



2009 Minerals Yearbook

STONE, DIMENSION [ADVANCE RELEASE]

STONE, DIMENSION

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U.S. production of dimension stone in 2009 was estimated to be 1.62 million metric tons (Mt) valued at \$328 million, which was a 10% decrease in tonnage and a slight increase in value compared with those of 2008 (table 1). Exports decreased in value by 27% to \$48.3 million, and imports for consumption decreased in value by 37% to \$1.35 billion. The value of apparent consumption was estimated to be \$1.6 billion in 2009, which was a 32% decrease compared with that of 2008. 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. Monumental stone, another major type, 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 239 dimension stone-producing operations included in the survey for 2009, 132 (55%) responded, which represented 52% of the tonnage; the remaining tonnage was estimated based partly on prior years' reporting and partly 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 2009, limestone accounted for 548,000 metric tons (t) (34%) of the total domestic dimension stone production of 1.62 Mt, followed by granite (29%), miscellaneous stone (19%), sandstone (15%), marble (2%), and slate (1%). Granite accounted for about \$111 million (34%) of the \$328 million total domestic production value, followed by limestone (32%), miscellaneous (15%), sandstone (11%), marble (4%), and slate (4%).

Production of dimension stone was reported in 37 States. Leading producer States were, in descending order by tonnage, Texas, Wisconsin, Indiana, Georgia, and Vermont. These States accounted for about 56% of domestic production. Leading producer States were, in descending order by value, Texas, Indiana, Vermont, Wisconsin, and New York. These States contributed about 52% of the value of domestic production (table 3).

The top five producing companies were Buechel Stone Corp. in Wisconsin, Champlain Stone, Ltd. in New York, Eden Stone Co. Inc. in Wisconsin, Mezger Enterprises Inc. in Texas, and Swenson Granite Co. LLC in New Hampshire and Vermont. These companies produced about 27% of domestic production in tonnage and about 23% of production value. The leading 14 companies accounted for 50% of total domestically produced tonnage and 50% 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 45 companies operating 74 quarries in 18 States. Production was 469,000 t valued at \$111 million. Granite production tonnage increased by 1% and the value increased by about 4% compared with those of 2008. The top five producing States were, in descending order by tonnage, Georgia, Vermont, North Carolina, Massachusetts, and New Hampshire. Georgia accounted for 30% of the tonnage and 10% of the value of U.S. granite production (table 4).

Champlain Stone Ltd., Cold Spring Granite Co., Fletcher Granite Co., North Carolina Granite Corp., and Swenson Granite Co. LLC, which were the leading producers, accounted for 60% of U.S. granite production by tonnage and 73% of U.S. granite production by value.

Limestone.—Dimension limestone was produced by 37 companies from 50 quarries in 12 States. Production decreased in 2009 by about 9% to 548,000 t from 603,000 t in 2008.

The value increased by 21% to \$106 million in 2009 from \$87.9 million in 2008. The top four producing States were, in descending order by tonnage, Texas, Indiana, Wisconsin, and Arkansas. Indiana, Texas, and Wisconsin combined produced 87% of the U.S. tonnage and 81% of the value (table 5). Buechel Stone, Elliott Stone Co. Inc., Indiana Limestone Co., Mezger Enterprises, and Victor Oolitic Stone Co., which were the leading producers, accounted for 51% of all U.S. limestone tonnage and about 42% of the value.

Sandstone.—Dimension sandstone was produced by 57 companies that operated 70 quarries in 16 States. Production decreased by 28% to 248,000 t in 2009 from 346,000 t in 2008. The value decreased by 27% to \$36.7 million in 2009 from \$50.2 million in 2008. The top five producing States were, in descending order by tonnage, Arizona, Oklahoma, Ohio, Pennsylvania, and Arkansas (table 6).

Cornerstone Materials LLC, Drake Stone Products Inc., Flagstone Heights Inc., Harley Gray Stone Co., and Jude Stone Quarry Inc., which were the leading producers, accounted for about 45% of the tonnage and 41% of the value of domestic production.

Marble.—Marble was mined by five companies that operated six quarries in five States. Production tonnage decreased by 17% in 2009 to 35,300 t valued at \$12.8 million from 42,600 t valued at \$15.1 million in 2008 (table 10). Georgia was the leading producing State, followed by Vermont, Tennessee, Colorado, and Wisconsin. The leading producers were Georgia Marble Co. (a subsidiary of Polycor Inc.) and Vermont Quarries Corp.

Slate.—Slate was produced by 16 companies that operated 21 quarries in 6 States. Production decreased by 19% to 21,600 t in 2009 from 26,900 t in 2008. The value decreased by about 20% to \$14 million in 2009 from \$17.5 million in 2008 (table 12). The top producing States were Vermont, New York, and Pennsylvania. The leading producers were Newmont Slate Co., Inc., Ritchie Bros. Slate Co. Inc., and Western Slate Inc.

Consumption

For the purposes of this report, apparent consumption is calculated to be production plus imports for consumption minus exports; changes in industry stocks are not considered because such data are not available. 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 \$1.6 billion in 2009; this was a 32% decrease compared with that of 2008.

Rough stone represented about 53% of the tonnage and 40% 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 (47%), and in irregular-shaped stone (30%). Dressed stone represented 47% by tonnage and 60% by value of the total stone sold or used. The leading uses within dressed stone, by tonnage, were in other uses (including panels and veneer, tile, blackboards, exports, unspecified uses, structural and sanitary, and unlisted uses) (27%); ashlar and partially squared pieces (24%); and curbing (19%) (table 7).

Uses for the different varieties of dimension stone varied considerably. The major uses of granite sold or used in 2009, by tonnage, were in curbing (29%), monumental rough stone (28%), rough blocks for building and construction (18%), and in other rough stone, including exports and unlisted uses (7%) (table 8). Primary uses of limestone, by tonnage, were in rough blocks for building and construction (37%), and in dressed stone for ashlar and partially squared pieces (24%) (table 9). Primary uses of marble, by tonnage, were in rough stone, other uses (including monumental stone, and unlisted and unspecified uses) (41%), and dressed stone (32%) (table 10). Primary uses of sandstone, by tonnage, were in dressed stone for flagging (32%), and in rough blocks for building and construction (27%) (table 11). Dimension slate sold or used by producers in the United States in 2009, by tonnage, was principally for roofing (73%), flagging (17%), and other uses (7%) (table 12).

Prices

The average 2009 value for dimension stone was \$202 per metric ton, a 13% increase from 2008 based on the USGS canvass. The average unit values for different types of dimension stone were granite, \$237 per ton; limestone, \$193 per ton; marble, \$363 per ton; sandstone, \$147 per ton; and slate, \$646 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 2009, the value of total exports of dimension stone decreased by 27% in value to \$48 million compared with those of 2008; granite accounted for 50% of the export value. The largest share of granite was exported to China (table 13). Although unreported, a significant amount of granite was probably exported back to the U.S. market.

Imports.—The value of imports for consumption of dimension stone types decreased by 37% in 2009 to \$1.35 billion (table 1). Brazil was the leading source of imported granite in 2009, accounting for 37% by value. China, which continued to be a major source of granite, accounted for 28% of granite imports by value. Other important granite import sources included Italy (14%) and India (13%) (table 14). In 2009, China superseded Italy as a major source of rough and dressed marble import tonnage, but not value (tables 15–16). Duties on imported dimension stone are listed in table 2.

World Review

World dimension stone production, including the United States, was estimated to be approximately 107 Mt in 2009. Although there was probably some small-scale production in the majority of the world's nations, dimension stone was produced and officially reported in about 29 countries. The top five producing countries in 2009 were, in descending order by tonnage, China, India, Turkey, Iran, and Italy, and these countries accounted for about 71% of the world's production.

Global production of dimension stone was unchanged in 2009 compared with that of 2008. The United States ranked 10th in world production of dimension stone in 2009 (Napoli, 2010, p. 63).

Outlook

The global economic downturn that commenced in late 2008 and continued through 2009 had a negative effect on both domestic and international sectors of the dimension stone industry. U.S. apparent consumption, production, exports, and imports of dimension stone all declined. The economic downturn resulted in decreased demand for the use of stone in both commercial and residential applications in 2009. Increased activity was observed in the U.S. dimension stone industry by yearend 2009 and continuing into 2010. Industry observers did not anticipate a recovery of the global dimension stone industry until 2010 (Napoli, 2010).

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TABLE 1
 SALIENT U.S. DIMENSION STONE STATISTICS¹

(Thousand metric tons and thousand dollars)

	2005	2006	2007	2008	2009
<u>Sold or used by producers:</u>					
Quantity	2,000	1,850	1,920	1,800	1,620
Value	329,000	334,000	346,000	326,000 ^r	328,000
Exports, value	66,100	76,000	74,300	65,700	48,300
Imports for consumption, value	2,180,000	2,500,000	2,540,000	2,150,000	1,350,000

^rRevised.

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

TABLE 2
U.S. IMPORT DUTIES ON DIMENSION STONE

Tariff item	HTS ¹ code	NTR, ²	
		January 1, 2009	Non-NTR, ² January 1, 2009
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	2516.21.0000	Free	\$5.30 per cubic meter.
Merely cut	2516.22.0000	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.
Other calcareous stone	6802.22.0000	4.9% ad valorem	50% ad valorem.
Granite	6802.23.0000	3.7% ad valorem	60% ad valorem.
Other stone	6802.29.0000	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.

¹Harmonized Tariff Schedule of the United States.

²Normal trade relations.

TABLE 3
DIMENSION STONE SOLD OR USED BY PRODUCERS IN
THE UNITED STATES, BY STATE¹

State	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Alabama	6,720	\$3,720	4,020	\$1,460
Arizona	123,000	16,400	94,500	13,800
Arkansas	21,400	2,740	18,300	2,360
California	26,200	7,320	24,500	6,100
Colorado	27,500	4,510	10,600	3,110
Georgia	169,000	18,200	153,000	16,900
Idaho	33,600	4,130	25,200	3,370
Indiana	203,000	35,600	206,000	41,500
Kansas	19,900	2,560	29,200	4,650
Maine	7,120	1,720	5,800	1,300
Massachusetts	53,000	7,140	43,800	6,130
Minnesota	31,100	17,200	25,100	16,700
New Hampshire	33,800	4,900	34,800	4,880
New Mexico	26,600	939	32,300	986
New York	57,000	16,000	96,900	28,200
North Carolina	58,400	25,200	61,500	22,300
Ohio	28,700 ^r	3,660 ^r	25,800	4,790
Oklahoma	53,000	8,750	34,700	4,330
Pennsylvania	41,700	11,100	38,500	9,670
South Carolina	3,800	472	3,390	401
Texas	269,000	27,700	236,000	42,000
Utah	9,130	707	8,700	844
Vermont	112,000	35,900	108,000	30,000
Wisconsin	250,000	33,300	207,000	29,800
Other ²	145,000 ^r	40,100 ^r	94,600	33,400
Total	1,800,000	326,000 ^r	1,620,000	328,000

^rRevised.

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

²Includes Connecticut, Illinois, Maryland, Michigan, Missouri, Montana, Nevada, South Dakota, Tennessee, Virginia, Washington, West Virginia, and Wyoming.

TABLE 4
 DIMENSION GRANITE SOLD OR USED BY PRODUCERS IN
 THE UNITED STATES, BY STATE¹

State	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
California	13,500	\$4,600	13,300	\$3,330
Georgia	153,000 ^r	11,600	140,000	11,300
Maine	7,120	1,720	5,800	1,300
Massachusetts	41,200	5,540	34,900	4,760
New Hampshire	33,800	4,900	34,800	4,880
North Carolina	50,300	23,900	49,300	21,000
South Carolina	3,800	472	3,390	401
Vermont	76,300	21,200	82,000	19,100
Other ²	85,900	33,100	105,000	45,300
Total	465,000 ^r	107,000	469,000	111,000

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

²Includes Maryland, Minnesota, Missouri, New York, Oklahoma, Pennsylvania, South Dakota, Texas, Virginia, and Wisconsin.

TABLE 5
 DIMENSION LIMESTONE SOLD OR USED BY PRODUCERS IN
 THE UNITED STATES, BY STATE¹

State	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Arkansas	1,080	\$115	885	\$98
Indiana	203,000	35,600	206,000	41,500
Texas	253,000	24,800	223,000	39,500
Wisconsin	81,100	8,800	49,100	4,730
Other ²	65,100	18,600	69,200	20,400
Total	603,000	87,900	548,000	106,000

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

²Includes California, Illinois, Kansas, Maryland, Minnesota, Ohio, Oklahoma, and Pennsylvania.

TABLE 6
DIMENSION SANDSTONE SOLD OR USED BY PRODUCERS IN
THE UNITED STATES, BY STATE¹

State	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Arizona	123,000	\$16,400	94,500	\$13,800
Arkansas	20,300	2,630	17,400	2,260
New York	53,300	13,700	15,900	3,350
Ohio	21,700 ^r	3,260 ^r	20,900	4,540
Oklahoma	39,600	7,190	22,600	3,000
Pennsylvania	14,100	2,290	19,300	2,370
Other ²	78,000	7,430	57,800	7,320
Total	350,000 ^r	52,900 ^r	248,000	36,700

^rRevised.

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

²Includes California, Colorado, Idaho, Kansas, Michigan, North Carolina, Texas, Utah, West Virginia, and Wisconsin.

TABLE 7
DIMENSION STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE^{1,2}

Use	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	437,000 ^r	\$55,700 ^r	402,000	\$64,900
Irregular-shaped stone	273,000	30,800	259,000	27,800
Monumental	176,000 ^r	29,900 ^r	164,000	30,600
Other ³	41,200	9,510	26,900	7,310
Dressed stone:				
Ashlars and partially squared pieces	246,000 ^r	46,700 ^r	185,000	42,200
Slabs and blocks for building and construction	67,000	13,200	66,500	22,000
Monumental	47,400 ^r	23,000 ^r	26,900	12,800
Curbing	98,900 ^r	11,400 ^r	145,000	19,300
Flagging	135,000	21,600	115,000	14,900
Flagging (slate)	4,860	2,730	3,640	2,270
Roofing slate	19,400	11,800	15,800	9,160
Flooring slate	789	905	640	933
Other ⁴	258,000	69,100	206,000	73,700
Total	1,800,000	326,000 ^r	1,620,000	328,000

^rRevised.

¹Includes Puerto Rico.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Includes flagging stone, exports, uses not specified, and uses not listed.

⁴Includes panels and veneer, tile, blackboards, exports, uses not specified, structural and sanitary, and uses not listed.

TABLE 8
DIMENSION GRANITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE¹

Use	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	75,700 ^r	\$13,900 ^r	84,000	\$16,600
Irregular-shaped stone	4,630	653	13,800	1,060
Monumental	141,000 ^r	23,500	133,000	24,100
Other ²	57,400	10,000	33,600	6,310
Dressed stone:				
Ashlars and partially squared pieces	6,610	3,570	12,100	3,910
Slabs and blocks for building and construction	3,670	975	920	1,090
Monumental	47,300 ^r	23,000 ^r	26,900	12,700
Curbing	92,100 ^r	9,930 ^r	138,000	18,500
Other ³	36,200	21,500	27,100	27,000
Total	465,000 ^r	107,000	469,000	111,000

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

²Includes exports and uses not listed.

³Includes panels and veneer, tile, uses not specified, and uses not listed.

TABLE 9
DIMENSION LIMESTONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE¹

Use	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	232,000	\$27,400	200,000	\$33,500
Irregular-shaped stone	131,000	11,100	115,000	10,100
Other ²	6,520	2,190	4,790	1,820
Dressed stone:				
Ashlars and partially squared pieces	136,000	23,600	133,000	28,200
Slabs and blocks for building and construction	22,500	3,100	28,600	10,100
Flagging	8,890	1,850	11,100	2,170
Other ³	66,900	18,700	55,300	20,500
Total	603,000	87,900	548,000	106,000

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

²Includes exports, monumental, and uses not listed.

³Includes curbing limestone, panels and veneer, tile, uses not specified, and uses not listed.

TABLE 10
DIMENSION MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE^{1,2}

Use	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	16,000	\$3,350	9,610	\$1,640
Other ³	13,900	5,670	14,500	5,910
Dressed stone ⁴				
Total	42,600	15,100	35,300	12,800

¹Includes Puerto Rico.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Includes monumental stone, uses not specified, and uses not listed.

⁴Includes slabs and blocks, flagging, monumental, panels and veneer, ashlar and partially squared pieces, tile, and uses not listed.

TABLE 11
DIMENSION SANDSTONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE¹

Use	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	94,200	\$7,760 ^r	67,100	\$6,890
Irregular-shaped stone	8,580	1,490	37,800	5,590
Other ²	36,800	6,330	17,000	3,270
Dressed stone:				
Ashlar and partially squared pieces	68,000 ^r	12,900 ^r	21,400	4,080
Slabs and blocks for building and construction	26,500	5,860	3,880	871
Flagging	83,100	10,000	79,200	9,360
Panels and veneer	10,300	1,960	6,280	1,370
Other ³	22,200	6,640	15,700	5,220
Total	350,000 ^r	52,900 ^r	248,000	36,700

^rRevised.

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

²Includes flagging stone and uses not listed.

³Includes tile, curbing, exports, uses not specified, and uses not listed.

TABLE 12
DIMENSION SLATE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE¹

Use	2008		2009	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Flagging	4,860	\$2,730	3,640	\$2,270
Roofing	19,400	11,800	15,800	9,160
Flooring	789	905	640	933
Other ²	1,810	2,060	1,600	1,620
Total	26,900	17,500	21,600	14,000

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

²Includes structural and sanitary purposes, uses not specified, and uses not listed.

TABLE 13
U.S. EXPORTS OF DIMENSION STONE, BY TYPE¹

(Thousand metric tons and thousand dollars)

Type	2008		2009		Major destination in 2009 ²
	Quantity	Value	Quantity	Value	
Marble, travertine, alabaster worked ³	49	7,740	43	5,580	Canada, 45%.
Marble, travertine, crude or roughly trimmed	4	1,530	2	1,250	Canada, 39%.
Marble, travertine, merely cut, by sawing or otherwise ⁴	14	3,120	4	2,010	United Arab Emirates, 27%.
Granite, crude or roughly trimmed	95	32,600	67	20,800	China, 54%.
Granite, merely cut by sawing or otherwise ⁴	8	4,120	8	3,310	China, 24%.
Sandstone, crude or roughly trimmed	NA	NA	NA	NA	NA.
Sandstone, merely cut, by sawing or otherwise ⁴	NA	NA	NA	NA	NA.
Slate, worked and articles of slate	NA	3,810	NA	4,340	Singapore, 47%.
Slate, whether or not roughly trimmed or merely cut ⁴	NA	633	NA	789	Latvia, 25%.
Other calcareous monumental or building stone; alabaster ⁵	29	7,650	22	6,290	Canada, 93%.
Other monumental or building stone ⁶	10	4,460 ^r	15	3,870	Canada, 67%.
Total	XX	65,700	XX	48,300	

^rRevised. NA Not available. XX Not applicable.

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

²By value.

³Further worked than simply cut with a flat surface.

⁴Blocks or slabs.

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

⁶Crude, 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 14
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION GRANITE, BY COUNTRY¹

(Thousand dollars)

Country	Dressed											
	Worked granite									Total worked	Total dressed	
	Rough granite ³	Simply cut ⁴	Not cut to size ⁵	Cut to size ²								Other
				Maximum 1.5 centimeters	1.5–7.5 centimeters	Monumental minimum 7.5 centimeters	Building minimum 7.5 centimeters					
2008:												
Argentina	163	19	237	18	1,130	--	--	175	1,560	1,580		
Brazil	1,850	16,100	95,400	4,490	266,000	78	4,050	38,600	409,000	425,000		
Canada	3,720	722	1,310	2,940	9,350	9,850	4,850	3,780	32,100	32,800		
China	4,950	29,200	15,000	19,500	139,000	14,900	19,900	59,900	268,000	297,000		
Finland	2	--	--	--	67	--	5	21	93	93		
India	12,300	14,400	24,600	4,440	88,500	8,760	3,370	25,700	155,000	170,000		
Italy	938	8,440	33,600	3,330	124,000	139	5,310	32,400	199,000	208,000		
Japan	6	19	--	--	292	19	248	8	567	586		
Mexico	--	839	12	4	92	--	132	454	694	1,530		
Norway	168	20	--	--	137	--	6	22	165	185		
Portugal	23 ^r	104	35	335	291	--	--	142	803	907		
Saudi Arabia	--	--	--	--	249	--	5	48	302	302		
South Africa	1,900	125	190	--	215	--	34	114	553	678		
Spain	71	1,790	1,610	249	8,910	--	217	1,010	12,000	13,800		
Zimbabwe	118	--	--	--	41	--	--	--	41	41		
Other	955 ^r	5,750	7,720	4,050	18,200 ^r	237	1,810	5,090	37,100	42,900		
Total	27,200	77,500	180,000	39,300	657,000	34,000	39,900	167,000	1,120,000	1,190,000		
2009:												
Argentina	192	3	83	--	486	--	--	21	590	593		
Brazil	722	2,660	60,200	3,410	184,000	67	3,010	30,400	281,000	284,000		
Canada	3,130	471	1,660	2,290	6,870	9,980	1,790	3,090	25,700	26,200		
China	1,690	15,600	9,610	14,200	105,000	12,900	11,400	46,600	200,000	216,000		
Finland	10	--	--	--	25	--	--	13	38	38		
India	5,430	4,140	13,300	2,140	49,100	8,930	2,390	15,500	91,300	95,500		
Italy	553	1,580	16,400	1,720	65,400	--	3,420	16,200	103,000	105,000		
Japan	2	--	--	--	9	--	193	11	213	213		
Mexico	5	181	--	--	83	--	10	207	300	481		
Norway	230	6	--	12	35	--	--	16	63	69		
Portugal	--	24	20	45	139	--	37	223	464	488		
Saudi Arabia	--	--	--	--	166	--	3	29	198	198		
South Africa	658	3	54	--	150	--	4	24	232	235		
Spain	69	315	570	289	5,650	--	31	811	7,350	7,670		
Zimbabwe	1,900	--	--	--	--	--	--	--	--	--		
Other	744	2,020	6,110	756	14,300	122	772	3,210	25,300	27,300		
Total	15,300	27,000	108,000	24,800	432,000	32,000	23,100	116,000	736,000	763,000		

^rRevised. -- Zero.

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

²One or more faces worked more than simply cut.

³Normal 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.

⁴Simply cut with a flat even surface; HTS code 6802.23.0000.

⁵Only one face worked more than simply cut; HTS code 6802.93.0010.

Source: U.S. Census Bureau.

TABLE 15
U.S. IMPORTS FOR CONSUMPTION OF MAJOR CATEGORIES OF DIMENSION MARBLE AND OTHER CALCAREOUS
STONE, BY COUNTRY¹

Country	Dressed						Rough marble ⁵	
	Marble, slabs ²		Marble, other ³		Other calcareous stone ⁴		Quantity	Value
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)	(metric tons)	(thousands)
2008:								
Brazil	3,970	3,970	292	322	1,520	1,780	31	112
Canada	158	335	998	2,490	8,430	7,870	5	14
China	44,400	36,300	55,900	64,900	17,000	16,800	1,940	1,520
France	108	250	349	913	61,700	17,100	5	53
Greece	6,120	11,700	7,440	8,900	892	1,530	1	8
India	6,170	6,300	3,160	6,330	4,810	3,720	37	102
Israel	6,440	4,510	6,230	5,820	32,500	17,300	1,690	66
Italy	67,500	125,000	48,700	85,800	92,500	35,800	511	1,520
Lebanon	137	61	555	2,050	488,000	15,400	--	--
Mexico	1,160	1,120	5,900	8,160	30,900	10,500	69	73
Portugal	2,310	3,050	1,830	3,600	28,500	18,100	--	--
Spain	29,600	32,200	25,200	28,500	98,000	19,400	658	524
Taiwan	815	895	1,690	2,820	177	261	--	--
Turkey	22,600	20,400	71,500	60,800	192,000	12,000	145	189
Other	16,800 ^r	17,400 ^r	26,100 ^r	25,700 ^r	32,700 ^r	25,800 ^r	533	252
Total	208,000	263,000	256,000	307,000	1,090,000	203,000	5,630	4,430
2009:								
Brazil	1,680	1,680	170	193	715	955	22	36
Canada	151	438	455	1,900	9,230	5,420	1	3
China	47,500	33,700	43,900	49,000	36,200	13,400	1,970	865
France	37	185	185	609	5,710	10,500	3	7
Greece	3,600	8,110	2,530	4,850	479	785	--	--
India	3,830	3,700	2,120	3,580	3,850	2,700	6	19
Israel	2,720	3,500	3,700	3,710	5,180	6,180	--	--
Italy	41,600	80,100	25,800	43,500	14,600	18,500	376	481
Lebanon	4	3	524	991	469,000	5,650	22	12
Mexico	393	468	2,070	2,800	5,810	6,130	142	28
Portugal	1,220	1,530	908	1,740	14,200	13,800	4	16
Spain	18,000	17,100	14,900	17,200	12,000	11,800	448	227
Taiwan	437	506	1,120	2,120	80	88	5	30
Turkey	19,400	15,400	49,400	38,900	44,400	6,030	175	132
Other	10,900	9,910	14,100	13,400	41,300	12,700	299	157
Total	151,000	176,000	162,000	185,000	663,000	115,000	3,470	2,010

^rRevised. -- Zero.

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

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

³Merely cut by sawing or otherwise.

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

⁵Simply 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 16
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION STONE, BY TYPE¹

Type		2008		2009		Major source for 2009 ²
		Quantity	Value (thousands)	Quantity	Value (thousands)	
Calcareous stone, other ³	metric tons	NA	NA	NA	NA	NA.
Marble and alabaster ⁴	do.	18,600	\$23,400	12,300	\$16,000	Italy, 34%.
Sandstone, cut, by sawing or otherwise ⁵	do.	NA	NA	NA	NA	Italy, NA.
Slate, roofing	million square feet	11	8,560	6	5,910	Canada, 35%.
Slate, roughly trimmed or simply cut ⁵	do.	7,980	3,260	3,190	1,220	China, 45%.
Slate, worked and articles of slate, and other ⁶	do.	NA	89,200	NA	56,000	China, 44%.
Travertine, monumental or building stone and articles thereof ⁷	do.	45,400	23,100	14,600	13,000	Mexico, 27%.
Travertine, worked monumental or building stone ⁸	do.	45,100	32,100	21,200	16,300	China, 31%.
Other stone, monumental or building stone ⁹	do.	NA	NA	NA	NA	Turkey, NA.

do. Ditto. NA Not available.

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

²By value.

³Simply cut with a flat surface, other than marble, travertine, and alabaster.

⁴Simply cut with a flat surface.

⁵Rectangular blocks or slabs.

⁶Other than roofing, including agglomerated slate.

⁷Simply cut with a flat surface, other than tiles and granules.

⁸Dressed or polished but not further worked.

⁹Simply cut with a flat surface, other than granite, calcareous stone, alabaster, slate, dolomite, quartzite, and steatite.

Source: U.S. Census Bureau.