

# Mineral Industry Surveys

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## MARKETABLE PHOSPHATE ROCK—CROP YEAR 2007

U.S. production of marketable phosphate rock was 29.6 million metric tons (Mt) in Crop Year 2007 (July 1, 2006, through June 30, 2007) compared with 32.6 Mt in Crop Year 2006, according to the U.S. Geological Survey (USGS). The 9% decrease was attributed primarily to lower production in Florida that resulted from the permanent closure of two mines over the past 2 calendar years and a greater use of stocks of phosphate rock.

Data for this report were collected through semiannual canvasses of U.S. phosphate rock producers. All companies that produced phosphate rock in the United States participated in the voluntary surveys, representing 100% of the production, use, 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 used was 30.3 Mt, a 6% decrease from that of Crop Year 2006, owing to lower production of phosphoric acid; there were no reported sales of phosphate rock.

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, defluorinated phosphate rock, or direct application to soil.

Estimated domestic consumption decreased by 4% to 33.0 Mt compared with 34.5 Mt in Crop Year 2006. Producers' stocks decreased by 18%; to 6.10 Mt from 7.45 Mt in Crop Year 2006.

The average value of marketable phosphate rock sold or used in the United States was \$39.59 per metric ton, compared with \$30.04 per metric ton in Crop Year 2006. No exports of phosphate rock were reported by producers in Crop Year 2007. Imports of phosphate rock in Crop Year 2007 were estimated to be 2.72 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 STATISTICS<sup>1</sup>

(Thousand metric tons and thousand dollars)

	Crop year <sup>2</sup>	
	2006	2007
Mine production (crude ore)	128,000	115,000
Marketable phosphate rock production	32,600	29,600
P <sub>2</sub> O <sub>5</sub> content	9,420	8,470
Value	987,000	1,160,000
Average, dollars per metric ton <sup>3</sup>	30.24	39.33
Sold or used by producers <sup>4</sup>	32,200	30,300
P <sub>2</sub> O <sub>5</sub> content	9,300	8,670
Value <sup>5</sup>	968,000	1,200,000
Average, dollars per metric ton <sup>3</sup>	30.04	39.59
Exports	--	--
Value	XX	XX
Average, dollars per metric ton <sup>6</sup>	XX	XX
Imports for consumption <sup>e, 7</sup>	2,300	2,720
Cost, insurance, and freight value	101,000	147,000
Average, dollars per metric ton	44.07	54.19
Consumption <sup>e, 8</sup>	34,500	33,000
Stocks, June 30, producers <sup>1</sup>	7,450	6,100

<sup>e</sup>Estimated. XX Not applicable. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits, except prices.

<sup>2</sup>July 1-June 30.

<sup>3</sup>Average value is based on sold or used values.

<sup>4</sup>Includes domestic sales and exports.

<sup>5</sup>Total value of all domestic and export sales.

<sup>6</sup>Value of exports reported to the U.S. Geological Survey by companies.

<sup>7</sup>Some 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.

<sup>8</sup>Expressed as sold or used plus imports minus exports.

TABLE 2  
PRODUCTION OF PHOSPHATE ROCK IN THE UNITED STATES<sup>1</sup>

(Thousand metric tons and thousand dollars)

Period	Mine production, crude ore		Marketable production, beneficiated			Ending stocks, rock
	Rock	P <sub>2</sub> O <sub>5</sub> content	Rock	P <sub>2</sub> O <sub>5</sub> content	Value <sup>2</sup>	
Crop Year 2006	128,000	13,000	32,600	9,420	987,000	7,450
Crop Year 2007:						
July-December 2006	53,300	5,680	14,900	4,300	462,000	7,070
January-June 2007	61,400	6,230	14,700	4,160	702,000	6,100
Total	115,000	11,900	29,600	8,470	1,160,000	XX

XX Not applicable.

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

<sup>2</sup>Based on the per ton sold or used values.

TABLE 3  
 PHOSPHATE ROCK SOLD OR USED BY PRODUCERS  
 IN THE UNITED STATES<sup>1</sup>

(Thousand metric tons and thousand dollars)

Period	Rock	P <sub>2</sub> O <sub>5</sub> content	Value <sup>2</sup>
Crop Year 2006	32,200	9,300	968,000
Crop Year 2007:			
July-December 2006	15,300	4,400	479,000
January-June 2007	15,000	4,270	722,000
Total	30,300	8,670	1,200,000

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

<sup>2</sup>Free on board mine.