



# 2011 Minerals Yearbook

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## STONE, DIMENSION

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# STONE, DIMENSION

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U.S. production of dimension stone in 2011 was estimated to be 1.71 million metric tons (Mt) valued at \$323 million, which was a slight increase in tonnage and an increase of \$139,000 in value compared with those of 2010 (table 1). Exports increased in value by 21% to \$66 million, and imports for consumption increased in value by 6% to \$1.59 billion. The value of apparent consumption was estimated to be \$1.84 billion in 2011, 4% more than that of 2010. World dimension stone production, including the United States, was estimated to be approximately 115 Mt in 2010, the last year for which data were available. Trade data in this report are from the U.S. Census Bureau. All percentages in the report were computed using unrounded data.

In recent years, most dimension stone has been used in construction applications, with the largest portions being sold or used as ashlar and partially squared pieces, curbing, flagstone, and rough block for building and construction. The major nonconstruction application is monumental stone, which includes memorials of various kinds.

Dimension stone is a natural rock material quarried for the purpose of obtaining blocks or slabs that meet specifications as to size (width, length, and thickness) and shape. Color, grain texture and pattern, and surface finish of the stone also are normal requirements by both customers and the stone industry. Durability (a time measure of the ability of dimension stone to endure and maintain its essential and distinctive characteristics), strength, and the ability of the stone to take a polish are other important selection criteria.

Although various igneous, metamorphic, and sedimentary rocks are used as dimension stone, the principal rock types are granite, limestone, marble, sandstone, and slate. Other varieties of dimension stone that are normally considered to be special minor types include alabaster (massive gypsum) and soapstone (massive talc). A more detailed discussion describing specific types of dimension stone can be found in the 2007 dimension stone Minerals Yearbook chapter.

## Production

Dimension stone production data for the United States are derived by the U.S. Geological Survey (USGS) from a voluntary canvass of U.S. quarry producers of rough and dressed dimension stone. Of the 219 dimension stone-producing operations included in the survey for 2011, 119 (54%) responded, which represented 51% of the tonnage; the remaining tonnage was estimated based on prior years' reporting and (or) on employment data provided by the Mine Safety and Health Administration (MSHA).

Data in this report cover rough crude quarried stone, irregular-shaped and rectangular blocks, and more highly processed stone. A number of other terms also are used to describe further processing, such as "worked," "dressed," "finished," and "manufactured." These and other terms used

by the dimension stone industry describe such features as the mineral composition of the rock, the shape of the product, the method of finishing a stone, and the type of finish applied. No adjustments are made in the data to account for the sometimes substantial losses in processing rough stone into dressed stone. Sold or used data are considered to be equivalent to production because changes in stocks are not surveyed.

In 2011, granite accounted for 653,000 metric tons (t) (38%) of the total domestic dimension stone production of 1.71 Mt, followed by limestone (27%), miscellaneous stone (16%), sandstone (15%), marble (2%), and slate (2%). Granite accounted for about \$108 million (34%) of the \$323 million total domestic production value, followed by limestone (29%), miscellaneous (16%), sandstone (11%), marble (5%), and slate (5%) (table 2).

Production of dimension stone was reported in 36 States. Leading producer States were, in descending order by tonnage, South Dakota, Texas, Wisconsin, Indiana, and Georgia. These States accounted for about 53% of domestic production. Leading producer States were, in descending order by value, Texas, Wisconsin, Indiana, Minnesota, and Vermont. These States contributed about 51% of the value of domestic production (table 4).

The top five producing companies were Buechel Stone Corp. in Wisconsin, Champlain Stone, Ltd. in New York, Cold Spring Granite Co. in Minnesota, Mezger Enterprises Inc. in Texas, and Victor Oolitic Stone Co. in Indiana. These companies produced about 35% of domestic production in tonnage and about 28% of production value. The leading 14 companies accounted for 59% of total domestically produced tonnage and 52% of the value.

Rough stone blocks split or cut from a quarry face are transported to processing plants that typically are located at the quarry site, at least for preliminary sizing. Further dressing, which includes final sizing and finishing operations, such as decorating, edging, and polishing, also may be done at the quarry site.

**Granite.**—Dimension granite was produced by 39 companies operating 57 quarries in 15 States. Production was 653,000 t valued at \$108 million. Granite production tonnage decreased by 7% and the value decreased by 8% compared with those of 2010. The top five producing States were, in descending order by tonnage, South Dakota, Georgia, Massachusetts, North Carolina, and Maine. Georgia, Massachusetts, North Carolina, and Maine, accounted for 38% of the tonnage and 36% of the value of U.S. granite production (table 5). Champlain Stone, Cold Spring Granite, North Carolina Granite Corp., Swenson Granite Co. LLC, and Williams Stone Co. Inc., which were the leading producers, accounted for 77% of U.S. granite production by tonnage and 73% of U.S. granite production by value.

**Limestone.**—Dimension limestone was produced by 35 companies from 42 quarries in 12 States. Production increased

slightly in 2011 to 458,000 t from 454,000 t in 2010. The value decreased by 11% to \$92.5 million in 2011 from \$104 million in 2010. The top four producing States were, in descending order by tonnage, Texas, Indiana, Kansas, and Minnesota, which combined produced 92% of the U.S. tonnage and value (table 6). Arnold Stone Inc., Buechel Stone, Eden Stone Co. Inc., Mezger Enterprises, and Victor Oolitic Stone, which were the leading producers, accounted for about 78% of all U.S. limestone tonnage and about 68% of the value.

**Sandstone.**—Dimension sandstone was produced by 49 companies that operated 56 quarries in 17 States. Production increased by 14% to 253,000 t in 2011 from 222,000 t in 2010. The value increased by 13% to \$36.6 million in 2011 from \$32.4 million in 2010. The top five producing States were, in descending order by tonnage, Arizona, Oklahoma, Ohio, Pennsylvania, and Arkansas (table 7). Cornerstone Materials LLC, Drake Stone Products Inc., Harley Gray Stone Co., Rodman LLC, and Napoleon Stone LLC, which were the leading producers, accounted for about 52% of the tonnage and 43% of the value of domestic production.

**Marble.**—Marble was mined by three companies that operated five quarries in three States. Production tonnage increased by 33% in 2011 to 41,500 t valued at \$16.7 million from 31,100 t valued at \$12.1 million in 2010 (table 11). Georgia was the leading producing State, followed by Vermont, and Tennessee. The leading producers were Georgia Marble Co. (a subsidiary of Polycor Inc.) and Vermont Quarries Corp.

**Slate.**—Slate was produced by 15 companies that operated 18 quarries in 6 States. Production increased by 37% to 31,400 t in 2011 from 22,900 t in 2010. The value increased 6% to \$15.1 million in 2011 from \$14.2 million in 2010 (table 13). The top producing States were Idaho, Vermont, and Virginia. The leading producers were Newmont Slate Co., Inc., Scrivanich Natural Stone Co., and Western Slate Inc.

## Consumption

For the purposes of this report, apparent consumption is calculated to be production plus imports for consumption minus exports. Value data are used in the apparent consumption calculation because tonnage data are not available for imports and exports. Overall, the value of apparent consumption of dimension stone in the United States was estimated to be \$1.84 billion in 2011; 4% more than that of 2010.

Rough stone represented about 56% of the tonnage and 43% of the value of all dimension stone sold or used by domestic producers, which included exports. The leading uses of rough stone, by tonnage, were in building and construction (56%), and in irregular-shaped stone (24%). Dressed stone represented 44% by tonnage and 57% by value of the total stone sold or used. The leading uses within dressed stone, by tonnage, were in ashlar and partially squared pieces (31%); curbing (22%); and flagging (20%) (table 8).

Uses for the different varieties of dimension stone varied considerably. The major uses of granite sold or used in 2011, by tonnage, were in rough blocks for building and construction (43%), curbing (24%), monumental rough stone (14%), and other rough stone (6%) (table 9). Primary uses of limestone, by tonnage, were in rough blocks for building and construction

(32%), and in dressed stone for ashlar and partially squared pieces (29%) (table 10). The primary use of marble, by tonnage, was in rough stone, other uses (including slabs and blocks, flagging, monumental, panels and veneer, ashlar and partially squared pieces, tile, and unlisted uses) (73%) (table 11). Primary uses of sandstone, by tonnage, were in dressed stone for flagging (44%), and in rough blocks for building and construction (21%) (table 12). Dimension slate sold or used by producers in the United States in 2011, by tonnage, was principally for roofing (63%), flagging (31%), and structural and sanitary purposes, unspecified uses, and unlisted uses (6%) (table 13).

## Prices

The average 2011 value for dimension stone was \$189 per metric ton, a slight decrease from that of 2010 based on the USGS canvass data. The average unit values for different types of dimension stone were granite, \$165 per ton; limestone, \$202 per ton; marble, \$402 per ton; sandstone, \$145 per ton; and slate, \$481 per ton. Available price data show considerable variation. Prices are substantially different not only for the kind of stone, but also for the appearance of the same kind of stone. Color, grain structure, and finish contribute significantly to price and marketability.

## Foreign Trade

**Exports.**—In 2011, the value of total exports of dimension stone increased by 21% in value to \$66 million compared with that of 2010; granite accounted for 48% of the export value. The largest share of granite was exported to China (table 14). Although unreported, a significant amount of U.S. granite processed overseas was probably exported back to the U.S. market.

**Imports.**—The value of imports for consumption of dimension stone types increased by 6% in 2011 to \$1.59 billion (table 1). Brazil was the leading source of imported granite in 2011, accounting for 44% by value. China, which continued to be a major source of granite, accounted for 21% of granite imports by value. Other important granite import sources included India (15%) and Italy (12%) (table 15). In 2011, China continued to be a major source of rough and dressed marble imports and accounted for 24% by tonnage and 22% by value. Additionally, Italy was a major source of rough and dressed marble imports and accounted for 17% by tonnage and 31% by value (tables 16–17). Duties on imported dimension stone are listed in table 3.

## World Review

World dimension stone production, including the United States, was estimated to be approximately 115 Mt in 2010, the last year for which data were available. Although there was probably some small-scale production in the majority of the world's nations, dimension stone was produced and officially reported in 30 countries. The top five producing countries in 2010 were, in descending order by tonnage, China, Turkey, India, Iran, and Italy, and these countries accounted for about 73% of the world's production. Global production of dimension stone increased by 7% in 2010 compared with that of 2009. The

United States ranked 12th in world production of dimension stone in 2010 (Gussoni, 2012, p. 106).

## Outlook

U.S. apparent consumption of dimension stone increased by 4% in 2011. Production, exports, and imports of dimension stone all showed increases in 2011, but at different rates. Steady activity from domestic stone installation businesses, indicate that residential and commercial improvement and refurbishment remain the primary end markets for dimension stone and is expected to continue in 2012. In 2012, increases in new commercial and residential construction would be necessary for domestic quarrying activity to return to pre-2008 recession levels. Industry observers anticipate slow growth in the global dimension stone industry in the near term (Gussoni, 2012, p. 55–98).

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TABLE 1  
 SALIENT U.S. DIMENSION STONE STATISTICS<sup>1</sup>

(Thousand metric tons and thousand dollars)

	2007	2008	2009	2010	2011
<b>Sold or used by producers:</b>					
Quantity	1,920	1,800	1,620	1,670	1,710
Value	346,000	326,000	328,000	323,000	323,000
Exports, value	74,300	65,700	48,300	54,500	66,000
Imports for consumption, value	2,540,000	2,150,000	1,350,000	1,500,000	1,590,000
Apparent consumption, value	2,810,000	2,410,000	1,630,000	1,770,000	1,840,000

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

TABLE 2  
DIMENSION STONE SOLD OR USED BY PRODUCERS IN  
THE UNITED STATES, BY TYPE<sup>1,2</sup>

State	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Limestone <sup>3</sup>	454,000	\$104,000	458,000	\$92,500
Marble	31,100	12,100	41,500	16,700
Granite	699,000	118,000	653,000	108,000
Sandstone <sup>4</sup>	222,000	32,400	253,000	36,600
Slate	22,900	14,200	31,400	15,100
Miscellaneous stone <sup>5</sup>	241,000	42,300	269,000	53,900
Total	1,670,000	323,000	1,710,000	323,000

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

<sup>2</sup>Does not include American Samoa, Guam, Puerto Rico, and the U.S. Virgin Islands.

<sup>3</sup>Includes limestone, dolomite, and other calcareous stone reported with no distinction between the kinds of stone.

<sup>4</sup>Includes sandstone and quartzite reported with no distinction between the kinds of stone.

<sup>5</sup>Includes any other stone type used as building stone and commercial stone that does not fit the aforementioned categories.

TABLE 3  
U.S. IMPORT DUTIES ON DIMENSION STONE

Tariff item	HTS <sup>1</sup> code	NTR, <sup>2</sup> January 1, 2011	Non-NTR, <sup>2</sup> January 1, 2011
Slate, rough blocks or slabs	2514.00.0000	Free	25% ad valorem.
Rough blocks or slabs of marble, travertine, other calcareous monumental or building stone:	2515.00.0000		
Marble and travertine:			
Crude or roughly trimmed	2515.11.0000	Free	\$22.95 per cubic meter.
Marble, merely cut	2515.12.1000	do.	13% ad valorem.
Travertine, merely cut	2515.12.2000	3.0% ad valorem	50% ad valorem.
Other calcareous stone alabaster	2515.20.0000	do.	Do.
Rough blocks or slabs of granite, porphyry, basalt, sandstone, other monumental or building stone:	2516.00.0000		
Granite:			
Crude or roughly trimmed	2516.11.0000	Free	\$8.83 per cubic meter.
Merely cut	2516.12.0000	2.8% ad valorem	60% ad valorem.
Sandstone:			
Crude or roughly trimmed	2516.20.1000	Free	\$5.30 per cubic meter.
Merely cut	2516.20.2000	3.0% ad valorem	50% ad valorem.
Other monumental or building stone	2516.90.0000	do.	Do.
Setts, curbstones, flagstones	6801.00.0000	2.8% ad valorem	60% ad valorem.
Worked monumental or building stone:	6802.00.0000		
Tiles and cubes under 7 centimeters square, granules	6802.10.0000	4.8% ad valorem	40% ad valorem.
Other stone and articles with a flat or even surface:			
Marble, travertine, and alabaster:	6802.21.0000		
Travertine	6802.21.1000	4.2% ad valorem	50% ad valorem.
Other	6802.21.5000	1.9% ad valorem	13% ad valorem.
Granite	6802.23.0000	3.7% ad valorem	60% ad valorem.
Other calcareous stone	6802.29.1000	4.9% ad valorem	50% ad valorem.
Other stone	6802.29.9000	6.0% ad valorem	30% ad valorem.
Other:			
Marble, travertine, and alabaster:	6802.91.0000		
Marble:			
Slabs	6802.91.0500	2.5% ad valorem	15% ad valorem.
Other	6802.91.1500	4.9% ad valorem	50% ad valorem.
Travertine:			
Travertine articles of subheading 6802.21.1000 that have been dressed or polished, but not further worked	6802.91.2000	4.2% ad valorem	50% ad valorem.
Other	6802.91.2500	3.7% ad valorem	40% ad valorem.
Alabaster	6802.91.3000	4.7% ad valorem	50% ad valorem.
Other calcareous stone	6802.92.0000	4.9% ad valorem	Do.
Granite	6802.93.0000	3.7% ad valorem	60% ad valorem.
Other stone	6802.99.0000	6.5% ad valorem	40% ad valorem.
Worked slate and articles:	6803.00.0000		
Roofing slate	6803.00.1000	3.3% ad valorem	25% ad valorem.
Other	6803.00.5000	Free	Do.

Do., do. Ditto.

<sup>1</sup>Harmonized Tariff Schedule of the United States.

<sup>2</sup>Normal trade relations.

TABLE 4  
 DIMENSION STONE SOLD OR USED BY PRODUCERS IN  
 THE UNITED STATES, BY STATE<sup>1</sup>

State	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Alabama	W	W	W	W
Arizona	81,400	\$11,700	112,000	\$13,300
Arkansas	10,700 <sup>r</sup>	1,580 <sup>r</sup>	15,100	1,770
California	26,100	6,940	24,600	9,590
Colorado	9,560 <sup>r</sup>	1,960 <sup>r</sup>	4,920	994
Georgia	269,000 <sup>r</sup>	26,600 <sup>r</sup>	141,000	20,300
Idaho	25,100	3,520	27,500	4,200
Indiana	173,000	31,400	164,000	29,200
Kansas	46,600	4,720	51,600	4,640
Maine	8,000	1,250	6,320	3,640
Maryland	7,560	1,630	6,270	1,230
Massachusetts	73,300	21,700	83,100	16,200
Michigan	W	W	W	W
Minnesota	34,700	15,400	46,300	28,500
Montana	11,000	2,950	12,000	2,930
New Hampshire	W	W	W	W
New Mexico	W	W	W	W
New York	94,000 <sup>r</sup>	25,800 <sup>r</sup>	99,000	17,800
North Carolina	58,000 <sup>r</sup>	20,700 <sup>r</sup>	58,600	11,600
Ohio	25,100	4,440	25,400	5,100
Oklahoma	27,600 <sup>r</sup>	2,520 <sup>r</sup>	35,100	6,310
Pennsylvania	26,700 <sup>r</sup>	6,070 <sup>r</sup>	24,800	5,040
South Dakota	W	W	W	W
Tennessee	W	W	W	W
Texas	195,000	57,000	202,000	47,100
Utah	8,700	674	6,720	595
Vermont	68,400	21,900	78,700	21,800
Virginia	13,700	3,920	12,500	7,380
Wisconsin	144,000	23,200 <sup>r</sup>	170,000	38,600
Other <sup>2</sup>	232,000 <sup>r</sup>	25,500 <sup>r</sup>	298,000	25,500
Total	1,670,000	323,000	1,710,000	323,000

<sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data; included in "Other."

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

<sup>2</sup>Includes Alabama, Connecticut, Illinois, Michigan, Missouri, Nevada, New Hampshire, New Mexico, South Carolina, South Dakota, Tennessee, Washington, West Virginia, and Wyoming.

TABLE 5  
 DIMENSION GRANITE SOLD OR USED BY PRODUCERS IN  
 THE UNITED STATES, BY STATE<sup>1</sup>

State	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
California	14,700	\$4,230	W	W
Georgia	249,000 <sup>r</sup>	18,000 <sup>r</sup>	112,000	\$8,520
Maine	8,000	1,250	6,320	3,640
Massachusetts	69,600	20,600	78,800	15,400
Minnesota	W	W	W	W
New Hampshire	W	W	W	W
New York	28,900	13,100	W	W
North Carolina	47,800 <sup>r</sup>	19,700 <sup>r</sup>	53,600	11,100
South Dakota	W	W	W	W
Vermont	41,400	9,390	W	W
Other <sup>2</sup>	239,000	31,500	402,000	69,800
Total	699,000	118,000	653,000	108,000

<sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data; included in "Other."

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

<sup>2</sup>Includes California (2011), Minnesota, Missouri, New Hampshire, New York (2011), South Carolina, South Dakota, Texas, Vermont (2011), Virginia, and Wisconsin.

TABLE 6  
 DIMENSION LIMESTONE SOLD OR USED BY PRODUCERS IN  
 THE UNITED STATES, BY STATE<sup>1</sup>

State	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Alabama	W	W	W	W
Indiana	173,000	\$31,400	164,000	\$29,200
Kansas	45,500	4,540	51,000	4,540
Minnesota	9,740	7,340	10,700	6,980
Ohio	W	W	W	W
Texas	182,000	54,500	195,000	44,400
Wisconsin	W	W	W	W
Other <sup>2</sup>	44,000	6,600	36,600	7,360
Total	454,000	104,000	458,000	92,500

W Withheld to avoid disclosing company proprietary data; included in "Other."

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

<sup>2</sup>Includes Alabama, Arkansas, California, Illinois, Maryland, New York, Ohio, Virginia, and Wisconsin.



TABLE 7  
DIMENSION SANDSTONE SOLD OR USED BY PRODUCERS IN  
THE UNITED STATES, BY STATE<sup>1</sup>

State	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Arizona	81,400	\$11,700	112,000	\$13,300
Arkansas	9,830 <sup>r</sup>	1,480 <sup>r</sup>	14,400	1,690
Colorado	9,560 <sup>r</sup>	1,960 <sup>r</sup>	4,920	994
New York	12,400	2,200	13,200	1,960
Ohio	17,200	4,100	19,000	4,330
Oklahoma	27,600 <sup>r</sup>	2,520 <sup>r</sup>	35,100	6,310
Pennsylvania	18,100	3,770	18,500	3,350
Other <sup>2</sup>	45,500 <sup>r</sup>	4,630 <sup>r</sup>	35,800	4,690
Total	222,000 <sup>r</sup>	32,400 <sup>r</sup>	253,000	36,600

<sup>r</sup>Revised.

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

<sup>2</sup>Includes California, Idaho, Kansas, Maryland, Michigan, Montana, Tennessee, Texas, Utah, West Virginia, and Wisconsin.

TABLE 8  
DIMENSION STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE<sup>1</sup>

Use	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
<b>Rough stone:</b>				
Rough blocks for building and construction	378,000	\$66,800	530,000	\$71,400
Irregular-shaped stone	475,000	25,300	228,000	31,600
Monumental	113,000	22,900	116,000	25,300
Other <sup>2</sup>	41,400 <sup>r</sup>	8,200 <sup>r</sup>	79,600	12,200
<b>Dressed stone:</b>				
Ashlars and partially squared pieces	144,000	30,500	235,000	62,000
Slabs and blocks for building and construction	58,800	36,700	44,600	13,400
Monumental	25,600	10,900	30,600	14,800
Curbing	162,000	32,400	168,000	26,600
Flagging	108,000	13,600	149,000	18,000
Flagging (slate)	2,380	903	9,880	1,950
Panels and veneer	43,500	36,400	41,200	15,700
Roofing slate	18,700	11,300	19,700	12,500
Flooring slate	1,180	1,920	107	234
Tile, all dimensions	2,150 <sup>r</sup>	2,000 <sup>r</sup>	1,790	602
Other <sup>3</sup>	96,000 <sup>r</sup>	23,400 <sup>r</sup>	51,700	17,000
Total	1,670,000	323,000	1,710,000	323,000

<sup>r</sup>Revised.

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

<sup>2</sup>Includes flagging stone, exports, uses not specified, and uses not listed.

<sup>3</sup>Includes panels and veneer, blackboards, exports, uses not specified, structural and sanitary, and uses not listed.

TABLE 9  
DIMENSION GRANITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE<sup>1</sup>

Use	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
<b>Rough stone:</b>				
Rough blocks for building and construction	103,000	\$26,500	282,000	\$27,900
Irregular-shaped stone	261,000	756	11,700	1,530
Monumental	93,700	15,800	90,600	18,000
Other <sup>2</sup>	38,000	7,440	37,600	6,310
<b>Dressed stone:</b>				
Ashlars and partially squared pieces	8,630	2,550	13,400	7,340
Slabs and blocks for building and construction	1,200	883	445	496
Monumental	25,500	10,900	30,500	14,800
Curbing	154,000	31,600	155,000	24,200
Other <sup>3</sup>	14,300	21,300	32,400	7,830
Total	699,000	118,000	653,000	108,000

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

<sup>2</sup>Includes exports and uses not listed.

<sup>3</sup>Includes panels and veneer, tile, uses not specified, and uses not listed.

TABLE 10  
DIMENSION LIMESTONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE<sup>1</sup>

Use	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
<b>Rough stone:</b>				
Rough blocks for building and construction	170,000	\$27,100	145,000	\$23,400
Irregular-shaped stone	101,000	8,810	117,000	11,700
Other <sup>2</sup>	10,400	4,930	8,170	574
<b>Dressed stone:</b>				
Ashlars and partially squared pieces	107,000	19,800	131,000	36,800
Slabs and blocks for building and construction	25,400	25,300	29,800	6,050
Flagging	5,910	1,190	5,050	1,050
Panels and veneer	21,700	12,100	6,500	6,580
Other <sup>3</sup>	12,100	5,200	15,100	6,390
Total	454,000	104,000	458,000	92,500

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

<sup>2</sup>Includes exports, monumental, and uses not listed.

<sup>3</sup>Includes curbing limestone, tile, uses not specified, and uses not listed.

TABLE 11  
DIMENSION MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE<sup>1,2</sup>

Use	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
<b>Rough stone:</b>				
Rough blocks for building and construction	W	W	W	W
Other <sup>3</sup>	25,300	\$8,460	30,100	\$10,600
<b>Dressed stone<sup>3</sup></b>				
Total	31,100	12,100	41,500	16,700

W Withheld to avoid disclosing company proprietary data; included in "Other" or total.

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

<sup>2</sup>Includes monumental stone, uses not specified, and uses not listed.

<sup>3</sup>Includes slabs and blocks, flagging, monumental, panels and veneer, ashlars and partially squared pieces, tile, and uses not listed.

TABLE 12  
DIMENSION SANDSTONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE<sup>1</sup>

Use	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
<b>Rough stone:</b>				
Rough blocks for building and construction	57,800	\$5,940	52,300	\$8,860
Irregular-shaped stone	25,100	2,910	13,700	1,520
Other <sup>2</sup>	4,860 <sup>r</sup>	1,050 <sup>r</sup>	26,500	3,970
<b>Dressed stone:</b>				
Ashlars and partially squared pieces	20,600 <sup>r</sup>	4,080 <sup>r</sup>	6,890	1,150
Flagging	80,900	9,180	111,000	12,500
Panels and veneer	5,710	1,790	7,500	1,940
Slabs and blocks for building and construction	2,910	1,280	1,880	715
Other <sup>3</sup>	23,700 <sup>r</sup>	6,180 <sup>r</sup>	32,400	5,930
Total	222,000 <sup>r</sup>	32,400 <sup>r</sup>	253,000	36,600

<sup>r</sup>Revised.

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

<sup>2</sup>Includes flagging stone and uses not listed.

<sup>3</sup>Includes tile, curbing, exports, uses not specified, and uses not listed.

TABLE 13  
DIMENSION SLATE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE<sup>1</sup>

Use	2010		2011	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Flagging	2,380	\$903	9,880	\$1,950
Roofing	18,700	11,300	19,700	12,500
Flooring	1,010	1,470	107	234
Other <sup>2</sup>	873	613	1,740	461
Total	22,900	14,200	31,400	15,100

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

<sup>2</sup>Includes structural and sanitary purposes, uses not specified, and uses not listed.

TABLE 14  
U.S. EXPORTS OF DIMENSION STONE, BY TYPE<sup>1</sup>

(Thousand metric tons and thousand dollars)

Type	2010		2011		Major destination in 2011 <sup>2</sup>
	Quantity	Value	Quantity	Value	
Marble, travertine, alabaster worked <sup>3</sup>	51	7,830	65	7,860	Canada, 46%.
Marble, travertine, crude or roughly trimmed	1	429	3	2,360	Saudi Arabia, 33%.
Marble, travertine, merely cut, by sawing or otherwise <sup>4</sup>	2	1,650	4	3,360	Italy, 35%.
Granite, crude or roughly trimmed	77	25,200	60	25,000	China, 62%.
Granite, merely cut by sawing or otherwise <sup>4</sup>	19	5,420	20	6,410	Canada, 49%.
Slate, worked and articles of slate	NA	2,850	NA	5,470	Canada, 60%.
Slate, whether or not roughly trimmed or merely cut <sup>4</sup>	NA	475	NA	336	Canada, 18%.
Other calcareous monumental or building stone; alabaster <sup>5</sup>	28	7,600	51	10,300	Canada, 70%.
Other monumental or building stone <sup>6</sup>	17	3,040	19	4,840	Canada, 70%.
Total	XX	54,500	XX	66,000	

NA Not available. 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>By value.

<sup>3</sup>Further worked than simply cut with a flat surface.

<sup>4</sup>Blocks or slabs.

<sup>5</sup>Crude, roughly trimmed, or merely cut into blocks or slabs. Other than marble and travertine (includes alabaster).

<sup>6</sup>Crude, roughly trimmed, or merely cut into blocks or slabs. Other than calcareous stone and alabaster, granite, sandstone, slate, dolomite, quartzite, and steatite.

Source: U.S. Census Bureau.

TABLE 15  
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION GRANITE, BY COUNTRY<sup>1</sup>

(Thousand dollars)

Country	Dressed										
	Worked granite									Total worked	Total dressed
	Cut to size <sup>2</sup>						Monumental minimum 7.5 centimeters	Building minimum 7.5 centimeters	Other		
	Rough granite <sup>3</sup>	Simply cut <sup>4</sup>	Not cut to size <sup>5</sup>	Maximum 1.5 centimeters	1.5–7.5 centimeters						
2010:											
Argentina	43	--	239	--	534	--	--	221	994	994	
Brazil	133	2,070	87,900	3,050	268,000	--	6,040	47,000	412,000	414,000	
Canada	3,060	940	816	1,590	4,960	7,790	4,070	3,770	23,000	23,900	
China	1,890	11,200	12,500	9,080	107,000	14,700	11,300	49,600	204,000	215,000	
Finland	2	--	--	--	3	--	4	20	27	27	
India	7,550	2,230	15,700	2,940	73,600	8,400	2,510	22,600	126,000	128,000	
Italy	390	2,560	16,500	1,830	77,900	48	2,440	19,600	118,000	121,000	
Japan	--	114	--	--	--	--	--	12	12	126	
Mexico	14	158	--	--	225	--	6	386	617	775	
Norway	336	13	--	--	115	--	--	23	138	151	
Portugal	--	33	--	54	92	--	2	111	258	291	
Saudi Arabia	--	14	1,820	--	5,430	--	30	343	7,620	7,630	
South Africa	756	85	84	--	100	--	4	149	337	422	
Spain	21	399	1,350	298	6,450	--	239	738	9,070	9,470	
Sweden	13	--	--	--	--	--	--	--	--	--	
Zimbabwe	7	--	--	--	--	--	--	--	--	--	
United Kingdom	410	--	261	--	--	--	--	62	323	323	
Other	414	1,330	5,310	487	15,200	48	767	3,270	25,100	26,400	
Total	15,000	21,200	142,000	19,300	559,000	31,000	27,500	148,000	927,000	949,000	
2011:											
Argentina	86	--	101	--	662	--	--	85	848	848	
Brazil	200	7,040	95,400	1,650	291,000	121	5,130	54,300	447,000	454,000	
Canada	3,450	1,340	476	1,160	4,020	7,410	6,300	3,900	23,300	24,600	
China	1,220	12,100	10,300	9,090	97,400	15,900	7,550	59,300	200,000	212,000	
Finland	3	--	--	--	14	--	--	20	34	34	
India	5,070	3,270	18,300	1,870	94,400	9,740	2,240	23,100	150,000	153,000	
Italy	378	1,730	15,500	1,430	78,800	45	2,540	20,000	118,000	120,000	
Japan	--	95	--	--	--	--	16	14	30	125	
Mexico	--	273	4	--	75	--	18	87	184	457	
Norway	223	--	--	--	54	--	--	88	142	142	
Portugal	--	7	--	77	144	--	--	186	407	414	
Saudi Arabia	--	96	1,610	--	5,830	--	43	238	7,720	7,820	
South Africa	414	2	59	--	664	--	--	420	1,140	1,150	
Spain	18	165	1,900	73	7,880	--	224	1,210	11,300	11,500	
Zimbabwe	103	--	--	--	103	--	--	--	103	103	
United Kingdom	313	--	6	--	31	--	--	9	46	46	
Other	731	528	4,550	459	15,400	69	350	4,140	24,900	25,500	
Total	12,200	26,700	148,000	15,800	596,000	33,300	24,400	167,000	985,000	1,010,000	

-- Zero.

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

<sup>2</sup>One or more faces worked more than simply cut.

<sup>3</sup>Normal quarry products. Includes crude or roughly trimmed and roughly cut by sawing or otherwise; Harmonized Tariff Schedule of the United States (HTS) codes 2516.11.0000, 2516.12.0030, and 2516.12.0060.

<sup>4</sup>Simply cut with a flat even surface; HTS code 6802.23.0000.

<sup>5</sup>Only one face worked more than simply cut; HTS code 6802.93.0010.

Source: U.S. Census Bureau.

TABLE 16  
U.S. IMPORTS FOR CONSUMPTION OF MAJOR CATEGORIES OF DIMENSION MARBLE AND OTHER CALCAREOUS  
STONE, BY COUNTRY<sup>1</sup>

Country	Dressed							
	Marble, slabs <sup>2</sup>		Marble, other <sup>3</sup>		Other calcareous stone <sup>4</sup>		Rough marble <sup>5</sup>	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
2010:								
Brazil	1,730	\$1,770	104	\$95	809	\$865	--	--
Canada	191	652	439	1,270	3,820	4,510	--	--
China	48,900	37,200	43,300	49,800	11,200	10,700	1,800	\$810
France	194	333	365	629	7,230	6,300	1	3
Greece	2,370	4,570	1,640	3,290	440	504	--	--
India	3,370	3,030	2,300	3,410	6,150	1,030	46	47
Israel	1,830	2,030	2,210	2,470	5,260	4,790	1	3
Italy	43,600	75,700	21,100	35,600	11,000	15,100	174	527
Lebanon	1	3	127	468	202,000	2,210	--	--
Mexico	345	272	1,900	2,750	5,800	6,340	35	20
Portugal	906	1,320	753	1,210	9,960	9,840	--	--
Spain	21,200	18,900	15,700	14,600	17,600	7,460	307	179
Taiwan	369	415	1,330	2,300	98	89	3	3
Turkey	19,400	17,000	66,500	48,400	19,800	6,190	818	102
Other	8,770	6,840 <sup>r</sup>	13,700	12,800 <sup>r</sup>	42,400	12,500 <sup>r</sup>	518	374 <sup>r</sup>
Total	153,000	170,000 <sup>r</sup>	171,000	179,000 <sup>r</sup>	343,000	88,400 <sup>r</sup>	3,710	2,070 <sup>r</sup>
2011:								
Brazil	2,230	2,590	283	289	807	830	--	--
Canada	97	348	784	1,760	5,810	2,730	3	9
China	46,600	36,200	39,500	50,500	17,000	13,500	5,010	1,610
France	126	267	284	644	4,870	7,830	28	19
Greece	3,240	5,910	1,730	3,140	155	230	25	9
India	3,510	2,870	2,050	3,310	2,050	963	142	80
Israel	2,340	2,240	1,240	1,600	4,200	5,240	--	--
Italy	52,400	94,500	17,000	37,100	7,070	11,400	274	487
Lebanon	16	11	--	--	35	126	--	--
Mexico	250	271	1,980	3,180	38,300	7,190	84	50
Portugal	1,130	1,440	668	1,240	9,900	11,400	--	--
Spain	23,500	21,600	15,700	14,900	7,550	7,500	74	92
Taiwan	329	357	1,450	2,510	140	150	--	--
Turkey	18,900	18,900	64,300	47,500	5,910	5,780	70	102
Other	7,670	6,110	13,800	11,900	19,700	11,500	164	136
Total	162,000	194,000	161,000	180,000	124,000	86,400	5,870	2,590

<sup>r</sup>Revised. -- Zero.

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

<sup>2</sup>Worked more than simply cut with a flat surface; Harmonized Tariff Schedule of the United States (HTS) code 6802.91.0500.

<sup>3</sup>Merely cut by sawing or otherwise.

<sup>4</sup>Worked more than simply cut with a flat surface, other than marble and travertine; HTS code 6802.92.0000.

<sup>5</sup>Simply cut by sawing or otherwise into rectangular blocks or slabs; HTS code 2515.12.1000.

Source: U.S. Census Bureau; data adjusted by the U.S. Geological Survey.

TABLE 17  
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION STONE, BY TYPE<sup>1</sup>

Type		2010		2011		Major source for 2011 <sup>2</sup>
		Quantity	Value (thousands)	Quantity	Value (thousands)	
Marble and alabaster <sup>3</sup>	metric tons	13,000	\$16,400	15,700	\$17,900	Italy, 28%.
Slate, roofing	million square feet	6	6,360	7	7,430	Canada, 39%.
Slate, roughly trimmed or simply cut <sup>4</sup>	do.	6,400	2,090	4,890	1,710	China, 65%.
Slate, worked and articles of slate, and other <sup>5</sup>	do.	NA	54,700	NA	54,000	China, 42%.
Travertine, monumental or building stone and articles thereof <sup>6</sup>	do.	20,300	13,900	16,500	13,600	Mexico, 44%.
Travertine, worked monumental or building stone <sup>7</sup>	do.	28,700	18,300	39,200	17,800	China, 38%.

do. Ditto. NA Not available.

<sup>1</sup>Data are rounded to no more than three significant digits. Table does not include totals shown on tables 14 and 15.

<sup>2</sup>By value.

<sup>3</sup>Simply cut with a flat surface.

<sup>4</sup>Rectangular blocks or slabs.

<sup>5</sup>Other than roofing, including agglomerated slate.

<sup>6</sup>Simply cut with a flat surface, other than tiles and granules.

<sup>7</sup>Dressed or polished but not further worked.

Source: U.S. Census Bureau.