



2019 Minerals Yearbook

STONE, DIMENSION [ADVANCE RELEASE]

STONE, DIMENSION

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U.S. production of dimension stone in 2019 was estimated to be 2.52 million metric tons (Mt) valued at \$415 million, which was a 5% decrease in both tonnage and value compared with production in 2018. Exports decreased by 15% in value to \$59.3 million, and imports for consumption decreased by 9% in value to \$1.90 billion. The value of apparent consumption was estimated to be \$2.26 billion in 2019, 8% less than that in 2018 (table 1). Trade data in this report are from the U.S. Census Bureau. All percentages in the report were calculated using unrounded data.

Dimension stone is 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 usual requirements from 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 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 2017 U.S. Geological Survey Minerals Yearbook, volume I, Metals and Minerals.

Throughout history, various civilizations have used dimension stone as a building material. With the advent of modern construction materials and techniques (such as reinforced concrete), the use of dimension stone for framework and structural support in buildings diminished. In recent years, most dimension stone has been used in construction applications and for renovation and restoration, with the largest portions being sold or used as ashlar (rectangular or square cut stone used for building purposes) and masonry 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.

Architects, builders, fabricators, and quarriers have important roles in the selection of specific dimension stone types for appropriate end uses. Most dimension stone types are not isotropic (possessing physical properties that are uniform in all directions), particularly sedimentary rocks (Smith, 1999, p. 360). Extensive testing of the physical properties of a stone are important in order to select the stone for the most appropriate end use. For example, ashlar must possess color variability and sustainability along with weathering resistance, and solid stone masonry bridge piers must possess

compressive strength and abrasion and weathering resistance (Smith, 1999, p. 361).

Legislation and Government Programs

One of the most important issues affecting the dimension stone industry has been the potential effect of crystalline silica on human health. The understanding of the regulations, the implementation of the measurements and actions taken to mitigate exposure to crystalline silica, and the appreciation of the effect of such exposure on the future of many industries remain central to an ongoing debate. On March 25, 2016, the Occupational Safety and Health Administration (OSHA) issued a final ruling on permissible occupational exposure limits to respirable crystalline silica. By issuing the ruling, OSHA amended its existing standards for occupational exposure to respirable crystalline silica. The final rule established a permissible exposure limit of 50 micrograms of respirable crystalline silica per cubic meter of air as an 8-hour time-weighted average in all industries covered by the rule. The final rule was made effective on June 23, 2016. Phased implementation of the regulations was scheduled to take effect from 2017 through 2021 (Occupational Safety and Health Administration, 2016, p. 16286, 16288). OSHA maintains a website, which includes an overview of crystalline silica and information on topics such as the health effects of respirable crystalline silica, guidance for OSHA regulations for the construction and maritime industries, sampling and analysis, and frequently asked questions about the OSHA standard for respirable crystalline silica (Occupational Safety and Health Administration, 2019).

Production

Dimension stone production data for the United States were 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 261 dimension-stone-producing operations included in the 2019 survey, 80 (31%) responded, which represented 25% of the tonnage; the remaining tonnage was estimated based on prior years' reporting and (or) employment data provided by the Mine Safety and Health Administration.

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

¹Deceased.

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 any given year, commercial and residential construction accounts for a significant portion of the consumption of dimension stone of all types. In 2019, sales of new homes nationwide increased by about 12% compared with those in 2018. Sales of new homes nationwide were sluggish early in the year, but sales accelerated by yearend 2019. Nationwide, sales of existing homes decreased slightly in 2019 compared with those in 2018, likely causing a slowing of residential and commercial renovation and refurbishment activity (National Association of Home Builders, 2020). Additionally, declines in the production of dimension stone in the United States in 2019 may reflect a slowing of dimension stone sales worldwide (International Marmme Macchine Carrara SpA, 2020).

In 2019, limestone accounted for 1.27 Mt (50%) of the total domestic dimension stone production quantity of 2.52 Mt, followed by sandstone (19%), granite (17%), miscellaneous stone (9%), slate (2%), and marble (2%). By value, limestone accounted for about \$186 million (45%) of the \$415 million total domestic production value, followed by granite (25%), sandstone (11%), miscellaneous stone (9%), slate (6%), and marble (4%) (table 2).

Production of dimension stone was reported in 34 States. In descending order by tonnage, leading producer States were Texas, Wisconsin, Indiana, Georgia, and Vermont; these States accounted for 71% of domestic production. In descending order by value, leading producer States were Texas, Wisconsin, Vermont, Indiana, and North Carolina; these States accounted for 60% of the value of domestic production (table 3).

The top five producing companies were Gordon Stone Co. in Texas; Polycor Inc. in Georgia, Indiana, New Hampshire, and North Carolina; Eden Stone Co., Inc. in Wisconsin; Mezger Enterprises, Inc. in Texas; and Cooper Stone, Inc. in Texas. These companies accounted for about 26% of domestic production tonnage and about 18% of production value. The leading 15 companies accounted for 44% of total domestically produced tonnage and 34% of production 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.

In October 2019, Canada's Polycor, the leading producer of natural stone in North America, completed an acquisition of Elliott Stone Co. Inc., a quarryier and fabricator of Indiana limestone in Bedford, IN. Founded in 1957, Elliott Stone was unique among limestone quarryiers in that it produced the bulk of its dimensional limestone from an underground quarry. The acquisition of Elliott Stone follows the merger of the Indiana Limestone Co. with Polycor Inc. in 2018 (Polycor Inc., 2019).

Granite.—Dimension granite was produced by 35 companies operating 52 quarries in 17 States. Production was 430,000 metric tons (t) valued at \$105 million in 2019. Granite production tonnage decreased by 11% and the value decreased by 3% compared with that in 2018 (table 2). The top producing States were, in descending order by tonnage, Georgia and Vermont, and they accounted for 42% of the tonnage and 21%

of the value of U.S. granite production (table 4). Champlain Stone Ltd., Crystal Blue Quarries, Inc., Michels Corp., Polycor, and Williams Stone Co. Inc., which were the leading producers, accounted for 54% of U.S. granite production by tonnage and 42% of U.S. granite production by value.

Limestone.—Dimension limestone was produced by 80 companies from 91 quarries in 18 States. Production decreased by 5% in 2019 to 1.27 Mt from 1.33 Mt in 2018. The value decreased by 6% to \$186 million in 2019 from \$196 million in 2018 (table 2). The top five producing States were, in descending order by tonnage, Texas, Indiana, Wisconsin, Missouri, and Oklahoma, which combined produced 92% of U.S. tonnage and 89% of the value (table 5). Aguado Stone Inc., Buechel Stone, Cooper Stone Inc., Polycor, and Mezger Enterprises, which were the leading producers, accounted for 26% of all U.S. limestone tonnage and about 23% of the value.

Marble.—Marble was mined by five companies that operated five quarries in four States. Production tonnage decreased by 16% in 2019 to 47,100 t valued at \$16.8 million from 55,900 t valued at \$19.2 million in 2018 (tables 2, 10). Vermont was the leading producing State by tonnage, followed by Colorado, Tennessee, and Georgia. The leading producers were Colorado Stone Quarries, Inc. and Vermont Quarries Corp.

Sandstone.—Dimension sandstone was produced by 49 companies that operated 53 quarries in 15 States. Production tonnage decreased by 6% to 482,000 t in 2019 from 511,000 t in 2018. The production value decreased by 4% to \$45.9 million in 2019 from \$47.7 million in 2018 (tables 2, 6). The top five producing States were, in descending order by tonnage, Texas, Arizona, Pennsylvania, Oklahoma, and New York, and accounted for 89% of U.S. tonnage and 75% of value (table 6). Arnold Stone Inc., Cobra Stone Inc., Drake Stone Products Inc., Gordon Stone Co., Harley Gray Stone Co., and Millsap Materials, LLC, which were the leading producers, accounted for about 66% of the tonnage and 37% of the value of domestic production.

Slate.—Slate was produced by 14 companies that operated 14 quarries in six States. Production tonnage increased slightly to 55,900 t in 2019 from 55,300 t in 2018. The value increased by 5% to \$25.3 million in 2019 from \$24.0 million in 2018 (table 2). The top producing States by tonnage were Idaho, Vermont, and Montana, and accounted for 91% of U.S. tonnage and 85% of value. The leading producers were estimated to be Oakley Mountain Corp., Montana Rockworks Inc., and Greenstone Slate Company.

Consumption

For the purposes of this report, apparent consumption is defined as production plus imports for consumption minus exports. Value data are used in the apparent consumption calculation because tonnage data are not available for all imports and exports. Overall, the value of apparent consumption of dimension stone in the United States was estimated to be \$2.26 billion in 2019, 8% less than that in 2018 (table 1).

In 2019, rough stone represented about 59% of the tonnage and 52% 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 (55%) and irregular-shaped stone (35%). Dressed stone represented 41% by tonnage and 48% by value of the total stone sold or used. The leading uses within dressed stone, by tonnage, were in ashlar and partially squared pieces (50%), flagging (12%), curbing (10%), and slabs and blocks for building and construction (10%) (table 7).

Uses for the different varieties of dimension stone varied considerably. The major uses of granite sold or used in 2019, by tonnage, were in rough blocks for building and construction (25%), curbing (24%), monumental rough stone (17%), and in other dressed stone (12%) (table 8). Primary uses of limestone, by tonnage, were in rough blocks for building and construction (37%), ashlar and partially squared pieces (27%), and irregular-shaped stone (22%) (table 9). The primary use of marble, by tonnage, was in rough blocks for building and construction (45%) (table 10). Primary uses of sandstone, by tonnage, were in irregular-shaped stone (41%), rough blocks for building and construction (26%), and flagging (16%) (table 11). Primary uses of slate, by tonnage, were for flagging (68%) and roofing (28%) (table 12).

Prices

The 2019 estimated average unit value of dimension stone sold or used by domestic producers was \$165 per metric ton, a slight increase from that in 2018 based on the USGS canvass data. The average unit values for various types of dimension stone were slate, \$452 per metric ton; marble, \$357 per metric ton; granite, \$244 per metric ton; limestone, \$146 per metric ton; and sandstone, \$95 per metric ton (table 2). Prices are substantially different not only for the type of stone but also for the appearance of the same type of stone. Color, grain structure, and finish contribute significantly to price and marketability.

Foreign Trade

Exports.—In 2019, the value of total exports of dimension stone decreased by 15% to \$59.3 million compared with that in 2018; various types of marble accounted for 42% of the export value. The largest share of marble was exported to Italy (table 13). Although unreported, a significant quantity of U.S. marble processed overseas probably was exported back to the U.S. market.

Imports.—The value of imports for consumption of dimension stone decreased by 9% in 2019 to \$1.90 billion (table 1). Brazil continued to be the leading source of imported granite in 2019, accounting for 46% by value. India, which was a major source of granite, accounted for 20% of granite imports by value. Other important import sources of granite included China (19%) and Italy (6%) (table 15). In 2019, Turkey remained the leading source of rough and dressed marble imports and accounted for about 40% by tonnage. Additionally, Turkey accounted for 18% of the total value of rough and dressed marble imports in 2019. In 2019, China remained a leading source of rough and dressed marble imports and accounted for about 19% by tonnage and 22% by value. In 2019, India was a leading source of rough and dressed marble

imports and accounted for about 13% by tonnage and 8% by value. Italy continued to be a major source of rough and dressed marble imports and accounted for 12% by tonnage and 31% by value. In 2019, Italy again had the highest total value of rough and dressed marble imports (tables 16, 17). Duties on imported dimension stone are listed in table 14.

Outlook

In December 2019, an outbreak of a novel coronavirus was first identified in China. The World Health Organization declared a global pandemic on March 11, 2020, known as the coronavirus disease 2019 (COVID-19) pandemic. Measures instituted to mitigate the spread of the COVID-19 pandemic, such as closures of nonessential businesses, are likely to cause disruptions in the mining industry across the United States and around the world. The duration and the outcome of the COVID-19 pandemic remains uncertain, but it is expected that the economies of the United States and the world as a whole will likely be negatively affected, which could influence the performance of the dimension stone industry.

U.S. apparent consumption, by value, of dimension stone decreased by 8% in 2019 (table 1). The change in U.S. apparent consumption of dimension stone in 2019 was likely the result of lessened activity in the sales of existing homes and home remodeling and renovation market. Additionally, declines in the production of dimension stone in the United States in 2019 may reflect a slowing of dimension stone sales worldwide. U.S. apparent consumption, by value, of dimension stone has steadily declined since 2015. This trend may continue in 2020.

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TABLE 1
 SALIENT U.S. DIMENSION STONE STATISTICS¹

(Thousand metric tons and thousand dollars)

	2015	2016	2017	2018	2019
Sold or used by producers:^c					
Quantity	2,700	2,960	2,880	2,660	2,520
Value	469,000	448,000	453,000	437,000	415,000
Exports, value	74,900	65,300	68,800	69,500	59,300
Imports for consumption, value	2,350,000	2,180,000	2,120,000	2,090,000	1,900,000
Apparent consumption, value ²	2,740,000	2,560,000	2,510,000	2,460,000	2,260,000 ^c

^cEstimated.

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits.

²Equals value of sold or used by producers plus imports for consumption minus exports.

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

Type	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Granite	484,000	\$108,000	430,000	\$105,000
Limestone	1,330,000	196,000	1,270,000	186,000
Marble	55,900	19,200	47,100	16,800
Sandstone	511,000 ^r	47,700 ^r	482,000	45,900
Slate	55,300	24,000	55,900	25,300
Miscellaneous stone ³	217,000 ^r	41,400 ^r	237,000	37,200
Total	2,660,000	437,000	2,520,000	415,000

^rRevised.

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

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

³Includes any other type of stone used as building stone and commercial stone that does not fit other listed categories.

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

State	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Alabama	W	W	W	W
Arizona	45,300	\$4,960	44,100	\$5,980
Arkansas	11,800	1,500	11,100	1,450
California	17,600	6,300	9,240	2,920
Colorado	28,500	W	21,800	11,700
Connecticut	17,000	3,880	15,900	5,630
Georgia	138,000	12,700	112,000	12,400
Idaho	68,200	10,900	69,800	10,800
Illinois	W	W	W	W
Indiana	198,000	33,500	180,000	27,700
Kansas	W	W	W	W
Maine	W	W	W	W
Maryland	10,400	2,250	4,940	1,230
Massachusetts	W	W	W	W
Michigan	W	W	W	W
Minnesota	56,000	19,800	35,000	14,400
Missouri	60,700	14,900	56,300	14,900
Montana	W	W	W	W
Nevada	W	W	W	W
New Hampshire	W	W	W	W
New Mexico	W	W	W	W
New York	74,500	13,700	72,500	12,200
North Carolina	33,200	17,900	30,700	16,400
Ohio	W	W	W	W
Oklahoma	60,400	5,620	51,800	4,390
Pennsylvania	48,200	7,340	38,000	6,570
South Dakota	W	W	W	W
Tennessee	42,300	8,340	35,100	6,980
Texas	1,130,000	126,000	1,170,000	140,000
Utah	3,700	501	W	W
Vermont	105,000	27,500	109,000	28,300
Virginia	14,200	8,440	12,600	9,030
Washington	W	W	W	W
Wisconsin	233,000	47,000	229,000	36,300
Other	265,000	64,200	216,000	46,200
Total	2,660,000	437,000	2,520,000	415,000

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

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

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

State	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Georgia	127,000	\$10,600	103,000	\$11,200
Vermont	75,100	10,800	78,900	11,300
Other ²	282,000	86,700	247,000	82,200
Total	484,000	108,000	430,000	105,000

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes California, Connecticut, Maine, Maryland, Massachusetts, Minnesota, Missouri, New Hampshire, New York, North Carolina, Oklahoma, South Dakota, Texas, Virginia, and Wisconsin.

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

State	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Alabama	13,300	\$2,380	12,200	\$2,190
Arkansas	472	47	200	44
California	W	W	W	W
Colorado	4,540	320	4,310	304
Connecticut	5,260	1,160	5,620	1,240
Idaho	W	W	22,300	1,840
Indiana	198,000	33,500	180,000	27,700
Kansas	W	W	6,830	1,360
Minnesota	40,200	11,300	20,300	6,360
Missouri	50,000	8,390	44,600	7,550
New York	15,500	2,650	12,300	2,120
North Carolina	--	--	30	6
Oklahoma	30,100	2,480	W	W
Tennessee	24,700	4,750	16,300	3,490
Texas	782,000	96,300	808,000	109,000
Utah	1,180	122	2,180	226
Virginia	2,270	900	2,270	1,300
Wisconsin	134,000	29,100	107,000	18,300
Other	32,200	3,130	25,100	2,230
Total	1,330,000	196,000	1,270,000	186,000

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

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

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

State	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Arizona	40,600	\$4,280	38,900	\$5,240
Arkansas	11,300	1,450	10,900	1,390
California	--	--	W	W
Colorado	5,330	1,100	4,140	874
Kansas	347	74	25	28
Maryland	W	W	W	W
Michigan	10,700	909	13,800	1,170
New York	13,700	1,930	15,600	1,240
Ohio	W	W	13,200	6,760
Oklahoma	19,700	2,240	17,800	1,570
Pennsylvania	42,100	4,840	32,500	4,410
Tennessee	5,810	582	7,890	708
Texas	316,000	22,600	325,000	21,900
Washington	--	--	132	32
Wisconsin	861	W	785	203
Other	44,900	7,720	2,220	394
Total	511,000 ^r	47,700 ^r	482,000	45,900

^rRevised. W Withheld to avoid disclosing company proprietary data; included in "Other." -- Zero.

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7
DIMENSION STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE¹

Use	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	761,000	\$125,000	812,000	\$139,000
Irregular-shaped stone	498,000	45,700	519,000	42,300
Monumental	114,000	19,700	96,800	18,400
Other ²	66,800	16,400	58,000	16,600
Dressed stone:				
Ashlars and partially squared pieces	504,000	88,200	514,000	84,500
Slabs and blocks for building and construction	146,000	26,900	98,500	18,700
Monumental	34,500	12,400	26,100	10,400
Curbing	128,000	20,400	103,000	18,600
Flagging	128,000	12,500	123,000	10,600
Flagging (slate)	34,800	8,130	37,800	9,200
Panels and veneer	106,000	30,700	79,100	23,700
Roofing slate	17,700	14,400	15,400	14,600
Flooring slate	755	1,000	787	1,030
Tile, all dimensions	13,700	3,030	7,970	1,740
Other ³	105,000	12,700	29,900	5,880
Total	2,660,000	437,000	2,520,000	415,000

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes flagging stone, exports, uses not specified, and uses not listed.

³Includes blackboards, exports, structural and sanitary, uses not specified, and uses not listed.

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

Use	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	96,700	\$26,200	109,000	\$34,800
Irregular-shaped stone	30,800	2,000	30,800	3,650
Monumental	98,600	15,300	75,000	14,700
Other ²	1,730	673	1,860	300
Dressed stone:				
Ashlars and partially squared pieces	35,500	11,700	33,900	11,000
Slabs and blocks for building and construction	11,500	2,800	11,100	3,410
Monumental	23,500	10,400	16,100	8,580
Curbing	128,000	20,300	102,000	18,500
Other ³	57,700	18,700	49,800	9,750
Total	484,000	108,000	430,000	105,000

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes exports and uses not listed.

³Includes flagging, 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	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	481,000 ^r	\$71,600	471,000	\$75,700
Irregular-shaped stone	259,000	36,000	283,000	32,000
Other ²	27,200	5,020	24,600	6,710
Dressed stone:				
Ashlars and partially squared pieces	326,000	48,100	346,000	48,400
Slabs and blocks for building and construction	75,400	17,400	72,200	11,300
Flagging	13,400	2,370	13,800	1,820
Panels and veneer	51,600	7,030	26,900	5,800
Other ³	102,000	8,970	31,300	3,760
Total	1,330,000	196,000	1,270,000	186,000

^rRevised.

¹Table includes data available through August 10, 2020. Data 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, monumental, tile, uses not specified, and uses not listed.

TABLE 10
DIMENSION MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE¹

Use	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone, rough blocks for building and construction	21,400	\$3,460	21,000	\$3,570
Dressed stone ²	11,800	3,010	10,900	2,780
Other ³	22,700	12,700	15,200	10,500
Total	55,900	19,200	47,100	16,800

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes slabs and blocks, flagging, monumental, panels and veneer, ashlar and partially squared pieces, tile, and uses not listed.

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

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

Use	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Rough stone:				
Rough blocks for building and construction	106,000	\$15,300	123,000	\$16,000
Irregular-shaped stone	197,000	5,630	198,000	5,510
Other ²	2,220	486	15,300	1,370
Dressed stone:				
Ashlars and partially squared pieces	65,700	12,200	42,700	11,400
Flagging	74,400	3,670	79,200	5,120
Panels and veneer	10,100	1,790	9,570	1,390
Slabs and blocks for building and construction	42,500 ^r	3,560 ^r	8,020	2,090
Other ³	12,700	5,170	6,700	3,110
Total	511,000^r	47,700^r	482,000	45,900

^rRevised.

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes exports, monumental, and uses not specified.

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	2018		2019	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
Flagging	34,800	\$8,130	37,800	\$9,200
Roofing	17,700	14,400	15,400	14,600
Flooring	755	1,000	787	1,030
Other ²	2,020	445	1,880	420
Total	55,300	24,000	55,900	25,300

¹Table includes data available through August 10, 2020. Data 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	2018		2019		Major destinations in 2019, by value
	Quantity	Value	Quantity	Value	
Marble, travertine, alabaster worked ²	88	9,120	80	7,540	Canada, 62%; The Bahamas, 8%.
Marble, travertine, crude or roughly trimmed	18	18,000	14	13,800	Italy, 90%.
Marble, travertine, merely cut, by sawing or otherwise ³	5	4,890	5	3,920	Canada, 48%; China, 10%.
Granite, crude or roughly trimmed	39	12,600	28	11,000	China, 62%; Italy, 21%.
Granite, merely cut by sawing or otherwise ³	22	6,550	18	5,870	Canada, 72%; China, 10%.
Slate, worked and articles of slate	NA	2,420	NA	2,880	Canada, 31%; United Kingdom, 20%.
Slate, whether or not roughly trimmed or merely cut ³	13	1,600	3	445	United Kingdom, 34%; Canada, 21%.
Other calcareous monumental or building stone; alabaster ⁴	19	7,460	18	7,410	Canada, 90%.
Other monumental or building stone ⁵	21	6,890	20	6,570	Canada, 70%; Italy, 8%.
Total	XX	69,500	XX	59,300	

NA Not available. XX Not applicable.

¹Table includes data available through August 3, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Further worked than simply cut with a flat surface.

³Blocks or slabs.

⁴Crude, roughly trimmed, or merely cut into blocks or slabs. Other than marble and travertine.

⁵Crude, 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. IMPORT DUTIES ON DIMENSION STONE¹

Tariff item	HTS ² code	NTR, ³	
		January 1, 2019	Non-NTR, ³ January 1, 2019
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	do.	\$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 less than 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.

¹Table includes data available through August 10, 2020.

²Harmonized Tariff Schedule of the United States.

³Normal trade relations.

TABLE 15
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION GRANITE, BY COUNTRY OR LOCALITY¹

(Thousand dollars)

Country or locality	Dressed									Total worked	Total dressed
	Worked granite						Other	Total worked	Total dressed		
	Rough granite ²	Simply cut ³	Not cut to size ⁴	Cut to size ⁵							
				Maximum 1.5 centimeters	1.5–7.5 centimeters	Minimum 7.5 centimeters					
			Monumental	Building							
2018:											
Argentina	--	--	--	--	97	--	--	7 ^r	104 ^r	104 ^r	
Brazil	736	804 ^r	91,000	343	230,000	181	1,230	59,600	382,000	383,000	
Canada	4,120	1,190	80	458	3,650	9,580	4,330	2,700	20,800	22,000	
China	1,000 ^r	12,400	8,880	2,580	89,900	23,700	8,860 ^r	82,900 ^r	217,000	229,000	
Finland	--	--	--	--	--	--	--	2	2	2	
India	834 ^r	2,590 ^r	19,900	1,010	97,500 ^r	17,300 ^r	1,550	22,400 ^r	160,000 ^r	162,000	
Italy	66	1,080	5,240	308 ^r	42,800 ^r	58	2,710	11,200 ^r	62,300	63,400	
Japan	--	--	--	--	2	5	28	105	140	140	
Mexico	8	27	6	--	82	--	--	26	115	142	
Norway	50	--	--	--	--	--	--	--	--	--	
Portugal	--	61	25	--	383	--	32	888	1,330	1,390	
Saudi Arabia	18	--	141	--	304	--	--	114	559	559	
South Africa	1,290	11	123	--	1,890	--	84	544	2,640	2,650	
Spain	--	318	5,940	473	24,700 ^r	26	237	4,210	35,600 ^r	35,900 ^r	
United Kingdom	--	59	8	--	-- ^r	2	18	127	155 ^r	214 ^r	
Other	481	396	1,080	60 ^r	1,680 ^r	223 ^r	19 ^r	1,950 ^r	5,020 ^r	5,410 ^r	
Total	8,600^r	19,000^r	132,000	5,230^r	493,000	51,100^r	19,100	187,000	887,000	906,000	
2019:											
Argentina	--	--	10	--	77	--	--	98	186	186	
Brazil	500	1,990	74,400	786	237,000	909	2,150	78,600	394,000	396,000	
Canada	4,910	836	177	379	3,810	10,200	4,350	3,970	22,900	23,700	
China	1,080	9,990	3,880	2,000	57,700	15,800	6,970	67,700	154,000	164,000	
Finland	--	--	4	--	--	--	--	3	8	8	
India	1,310	7,360	18,200	958	97,900	21,800	2,250	21,700	163,000	170,000	
Italy	25	1,490	5,550	144	31,400	187	3,350	9,340	50,000	51,500	
Japan	--	--	--	--	--	18	--	44	62	62	
Mexico	18	30	20	--	229	--	--	264	513	543	
Norway	169	--	--	--	--	--	--	--	--	--	
Portugal	33	49	77	11	296	--	--	251	635	684	
Saudi Arabia	--	--	31	--	207	--	--	154	392	392	
South Africa	1,360	--	157	--	2,310	--	34	631	3,130	3,130	
Spain	4	295	5,480	101	22,300	59	252	4,690	32,800	33,100	
United Kingdom	23	58	--	--	24	--	13	--	37	94	
Zimbabwe	131	--	--	--	26	--	--	--	26	26	
Other	709	878	636	117	2,920	209	335	3,440	7,650	8,530	
Total	10,300	23,000	109,000	4,490	457,000	49,200	19,700	191,000	829,000	852,000	

^rRevised. -- Zero.

¹Table includes data available through August 3, 2020. Data are rounded to no more than three significant digits; may not add to totals shown.

²Normal 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.

³Simply cut with a flat even surface; HTS code 6802.23.0000.

⁴Only one face worked more than simply cut; HTS code 6802.93.0010.

⁵One or more faces worked more than simply cut.

Source: U.S. Census Bureau.

TABLE 16
U.S. IMPORTS FOR CONSUMPTION OF MAJOR CATEGORIES OF DIMENSION MARBLE AND OTHER CALCAREOUS
STONE, BY COUNTRY OR LOCALITY¹

Country or locality	Dressed							
	Marble, slabs ²		Marble, other ³		Other calcareous stone ⁴		Rough marble ⁵	
	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)	Quantity (metric tons)	Value (thousands)
2018:								
Brazil	33,700	\$31,400	508	\$661	1,130 ^r	\$1,040 ^r	6	\$3
Canada	674	450	1,260	6,550	14,700	5,000	19	41
China	73,600 ^r	77,800 ^r	106,000 ^r	191,000	30,100	30,300	585	671
Dominican Republic	383	165	81	49	3,800	2,000	--	--
Egypt	1,870	966	2,580	1,400	1,530	833	1,520	398
France	203	669	330	1,460	4,420	6,140	1	5
Greece	7,560 ^r	13,400 ^r	5,970	14,200	619	1,070	--	--
India	72,500	37,500	17,800	30,300	3,400 ^r	2,020 ^r	280	152
Israel	597	924	336	594	2,880	3,540	--	--
Italy	80,200	216,000	27,400	87,200 ^r	8,800 ^r	26,600	472	1,070
Lebanon	43	45	30	227	316	1,660	--	--
Mexico	2,250	1,240	4,590	3,410	4,500	4,740	77	23
Morocco	65	59	36	45	2,730	2,750	--	--
Portugal	1,530	2,410	1,360	2,360	14,300	15,700	--	--
Spain	9,120 ^r	9,550 ^r	5,990	7,470 ^r	4,620	5,440	38	258
Taiwan	773	988	2,670	4,990	13	40	7	21
Turkey	146,000 ^r	68,000 ^r	138,000	86,200 ^r	26,900	13,600	419	322
Vietnam	1,590	2,060	3,050	3,440	307	295	--	--
Other	3,570 ^r	4,400 ^r	5,580 ^r	11,000 ^r	7,780 ^r	8,740 ^r	517	367
Total	436,000 ^r	468,000 ^r	323,000 ^r	453,000 ^r	133,000	132,000	3,940	3,330
2019:								
Brazil	44,000	41,200	421	702	1,300	1,800	411	74
Canada	167	368	1,170	5,080	4,110	3,740	2	8
China	53,100	55,100	87,500	137,000	19,000	16,500	470	515
Dominican Republic	340	172	93	41	4,510	2,530	--	--
Egypt	1,650	663	1,260	708	1,170	794	1,730	424
France	155	714	767	1,080	3,360	4,630	22	87
Greece	8,040	14,200	6,310	13,600	750	1,250	64	12
India	81,000	41,300	22,600	31,100	4,220	2,400	251	114
Israel	545	576	153	231	2,430	2,780	--	--
Italy	75,000	205,000	23,500	66,600	7,700	22,400	472	1,330
Lebanon	7	41	25	131	478	2,950	--	--
Mexico	3,150	1,920	5,260	4,140	4,640	5,400	113	103
Morocco	50	58	111	190	3,010	2,830	--	--
Portugal	2,070	2,570	1,050	1,950	12,000	13,600	34	24
Spain	6,260	6,610	4,050	4,600	6,260	7,510	22	60
Taiwan	155	339	1,930	4,150	5	31	20	75
Turkey	191,000	81,400	114,000	77,500	22,000	12,800	669	324
Vietnam	1,650	2,180	3,800	4,520	279	353	86	227
Other	3,270	4,110	5,420	8,810	7,400	8,130	637	1,030
Total	472,000	458,000	280,000	362,000	105,000	113,000	5,000	4,410

^rRevised. -- Zero.

¹Table includes data available through August 3, 2020. Data 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.

TABLE 17
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION STONE, BY TYPE¹

Type	2018		2019		Major sources for 2019, by value	
	Quantity	Value (thousands)	Quantity	Value (thousands)		
Marble and alabaster ²	metric tons	35,300 ^r	\$37,100	30,900	\$28,500	Italy, 22%; China, 20%.
Slate, roofing	million square feet	735,000	8,810	661,000	9,800	Spain, 48%; Canada, 34%.
Slate, roughly trimmed or simply cut ³	do.	8,170	4,140	7,280	3,570	India, 45%; China, 25%.
Slate, worked and articles of slate, and other ⁴	do.	NA	50,400	NA	43,100	China, 54%; Brazil, 18%; India, 18%.
Travertine, monumental or building stone and articles thereof ⁵	do.	13,900	13,100	9,310	8,280	Italy, 32%; Mexico, 22%; Turkey, 21%.
Travertine, worked monumental or building stone ⁶	do.	12,800 ^r	10,500	8,950	7,240	Turkey, 39%; Mexico, 39%.

^rRevised. do. Ditto. NA Not available.

¹Table includes data available through August 10, 2020. Data are rounded to no more than three significant digits.

²Simply cut with a flat surface.

³Rectangular blocks or slabs.

⁴Other than roofing, including agglomerated slate.

⁵Simply cut with a flat surface, other than tiles and granules.

⁶Dressed or polished but not further worked.

Source: U.S. Census Bureau.