

# Mineral Industry Surveys

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## MARKETABLE PHOSPHATE ROCK—CROP YEAR 2011

U.S. production of marketable phosphate rock was 26.5 million metric tons (Mt) in Crop Year 2011 (July 1, 2010 through June 30, 2011) a slight decrease compared with 26.7 Mt in Crop Year 2010.

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.

Marketable phosphate rock used was 28.1 Mt, a slight increase compared with 28 Mt in Crop Year 2010. 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 phosphate rock consumption increased slightly to 30.6 Mt in Crop Year 2011 from 30.1 Mt in Crop Year 2010. Producers' stocks decreased by 29%, to 5.37 Mt in Crop Year 2011, from 7.57 Mt in Crop Year 2010.

The average value of marketable phosphate rock sold or used in the United States was \$92.31 per metric ton, compared with \$64.78 per ton in Crop Year 2010. Imports of phosphate rock were estimated to be 2.49 Mt, using U.S. Census Bureau trade data and other sources, because some import tonnage and value data for phosphate rock imports were not reported by Census. There were no reported exports of phosphate rock by mining companies in Crop Year 2011.

TABLE 1  
SALIENT U.S. PHOSPHATE ROCK STATISTICS<sup>1</sup>

(Thousand metric tons and thousand dollars)

	Crop year <sup>2</sup>	
	2010	2011
Mine production (crude ore)	109,000	111,000
Marketable phosphate rock production	26,700	26,500
P <sub>2</sub> O <sub>5</sub> content	7,630	7,680
Value	1,720,000	2,480,000
Average, dollars per metric ton <sup>3</sup>	64.53	93.72
Sold or used by producers	28,000	28,100
P <sub>2</sub> O <sub>5</sub> content	7,930	8,070
Value	1,820,000	2,590,000
Average, dollars per metric ton <sup>3</sup>	64.78	92.31
Imports for consumption: <sup>e, 4</sup>	2,130	2,490
Cost, insurance, and freight value	153,000	244,000
Average, dollars per metric ton	71.62	98.36
Consumption <sup>e, 5</sup>	30,100	30,600
Stocks, June 30, producers <sup>1</sup>	7,570	5,370

<sup>e</sup>Estimated.

<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>Some phosphate rock import tonnage and value data were not reported by the U.S. Census Bureau. Estimates are based on reports from the U.S. Census Bureau and other sources.

<sup>5</sup>Expressed as sold or used plus imports.

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 2010:	109,000	11,300	26,700	7,630	1,720,000	7,570
Crop Year 2011:						
July-December 2010	50,600	6,030	12,700	3,680	1,090,000	5,640
January-June 2011	60,900	6,400	13,800	4,010	1,390,000	5,370
Total	111,000	12,400	26,500	7,680	2,480,000	5,370

<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 2010:	28,000	7,930	1,820,000
Crop Year 2011:			
July-December 2010	14,400	4,160	1,290,000
January-June 2011	13,600	3,910	1,300,000
Total	28,100	8,070	2,590,000

<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.