IRON OXIDE PIGMENTS STATISTICS¹ U.S. GEOLOGICAL SURVEY [All values in metric tons (t) iron oxide unless otherwise noted]

Last modification: November 14, 2008 World Unit value Unit value Apparent Production **Imports** Exports consumption (\$/t) (98\$/t) Year production 1900 38,700 4,980 44,000 330 17 1901 5.100 36.000 21 30.600 410 1902 32,900 39,000 23 6,100 430 1903 34,700 6,310 41,000 16 290 1904 40,100 5,900 46,000 14 250 250 1905 37.300 6,790 44.000 14 1906 40,300 7,410 48,000 14 250 1907 40.300 7.980 48,000 15 260 1908 41,100 6,090 47,000 13 230 1909 31,300 8,720 40,000 18 330 1910 38,200 8,660 47,000 16 280 1911 34,800 7,830 43,000 16 280 1912 40,300 10,900 51,000 250 15 1913 44.000 11.400 55,000 13 210 1914 41,800 17,100 59,000 15 240 1915 290 56,000 18 1916 58,000 20 300 1917 59.000 23 290 1918 60,000 25 270 1919 28 61,000 260 1920 31 250 63,000 1921 33 64,000 300 1922 65,000 36 350 1923 66,000 38 360 1924 41 390 68,000 1925 44 69,000 410 1926 70.000 46 420 1927 71,000 49 460 1928 51 73,000 490 1929 74,000 54 510 1930 75,000 56 550 1931 76,000 59 630 1932 78,000 62 740 1933 79,000 64 800 1934 80,000 67 820 1935 81,000 69 820 1936 72 83,000 840 1937 84,000 75 850 1938 85,000 77 890 1939 80 940 18,500 4,950 86,000 1940 14,000 4,720 88,000 82 950 8,100 1941 89,000 85 940 4,480 1942 3.290 88.300 3.990 89.000 88 876 1943 90,900 1,320 3,960 88,300 88 824 1944 88,000 3,050 4,680 86,400 90 834 1945 94 91,600 5,500 4,730 92.400 849 1946 104.000 9,380 5,520 108,000 93 780 1947 105,000 7,070 6,910 105,000 105 767 1948 101,000 4,470 6,290 99,200 107 724 1949 3,750 5,850 92,500 753 94.600 110

121,000

123,000

122

126

825

790

1950

1951

117,000

115,000

8,320

12,700

5,050

4,220

IRON OXIDE PIGMENTS STATISTICS¹ U.S. GEOLOGICAL SURVEY [All values in metric tons (t) iron oxide unless otherwise noted] Last modification: November 14, 2008

Last modification: November 14, 2008											
				Apparent		Unit value					
Year	Production	Imports	Exports	consumption	(\$/t)	(98 \$/t)	production				
1952	95,500	7,980	3,510	99,900	135	830					
1953	98,300	9,980	3,810	105,000	139	849					
1954	88,900	9,710	3,270	95,300	150	909					
1955	105,000	12,700	4,260	113,000	159	967					
1956	103,000	11,900	4,630	111,000	159	953					
1957	95,200	11,900	3,360	104,000	166	963					
1958	89,300	10,600	3,540		170	959					
1959	107,000	13,400	3,900	116,000	171	958					
1960	96,200	13,200	3,900	105,000	177	975					
1961	96,600	9,530	2,900	103,000	183	998					
1962	103,000	11,900	3,450		184	993					
1963	108,000	12,400	3,810	116,000	188	1,000					
1964	108,000	14,800	4,630		201	1,060					
1965	116,000	16,200	4,260								
1966	119,000	22,300	4,350		199						
1967	116,000	21,200	2,810	134,000	219	1,070					
1968	120,000	27,200	2,720								
1969	130,000	29,900	3,630	156,000	232						
1970	113,000	29,700	4,170	138,000	238	,					
1971	116,000	33,100	3,610	146,000	249	1,000					
1972	138,000	42,900	3,870	177,000							
1973	135,000	46,400	8,970								
1974	134,000	49,200	8,770			1,390					
1975	95,100	-	7,970			,					
1976	123,000	-	5,270								
1977	128,000	53,300	5,890								
1978	138,000		6,410								
1979	142,000	50,200	4,400								
1980	114,000	35,800	4,580	145,000	682	1,350					
1981	116,000	36,000	4,510	148,000							
1982	95,200	23,500	8,220								
1983	112,000	27,900									
1984	118,000	34,700	29,400	123,000		1,490					
1985	115,000		27,000								
1986	116,000	33,400				1,470					
1987	124,000	38,400	20,200	143,000	966						
1988	127,000	38,900	22,000	144,000			281,000				
1989	128,000	36,700	9,970								
1990	125,000	34,100	9,540			1,380					
1991	117,000	34,700	20,600			1,360					
1992	121,000	45,100	21,100			1,300	244,000				
1993	126,000	43,600				1,310					
1994	139,000	51,400				1,180	239,000				
1995	151,000	59,300	17,500	193,000	1,130	1,210	337,000				
1996	163,000	59,600	16,000	207,000	1,150	1,190					
1997	176,000	66,700	16,600	226,000		1,080					
1998	180,000	63,800	14,600	229,000		1,000					
1999	183,000	80,800	13,800	250,000		959	559,000				
2000	154,000	91,300	9,640	236,000	892	844	511,000				
2000	135,000	89,900	9,100		920	847	598,000				
2001	115,000	132,000	6,270	241,000	864	783	635,000				
2002	90,000	132,000	4,500	241,000	807	785					

IRON OXIDE PIGMENTS STATISTICS¹ U.S. GEOLOGICAL SURVEY Il values in metric tons (t) iron oxide unless otherwise

Last mounication. November 14, 2008											
				Apparent	Unit value	Unit value	World				
Year	Production	Imports	Exports	consumption	(\$/t)	(98 \$/t)	production				
2004	85,000	170,000	3,120	252,000	757	653	796,000				
2005	90,000	193,000	2,220	281,000	825	689	854,000				
2006	70,000	199,000	3,100	266,000	849	686	773,000				
2007	50,000	178,000	5,410	223,000	893	702	826,000				

[All values in metric tons (t) iron oxide unless otherwise noted] Last modification: November 14, 2008

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

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

Iron Oxide Pigments Worksheet Notes

Data Sources

The sources of data for the iron oxide pigments 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 were not available.

Production

Production statistics represent ocher, umber, sienna, and metallic paints from the MR for the years 1900–14. For the years 1942 to the most recent, production statistics represent the category, finished products sold, from the MYB. Production statistics were not available for the years 1915–41.

Imports

Import statistics represent ocher, umber, and sienna imported for the years 1900–14. For the years 1939 to the most recent, import statistics represent the sum of natural and synthetic pigments imported for consumption. Data are reported in the MYB. Import statistics were not available for the years 1915–38.

Exports

Export statistics represent the sum of natural and synthetic pigments. Statistics were not available for the years 1900–38. For the years 1939 to the most recent, data are reported in the MYB.

Apparent Consumption

For the years 1900–14, apparent consumption was estimated as equal to production plus imports. For the years 1915–41, apparent consumption was estimated by linear regression using the data from 1900–14 (estimated previously), for those years (1900–41), two significant figures are reported for apparent consumption. Data for the years 1942 to the most recent were estimated by a direct calculation from production, imports, and exports using the following formula.

Unit Value

Unit value is defined as the value of 1 metric ton (t) of iron oxide pigments apparent consumption. Unit value was estimated with the weighted average of production and import tonnage and value for the years 1900–16 and 1942 to the most recent; production and import data are reported in the MYB. For the years 1915–41, unit value was estimated by stepwise linear interpolation. Two significant figures were reported for these years.

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 statistics represent the world mine production of natural iron oxide pigments. Data are not available for the years 1900–75. Data for the years 1976 to the most recent data are reported in the MYB. For the years 1994–95 and 2002 to the most recent, U.S. mine production was withheld because the data were proprietary.

References

U.S. Bureau of Mines, 1940–96, Minerals Yearbook, 1939–94.

- U.S. Geological Survey, 1901-15, Mineral Resources of the United States, 1900-14.
- U.S. Geological Survey, 1997–2008, Minerals Yearbook, v. I, 1995–2007.

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].)

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