

Mineral Industry Surveys

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MARKETABLE PHOSPHATE ROCK—CROP YEAR 2010

U.S. production of marketable phosphate rock was 26.7 million metric tons (Mt) in Crop Year 2010 (July 1, 2009, through June 30, 2010) compared with 27.8 Mt in Crop Year 2009, 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 participated in the voluntary surveys, representing 100% of the production, use, and value data shown in the tables. Import data were provided by the U.S. Census Bureau and the Moroccan phosphate producer. There were no reported exports of phosphate rock by mining companies in Crop Year 2010.

Marketable phosphate rock used was 28.0 Mt, compared with 24.7 Mt in Crop Year 2009. There were no reported sales of phosphate rock because all phosphate rock is used internally. 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 increased by 12%, to 30.1 Mt in Crop Year 2010, from 26.8 Mt in Crop Year 2009. Producers' stocks decreased to 7.57 Mt in Crop Year 2010, from 8.89 Mt from in Crop Year 2009.

The average value of marketable phosphate rock sold or used in the United States was \$64.78 per metric ton, compared with \$116.75 per ton in Crop Year 2009. Imports of phosphate rock in Crop Year 2010 were estimated to be 2.13 Mt, using U.S. Census Bureau trade data and export data from PIERS Global Intelligence Solutions. Some import tonnage and value data for Moroccan phosphate rock imports were not reported by the U.S. Census Bureau.

TABLE 1
SALIENT U.S. PHOSPHATE ROCK STATISTICS¹

(Thousand metric tons and thousand dollars)

	Crop year ²	
	2009	2010
Mine production (crude ore)	115,000	109,000
Marketable phosphate rock production	27,800	26,700
P ₂ O ₅ content	7,950	7,630
Value	3,090,000	1,720,000
Average, dollars per metric ton ³	111.09	64.53
Sold or used by producers	24,700	28,000
P ₂ O ₅ content	7,070	7,930
Value	2,890,000	1,820,000
Average, dollars per metric ton ³	116.75	64.78
Imports for consumption: ^{6, 4}	2,120	2,130
Cost, insurance, and freight value	209,000	153,000
Average, dollars per metric ton	98.69	71.62
Consumption: ^{6, 5}	26,800	30,100
Stocks, June 30, producers ¹	8,890	7,570

⁶Estimated.

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.

⁴Some 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.

⁵Expressed as sold or used plus imports.

TABLE 2
PRODUCTION OF PHOSPHATE ROCK IN THE UNITED STATES¹

(Thousand metric tons and thousand dollars)

Period	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 2009:	115,000	11,400	27,800	7,950	\$3,090,000	8,890
Crop Year 2010:						
July-December 2009	53,200	5,470	13,500	3,910	858,000	8,120
January-June 2010	55,300	5,870	13,200	3,720	863,000	7,570
Total	109,000	11,300	26,700	7,630	1,720,000	XX

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 2009:	24,700	7,070	\$2,890,000
Crop Year 2010:			
July-December 2009	14,300	4,150	936,000
January-June 2010	13,700	3,780	880,000
Total	28,000	7,930	1,820,000

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

²Free on board mine.