

Mineral Industry Surveys

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MARKETABLE PHOSPHATE ROCK—CROP YEAR 2005

U.S. production of marketable phosphate rock decreased slightly to 35.8 million metric tons (Mt) in Crop Year 2005 (July 1, 2004-June 30, 2005) compared with 36.1 Mt in Crop Year 2004 according to the U.S. Geological Survey (USGS).

Data for this report were collected through semi-annual canvasses of U.S. phosphate rock producers. All companies that produced phosphate rock in the United States during the period participated in the voluntary surveys, representing 100% of the production, sold or used, and value data shown in the tables. Trade data were provided by the U.S. Census Bureau and the Moroccan phosphate producer.

Marketable phosphate rock sold or used was 36.1 Mt, a slight decrease from Crop Year 2004. The manufacturing of wet-process phosphoric acid for fertilizers and animal feed supplements was estimated to have accounted for more than

95% of phosphate rock consumption. The remainder was used to produce elemental phosphorus or nonfertilizer uses.

Estimated domestic consumption decreased slightly to 38.8 Mt compared with 39.0 Mt in Crop Year 2004. Producers' stocks decreased to 7.56 Mt from 7.89 Mt in Crop Year 2004.

The average value of marketable phosphate rock sold or used in the United States was \$28.27 per metric ton, compared with \$27.12 per ton in Crop Year 2004. No exports of phosphate rock were reported by producers in Crop Year 2005. Imports of phosphate rock were estimated to be 2.73 Mt, using U.S. Census Bureau trade data and export data from the Moroccan producer. Much of the import tonnage and value data for Moroccan phosphate rock imports were suppressed by the U.S. Census Bureau.

TABLE 1
SALIENT U.S. PHOSPHATE ROCK STATISTICS¹

(Thousand metric tons and thousand dollars)

	Crop year ²	
	2004	2005
Mine production (crude ore)	151,000	152,000
Marketable phosphate rock production	36,100	35,800
P ₂ O ₅ content	10,500	10,300
Value	982,000	999,000
Average, dollars per metric ton ³	27.18	27.89
Sold or used by producers ⁴	36,700	36,100
P ₂ O ₅ content	10,600	10,400
Value ⁵	995,000	1,020,000
Average, dollars per metric ton ³	27.12	28.27
Exports	58 ⁶	--
Value	NA	XX
Average, dollars per metric ton ⁷	W	XX
Imports for consumption ^{8,8}	2,400	2,730
Cost, insurance, and freight value	88,500	109,000
Average, dollars per metric ton	36.88	39.91
Consumption ^{8,9}	39,000	38,800
Stocks, June 30, producers'	7,890	7,560

⁶Estimated. NA Not available. W Withheld to avoid disclosing company proprietary data. -- Zero. XX Not applicable.

¹Data are rounded to no more than three significant digits; except prices.

²July 1-June 30.

³Average value is based on sold or used values.

⁴Includes domestic sales and exports.

⁵Total value of all domestic and export sales.

⁶Source: U.S. Census Bureau.

⁷Value of exports reported to the U.S. Geological Survey by companies.

⁸Some phosphate rock import tonnage and value data were suppressed by the U.S. Census Bureau. Estimates are based on reports from the U.S. Census Bureau and the Moroccan phosphate rock producer.

⁹Expressed as sold or used plus imports minus exports.

TABLE 2
PRODUCTION OF PHOSPHATE ROCK IN THE UNITED STATES, BY REGION¹

(Thousand metric tons and thousand dollars)

Period and region	Mine production, crude ore		Marketable production, beneficiated			Ending stocks, rock
	Rock	P ₂ O ₅ content	Rock	P ₂ O ₅ content	Value ²	
Crop Year 2004:						
Florida and North Carolina	144,000	13,400	31,100	9,190	862,000	5,340
Idaho and Utah	6,830	1,490	4,980	1,290	120,000	2,200
Total	151,000	14,900	36,100	10,500	982,000	7,540
Crop Year 2005:						
July-December, 2004:						
Florida and North Carolina	66,100	6,140	14,400	4,220	415,000	W
Idaho and Utah	4,060	938	2,990	818	74,800	W
Total	70,100	7,080	17,400	5,040	490,000	7,220
January-June, 2005:						
Florida and North Carolina	W	W	W	W	W	W
Idaho and Utah	W	W	W	W	W	W
Total	81,700	7,830	18,400	5,290	509,000	7,560
Grand total	152,000	14,900	35,800	10,300	999,000	XX

W Withheld to avoid disclosing company proprietary data. XX Not applicable.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Based on the per ton sold or used values.

TABLE 3
PHOSPHATE ROCK SOLD OR USED BY PRODUCERS
IN THE UNITED STATES¹

(Thousand metric tons and thousand dollars)

Period	Rock	P ₂ O ₅ content	Value ²
Crop Year 2004	36,700	10,600	955,000
Crop Year 2005:			
July-December 2004	18,000	5,160	507,000
January-June 2005	18,100	5,230	513,000
Grand total	36,100	10,400	1,020,000

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Free on board mine.

TABLE 4
VALUE OF U.S. PHOSPHATE ROCK, BY GRADE

(Dollars per metric ton, free on board mine)

Grade [percentage of bone phosphate of line (BPL) content ¹]	Crop year 2004			Crop year 2005		
	Domestic	Export	Average	Domestic	Export	Average
70 to more than 74	W	W	W	W	--	W
66 to less than 70	28.17	--	28.17	W	--	W
Less than 66	26.98	--	26.98	W	--	W
Weighted average	27.12	W	27.12	28.27	--	28.27

W Withheld to avoid disclosing company proprietary data; included in "Average" and/or "Weighted average." -- Zero.

¹1.0% BPL (tricalcium phosphate) = 0.458% phosphorus pentoxide (P₂O₅).