PHOSPHATE ROCK STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

Last modification: October 9, 2012

Vear Production Sold or used Imports Exports consumption (\$\frac{8}{1}\) (98\$\frac{8}{1}\) product 1500 1,520,000 1,510,000 NA 630,000 885,000 3.52 69.00 3,000 3,000 1902 1,510,000 1,510,000 NA 815,000 699,000 3.10 58.00 3,120 1903 1,610,000 1,610,000 NA 815,000 699,000 3.31 60.00 3,455 63.00 3,455 63.00 3,870 1905 1,980,000 1,990,000 NA 856,000 1,050,000 3.45 63.00 3,870 1905 1,980,000 1,980,000 NA 950,000 1,030,000 3.42 62.00 3,850 1906 2,110,000 2,410,000 NA 950,000 1,030,000 3.42 62.00 3,850 1906 2,110,000 2,400,000 14,500 1,210,000 1,270,000 4.63 81.00 4,720 1908 2,420,000 2,420,000 14,500 1,210,000 1,230,000 4.72 86.00 5,380 1910 2,700,000 2,700,000 22,100 1,100,000 1,620,000 1,80 32.00 5,430 1911 3,100,000 3,100,000 22,100 1,100,000 1,620,000 1,80 32.00 5,430 1912 3,020,000 3,160,000 17,400 1,390,000 1,80,000 1,80 32.00 5,430 1912 3,020,000 3,160,000 17,400 1,390,000 1,80,000 1,60 27.00 6,730 1913 3,160,000 2,780,000 15,300 980,000 1,80,000 1,64 26.80 5,430 1914 2,780,000 2,780,000 5,400 257,000 1,610,000 2,390 3,850 4,120 1918 2,320,000 2,310,000 3,500 24,800 1,770,000 1,64 26.80 5,430 1919 1,880,000 2,310,000 3,500 24,60,000 2,390 3,350 4,120 1919 1,880,000 2,310,000 3,500 2,380,000 1,790,000 1						Apparent	Unit value	Unit value	World
1902	Year	Production	Sold or used	Imports	Exports	consumption	(\$/t)	(98\$/t)	production
1902 1,510,000 1,510,000 NA 815,000 699,000 3.10 58.00 3.120, 1903 1,610,000 1,610,000 NA 798,000 809,000 3.31 60.00 3,450, 1904 1,910,000 1,900,000 NA 856,000 1,050,000 3.45 63.00 3,870, 1905 1,980,000 1,980,000 NA 950,000 1,030,000 3.42 62.00 3.850, 1906 2,110,000 2,110,000 NA 950,000 1,200,000 4.06 74.00 4,190, 1907 2,300,000 2,300,000 NA 1,930,000 1,200,000 4.06 74.00 4,190, 1908 2,420,000 2,420,000 14,500 1,210,000 1,230,000 4.72 86.00 5,380, 1909 2,380,000 2,380,000 10,100 1,040,000 1,350,000 2,41 44.00 4,950, 1910 2,700,000 2,700,000 2,2100 1,100,000 1,620,000 1.80 32.00 5,430, 1911 3,100,000 3,100,000 16,400 1,270,000 1,850,000 1.52 27.00 5,430, 1911 3,100,000 3,160,000 17,400 1,390,000 1,820,000 1.60 27.00 5,430, 1913 3,160,000 3,160,000 17,400 1,390,000 1,800,000 1.60 27.00 5,430, 1913 3,160,000 1,870,000 2,82 35.90 4,120, 1915 1,970,000 2,300,000 93 169,000 2,460,000 2.82 35.90 4,120, 1918 2,320,000 2,330,000 33 169,000 3,850,0	1900	1,520,000	1,520,000	NA	630,000	885,000	3.54	69.00	3,150,000
1903	1901	1,510,000	1,510,000	NA	741,000	766,000	3.52	69.00	3,000,000
1903	1902	1,510,000	1,510,000	NA	815,000	699,000	3.10	58.00	3,120,000
1905 1,980,000 1,980,000 NA 856,000 1,050,000 3.45 63.00 3.870 1905 1,980,000 1,980,000 NA 950,000 1,030,000 3.42 62.00 3.850 1906 2,110,000 2,110,000 NA 919,000 1,200,000 4.66 74.00 4,190 1907 2,300,000 2,300,000 NA 1,030,000 1,270,000 4.63 81.00 4,720 1908 2,420,000 2,420,000 14,500 1,210,000 1,230,000 4.72 86.00 5,380 1909 2,380,000 2,380,000 10,100 1,040,000 1,350,000 2,41 44.00 4,950 1910 2,700,000 2,700,000 22,100 1,100,000 1,620,000 1.80 32.00 5,340 1911 3,100,000 3,100,000 16,400 1,230,000 1,820,000 1.60 27.00 6,730 1913 3,160,000 3,160,000 17,400 1,390,000 1,820,000 1.60 27.00 6,730 1913 3,160,000 3,700,000 17,400 1,390,000 1,810,000 1.64 26.80 5,420 1915 1,970,000 1,870,000 15,300 980,000 1,810,000 2.09 38.55 4,120 1915 2,900,000 2,630,000 93 169,000 1,610,000 2.39 38.50 4,120 1918 2,230,000 2,530,000 93 169,000 2,460,000 2,282 35.90 4,710 1918 2,320,000 2,530,000 360 745,000 3,800,000 4,71 39.30 4,150 1920 4,040,000 4,170,000 64 1,090,000 3,68 33.50 5,430 1922 2,370,000 2,460,000 6,800 841,000 2,250,000 2,460,000 3,260,000 3,260,000 3,260,000 3,260,000 3,260,000 3,260,000 3,260,000 3,260,000 3,260,000 2,270,000 2,270,000 2,270,000 2,270,000 2,270,000 2,270,000 2,270,000 2,270,000 2,270,000 3,280,000 3,260,000 3,	1903	1,610,000	1,610,000	NA	798,000	809,000		60.00	3,450,000
1905	1904								3,870,000
1906	1905								3,850,000
$\begin{array}{c} 1908 & 2,420,000 & 2,420,000 & 14,500 & 1,210,000 & 1,230,000 & 4.72 & 86.00 & 5,380,\\ 1909 & 2,380,000 & 2,380,000 & 10,100 & 1,040,000 & 1,350,000 & 2.41 & 44.00 & 4.950,\\ 1910 & 2,700,000 & 2,700,000 & 22,100 & 1,100,000 & 1,850,000 & 1.80 & 32.00 & 5,430,\\ 1911 & 3,100,000 & 3,100,000 & 16,400 & 1,270,000 & 1,850,000 & 1.52 & 27.00 & 5,940,\\ 1912 & 3,020,000 & 3,020,000 & 29,300 & 1,230,000 & 1,820,000 & 1.60 & 27.00 & 6,730,\\ 1913 & 3,160,000 & 3,160,000 & 17,400 & 1,390,000 & 1,790,000 & 1.08 & 17.80 & 7,230,\\ 1914 & 2,780,000 & 2,780,000 & 15,300 & 980,000 & 1,810,000 & 1.64 & 26.80 & 5,420,\\ 1915 & 1,970,000 & 1,870,000 & 5,400 & 257,000 & 1,610,000 & 2.39 & 38.50 & 4,120,\\ 1916 & 2,200,000 & 2,010,000 & 4,700 & 248,000 & 1,770,000 & 2.70 & 40.40 & 4,830,\\ 1917 & 2,900,000 & 2,530,000 & 0 & 146,000 & 2,380,000 & 3.06 & 33.00 & 4,190,\\ 1919 & 1,880,000 & 2,310,000 & 35 & 385,000 & 1,920,000 & 4,17 & 39.30 & 4,150,\\ 1920 & 4,040,000 & 4,170,000 & 64 & 1,090,000 & 3,080,000 & 4.17 & 39.30 & 4,150,\\ 1921 & 2,470,000 & 2,140,000 & 3,600 & 745,000 & 1,360,000 & 3.68 & 33.50 & 5,430,\\ 1922 & 2,370,000 & 2,460,000 & 6,800 & 844,000 & 2,730,000 & 2.65 & 25.20 & 7,120,\\ 1924 & 2,890,000 & 2,2460,000 & 6,800 & 844,000 & 2,260,000 & 2.66 & 25.20 & 7,120,\\ 1925 & 3,310,000 & 3,540,000 & 2,800 & 884,000 & 2,660,000 & 2.06 & 25.20 & 7,120,\\ 1926 & 3,650,000 & 3,260,000 & 16,400 & 832,000 & 2,320,000 & 2.64 & 24.20 & 9,380,\\ 1927 & 3,070,000 & 3,560,000 & 16,400 & 832,000 & 2,730,000 & 2.64 & 24.20 & 9,380,\\ 1928 & 3,580,000 & 3,260,000 & 17,700 & 761,000 & 2,520,000 & 2.64 & 24.20 & 9,380,\\ 1929 & 3,880,000 & 3,260,000 & 17,700 & 761,000 & 2,520,000 & 2.64 & 24.20 & 9,380,\\ 1930 & 4,020,000 & 3,990,000 & 3,800 & 1,120,000 & 2,780,000 & 3.15 & 30.90 & 11,800,\\ 1931 & 2,710,000 & 2,580,000 & 13,000 & 2,690,000 & 3.15 & 30.90 & 10,400,\\ 1933 & 3,200,000 & 3,800,000 & 7,800 & 13,200 & 2,600,000 & 2.42 & 28.00 & 12,900,\\ 1933 & 4,300,000 & 3,410,000 & 3,800 & 000 & 1,120,000 & 2,66 & 32.60 & 89.00,\\ 1934 & 4,590,000$									4,190,000
1909	1907	2,300,000	2,300,000	NA	1,030,000	1,270,000	4.63	81.00	4,720,000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1908	2,420,000	2,420,000	14,500	1,210,000	1,230,000	4.72	86.00	5,380,000
1911 3,100,000 3,100,000 16,400 1,270,000 1,850,000 1.52 27.00 5,940, 1912 3,020,000 3,020,000 29,300 1,230,000 1,820,000 1.60 27.00 6,730, 1913 3,160,000 3,160,000 17,400 1,390,000 1,790,000 1.08 17.80 7,230, 1914 2,780,000 2,780,000 15,300 980,000 1,810,000 1.64 26.80 5,420, 1915 1,970,000 1,870,000 5,400 257,000 1,610,000 2.39 38.50 4,120, 1916 2,200,000 2,010,000 4,700 248,000 1,770,000 2.70 40.40 4,830, 1917 2,990,000 2,630,000 93 169,000 2,460,000 2.82 35.90 4,710, 1918 2,320,000 2,530,000 0 146,000 2,380,000 3.06 33.00 4,190, 1919 1,880,000 2,310,000 35 385,000 1,920,000 4.17 39.30 4,150, 1920 4,040,000 4,170,000 64 1,090,000 3,080,000 4.71 38.30 6,870, 1921 2,470,000 2,460,000 6,000 731,000 1,360,000 3.68 33.50 5,430, 1922 2,370,000 2,460,000 6,000 731,000 1,730,000 2.73 26.50 5,940, 1923 2,990,000 3,050,000 6,800 841,000 2,220,000 2.65 25.20 7,120, 1924 2,890,000 2,910,000 16,400 832,000 2,360,000 2.64 24.20 9,380, 1925 3,310,000 3,540,000 2,860 933,000 2,53 204.10 7,780, 1926 3,650,000 3,260,000 17,700 761,000 2,520,000 2.64 24.20 9,380, 1927 3,070,000 3,220,000 2,860 933,000 2,320,000 3.13 30.90 11,800, 1931 2,710,000 2,580,000 33,200 45,600 913,000 2,590,000 3.15 30.90 10,400, 1931 2,710,000 2,580,000 33,000 33,000 2,780,000 3.15 30.90 11,800, 1931 2,710,000 2,580,000 3,800 0,110,000 2,780,000 3.19 34.20 7,860, 1932 1,730,000 3,200,000 3,800 1,200,000 2,780,000 3.19 34.20 7,860, 1933 2,400,000 2,580,000 3,500 0,6	1909	2,380,000	2,380,000	10,100	1,040,000	1,350,000	2.41	44.00	4,950,000
1911 3,100,000 3,100,000 16,400 1,270,000 1,850,000 1.52 27.00 5,940,	1910	2,700,000	2,700,000	22,100	1,100,000	1,620,000	1.80	32.00	5,430,000
$\begin{array}{c} 1912 \\ 3,020,000 \\ 3,020,000 \\ 3,160,000 \\ 3,160,000 \\ 1,7400 \\ 1,390,000 \\ 1,790,000 \\ 1,810,000 \\ 1,810,000 \\ 1,810,000 \\ 1,870,000 \\ 1,870,000 \\ 2,780,000 \\ 1,870,000 \\ 2,100,000 \\ 2,100,000 \\ 2,100,000 \\ 2,100,000 \\ 3,100,0$	1911		3,100,000	16,400	1,270,000	1,850,000	1.52	27.00	5,940,000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1912								6,730,000
1914 2,780,000 2,780,000 15,300 980,000 1,810,000 1.64 26.80 5,420,									7,230,000
1915									5,420,000
1916									4,120,000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$, , , , , , , , , , , , , , , , , , ,			4,830,000
1918			, ,			, , , , , , , , , , , , , , , , , , ,			4,710,000
1919	1918								4,190,000
1920						, , , , , , , , , , , , , , , , , , ,			4,150,000
1921 2,470,000 2,100,000 3,600 745,000 1,360,000 3.68 33.50 5,430,000 1,230,000 2,460,000 6,000 731,000 1,730,000 2.73 26.50 5,940,000 1,230,000 2,990,000 3,050,000 6,800 841,000 2,220,000 2.65 25.20 7,120,000 1,220 2,890,000 2,910,000 16,400 832,000 2,100,000 2.53 24.10 7,780,000 1,926 3,650,000 3,260,000 17,700 761,000 2,520,000 2.64 24.20 9,380,000 1,926 3,650,000 3,220,000 28,600 933,000 2,320,000 2.94 27.50 9,990,000 1,928 3,580,000 3,560,000 46,500 913,000 2,690,000 3.13 29.80 10,100,000 1,930 4,020,000 3,990,000 33,200 1,250,000 2,780,000 3.15 30.90 11,800,000 1,730,000 1,730,000 13,200 623,000 1,200,000 3.19 34.20 7,860,000 1,250,000 2,580,000 1,250,000 1,620,000 3.19 34.20 7,860,000 1,250,000 2,580,000 1,250,000 1,620,000 3.19 34.20 7,860,000 1,250,000 2,580,000 1,250,000 1,200,000 3,19 34.20 7,860,000 1,250,000 1,250,000 2,780,000 3.19 34.20 7,860,000 1,250,000 1,250,000 2,780,000 3.19 34.20 7,860,000 1,250,000 1,250,000 2,780,000 3.19 34.20 7,860,000 1,250,000 1,250,000 2,780,000 3.19 34.20 7,860,000 3.20 3,200,000 1,250,000 3,19 34.20 7,860,000 3,200,000 3,800 1,120,000 2,780,000 3,2									6,870,000
1922 2,370,000 2,460,000 6,000 731,000 1,730,000 2.73 26.50 5,940,									5,430,000
1923 2,990,000 3,050,000 6,800 841,000 2,220,000 2.65 25.20 7,120,									5,940,000
1924 2,890,000 2,910,000 16,400 832,000 2,100,000 2.53 24.10 7,780,									7,120,000
1925 3,310,000 3,540,000 2,800 884,000 2,660,000 2.22 20.70 8,900,1926 3,650,000 3,260,000 17,700 761,000 2,520,000 2.64 24.20 9,380,1927 3,070,000 3,220,000 28,600 933,000 2,320,000 2.94 27.50 9,990,1928 3,580,000 3,560,000 46,500 913,000 2,690,000 3.13 29.80 10,100,100,100 1929 3,880,000 3,820,000 45,600 1,160,000 2,710,000 3.04 29.00 10,400,100 10,400,100 1,100,000 3,04 29.00 10,400,100 1,100,000 3,04 29.00 10,400,100 1,100,000 3,04 29.00 10,400,100 1,100,000 3,15 30.90 10,400,100 1,100,000 3,15 30.90 11,800,100 1,120,000 3,15 30.90 11,800,100 1,120,000 3,19 34.20 7,860,11,800,100 3,19 34.20 7,860,11,800,100 3,12 3,100,100,100 3,12 3,200,000 3,200,000 1,200,000									7,780,000
1926 3,650,000 3,260,000 17,700 761,000 2,520,000 2.64 24.20 9,380, 1927 3,070,000 3,220,000 28,600 933,000 2,320,000 2.94 27.50 9,990, 1928 3,580,000 3,560,000 46,500 913,000 2,690,000 3.13 29.80 10,100, 1929 3,880,000 3,820,000 45,600 1,160,000 2,710,000 3.04 29.00 10,400, 1930 4,020,000 3,990,000 33,200 1,250,000 2,780,000 3.15 30.90 11,800, 1931 2,710,000 2,580,000 13,700 967,000 1,620,000 3.19 34.20 7,860, 1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2.70 32.10 7,110, 1933 2,400,000 2,530,000 7,800 842,000 1,700,000 2.60 32.60 8,900, 1934 2,950,000 2,880,000 0 1,									8,900,000
1927 3,070,000 3,220,000 28,600 933,000 2,320,000 2.94 27.50 9,990 1928 3,580,000 3,560,000 46,500 913,000 2,690,000 3.13 29.80 10,100 1929 3,880,000 3,820,000 45,600 1,160,000 2,710,000 3.04 29.00 10,400 1930 4,020,000 3,990,000 33,200 1,250,000 2,780,000 3.15 30.90 11,800 1931 2,710,000 2,580,000 13,700 967,000 1,620,000 3.19 34.20 7,860 1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2.70 32.10 7,110 1933 2,400,000 2,530,000 7,800 842,000 1,700,000 2.60 32.60 8,900 1934 2,950,000 2,880,000 0 1,010,000 1,870,000 2.64 31.40 10,500 1935 3,210,000 3,410,000 3,100 1,230,00									9,380,000
1928 3,580,000 3,560,000 46,500 913,000 2,690,000 3.13 29.80 10,100 1929 3,880,000 3,820,000 45,600 1,160,000 2,710,000 3.04 29.00 10,400 1930 4,020,000 3,990,000 33,200 1,250,000 2,780,000 3.15 30.90 11,800 1931 2,710,000 2,580,000 13,700 967,000 1,620,000 3.19 34.20 7,860 1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2.70 32.10 7,110 1933 2,400,000 2,530,000 7,800 842,000 1,700,000 2.60 32.60 8,900 1934 2,950,000 2,880,000 0 1,010,000 1,870,000 2.69 32.70 9,510 1935 3,210,000 3,090,000 3,800 1,120,000 1,970,000 2.64 31.40 10,500 1936 3,520,000 3,410,000 3,100 1,230,0									9,990,000
1929 3,880,000 3,820,000 45,600 1,160,000 2,710,000 3.04 29.00 10,400,1930 10,400,1930 4,020,000 3,990,000 33,200 1,250,000 2,780,000 3.15 30.90 11,800,1931 2,710,000 2,580,000 13,700 967,000 1,620,000 3.19 34.20 7,860,1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2,70 32.10 7,110,1032 1,730,000 1,700,000 2,60 32.60 8,900,1932 1,730,000 2,530,000 7,800 842,000 1,700,000 2,60 32.60 8,900,1932 1,700,000 2,60 32.60 8,900,1932 1,730,000 2,60 32.70 9,510,100 1,932 1,900,000 2,60 32.70 9,510,100 1,932 1,970,000 2,69 32.70 9,510,100 1,932 1,970,000 2,69 32.70 9,510,100 1,933 3,210,000 3,410,000 3,800,11,120,000 1,970,000 2,69 32.70 9,510,100 1,932 1,932 1,93						, ,			10,100,000
1930 4,020,000 3,990,000 33,200 1,250,000 2,780,000 3.15 30.90 11,800,1931 2,710,000 2,580,000 13,700 967,000 1,620,000 3.19 34.20 7,860,1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2.70 32.10 7,110,100 1932 1,730,000 2,530,000 7,800 842,000 1,700,000 2.60 32.60 8,900,1934 2,950,000 2,880,000 0 1,010,000 1,870,000 2.69 32.70 9,510,1935 3,210,000 3,090,000 3,800 1,120,000 1,970,000 2.64 31.40 10,500,1936 10,500,1936 10,500,1936 10,500,1936 2,100,1936 2,520,000 3,410,000 3,100 1,230,000 2,180,000 2.64 31.40 10,500,1936 10,500,1936 2,950,000 2.42 28.00 12,900,1936 10,500,1936 2,960,000 2.45 27.70 12,900,1936 12,900,1936 3,920,000 3,800,000 7,100 1,160,000 2,650,000 2.42 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10,400,000</td></td<>									10,400,000
1931 2,710,000 2,580,000 13,700 967,000 1,620,000 3.19 34.20 7,860,1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2.70 32.10 7,110,100 1932 1,730,000 1,700,000 2.60 32.60 8,900,100 1,900,000 2.60 32.60 8,900,100 1,900,000 2.60 32.60 8,900,100 1,900,000 1,900,000 2.69 32.70 9,510,100 1,900,000 2.64 31.40 10,500,100 1,900,000 2.64 31.40 10,500,100 1,900,000 2,800,000 3,800,1120,000 2,180,000 2.13 25.10 11,300,100 1,900,000 2,960,000 2.45 27.70 12,900,100 1,937 4,330,000 4,020,000 13,600 1,070,000 2,960,000 2.45 27.70 12,900,100 1938 3,920,000 3,800,000 7,100 1,160,000 2,650,000 2.42 28.00 12,900,100 1940 4,130,000 4,070,000 3,600 964,000 2,860,000 2.48 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11,800,000</td>									11,800,000
1932 1,730,000 1,730,000 13,200 623,000 1,120,000 2.70 32.10 7,110,110,110,110,110,110,110,110,110,11						· · ·			7,860,000
1933 2,400,000 2,530,000 7,800 842,000 1,700,000 2.60 32.60 8,900,000 1934 2,950,000 2,880,000 0 1,010,000 1,870,000 2.69 32.70 9,510,000 1935 3,210,000 3,090,000 3,800 1,120,000 1,970,000 2.64 31.40 10,500,000 1936 3,520,000 3,410,000 3,100 1,230,000 2,180,000 2.13 25.10 11,300,00 1937 4,330,000 4,020,000 13,600 1,070,000 2,960,000 2.45 27.70 12,900,00 1938 3,920,000 3,800,000 7,100 1,160,000 2,650,000 2.42 28.00 12,900,00 1939 4,050,000 3,820,000 3,600 964,000 2,860,000 2.48 29.10 12,800,00 1940 4,130,000 4,070,000 3,000 764,000 3,310,000 2.57 29.90 10,300,00 1941 5,000,000 4,760,000 3,8									7,110,000
1934 2,950,000 2,880,000 0 1,010,000 1,870,000 2.69 32.70 9,510,000 1935 3,210,000 3,090,000 3,800 1,120,000 1,970,000 2.64 31.40 10,500,000 1936 3,520,000 3,410,000 3,100 1,230,000 2,180,000 2.13 25.10 11,300,00 1937 4,330,000 4,020,000 13,600 1,070,000 2,960,000 2.45 27.70 12,900,00 1938 3,920,000 3,800,000 7,100 1,160,000 2,650,000 2.42 28.00 12,900,00 1939 4,050,000 3,820,000 3,600 964,000 2,860,000 2.48 29.10 12,800,00 1940 4,130,000 4,070,000 3,000 764,000 3,310,000 2.57 29.90 10,300,00 1941 5,000,000 4,760,000 3,800 537,000 4,190,000 3.17 31.70 8,800,00 1943 5,460,000 5,210,000 47,3									8,900,000
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1942 4,900,000 4,720,000 3,800 537,000 4,190,000 3.17 31.70 8,800, 1943 5,460,000 5,210,000 47,300 364,000 4,890,000 3.36 31.70 9,250, 1944 5,280,000 5,460,000 125,400 445,000 5,140,000 3.58 33.10 9,330, 1945 5,490,000 5,900,000 143,900 499,000 5,550,000 3.85 35.00 10,900,				·					10,800,000
1943 5,460,000 5,210,000 47,300 364,000 4,890,000 3.36 31.70 9,250, 1944 5,280,000 5,460,000 125,400 445,000 5,140,000 3.58 33.10 9,330, 1945 5,490,000 5,900,000 143,900 499,000 5,550,000 3.85 35.00 10,900,	1942								8,800,000
1944 5,280,000 5,460,000 125,400 445,000 5,140,000 3.58 33.10 9,330 1945 5,490,000 5,900,000 143,900 499,000 5,550,000 3.85 35.00 10,900	_								9,250,000
	1944	5,280,000	5,460,000	125,400	445,000	5,140,000	3.58	33.10	9,330,000
	1945	5,490,000	5,900,000		499,000	5,550,000	3.85	35.00	10,900,000
$\frac{1}{1}$ $\frac{1}$	1946		6,970,000	60,700	710,000		4.30	35.80	15,300,000
	1947								18,300,000
									19,400,000
									19,700,000
	1950		10,400,000	88,600	1,790,000		5.71	38.60	23,400,000

PHOSPHATE ROCK STATISTICS¹ U.S. GEOLOGICAL SURVEY

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

Last modification: October 9, 2012

					Apparent	Unit value	Unit value	World
Year	Production	Sold or used	Imports	Exports	consumption	(\$/t)	(98\$/t)	production
1951	12,200,000	11,300,000	94,900	1,700,000	9,660,000	5.87	36.70	24,600,000
1952	12,300,000	11,500,000	112,000	1,420,000	10,200,000	6.04	37.10	26,400,000
1953	12,700,000	12,700,000	103,000	2,090,000	10,700,000	6.14	37.40	27,200,000
1954	14,000,000	13,300,000	124,000	2,320,000	11,100,000	6.29	38.10	30,500,000
1955	12,500,000	13,400,000	119,000	2,220,000	11,300,000	6.23	38.00	30,500,000
1956	16,000,000	14,300,000	112,000	2,730,000	11,700,000	6.50	38.90	34,200,000
1957	14,200,000	14,800,000	112,000	3,060,000	11,900,000	6.29	36.60	33,200,000
1958	15,100,000	15,000,000	110,000	2,740,000	12,400,000	6.29	35.50	33,700,000
1959	16,100,000	16,300,000	142,000	3,100,000	13,400,000	6.18	34.50	38,400,000
1960	17,800,000	17,500,000	131,000	4,060,000	13,600,000	6.82	37.50	41,800,000
1961	18,900,000	18,100,000	136,000	3,980,000	14,300,000	7.16	39.10	45,500,000
1962	19,700,000	19,400,000	136,000	4,000,000	15,500,000	7.11	38.40	63,300,000
1963	19,700,000	20,200,000	163,000	4,620,000	15,700,000	7.15	38.00	54,600,000
1964	23,300,000	22,400,000	159,000	5,780,000	16,800,000	7.16	37.70	63,700,000
1965	26,900,000	26,300,000	134,000	6,640,000	19,800,000	7.08	36.70	71,400,000
1966	35,400,000	33,100,000	161,000	8,390,000	24,800,000	7.39	37.10	84,500,000
1967	36,100,000	34,300,000	126,000	9,140,000	25,300,000	7.31	35.70	87,300,000
1968	37,400,000	33,900,000	105,000	11,000,000	23,000,000	6.76	31.70	94,100,000
1969	34,200,000	33,300,000	127,000	10,300,000	23,200,000	6.29	27.90	92,100,000
1970	35,100,000	35,200,000	123,000	10,600,000	24,600,000	5.99	25.20	95,100,000
1971	35,200,000	36,600,000	76,200	11,400,000	25,200,000		23.90	94,000,000
1972	37,000,000	39,700,000	49,900	13,000,000	26,800,000	5.56		101,000,000
1973	38,200,000	40,900,000	59,000	12,600,000	28,300,000	6.11	22.40	111,000,000
1974	41,400,000	43,900,000	165,000	12,600,000	31,500,000	10.90	36.10	123,000,000
1975	44,300,000	42,100,000	33,000	11,100,000	31,000,000	20.20	61.10	109,000,000
1976	44,700,000	40,500,000	42,000	9,430,000	31,100,000	18.80	54.00	109,000,000
1977	47,300,000	47,400,000	158,000	13,200,000	34,400,000	15.90	42.80	121,000,000
1978	50,000,000	48,800,000	908,000	12,900,000	36,800,000	17.10	42.70	127,000,000
1979	51,600,000	53,100,000	886,000	14,400,000	39,600,000	18.40	41.30	134,000,000
1980	54,400,000	54,600,000	486,000	14,300,000	40,800,000	20.20	40.00	147,000,000
1981	53,600,000	45,500,000	13,000	10,400,000	35,100,000	23.90	42.80	145,000,000
1982	37,400,000	38,600,000	31,000	9,840,000	28,800,000	24.00	40.60	129,000,000
1983	42,600,000	46,800,000	9,000	12,000,000	34,800,000	22.90	37.40	143,000,000
1984	49,200,000	53,300,000	9,000	11,500,000	41,800,000	22.80	35.80	154,000,000
1985	50,800,000	46,600,000	34,000	9,140,000	37,500,000	23.20	35.20	151,000,000
1986	38,700,000	41,800,000	528,000	7,850,000	34,500,000	21.60	32.10	141,000,000
1987	41,000,000	43,700,000	464,000	8,450,000	35,700,000	18.90	27.10	147,000,000
1988	45,400,000	48,400,000	676,000	8,090,000	41,000,000	18.70	25.80	166,000,000
1989	49,800,000	49,300,000	705,000	7,840,000	42,100,000	20.80	27.30	163,000,000
1990	46,300,000	49,800,000	451,000	6,240,000	44,000,000	22.30	27.80	162,000,000
1991	48,100,000	44,700,000	552,000	5,080,000	40,200,000	22.30	26.70	150,000,000
1992	47,000,000	45,100,000	1,530,000	3,720,000	42,900,000	22.30	25.90	139,000,000
1993	35,500,000	40,100,000	534,000	3,200,000	38,300,000	21.30	24.00	119,000,000
1994	41,100,000	43,900,000	1,800,000	2,800,000	42,900,000	22.00	24.20	127,000,000
1995	43,500,000	43,700,000	1,800,000	2,760,000	42,700,000	21.80	23.30	130,000,000
1996	45,400,000	43,500,000	1,800,000	1,570,000	43,700,000	23.40	24.30	135,000,000
1997	45,900,000	42,100,000	1,830,000	335,000	43,600,000	24.40	24.80	143,000,000
1998	44,200,000	43,700,000	1,760,000	378,000	45,000,000	25.50	25.50	144,000,000
1999	40,600,000	41,600,000	2,170,000	272,000	43,500,000	30.60	29.90	137,000,000
2000	38,600,000	37,400,000	1,930,000	299,000	39,000,000	25.50	24.20	132,000,000
2001	31,900,000	32,800,000	2,500,000	9,000	35,300,000	28.40	26.10	126,000,000

PHOSPHATE ROCK STATISTICS¹ U.S. GEOLOGICAL SURVEY

[All values are in metric tons (t) gross weight unless otherwise noted] Last modification: October 9, 2012

					Apparent	Unit value	Unit value	World
Year	Production	Sold or used	Imports	Exports	consumption	(\$/t)	(98\$/t)	production
2002	36,100,000	34,700,000	2,700,000	39,000	37,400,000	28.80	26.10	136,000,000
2003	35,000,000	36,400,000	2,400,000	64,000	38,800,000	27.50	24.30	138,000,000
2004	35,800,000	36,500,000	2,500,000	0	39,000,000	28.20	24.40	142,000,000
2005	36,100,000	35,200,000	2,630,000	0	37,800,000	30.30	25.30	152,000,000
2006	30,100,000	30,200,000	2,420,000	0	32,600,000	31.80	25.70	151,000,000
2007	29,700,000	31,100,000	2,670,000	0	33,800,000	49.60	39.00	160,000,000
2008	30,200,000	28,900,000	2,750,000	0	31,600,000	78.40	59.30	166,000,000
2009	26,400,000	25,500,000	2,000,000	0	27,500,000	124.00	94.20	162,000,000
2010	25,800,000	28,100,000	2,400,000	0	30,500,000	79.40	59.30	181,000,000
2011	28,100,000	28,600,000	3,350,000	0	32,000,000	97.30	70.50	198,000,000

NA Not available.

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

¹Compiled by D.A. Buckingham (retired) and S.M. Jasinski.

Phosphate Rock Worksheet Notes

Data Sources

Sources for the phosphate rock 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.

Production

Production refers to the beneficiated phosphate rock product of phosphate ore ranging in grade from 26 percent to about 34 percent P_2O_5 . This production is commonly referred to as marketable phosphate rock. Production data for 1900–14, 1932, and 1953 is equal to sold or used data. Data are from the MR and the MYB.

Sold or Used

Data are marketable phosphate rock sold or used by producers. These data were called shipments prior to 1931. Data are from the MR and the MYB.

Imports

Prior to 1977, imports of phosphate rock into the United States are classified as crude phosphate rock. For 1977 to the most recent year, data are classified as marketable phosphate rock. Import data for 1918 and 1934 are zero. Import data are not available prior to 1908. Data are from the MR and the MYB.

Exports

Export data are phosphate rock exported from the United States. Data are from the MR and the MYB.

Apparent Consumption

Apparent consumption data were not reported prior to 1918. For those years apparent consumption data were estimated using the following equation:

APPARENT CONSUMPTION = SOLD OR USED PHOSPHATE ROCK + IMPORTS – EXPORTS.

Data for 1919 to the most recent year are from the MR and the MYB.

Unit Value (\$/t)

Unit value is defined as the value of 1 metric ton (t) of phosphate rock apparent consumption. Data are estimated using the following equation:

 $\mbox{UNIT VALUE} = (\mbox{SOLD OR USED PHOSPHATE ROCK VALUE} + \mbox{IMPORT VALUE} - \mbox{EXPORT VALUE}) \, / \, (\mbox{APPARENT CONSUMPTION TONNAGE}).$

Import and export values are not available prior to 1908. Phosphate rock import and export values were estimated using the unit value of phosphate rock sales.

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 unit value in constant 1998 U.S. dollars.

World Production

Data are defined as world production of marketable phosphate rock. Data are from the MR and the MYB.

References

- U.S. Bureau of Mines, 1927–34, Mineral Resources of the United States, 1924–31.
- U.S. Bureau of Mines, 1934-96, Minerals Yearbook, 1932-94.
- U.S. Geological Survey, 1901–27, Mineral Resources of the United States, 1900–23.
- U.S. Geological Survey, 1995-present, Minerals Yearbook, v. I. (Available via http://minerals.usgs.gov/minerals.)

Recommended Citation Format:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, accessed [date], at http://pubs.usgs.gov/ds/2005/140/.

For more information, please contact:

USGS Phosphate Rock Commodity Specialist