,700 | 42.4 | 257 | 61,300 |
| 1955 | 59,300 | 56,800 | 9,690 | 61,600 | 72,200 | 45.6 | 278 | 73,600 |
| 1956 | 57,500 | 55,900 | 12,600 | 66,900 | 74,000 | 49.2 | 295 | |
| 1957 | 62,100 | 56,300 | 16,100 | 68,300 | 84,300 | 46.7 | 272 | 71,200 |
| 1958 | 53,300 | 48,900 | 12,700 | 12,300 | 73,400 | 50.3 | 284 | |
| 1959 | 59,100 | 54,300 | 17,100 | 11,400 | 84,500 | 56.2 | 314 | |
| 1960 | 62,100 | 56,800 | 15,800 | 10,900 | 87,800 | 55.9 | 307 | 70,200 |
| 1961 | 57,400 | 52,000 | 14,400 | 11,600 | 83,200 | 55.2 | 302 | 64,700 |
| 1962 | 62,300 | 54,100 | 23,100 | 10,800 | 91,200 | 55.6 | 301 | 66,000 |
| 1963 | 69,000 | 58,200 | 29,400 | 12,400 | 86,100 | 45.0 | 239 | 75,100 |
| 1964 | 69,900 | 64,300 | 18,700 | 13,800 | 74,800 | 45.8 | 241 | 78,100 |
| 1965 | 77,500 | 71,800 | 18,400 | 11,900 | 83,900 | 46.2 | 239 | 87,500 |
| 1966 | 73,500 | 68,700 | 39,000 | 14,900 | 97,700 | 48.9 | 246 | |
| 1967 | 66,800 | 57,800 | 16,300 | 12,700 | 70,500 | 50.6 | 247 | 76,600 |
| 1968 | 80,400 | 67,700 | 35,400 | 18,400 | 97,500 | 48.5 | 228 | |
| 1969 | 79,800 | 66,700 | 20,900 | 14,500 | 86,200 | 46.6 | 207 | 86,600 |
| 1970 | 64,600 | 58,100 | 13,600 | 15,500 | 70,900 | 47.6 | 200 | 71,900 |
| 1971 | 71,700 | 62,600 | 10,900 | 9,590 | 81,500 | 57.3 | 230 | 165,000 |
| 1972 | 85,300 | 70,900 | 4,540 | 10,000 | 91,300 | 47.9 | 187 | 180,000 |
| 1973 | 97,900 | 84,700 | 12,700 | 16,200 | 105,000 | 47.9 | 176 | 205,000 |
| 1974 | 82,300 | 80,900 | 18,100 | 18,000 | 89,900 | 54.3 | 179 | 248,000 |
| 1975 | 78,900 | 64,500 | 6,350 | 9,690 | 85,500 | 57.4 | 174 | 159,000 |
| 1976 | 115,000 | 106,000 | 7,260 | 15,300 | 123,000 | 54.9 | 157 | 199,000 |
| 1977 | 116,000 | 107,000 | 12,700 | 17,600 | 123,000 | 57.5 | 155 | 196,000 |
| 1978 | 126,000 | 104,000 | 14,400 | 8,690 | 131,000 | 60.4 | 151 | 151,000 |
| 1979 | 126,000 | 106,000 | 19,900 | 4,460 | 141,000 | 61.8 | 139 | 159,000 |
| 1980 | 111,000 | 90,600 | 10,800 | 14,400 | 118,000 | 71.9 | 142 | 189,000 |
| 1981 | 99,600 | 83,400 | 12,300 | 16,200 | 104,000 | 88.8 | 159 | 171,000 |
| 1982 | 104,000 | 83,300 | 6,410 | 4,730 | 105,000 | 89.5 | 151 | 160,000 |
| 1983 | 102,000 | 94,200 | 8,920 | 4,450 | 106,000 | 103 | 168 | 146,000 |
| 1984 | 114,000 | 97,500 | 25,200 | 1,820 | 138,000 | 115 | 181 | 151,000 |
| 1985 | 110,000 | 99,100 | 28,700 | 884 | 138,000 | 107 | 162 | 142,000 |
| 1986 | 110,000 | 101,000 | 9,400 | 1,140 | 118,000 | 126 | 187 | 127,000 |
| 1987 | 107,000 | 98,400 | 16,800 | 1,520 | 122,000 | 137 | 196 | 117,000 |
| 1988 | 103,000 | 95,300 | 32,200 | 1,580 | 133,000 | 140 | 193 | 129,000 |
| 1989 | 106,000 | 89,600 | 24,000 | 12,400 | 117,000 | 138 | 182 | 136,000 |
| 1990 | 98,100 | 81,100 | 38,000 | 13,100 | 123,000 | 171 | 213 | 98,100 |
| 1991 | 90,900 | 73,900 | 30,000 | 12,600 | 108,000 | 179 | 215 | |
| 1992 | 86,700 | 76,500 | 41,000 | 17,100 | 111,000 | 184 | 214 | |
| 1993 | 94,500 | 78,600 | 57,000 | 13,100 | 138,000 | 199 | 225 | 124,000 |
| 1994 | 89,000 | 82,800 | | | 89,000 | 134 | 147 | |
| 1995 | 80,200 | 80,500 | | | 80,200 | 134 | 143 | |
| 1996 | 98,900 | 80,000 | | | 98,900 | 231 | 240 | |
| 1997 | 82,100 | | | | 82,100 | 203 | 206 | |
| 1998 | 80,200 | | | | 80,200 | 213 | 213 | |
| 1999 | 85,600 | | | | 85,600 | 238 | 233 | |
| 2000 | 72,600 | | | | 72,600 | 221 | 210 | |
| 2001 | 61,200 | | | | 61,200 | 249 | 229 | |

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

Last modification: November 6, 2008

| | 2450 111041110111 1 (0 / 211101 0) 2000 | | | | | | | | | |
|------|--|------------------|---------|---------|-------------|-----------------|------------|------------|--|--|
| | TOTAL NATURAL ABRASIVES | | | | | | | | | |
| | | | | | Apparent | Unit value | Unit value | World | | |
| Year | Production | Shipments | Imports | Exports | consumption | (\$/t) | (98\$/t) | production | | |
| 2002 | 67,300 | | | | 67,300 | 250 | 227 | | | |
| 2003 | 69,900 | | | | 69,900 | 258 | 228 | | | |
| 2004 | 94,200 | | | | 94,200 | 207 | 179 | | | |
| 2005 | 91,300 | | | | 91,300 | 207 | 172 | | | |
| 2006 | 76,200 | | | | 76,200 | 242 | 202 | | | |
| 2007 | 96,600 | | | | 96,600 | 191 | 150 | | | |

¹Compiled by T.D. Kelly (retired), T.P. Dolley, and D.W. Olson.

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

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$\begin{array}{c} \textbf{NATURAL ABRASIVES STATISTICS}^1 \\ \textbf{U.S. GEOLOGICAL SURVEY} \end{array}$

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

| | Last modification: November 6, 2008 CORUNDUM AND EMERY NATURAL ABRASIVES | | | | | | | | | | |
|------|--|----------|------------|-----------|---------------|-----------|------------|---------|----------|----------|----------|
| | | | COI | NUNDUM A | IND EMIEK | 1 IVATUKA | L ADKASI V | LO | | | 1 |
| | | Corundum | | Corundum | | | Corundum | | | Corundum | |
| | Corundum | | Emery | and emery | Emery | Corundum | and emery | Emery | Corundum | | |
| Vear | production | • | · | shipments | | imports | imports | imports | exports | exports | exports |
| 1900 | production | 3,910 | production | 3,910 | Simplificates | imports | 11,900 | Imports | caports | CAPOTES | caports |
| 1901 | | 3,910 | | 3,910 | | | 13,100 | | | | |
| 1902 | | 3,860 | | 3,860 | | | 8,030 | | | | |
| 1903 | | 4,120 | | 4,120 | | | 12,700 | | | | |
| 1904 | | 1,740 | | 1,740 | | | 8,200 | | | | |
| 1905 | | 1,930 | | 1,930 | | | 12,700 | | | | |
| 1906 | | 1,050 | | 1,050 | | | 16,200 | | | | |
| 1907 | | , | 970 | , | 970 | | 13,400 | | | | |
| 1908 | | | 607 | | 607 | | 9,000 | | | | |
| 1909 | | | 1,430 | | 1,430 | | 11,200 | | | | |
| 1910 | | | 933 | | 933 | | 30,500 | | | | |
| 1911 | | | 598 | | 598 | | 11,600 | | | | |
| 1912 | | | 900 | | 900 | | 17,600 | | | | |
| 1913 | | | 868 | | 868 | | 18,500 | | | | |
| 1914 | | | 440 | | 440 | | 13,900 | | | | |
| 1915 | | | 2,780 | | 2,780 | | 9,180 | | | | |
| 1916 | | | 13,900 | | 13,900 | | 8,510 | | | | |
| 1917 | 744 | | 15,500 | | 15,500 | | 2,070 | | | | |
| 1918 | | | 9,460 | | 9,460 | | 8,660 | | | | |
| 1919 | | | 2,360 | | 2,360 | | 11,800 | | | | |
| 1920 | | | 2,110 | | 2,110 | | 9,160 | | | | |
| 1921 | | | 277 | | 277 | | 6,950 | | | | |
| 1922 | | | 1,330 | | 1,330 | | 5,560 | | | | |
| 1923 | | | 2,070 | | 2,070 | | 11,700 | | | | |
| 1924 | | | 1,990 | | 1,990 | 3,020 | 50 | 6,600 | | | |
| 1925 | | | 698 | | 698 | 1,500 | 122 | 7,000 | | | |
| 1926 | | | 350 | | 350 | 4,910 | 394 | 4,310 | | | |
| 1927 | | | 459 | | 459 | 1,150 | 105 | 4,180 | | | |
| 1928 | | | 1,220 | | 1,220 | 1,420 | 154 | 4,920 | | | |
| 1929 | | | 838 | | 838 | 3,430 | 395 | 5,810 | | | |
| 1930 | | | 503 | | 503 | 2,740 | 272 | 3,860 | | | |
| 1931 | | | 464 | | 464 | 650 | 57 | 2,140 | | | |
| 1932 | | | 227 | | 227 | 171 | 10 | 611 | | | |
| 1933 | | | 958 | | 958 | 940 | 22 | 636 | | | <u> </u> |

NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

| | CORUNDUM AND EMERY NATURAL ABRASIVES | | | | | | | | | | |
|------|--------------------------------------|------------|-------------------|--------------------|------------------|----------------------|----------------------------------|----------------------|----------|---------|---------|
| Vasa | Corundum production | • | Emery | Corundum and emery | Emery | Corundum | Corundum and emery imports | Emery | Corundum | | Emery |
| 1934 | production | production | production 171 | snipments | shipments 171 | imports 1,980 | Imports 42 | imports 3,110 | exports | exports | exports |
| 1934 | | | | | 160 | 4,590 | 52 | 4,360 | | | |
| 1935 | | | 160 295 | | 295 | 4,350 | 177 | 5,640 | | | |
| 1930 | | | 293 | | 293 | 1,890 | 149 | 4,860 | | | |
| 1937 | | | 0 | | 290 | | 30 | 4,860 | | | |
| 1938 | | | 694 | | 694 | 1,780 | 59 | 1,990 | | | |
| 1939 | | | 949 | | 949 | 2,650 | 61 | 5,190 | | | |
| 1940 | | | 4,420 | | 4,420 | 5,320 | 47 | 3,190 | | | |
| 1941 | | | 4,790 | | 4,420 | 4,300 | 56 | 0 | | 2,900 | 411 |
| 1942 | | | 6,050 | | 6,050 | 5,160 | 111 | 0 | | 1,050 | 327 |
| 1944 | | | 6,300 | | 6,300 | 5,810 | 33 | 0 | | 272 | 338 |
| 1945 | | | 7,130 | | 7,130 | 5,660 | 34 | 0 | | 113 | 148 |
| 1946 | | | 5,610 | | 5,610 | 3,820 | 53 | 2,320 | | 196 | 240 |
| 1947 | | | 5,260 | | 5,260 | 2,180 | 52 | 2,820 | | 204 | 248 |
| 1948 | | | 4,900 | | 4,900 | 3,280 | 57 | 1,000 | | 58 | 126 |
| 1949 | | | 4,450 | | 4,450 | 1,830 | 2 | 1,380 | | | |
| 1950 | | | 5,400 | | 5,400 | 3,210 | 10 | 1,570 | | | |
| 1951 | | | 10,600 | | 10,600 | 4,310 | 9 | 2,580 | | | |
| 1952 | | | 9,390 | | 9,390 | 4,150 | 12 | 5 | 142 | | 693 |
| 1953 | | | 9,580 | | 9,580 | 2,430 | 30 | 9 | 216 | | 1,030 |
| 1954 | | | 8,850 | | 8,850 | 1,010 | 220 | 517 | 137 | | 1,180 |
| 1955 | | | 9,740 | | 9,740 | 1,270 | 513 | 793 | 141 | | 1,270 |
| 1956 | | | 11,000 | | 11,000 | 1,690 | 435 | 1,820 | 225 | | 1,760 |
| 1957 | | | 10,800 | | 10,800 | 3,720 | 655 | 1,240 | 189 | | 1,060 |
| 1958 | | | 6,970 | | 6,970 | 4,250 | 469 | 55 | 151 | | 1,000 |
| 1959 | | | 7,760 | | 7,760 | 3,030 | 8 | 1,080 | 83 | | 1,240 |
| 1960 | | | 7,410 | _ | 7,410 | 2,410 | 4 | 0 | 49 | | 1,030 |
| 1961 | | | 5,610 | | 5,610 | 2,170 | 15 | 1,020 | 87 | | 1,050 |
| 1962 | | | 3,920 | | 3,920 | 2,200 | 51 | 2,030 | 99 | | 747 |
| 1963 | | | 6,110 | | 6,110 | 1,850 | | 508 | 68 | | 575 |
| 1964 | | | 8,360 | | 8,360 | 1,790 | | | 140 | | 622 |
| 1965 | | | 9,730 | | 9,730 | 1,810 | | | | | |
| 1966 | | | 10,100 | | 10,100 | 2,720 | | | | | |
| 1967 | | | | | | 1,810 | | | | | |

NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

| | CORUNDUM AND EMERY NATURAL ABRASIVES | | | | | | | | | | |
|------|--------------------------------------|------------|------------|--------------------|-------|--------|----------------------------------|---------|---------------------|----------------------------------|----------------------|
| Year | Corundum production | | Emery | Corundum and emery | Emery | | Corundum and emery imports | | Corundum exports | Corundum and emery exports | Emery exports |
| 1968 | production | production | Production | | ыршы | 5,440 | 111110110 | mpor us | СПРОТОВ | cupor us | ULP 01 US |
| 1969 | | | | | | 0,1.10 | | | | | |
| 1970 | | | | | | 0 | | | | | |
| 1971 | | | 1,440 | | | 0 | | | | | |
| 1972 | | | 2,620 | | | 0 | | | | | |
| 1973 | | | 2,620 | | | 907 | | | | | |
| 1974 | | | 2,290 | | | 1,810 | | | | | |
| 1975 | | | 3,160 | | | 907 | | | | | |
| 1976 | | | ĺ | | | 1,810 | | | | | |
| 1977 | | | | | | 1,810 | | | | | |
| 1978 | | | | | | 441 | | | | | |
| 1979 | | | 9,080 | | | 4,540 | | | | | |
| 1980 | | | | | | 0 | | | | | |
| 1981 | | | | | | 0 | | | | | |
| 1982 | | | | | | | | | | | |
| 1983 | | | | | | | | | | | |
| 1984 | | | | | | | | | | | |
| 1985 | | | | | | | | | | | |
| 1986 | | | 2,610 | | | | | | | | |
| 1987 | | | 1,760 | | | | | | | | |
| 1988 | | | 869 | | | | | | | | |
| 1989 | | | | | | | | | | | |
| 1990 | | | | | | | | | | | |
| 1991 | | | | | | | | | | | |
| 1992 | | | | | | | | | | | |
| 1993 | | | | | | | | | | | |
| 1994 | | | | | | | | | | | |
| 1995 | | | | | | | | | | | |
| 1996 | | | | | | | | | | | |
| 1997 | | | | | | | | | | | |
| 1998 | | | | | | | | | | | |
| 1999 | | | | | | | | | | | |
| 2000 | | | | | | | | | | | |
| 2001 | | | | | | | | | | | |

NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

| | CORUNDUM AND EMERY NATURAL ABRASIVES | | | | | | | | | | |
|------|--------------------------------------|--------------------|------------|--------------------|-----------|---------|---------|---------|----------|--------------------|---------|
| | Corundum | Corundum and emery | Emery | Corundum and emery | Emery | | | Emery | Corundum | Corundum and emery | |
| Year | production | production | production | shipments | shipments | imports | imports | imports | exports | exports | exports |
| 2002 | | | | | | | | | | | |
| 2003 | | | | | | | | | | | |
| 2004 | | | | | | | | | | | |
| 2005 | | | | | | | | | | | |
| 2006 | | | | | | | | | | | |
| 2007 | | | | | | | | | | | |

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NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

| | CORUNDUM AND EMERY NATURAL ABRASIVES | | | | | | | | | | |
|------|--------------------------------------|-----------|-------------|------------|------------|--------|----------|----------|----------|------------|------------|
| | | Corundum | | ORUNDUN | Corundum | | | Corundum | | | |
| | Corundum | and emery | Emery | Corundum | and emery | Emery | Corundum | | Emery | Corundum | Emery |
| | apparent | apparent | apparent | unit value | unit value | | | • | - | | world |
| Year | | | consumption | (\$/t) | (\$/t) | (\$/t) | (98\$/t) | (98\$/t) | (98\$/t) | production | |
| 1900 | consumption | 15,800 | consumption | (ψ/ υ) | 26 | · · / | (304,6) | 510 | (ΣΟΨ/Ε) | production | production |
| 1901 | | 17,000 | | | 37 | | | 720 | | | |
| 1902 | | 11,900 | | | 27 | | | 510 | | | |
| 1903 | | 16,800 | | | 16 | | | 290 | | | |
| 1904 | | 9,940 | | | 33 | | | 600 | | | |
| 1905 | | 14,600 | | | 32 | | | 580 | | | |
| 1906 | | 17,200 | | | 42 | | | 760 | | | |
| 1907 | | 13,400 | 970 | | | 13 | | | 230 | | |
| 1908 | | 9,000 | 607 | | | 14 | | | 250 | | |
| 1909 | | 11,200 | 1,430 | | | 13 | | | 230 | | |
| 1910 | | 30,500 | 933 | | | 16 | | | 280 | | |
| 1911 | | 11,600 | 598 | | | 11 | | | 190 | | |
| 1912 | | 17,600 | 900 | | | 7 | | | 120 | | |
| 1913 | | 18,500 | 868 | | | 6 | | | 98.8 | 2,580 | 48,900 |
| 1914 | | 13,900 | 440 | | | 6 | | | 97.8 | 1,180 | 35,900 |
| 1915 | | 9,180 | 2,780 | | | 11 | | | 178 | 690 | 17,200 |
| 1916 | | 8,510 | 13,900 | | | 9 | | | 140 | 3,560 | 33,800 |
| 1917 | 744 | 2,070 | 15,500 | 91 | | 16 | 1,160 | | 204 | 6,140 | 31,300 |
| 1918 | | 8,660 | 9,460 | | | 12 | | | 130 | 5,860 | 22,100 |
| 1919 | | 11,800 | 2,360 | | | 10 | | | 94.2 | 1,690 | 12,500 |
| 1920 | | 9,160 | 2,110 | | | 10 | | | 81.5 | 1,210 | 14,000 |
| 1921 | | 6,950 | 277 | | | 8 | | | 72.8 | 835 | 13,800 |
| 1922 | | 5,560 | 1,330 | | | 13 | | | 126 | 2,020 | 14,800 |
| 1923 | | 11,700 | 2,070 | | | 14 | | | 133 | 2,980 | 24,100 |
| 1924 | 3,020 | 50 | 8,590 | | | 10 | | | 95.3 | 1,880 | 25,300 |
| 1925 | 1,500 | 122 | 7,700 | | | 8 | | | 74.5 | 1,910 | 28,000 |
| 1926 | 4,910 | 394 | 4,660 | | | 10 | | | 92.1 | 5,600 | 32,000 |
| 1927 | 1,150 | 105 | 4,640 | | | 13 | | | 121 | | |
| 1928 | 1,420 | 154 | 6,140 | | | 14 | | | 133 | | 10,000 |
| 1929 | 3,430 | 395 | 6,650 | | | 13 | | | 124 | | |
| 1930 | 2,740 | 272 | 4,360 | | | 12 | | | 118 | | |
| 1931 | 650 | 57 | 2,600 | | | 12 | | | 129 | | |
| 1932 | 171 | 10 | 838 | | | 12 | | | 143 | | |
| 1933 | 940 | 22 | 1,590 | | | 13 | | | 163 | | |

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NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

| | CORUNDUM AND EMERY NATURAL ABRASIVES | | | | | | | | | | |
|------|--------------------------------------|-------------|-------------|-----------------|-----------------|--------|-----------|-----------|------------|------------|------------|
| | | Corundum | | | Corundum | | I | Corundum | | | |
| | Corundum | and emery | Emery | Corundum | and emery | Emery | Corundum | and emery | Emery | Corundum | Emery |
| | apparent | apparent | apparent | unit value | unit value | - | | • | unit value | | world |
| Year | consumption | consumption | consumption | (\$/t) | (\$/t) | (\$/t) | (98\$/t) | (98\$/t) | (98\$/t) | production | production |
| 1934 | 1,980 | 42 | 3,280 | (11-1) | (11-1) | 11 | (- 1 - 7 | (| 134 | | |
| 1935 | 4,590 | 52 | 4,520 | | | 10 | | | 119 | | |
| 1936 | 4,350 | 177 | 5,940 | | | 10 | | | 117 | | |
| 1937 | 1,890 | 149 | 5,150 | | | 10 | | | 113 | 2,300 | |
| 1938 | 1,900 | 30 | 433 | | | 10 | | | 113 | 1,540 | |
| 1939 | 1,780 | 59 | 2,680 | | | 10 | | | 117 | 2,460 | |
| 1940 | 2,650 | 61 | 6,140 | | | 10 | | | 116 | 3,910 | |
| 1941 | 5,320 | 47 | 4,420 | | | 10 | | | 111 | 6,210 | |
| 1942 | 4,300 | 41 | 4,380 | | | 10 | | | 100 | 7,030 | |
| 1943 | 5,160 | 36 | 5,720 | | | 11 | | | 104 | 5,630 | |
| 1944 | 5,810 | 30 | 5,960 | | | 10 | | | 92.6 | 5,700 | |
| 1945 | 5,660 | 25 | 6,980 | | | 11 | | | 100 | 10,000 | |
| 1946 | 3,820 | 19 | 7,700 | | | 11 | | | 91.9 | 8,000 | |
| 1947 | 2,180 | 13 | 7,830 | | | 13 | | | 95.0 | 8,000 | |
| 1948 | 3,280 | 8 | 5,780 | | | 14 | | | 94.7 | 8,000 | |
| 1949 | 1,830 | 2 | 5,830 | | | 14 | | | 95.9 | 9,000 | |
| 1950 | 3,210 | 10 | 6,970 | | | 14 | | | 94.7 | 9,070 | |
| 1951 | 4,310 | 9 | 13,100 | | | 15 | | | 94.0 | 9,980 | 7,360 |
| 1952 | 4,010 | 12 | 8,700 | | | 15 | | | 92.3 | 9,980 | 8,240 |
| 1953 | 2,210 | 30 | 8,560 | | | 15 | | | 91.6 | 9,070 | |
| 1954 | 868 | 220 | 8,190 | | | 15 | | | 90.9 | 9,070 | |
| 1955 | 1,130 | 513 | 9,260 | | | 16 | | | 97.3 | 7,260 | 7,080 |
| 1956 | 1,460 | 435 | 11,100 | | | 16 | | | 95.9 | 9,980 | 12,000 |
| 1957 | 3,530 | 655 | 11,000 | | | 17 | | | 98.6 | 9,070 | |
| 1958 | 4,100 | 469 | 6,030 | | | 18 | | | 102 | 9,980 | |
| 1959 | 2,940 | 8 | 7,610 | | | 19 | | | 106 | 7,260 | |
| 1960 | 2,360 | 4 | 6,390 | | | 19 | | | 104 | 8,170 | |
| 1961 | 2,090 | 15 | 5,570 | | | 19 | | | 104 | 7,260 | |
| 1962 | 2,110 | 51 | 5,200 | | | 18 | | | 97.1 | 3,660 | |
| 1963 | 1,780 | | 6,040 | | | 20 | | | 106 | 6,120 | |
| 1964 | 1,650 | | 7,740 | | | 21 | | | 111 | 8,190 | |
| 1965 | 1,810 | | 9,730 | | | 21 | | | 109 | 9,960 | |
| 1966 | 2,720 | | 10,100 | | | 21 | | | 106 | 9,910 | |
| 1967 | 1,810 | | 0 | | | | | | | 9,790 | |

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NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

| | | | • | CORUNDUM | modificatio | | | SIVES | | | |
|------|-------------|-------------|----------|------------|-------------|--------|------------|----------|----------|------------|------------|
| | | Corundum | <u>_</u> | OKUNDUN | Corundum | | KAL ADKA | Corundum | | | |
| | Corundum | and emery | Emery | Corundum | and emery | | Corundum | | Emery | Corundum | Emery |
| | apparent | apparent | apparent | unit value | | | unit value | | | | world |
| Year | consumption | | | (\$/t) | (\$/t) | (\$/t) | (98\$/t) | (98\$/t) | (98\$/t) | production | |
| 1968 | 5,440 | consumption | 0 | · · / | (ψ/ ε) | (ψ/ ε) | (ΣΟΨ/Ε) | (304,6) | (ΣΟΨ/Ε) | 6,570 | production |
| 1969 | 0 | | 0 | | | | | | | 6,790 | |
| 1970 | 0 | | 0 | | | | | | | 7,250 | |
| 1971 | 0 | | 1,440 | | | | | | | 7,060 | 86,200 |
| 1972 | 0 | | 2,620 | | | | | | | 7,670 | 86,800 |
| 1973 | 907 | | 2,620 | | | | | | | 7,820 | 99,300 |
| 1974 | 1,810 | | 2,290 | | | | | | | 7,900 | 158,000 |
| 1975 | 907 | | 3,160 | | | | | | | 8,500 | 71,100 |
| 1976 | 1,810 | | 0 | | | | | | | 12,600 | 71,400 |
| 1977 | 1,810 | | 0 | | | | | | | 14,700 | 65,500 |
| 1978 | 441 | | 0 | | | | | | | 17,200 | 8,130 |
| 1979 | 4,540 | | 9,080 | | | 23 | | | 51.6 | 26,400 | 6,530 |
| 1980 | 0 | | 0 | | | | | | | 29,100 | 49,000 |
| 1981 | 0 | | 0 | | | | | | | 22,400 | 49,100 |
| 1982 | | | 0 | | | | | | | 18,800 | 38,000 |
| 1983 | | | 0 | | | | | | | 14,600 | 29,900 |
| 1984 | | | 0 | | | | | | | 9,220 | 28,100 |
| 1985 | | | 0 | | | | | | | 9,260 | 23,400 |
| 1986 | | | 2,610 | | | | | | | 9,220 | 7,500 |
| 1987 | | | 1,760 | | | | | | | | 9,970 |
| 1988 | | | 869 | | | | | | | | 26,800 |
| 1989 | | | | | | | | | | | 29,500 |
| 1990 | | | | | | | | | | | |
| 1991 | | | | | | | | | | | 35,500 |
| 1992 | | | | | | | | | | | 30,000 |
| 1993 | | | | | | | | | | | 30,000 |
| 1994 | | | | | | | | | | | |
| 1995 | | | | | | | | | | | |
| 1996 | | | | | | | | | | | |
| 1997 | | | | | | | | | | | |
| 1998 | | | | | | | | | | | |
| 1999 | | | | | | | | | | | |
| 2000 | | | | | | | | | | | |
| 2001 | | | | | | | | | | | |

NATURAL ABRASIVES STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

Last modification: November 6, 2008

| | Last modification: 110 temper 0, 2000 | | | | | | | | | | |
|------|---------------------------------------|-------------|-------------|-----------------|-----------------|-----------------|------------|------------|------------|------------|------------|
| | | | C | CORUNDUM | I AND EME | RY NATU | RAL ABRA | SIVES | | | |
| | | Corundum | | | Corundum | | | Corundum | | | |
| | Corundum | and emery | Emery | Corundum | and emery | Emery | Corundum | and emery | Emery | Corundum | Emery |
| | apparent | apparent | apparent | unit value | unit value | unit value | unit value | unit value | unit value | world | world |
| Year | consumption | consumption | consumption | (\$/t) | (\$/t) | (\$/t) | (98\$/t) | (98\$/t) | (98\$/t) | production | production |
| 2002 | | | | | | | | | | | |
| 2003 | | | | | | | | | | | |
| 2004 | | | | | | | | | | | |
| 2005 | | | | | | | | | | | |
| 2006 | | | | | | | | | | | |
| 2007 | | | | | | | | | | | |

¹Compiled by T.D. Kelly (retired), T.P. Dolley, and D.W. Olson.

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

NATURAL ABRASIVES STATISTICS 1 U.S. GEOLOGICAL SURVEY

[All values in metric tons (t) natural abrasives unless otherwise noted] Last modification: November 6, 2008

| Last modification: November 6, 2008 OTHER NATURAL ABRASIVES | | | | | | | | | |
|---|-----------------|---------|----------------------|--|--|--|--|--|--|
| | | | | | | | | | |
| Year | Imports | Exports | Apparent consumption | | | | | | |
| 1924 | 229 | | 229 | | | | | | |
| 1925 | 175 | | 175 | | | | | | |
| 1926 | 963 | | 963 | | | | | | |
| 1927 | 1,260 | | 1,260 | | | | | | |
| 1928 | 2,410 | | 2,410 | | | | | | |
| 1929 | 3,090 | | 3,090 | | | | | | |
| 1930 | 4,970 | | 4,970 | | | | | | |
| 1931 | 3,740 | | 3,740 | | | | | | |
| 1932 | 1,940 | | 1,940 | | | | | | |
| 1933 | 3,780 | | 3,780 | | | | | | |
| 1934 | 1,480 | | 1,480 | | | | | | |
| 1935 | 1,490 | | 1,490 | | | | | | |
| 1936 | 536 | | 536 | | | | | | |
| 1937 | 846 | | 846 | | | | | | |
| 1938 | 455 | | 455 | | | | | | |
| 1939 | 203 | | 203 | | | | | | |
| 1940 | 208 | | 208 | | | | | | |
| 1941 | 391 | | 391 | | | | | | |
| 1942 | 213 | | 213 | | | | | | |
| 1943 | 86 | | 86 | | | | | | |
| 1944 | 26 | | 26 | | | | | | |
| 1945 | 46 | | 46 | | | | | | |
| 1946 | 86 | | 86 | | | | | | |
| 1947 | 77 | | 77 | | | | | | |
| 1948 | 2 | | 2 | | | | | | |
| 1949 | 0 | | 0 | | | | | | |
| 1950 | 1 | | 1 | | | | | | |
| 1951 | 11 | | 11 | | | | | | |
| 1952 | 1,490 | 32,600 | 1,290 | | | | | | |
| 1953 | 340 | 50,600 | 2,570 | | | | | | |
| 1954 | 4 | 47,500 | 3,850 | | | | | | |
| 1955 | 29 | 59,600 | 5,130 | | | | | | |
| 1956 | 9 | 64,500 | 6,410 | | | | | | |
| 1957 | 20 | 66,700 | | | | | | | |
| 1958 | 72 | 10,800 | | | | | | | |
| 1959 | 245 | 9,550 | 8,970 | | | | | | |
| 1960 | 194 | 9,330 | 10,200 11,500 | | | | | | |
| 1961 | 194 | | 12,800 | | | | | | |
| | | 10,300 | | | | | | | |
| 1962 1963 | 7,390 27,000 | 9,720 | 14,100 15,400 | | | | | | |
| | | 11,600 | 15,400 | | | | | | |
| 1964 | 16,900 | 12,700 | 4,160 | | | | | | |
| 1965 | 16,600 | 11,900 | 4,610 | | | | | | |
| 1966 | 35,400 | 14,900 | 20,500 | | | | | | |
| 1967 | 14,500 | 12,700 | 1,800 | | | | | | |
| 1968 | 29,900 | 18,400 | 11,600 | | | | | | |
| 1969 | 20,900 | 14,500 | 6,360 | | | | | | |
| 1970 | 13,600 | 15,500 | 6,240 | | | | | | |
| 1971 | 7,260 | 9,590 | 6,130 | | | | | | |
| 1972 | 4,540 | 10,000 | 6,010 | | | | | | |
| 1973 | 11,800 | 16,200 | 5,890 | | | | | | |
| 1974 | 16,300 | 18,000 | 5,770 | | | | | | |
| 1975 | 5,440 | 9,690 | 5,650 | | | | | | |

[All values in metric tons (t) natural abrasives unless otherwise noted] Last modification: November 6, 2008

| OTHER NATURAL ABRASIVES | | | | | | | | |
|-------------------------|---------|---------|----------------------|--|--|--|--|--|
| Year | Imports | Exports | Apparent consumption | | | | | |
| 1976 | 5,440 | 15,300 | 5,540 | | | | | |
| 1977 | 10,900 | 17,600 | 5,420 | | | | | |
| 1978 | 14,000 | 8,690 | 5,300 | | | | | |
| 1979 | 15,400 | 4,460 | 10,900 | | | | | |
| 1980 | 10,800 | 14,400 | 7,840 | | | | | |
| 1981 | 12,300 | 16,200 | 4,760 | | | | | |
| 1982 | 6,410 | 4,730 | 1,690 | | | | | |
| 1983 | 8,920 | 4,450 | 4,470 | | | | | |
| 1984 | 25,200 | 1,820 | 23,400 | | | | | |
| 1985 | 28,700 | 884 | 27,800 | | | | | |
| 1986 | 9,400 | 1,140 | 8,260 | | | | | |
| 1987 | 15,900 | 1,520 | 14,400 | | | | | |
| 1988 | 32,200 | 1,580 | 30,600 | | | | | |
| 1989 | 24,000 | 12,400 | 11,600 | | | | | |
| 1990 | 38,000 | 13,100 | 24,900 | | | | | |
| 1991 | 30,000 | 12,600 | 17,400 | | | | | |
| 1992 | 41,000 | 17,100 | 23,900 | | | | | |
| 1993 | 57,000 | 13,100 | 43,900 | | | | | |
| 1994 | | | | | | | | |
| 1995 | | | | | | | | |
| 1996 | | | | | | | | |
| 1997 | | | | | | | | |
| 1998 | | | | | | | | |
| 1999 | | | | | | | | |
| 2000 | | | | | | | | |
| 2001 | | | | | | | | |
| 2002 | | | | | | | | |
| 2003 | | | | | | | | |
| 2004 | | | | | | | | |
| 2005 | | | | | | | | |
| 2006 | | | | | | | | |
| 2007 | | | | | | | | |

¹Compiled by T.D. Kelly (retired), T.P. Dolley, and D.W. Olson. Data are either calculated, or reported. See notes for more information.

NATURAL ABRASIVES STATISTICS 1 U.S. GEOLOGICAL SURVEY

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

| | Last modification: November 6, 2008 SPECIAL SILICA STONE STATISTICS | | | | | | | | |
|--------------|---|------------------|---------|---------|------------------|----------------------|-----------------|------------------|--|
| | Apparent Unit value Unit value World | | | | | | | | |
| Vacu | Due de etien | Ch: | T | E | | | | | |
| | | Snipments | imports | Exports | consumption | (\$/t) 24.9 | (98\$/t) 490 | production | |
| 1900 | 502 | | | | 502 | 24.9 | 490 | | |
| 1901 | | | | | | | | | |
| 1902 1903 | | | | | | | | | |
| | 16,000 | | | | 16,000 | 10.5 | 100 | | |
| 1904 1905 | 16,000 | | | | 16,000 24,800 | 10.5 11.2 | 190 | | |
| 1903 | 24,800 | | | | 24,800 | 11.2 | 202 | | |
| 1906 | | | | | | | | | |
| 1907 | | | | | | | | | |
| 1908 | | | | | | | | | |
| 1909 | | | | | | | | | |
| 1910 | | | | | | | | | |
| 1911 | | | | | | | | | |
| 1912 | | | | | | | | 45 200 | |
| 1913 | 43,800 | 43,800 | | | 43,800 | 19.5 | 318 | 45,200 58,000 | |
| 1914 | 38,700 | 38,700 | | | 38,700 | 19.5 | 318 | | |
| 1913 | · · · · · · · · · · · · · · · · · · · | | | | 51,900 | 19.7 | | 53,800 | |
| 1916 | 51,900 64,700 | 51,900 64,700 | | | 64,700 | 22.4 | 278 285 | 73,300 | |
| 1917 | 71,500 | 71,500 | | | 71,500 | 29.3 | 316 | | |
| 1918 | 52,400 | 52,400 | | | 52,400 | 31.6 | 298 | 91,800 | |
| 1920 | 59,500 | 59,500 | 24,200 | | 83,600 | 33.9 | 276 | · | |
| 1920 | 25,500 | 25,500 | 9,150 | | 34,700 | 55.4 | 505 | 77,700 | |
| 1921 | 27,900 | 27,900 | 14,600 | | 42,400 | 44.8 | 435 | 77,700 | |
| 1923 | 47,500 | 47,500 | 14,500 | | 62,000 | 41.5 | 396 | | |
| 1924 | 37,900 | 37,900 | 18,800 | | 56,700 | 51.8 | 494 | 105,000 | |
| 1925 | 38,200 | 38,200 | 17,500 | | 55,700 | 53.1 | 495 | 108,000 | |
| 1926 | 41,900 | 41,900 | 16,400 | | 58,300 | 52.0 | 479 | 82,200 | |
| 1927 | 33,000 | 33,000 | 16,300 | | 49,200 | 55.7 | 522 | 02,200 | |
| 1928 | 36,700 | 36,700 | 16,100 | | 52,900 | 49.7 | 474 | | |
| 1929 | 30,100 | 30,100 | 14,900 | | 45,000 | 50.4 | 480 | | |
| 1930 | 20,700 | 20,700 | 7,240 | | 27,900 | 46.3 | 452 | | |
| 1931 | 10,100 | 10,100 | 6,400 | | 16,500 | 44.7 | 479 | | |
| 1932 | 8,140 | | | | 11,900 | 39.9 | | | |
| 1933 | 16,800 | | | | 21,400 | 35.1 | 440 | | |
| 1934 | 11,800 | 11,800 | | | 16,900 | 47.2 | 574 | | |
| 1935 | 13,600 | 13,600 | 8,610 | | 22,200 | 44.8 | 533 | | |
| 1936 | 12,600 | 12,600 | 9,830 | | 22,500 | 49.0 | 575 | | |
| 1937 | 13,900 | 13,900 | 13,100 | | 27,100 | 49.2 | 557 | | |
| 1938 | 6,090 | 6,090 | | | 14,200 | 60.8 | 703 | | |
| 1939 | 10,000 | 10,000 | 11,700 | | 21,800 | 54.1 | 634 | | |
| 1940 | 12,100 | 12,100 | 3,220 | | 15,300 | 41.1 | 479 | | |
| 1941 | 29,500 | 29,500 | 1,830 | | 31,300 | 27.9 | 309 | | |
| 1942 | 29,700 | 29,700 | 832 | 15,700 | 14,900 | 28.1 | 281 | | |
| 1943 | 22,800 | 22,800 | 726 | 17,600 | 5,930 | 30.3 | 286 | | |
| 1944 | 17,600 | 17,600 | 941 | 22,200 | 7,230 | 32.2 | 298 | | |
| 1945 | 18,700 | 18,700 | 1,460 | 26,900 | 8,520 | 34.6 | 313 | | |
| 1946 | 17,000 | 17,000 | 6,550 | 26,800 | 9,820 | 38.4 | 321 | | |
| 1947 | 16,400 | 16,400 | 10,600 | 33,800 | 11,100 | 39.4 | 288 | | |
| 1948 | 12,000 | 12,000 | 10,500 | 28,600 | 12,400 | 45.5 | 308 | | |
| 1949 | 7,300 | 7,300 | 7,010 | 639 | 13,700 | 49.0 | 336 | | |
| 1950 | 7,180 | 7,180 | 31,900 | 466 | 38,600 | 48.5 | 328 | | |

NATURAL ABRASIVES STATISTICS 1 U.S. GEOLOGICAL SURVEY

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

| Last modification: November 6, 2008 SPECIAL SILICA STONE STATISTICS | | | | | | | | | |
|---|--------------------------------------|----------------|---------|---------|----------------|------------|--------------|------------|--|
| | Apparent Unit value Unit value World | | | | | | | | |
| Voor | Draduation | Chinmonta | Importa | Evnorta | consumption | (\$/t) | (98\$/t) | production | |
| 1951 | 9,110 | 9,110 | 16,400 | 610 | 24,800 | 52.4 | 329 | production | |
| 1951 | 7,730 | | 7,340 | 443 | 14,600 | 52.4 | 329 | | |
| 1952 | 5,620 | | 8,680 | 464 | 13,800 | 60.2 | 368 | | |
| 1954 | 5,640 | 5,640 | 4,560 | 383 | 9,820 | 57.2 | 347 | | |
| 1955 | 4,470 | 4,470 | 7,080 | 506 | 11,100 | 59.0 | 359 | | |
| 1956 | 5,610 | | 8,610 | 447 | 13,800 | 73.3 | 439 | | |
| 1957 | 5,300 | | 10,500 | 388 | 15,400 | 62.4 | 362 | | |
| 1958 | 3,650 | | 7,840 | 347 | 11,100 | 83.6 | 472 | | |
| 1959 | 3,330 | | 12,800 | 518 | 15,600 | 94.6 | 530 | | |
| 1960 | 2,300 | | 13,200 | 459 | 15,100 | 105 | 578 | | |
| 1961 | 2,360 | 2,360 | 11,000 | 203 | 13,100 | 105 | 572 | | |
| 1961 | 2,200 | 2,200 | 11,500 | 193 | 13,700 | 103 | 583 | | |
| 1962 | 2,440 | 2,440 | 35 | 100 | 2,380 | 108 | 554 | | |
| 1964 | 2,890 | 2,890 | 0 | 285 | | 104 | | | |
| 1964 | 3,270 | | 0 | 265 | 2,610 3,270 | 132 | 531 683 | | |
| 1965 | 3,450 | 3,450 | 907 | | 4,360 | 132 | 750 | | |
| 1966 | | | 907 | | | 234 | | | |
| 1967 | 2,450 2,850 | 2,450 2,850 | 0 | | 2,450 | 234 | 1,142 | | |
| 1968 | 3,000 | | 0 | | 2,850 | 200 | 1,035 | | |
| 1969 | 2,840 | 3,000 | 0 | | 3,000 2,840 | 234 | 888 983 | | |
| | | 2,840 | | | | | | | |
| 1971 | 2,130 2,940 | 2,130 2,940 | 3,630 | | 5,760 2,940 | 264 228 | 1,062 889 | | |
| 1972 1973 | 3,140 | 3,140 | 0 | | 3,140 | 212 | 778 | | |
| 1973 | 2,840 | 2,840 | 0 | | 2,840 | 252 | 833 | | |
| 1974 | 2,680 | 2,680 | 0 | | 2,680 | 396 | 1,200 | | |
| 1975 | 2,450 | 2,450 | 0 | | 2,450 | 574 | 1,644 | | |
| 1976 | 2,430 | 2,430 | 0 | | 2,430 | 556 | 1,644 | | |
| 1977 | 612 | 612 | 0 | | 612 | 538 | 1,493 | | |
| 1978 | 539 | 539 | 0 | | 539 | 519 | 1,165 | | |
| 1980 | 572 | 572 | 0 | | 572 | 501 | 991 | | |
| 1981 | 2,270 | 474 | 0 | | 2,270 | 483 | 866 | | |
| 1982 | 1,170 | 647 | 0 | | 1,170 | 474 | 801 | | |
| 1983 | | | | | 999 | | 789 | | |
| 1984 | 1,170 | | 0 | | 1,170 | 515 | 808 | | |
| 1985 | 1,050 | 402 | 0 | | 1,050 | 490 | 742 | | |
| 1985 | 973 | | | | 973 | 515 | 766 | | |
| 1987 | 1,380 | 598 | | | 2,290 | 355 | 509 | | |
| 1988 | 1,890 | 371 | 0 | | 1,890 | 299 | 412 | | |
| 1989 | 898 | | 0 | | 898 | 164 | 216 | | |
| 1989 | 3,710 | | | | 3,710 | 61.9 | 77.2 | | |
| 1990 | 2,210 | | | | 2,210 | 72.9 | 87.2 | | |
| 1991 | 1,730 | | | | 1,730 | 138 | 160 | | |
| 1992 | 528 | 267 | | | 528 | 456 | 513 | | |
| 1993 | 328 | 487 | | | 328 | 674 | 741 | | |
| 1994 | 501 | 419 | | | 501 | 539 | 577 | | |
| 1996 | 854 | 419 | | | 854 | 260 | 270 | | |
| 1990 | 843 | 445 | | | 843 | 266 | 270 | | |
| 1998 | 649 | 438 | | | 649 | 284 | 284 | | |
| 1999 | 697 | 475 | | | 697 | 263 | 257 | | |
| 2000 | 553 | 312 | | | 553 | 286 | 270 | | |
| 2000 | 705 | | | | 705 | 332 | 305 | | |
| ∠001 | /03 | 393 | | | | 332 | 303 | | |

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

Last modification: November 6, 2008

| | East modification: 1(0) ember 0, 2000 | | | | | | | | | |
|------|---------------------------------------|------------------|----------------|----------------|-------------|-----------------|----------|------------|--|--|
| | SPECIAL SILICA STONE STATISTICS | | | | | | | | | |
| | Apparent Unit value Unit value | | | | | World | | | | |
| Year | Production | Shipments | Imports | Exports | consumption | (\$/t) | (98\$/t) | production | | |
| 2002 | 748 | 386 | | | 748 | 321 | 291 | | | |
| 2003 | 1,070 | 513 | | | 1,070 | 293 | 259 | | | |
| 2004 | 227 | 655 | | | 227 | 581 | 502 | | | |
| 2005 | 193 | 576 | | | 193 | 989 | 825 | | | |
| 2006 | 227 | 328 | | | 227 | 4,370 | 3,533 | | | |
| 2007 | 231 | 508 | | | 231 | 4,415 | 3,470 | | | |

Compiled by T.D. Kelly (retired), T.P. Dolley, and D.W. Olson.

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

[All values in metric tons (t) natural abrasives unless otherwise noted] Last modification: November 6, 2008

| Last modification: November 6, 2008 TRIPOLI STATISTICS | | | | | | | | | |
|--|------------------------------------|-----------|-------------|--------|----------|------------|--|--|--|
| | Apparent Unit value Unit value Wor | | | | | | | | |
| Year | Production | Shipments | consumption | (\$/t) | (98\$/t) | production | | | |
| 1913 | 18,900 | 18,900 | 18,900 | 11.5 | 189 | 19,500 | | | |
| 1913 | 15,600 | 15,600 | 15,600 | 9.50 | 155 | 16,200 | | | |
| 1914 | 27,900 | 27,900 | 27,900 | 4.63 | 74.7 | 28,100 | | | |
| 1915 | 39,200 | 39,200 | 39,200 | 5.48 | 81.9 | 39,800 | | | |
| 1917 | 23,600 | 23,600 | 23,600 | 14.3 | 182 | 24,200 | | | |
| 1917 | 18,100 | 18,100 | 18,100 | 11.0 | 119 | 18,600 | | | |
| 1919 | 22,000 | 22,000 | 22,000 | 8.24 | 77.6 | 22,700 | | | |
| 1920 | 36,500 | 36,500 | 36,500 | 15.6 | 127 | 37,400 | | | |
| 1921 | 11,200 | 11,200 | 11,200 | 19.0 | 173 | 12,000 | | | |
| 1922 | 27,400 | 27,400 | 27,400 | 11.6 | 113 | 27,900 | | | |
| 1923 | 24,600 | 24,600 | 24,600 | 15.6 | 149 | 25,500 | | | |
| 1924 | 25,800 | 25,800 | 25,800 | 15.1 | 144 | 26,300 | | | |
| 1925 | 26,700 | 26,700 | 26,700 | 16.3 | 152 | 27,500 | | | |
| 1926 | 28,500 | 28,500 | 28,500 | 18.4 | 169 | 29,300 | | | |
| 1927 | 23,700 | 23,700 | 23,700 | 18.9 | 177 | 27,500 | | | |
| 1928 | 30,900 | 30,900 | 30,900 | 18.0 | 177 | | | | |
| 1929 | 34,500 | 34,500 | 34,500 | 15.8 | 151 | | | | |
| 1930 | 29,400 | 29,400 | 29,400 | 17.3 | 169 | | | | |
| 1931 | 24,200 | 24,200 | 24,200 | 12.8 | 137 | | | | |
| 1932 | 13,400 | 13,400 | 13,400 | 17.4 | 207 | | | | |
| 1933 | 18,900 | 18,900 | 18,900 | 18.5 | 232 | | | | |
| 1934 | 18,600 | 18,600 | 18,600 | 17.7 | 215 | | | | |
| 1935 | 24,800 | 24,800 | 24,800 | 15.4 | 183 | | | | |
| 1936 | 25,800 | 25,800 | 25,800 | 15.2 | 178 | | | | |
| 1937 | 31,700 | 31,700 | 31,700 | 14.2 | 161 | | | | |
| 1938 | 20,100 | 20,100 | 20,100 | 16.4 | 190 | | | | |
| 1939 | 30,400 | 30,400 | 30,400 | 15.4 | 181 | | | | |
| 1940 | 27,400 | 27,400 | 27,400 | 13.4 | 156 | | | | |
| 1941 | 26,600 | 26,600 | 26,600 | 15.9 | 176 | | | | |
| 1942 | 15,900 | 15,900 | 15,900 | 17.1 | 171 | | | | |
| 1943 | 13,500 | 13,500 | 13,500 | 18.1 | 171 | | | | |
| 1944 | 16,700 | 16,700 | 16,700 | 18.1 | 168 | | | | |
| 1945 | 16,600 | 16,600 | 16,600 | 18.5 | 168 | | | | |
| 1946 | 26,300 | 26,300 | 26,300 | 20.9 | 175 | | | | |
| 1947 | 31,400 | 31,400 | 31,400 | 24.0 | 175 | | | | |
| 1948 | 24,400 | 24,400 | 24,400 | 29.0 | 196 | | | | |
| 1949 | 23,200 | 23,200 | 23,200 | 29.8 | 204 | | | | |
| 1950 | 39,700 | 39,700 | 39,700 | 29.6 | 200 | | | | |
| 1951 | 34,000 | 34,000 | 34,000 | 32.5 | 204 | | | | |
| 1952 | 32,200 | 32,200 | 32,200 | 32.4 | 199 | | | | |
| 1953 | 32,800 | 32,800 | 32,800 | 34.7 | 212 | | | | |
| 1954 | 37,800 | 37,800 | 37,800 | 38.6 | 234 | | | | |
| 1955 | 45,100 | 42,600 | 45,100 | 42.3 | 257 | | | | |
| 1956 | 40,800 | 39,300 | 40,800 | 41.1 | 246 | | | | |
| 1957 | 46,000 | 40,200 | 46,000 | 41.4 | 240 | | | | |
| 1958 | 42,700 | 38,200 | 42,700 | 41.7 | 235 | | | | |
| 1959 | 48,100 | 43,200 | 48,100 | 43.7 | 245 | | | | |
| 1960 | 52,400 | 47,100 | 52,400 | 41.7 | 230 | | | | |
| 1961 | 49,600 | 44,100 | 49,600 | 42.0 | 229 | | | | |
| 1962 | 56,000 | 47,800 | 56,000 | 42.8 | 231 | | | | |
| 1963 | 60,500 | 49,700 | 60,500 | 42.7 | 227 | | | | |

[All values in metric tons (t) natural abrasives unless otherwise noted] Last modification: November 6, 2008

| | TRIPOLI STATISTICS | | | | | | | | | |
|--------------|--------------------------------|------------------|-------------------|-----------------|------------|------------|--|--|--|--|
| | Apparent Unit value Unit value | | | | | | | | | |
| Year | Production | Shipments | consumption | (\$/t) | (98\$/t) | production | | | | |
| 1964 | 58,600 | 53,100 | 58,600 | 43.3 | 228 | | | | | |
| 1965 | 64,500 | 58,800 | 64,500 | 41.9 | 217 | | | | | |
| 1966 | 60,000 | 55,200 | 60,000 | 41.6 | 209 | | | | | |
| 1967 | 64,400 | 55,300 | 64,400 | 43.6 | 213 | | | | | |
| 1968 | 77,600 | 64,800 | 77,600 | 42.2 | 198 | | | | | |
| 1969 | 76,800 | 63,700 | 76,800 | 40.6 | 180 | | | | | |
| 1970 | 61,800 | 55,300 | 61,800 | 39.0 | 164 | | | | | |
| 1971 | 68,200 | 60,500 | 68,200 | 39.8 | 160 | | | | | |
| 1972 | 79,700 | 67,900 | 79,700 | 41.3 | 161 | | | | | |
| 1973 | 92,100 | 81,600 | 92,100 | 42.3 | 155 | | | | | |
| 1974 | 77,200 | 78,000 | 77,200 | 47.0 | 155 | | | | | |
| 1975 | 73,100 | 61,900 | 73,100 | 45.0 | 136 | | | | | |
| 1976 | 113,000 | 104,000 | 113,000 | 43.6 | 125 | | | | | |
| 1977 | 114,000 | 105,000 | 114,000 | 48.8 | 131 | | | | | |
| 1978 | 125,000 | 104,000 | 125,000 | 58.1 | 145 | | | | | |
| 1979 | 116,000 | 105,000 | 116,000 | 59.7 | 134 | | | | | |
| 1980 | 110,000 | 90,000 | 110,000 | 69.7 | 138 | | | | | |
| 1981 1982 | 97,400 | 82,900 | 97,400 102,000 | 79.6 85.1 | 143 144 | | | | | |
| 1982 | 102,000 101,000 | 82,700 93,600 | 102,000 | 99.1 | 162 | | | | | |
| 1984 | 113,000 | 96,800 | 113,000 | 111 | 174 | | | | | |
| 1985 | 109,000 | 98,700 | 109,000 | 103 | 156 | | | | | |
| 1986 | 106,000 | 100,000 | 106,000 | 122 | 181 | | | | | |
| 1987 | 104,000 | 97,800 | 104,000 | 132 | 189 | | | | | |
| 1988 | 99,900 | 95,000 | 99,900 | 137 | 189 | | | | | |
| 1989 | 105,000 | 89,300 | 105,000 | 138 | 181 | | | | | |
| 1990 | 94,400 | 80,600 | 94,400 | 175 | 218 | | | | | |
| 1991 | 88,600 | 73,600 | 88,600 | 182 | 218 | | | | | |
| 1992 | 84,900 | 76,200 | 84,900 | 185 | 215 | | | | | |
| 1993 | 93,900 | 78,300 | 93,900 | 198 | 223 | | | | | |
| 1994 | 88,700 | 82,300 | 88,700 | 132 | 145 | | | | | |
| 1995 | 79,700 | 80,100 | 79,700 | 131 | 140 | | | | | |
| 1996 | 98,000 | 79,600 | 98,000 | 231 | 240 | | | | | |
| 1997 | 81,300 | | 81,300 | 202 | 205 | | | | | |
| 1998 | 79,600 | | 79,600 | 212 | 212 | | | | | |
| 1999 | 84,900 | | 84,900 | 238 | 233 | | | | | |
| 2000 | 72,000 | | 72,000 | 221 | 210 | | | | | |
| 2001 | 60,500 | | 60,500 | 249 | 229 | | | | | |
| 2002 | 66,600 | | 66,600 | 250 | 227 | | | | | |
| 2003 | 68,800 | | 68,800 | 258 | 228 | | | | | |
| 2004 | 94,000 | | 94,000 | 207 | 179 | | | | | |
| 2005 | 91,100 | | 91,100 | 205 | 171 | | | | | |
| 2006 | 76,000 | | 76,000 | 230 | 186 | | | | | |
| 2007 | 96,400 | | 96,400 | 180 | 141 | | | | | |

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Natural Abrasives Worksheet Notes

Data Sources

Sources of data for the natural abrasives 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 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.

Corundum and Emery

Corundum and emery data were reported separately for some years and combined for some years. The column headings on the corundum and emery worksheet indicate the manner in which the data were reported. Blank cells in the worksheet indicate that data either were not available or were withheld from publication because they are proprietary. All data from 1989 to the most recent were withheld from publication because they are proprietary.

Production

Corundum production datum for the year 1917 represents the total quantity of corundum that was produced in the United States. Production data for the years 1943–44 were withheld because they were proprietary.

Corundum and emery production data for the years 1900–06 represent the total quantities of combined corundum and emery that were produced annually in the United States.

Emery production data for the years 1907–88 represent the total quantities of emery that were produced annually in the United States. For the years 1967–70, 1976–78, and 1980–84, production data were withheld because they are proprietary.

Imports

Corundum import data for the years 1924–81 represent the total quantities of crude corundum ore and ground corundum grains that were imported into the United States for consumption purposes.

Corundum and emery import data for the years 1900–23 represent the total quantities of corundum and emery that were imported into the United States for consumption purposes. Corundum and emery import data for the years 1924–62 represent the summed quantities of corundum and emery that were imported into the United States for consumption purposes but were not delineated separately as either a corundum or emery import.

Emery import data for the years 1924–63 represent the total quantities of crude emery ore, ground emery grains, and emery wheels and files that were imported into the United States for consumption purposes.

Exports

Corundum export data for the years 1952–64 represent the total quantities of corundum that were exported from the United States to foreign recipients.

Corundum and emery export data for the years 1942–48 represent the summed quantities of corundum and emery that were exported from the United States to foreign recipients but were not delineated separately as either a corundum or emery export.

Emery export data for the years 1942–64 represent the total quantities of emery that were exported from the United States to foreign recipients.

Apparent Consumption

Apparent consumption data for corundum for the years 1917 and 1924–81 represent the total estimated quantities of corundum that were consumed annually within the United States. Apparent consumption data for corundum for the years 1917 and 1924–81 were estimated by using the following formula:

APPARENT CONSUMPTION = PRODUCTION + IMPORTS – EXPORTS.

Apparent consumption data for corundum and emery for the years 1900–62 represent the total estimated summed quantities of corundum and emery that were consumed annually within the United States. Apparent consumption data for corundum and emery for the years 1900–62 were estimated by using the following formula:

$APPARENT\ CONSUMPTION = PRODUCTION + IMPORTS - EXPORTS.$

For the years 1942–48, estimates of apparent consumption yielded negative values. To better estimate apparent consumption for these years, apparent consumption data were interpolated from the apparent consumption data series.

Apparent consumption data for emery for the years 1907–88 represent the total estimated quantities of emery that were consumed annually within the United States. Apparent consumption data for emery for the years 1907–88 were estimated by using the following formula:

APPARENT CONSUMPTION = PRODUCTION + IMPORTS – EXPORTS.

Unit Value (\$/t)

Unit value datum for corundum for the year 1917 was estimated by dividing the total value of domestically produced corundum by the total quantity of domestically produced corundum.

Unit value data for corundum and emery for the years 1900–06 were estimated by dividing the total value of domestically produced corundum and emery by the total quantity of domestically produced corundum and emery.

Unit value data for emery for the years 1907–66 and 1979 were estimated by dividing the total value of domestically produced emery by the total quantity of domestically produced emery. For the years 1967–70, 1976–78, and 1980–84, production data were withheld because they are proprietary. For the years 1971–75 and 1985–88, unit value could not be estimated because production value was not available.

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 corundum for the years 1913–26 include U.S. production data. World production data for corundum for the years 1937–86 do not include U.S. production data.

World production data for emery for the years 1913–26 include U.S. production data. World production data for emery for the years 1928, 1951–52, 1955–56, 1971–89, and 1991–93 do not include U.S. production data.

Other Natural Abrasives

Imports

Import data for other (miscellaneous) natural abrasives for the years 1924–93 represent the total summed quantities of burrstones, corundum, diatomaceous earth, emery, flint, garnet, rottenstone, tripoli, and other natural abrasive materials that were imported into the United States for consumption purposes, but were not delineated separately as individual commodities. Data from 1994 to the most recent were withheld from publication because they are proprietary.

Exports

Export data for other miscellaneous natural abrasives for the years 1952–93 represent the total summed quantities of corundum, diatomaceous earth, emery, pumice, and other natural abrasive materials that were exported from the United States, but were not delineated separately as individual commodities. Data from 1994 to the most recent were withheld from publication because they are proprietary.

Apparent Consumption

Apparent consumption data for other miscellaneous natural abrasives for the years 1924–93 represent the total estimated quantities of various miscellaneous natural abrasives that were consumed annually within the United States. Apparent consumption data for various miscellaneous natural abrasives were estimated by using the following formula:

APPARENT CONSUMPTION = IMPORTS - EXPORTS.

For the years 1952–62, 1970–77, and 1980–81, estimates of apparent consumption yielded negative statistical values. To better estimate apparent consumption for these years, apparent consumption data were interpolated from the apparent consumption data series. Data from 1994 to the most recent were withheld from publication because they are proprietary.

Special Silica Stone

Production

Special silica stone production data for the years 1900, 1904–05, and 1914 to the most recent represent the total quantities of special silica stones that were produced annually in the United States. For the years 1914–80, domestic production was equal to domestic shipments. In the year 1978, a shift in reporting production occurred. Grinding pebbles and tube mill liners were eliminated from the survey forms. Prior to 1978, production data included grinding pebbles, grind stones, tube mill liners, and whetstones.

Shipments

Special silica stone shipment data for the years 1914 to the most recent represent the total quantities of special silica stones that were shipped to domestic recipients. For the years 1914–80, domestic production was equal to domestic shipments. In the year 1978, a shift in reporting production occurred. Grinding pebbles and tube mill liners were eliminated from the survey forms. Prior to 1978, shipment data included grinding pebbles, grind stones, tube mill liners, and whetstones.

Imports

Special silica stone import data for the years 1920–88 represent the total quantities of special silica stones that were imported into the United States for consumption purposes.

Exports

Special silica stone export data for the years 1942–64 represent the total quantities of special silica stones that were exported from the United States to foreign recipients.

Apparent Consumption

Apparent consumption data for special silica stones for the years 1900, 1904–05, and 1914 to the most recent represent the total estimated quantities of special silica stones that were consumed annually within the United States. Apparent consumption data for special silica stones for the years 1900, 1904–05, and 1914 to the most recent were estimated by using the following formula:

APPARENT CONSUMPTION = PRODUCTION + IMPORTS – EXPORTS.

For the years 1944–48, estimates of apparent consumption yielded negative statistical values. To better estimate apparent consumption for these years, apparent consumption data were interpolated from the apparent consumption data series.

Unit Value (\$/t)

Unit value data for special silica stones for the years 1900, 1904–05, and 1914 to the most recent were estimated by dividing the total value of domestically produced special silica stones by the total quantity of domestically produced special silica stones. For the years 1978–80 80, the MYB reports quantity and value for finished products which causes a large increase in reported value. The unit value data, for the years 1978–80, were interpolated to make the data series more uniform. The noticeable decline in value, for the years 1990–91, was caused by the entry into bankruptcy of one of the major producers of special silica stone.

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 special silica stones for the years 1913-26 includes U.S. production data.

Tripoli

Production

Tripoli production data for the years 1913–2002 represent the total quantities of tripoli that were produced annually in the United States. For the years 1913–54, domestic production was equal to domestic shipments.

Shipments

Tripoli shipment data for the years 1913–96 represent the total quantities of tripoli that were shipped to domestic recipients. For the years 1913–54, domestic production was equal to domestic shipments. For the years 1997 to the most recent, shipments data were not available.

Apparent Consumption

Apparent consumption data for tripoli for the years 1913 to the most recent represent the total estimated quantities of tripoli that were consumed annually within the United States. Apparent consumption data for tripoli for the years 1913 to the most recent were estimated by using the following formula:

APPARENT CONSUMPTION = PRODUCTION.

Unit Value (\$/t)

Unit value data for tripoli for the years 1913–96 were estimated by dividing the total value of tripoli shipments by the total quantity of tripoli shipments. For the years 1997 to the most recent unit value was estimated by dividing total value of tripoli production by the total quantity of tripoli production.

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 tripoli for the years 1913–26 includes U.S. production data.

Total Natural Abrasives

Production

Production data for the years 1900 to the most recent were recorded from the MR and the MYB. Production data for the years 1900 to the most recent represent the total summed quantities of corundum, emery, special silica stones, and tripoli that were produced annually in the United States.

Imports

Import data for the years 1900–93 were recorded from the MR and the MYB. Import data for the years 1900–93 represent the total summed quantities of corundum, emery, special silica stones, and other miscellaneous natural abrasives that were imported into the United States for consumption purposes.

Exports

Export data for the years 1942–93 were recorded from the MYB. Export data for the years 1942–93 represent the total summed quantities of corundum, emery, special silica stones, and other miscellaneous natural abrasives that were exported from the United States to foreign recipients.

Apparent Consumption

Apparent consumption data for the years 1900 to the most recent represent the total estimated quantities of natural abrasives that were consumed annually in the United States. Apparent consumption was estimated by summing the estimated apparent consumptions for corundum and emery, other natural abrasives, special silica stone, and tripoli.

Unit value (\$/t)

Unit value data is defined as the value of 1 metric ton (t) of natural abrasives apparent consumption. Unit value data for the years 1914–2002 were estimated as the weight-averaged value special silica stone and tripoli.

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 1913–93 were recorded from the MR and the MYB. World production data for the years 1913–2000 represent the total summed quantities of corundum, emery, special silica stones, and tripoli that were produced annually throughout the world. For the years 1913–26, U.S. production was included as a constituent of the reported world production data for corundum, emery, special silica stone products, and tripoli. For the years 1927–93, U.S. production was not included as a constituent of the reported world production data for corundum, emery, special silica stone products, and tripoli in the MR and MYB statistics. Therefore, for the years 1927–93, total U.S. production data were added to the total world production data of corundum, emery, special silica stone products, and tripoli presented in the natural abrasives table.

References

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