# STONE, DIMENSION 

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## Domestic survey data and tables were prepared by Brandon P. Pfleckl, statistical assistant.

Dimension stone can be defined as natural rock material quarried for the purpose of obtaining blocks or slabs that meet specifications as to size (width, length, and thickness) and shape (Barton, 1968, p. 4). Color, grain texture and pattern, and surface finish of the stone are also normal requirements. Durability (essentially based on mineral composition and hardness and past performance), strength, and the ability of the stone to take a polish are other important selection criteria.
Although a variety of 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), soapstone (massive talc), and various products fashioned from natural stone.
U.S. production of dimension stone in 1999 was estimated to be 1.25 million metric tons ( Mt ) valued at $\$ 255$ million-a $13 \%$ increase in value compared with that of 1998. Additionally, U.S. production of dimension stone in 1999 was the largest amount reported since 1993. Exports decreased by $8.6 \%$ in value, to $\$ 54.5$ million, and imports for consumption increased by $16 \%$ in value, to $\$ 808$ million. Apparent consumption was estimated to be $\$ 1.01$ billion.
In recent years, most dimension stone has been used in construction applications with the largest portions being sold or used as rough block for building and construction, flagstone, curbing, and ashlars and partially squared pieces. Monumental stone, another major type, includes memorials of various kinds.
Dimension stone production data for the United States are derived by the U.S. Geological Survey (USGS) from a voluntary survey of U.S. quarry producers of rough and dressed dimension stone. Data in this report cover rough crude quarried, 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 items as the mineral composition of the rock, the shape of the product, the method of finishing a stone, and the type of finish applied (Stone World, 1999, p. 96-126). 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. Of the 230 producing operations included in the survey for 1999,99 or $43 \%$, responded, which represents $64 \%$ of the tonnage; the remainder was estimated (table 1).

## Description and Terminology

There is overlap between scientific and commercial descriptions of various dimension stone types. The scientific description of dimension stone types is focused primarily on the stone's locality and mineralogical composition, whereas the commercial description is focused primarily on the locality and color of the stone. Furthermore, various combinations of the scientific and commercial descriptions are used by stone producers to effectively market their stone products. The descriptions that follow were adapted from Barton (1968, p. 28) and Currier (1960, p. 1-10).

Granite.-Commercial granites include all feldspathic crystalline rocks of mainly interlocking texture and with individual mineral crystals that are visible to the naked eye. This category includes rock types such as anorthosite, gneiss, granite, granodiorite, monzonite, syenite, and all other intermediate rock types. Primary colors of granites are gray, pink, red, and white with brown and green being secondary colors. Black granites (which are not true granites mineralogically but rather mafic rocks such as diabases, diorites, gabbros, and similar rocks) are also included in this category and range in color from dark gray to black.

Limestone.-Commercial limestones are rocks of sedimentary origin primarily composed of calcium carbonate or calcium and magnesium. Included in this category are calcitic limestone, dolomite, dolomitic limestone, and travertine (a rock that forms from evaporation of surface waters rich in calcium carbonate or chemically precipitated from hot springs).
Marble.-Commercial marble includes metamorphosed limestones and serpentine rocks-all capable of taking a polish. An important member of this classification is serpentine marble, also known as verde antique, which is composed of green to black serpentine (a hydrous magnesium silicate mineral), crisscrossed by veins of lighter minerals such as calcite or dolomite.

Sandstone.-Commercial sandstone is a lithified sand composed chiefly of quartz or quartz and feldspar of fragmental (clastic) texture. Sandstone contains interstitial cementing materials such as calcite, clay, iron oxides, or silica. Arkose (abundant feldspar grains), conglomerates, and graywacke (abundant rock fragments) are included in this category. Other members of this category include bluestone (a dense, hard, finegrained feldspathic sandstone, which splits easily along planes into thin, smooth slabs), brownstone (feldspathic sandstone of brown to reddish-brown color, owing to abundant iron oxide), and flagstone (a sandstone or slate that splits into large, thin slabs).

Slate.-Commercial slate is a microgranular metamorphic rock formed by the recrystallization of clay sediments (shale, siltstone, or claystone). Characterized by excellent parallel cleavage, slates may be easily split into relatively thin slabs.

Greenstone.-Commercial greenstones are the result of the metamorphism of basaltic rocks. Greenstone is named because of the predominance of greenish minerals such as actinolite, chlorite, or epidote.

Basalt and Traprock.-Commercial basalt and traprock includes igneous rocks that are too fine grained to be termed black granite. The name traprock is derived from the term "trappa," meaning stairway-the characteristic terraced or steplike appearance of certain basalt lava fields. This category includes extrusive igneous rocks (such as andesite, basalt, or dacite) and intrusive igneous rocks (such as amphibolites, diabase, diorites, fine-grained gabbros, peridotites, and pyroxenites).

Miscellaneous.-This category includes dimension stone types that do not easily fall into the aforementioned categories, such as soapstone, talc, or steatite (rocks containing various amounts of talc). Additional miscellaneous dimension stones include diatomite, mylonites, pumice, schist, tripoli, tuff, porous or scoriaceous volcanic rocks, or any other rocks used as building stones.

## Production

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

In 1999, limestone accounted for 446,000 metric tons ( t ), or $36 \%$, of the total domestic dimension stone production of 1.25 Mt , followed by granite ( $35 \%$ ), sandstone ( $16 \%$ ), marble ( $3 \%$ ), slate ( $2 \%$ ), and miscellaneous stone ( $8 \%$ ). Granite accounted for $\$ 115$ million, or $45 \%$, of total domestic production value of $\$ 255$ million, followed by limestone (29\%), sandstone ( $10 \%$ ), slate ( $6 \%$ ), marble ( $4 \%$ ), and miscellaneous ( $6 \%$ ).

Production was reported in 34 States and Puerto Rico. Leading producer States, in descending order by tonnage, were Indiana, Vermont, Wisconsin, Georgia, and Texas. These States accounted for $48 \%$ of the domestic production. The leading producer States, in descending order by value, were Indiana, Vermont, Texas, Minnesota, and South Dakota. These States contributed $49 \%$ of the value of domestic production (table 3 ).

The top five producing companies, listed alphabetically, were Cold Spring Granite Co., in California, Minnesota, New York, Oklahoma, South Dakota, and Texas; Fletcher Granite Co., Inc., in Massachusetts and New Hampshire; Indiana Limestone Co., Inc., in Indiana; Oolitic Victor Stone Co., in Indiana; and Rock of Ages Corp., in New Hampshire and Vermont. These companies produced about $28 \%$ of domestic production in tonnage and about $30 \%$ of production value. The leading 14 companies accounted for more than one-half the domestic tonnage and value.

Granite.—Dimension granite was produced by 41 companies operating 75 quarries in 19 States. Production was 437,000 t valued at $\$ 115$ million. Granite production tonnage increased $4 \%$ and value increased 5\% compared with that of 1998. The top five producing States, in descending order by tonnage, were Georgia, Massachusetts, North Carolina, California, and South Carolina. Massachusetts accounted for $16 \%$ of the tonnage of U.S. granite production. Massachusetts and North Carolina combined accounted for $30 \%$ of the value of the U.S. granite production (table 4).

The leading producers were Cold Spring Granite, Fletcher Granite, and Rock of Ages, accounting for about one-half of U.S. production in tonnage and value.

Limestone.-Dimension limestone was produced by 27 companies from 33 quarries in 9 States. Production increased by $20 \%$, to $446,000 \mathrm{t}$ in 1999 from $373,000 \mathrm{t}$ in 1998, and the value increased by $23 \%$, to $\$ 74.9$ million in 1999 from $\$ 61.1$ million in 1998. The top five producing States, in descending order by tonnage, were Indiana, Wisconsin, Texas, Minnesota, and Kansas. Indiana produced $57 \%$ of the U.S. tonnage and $45 \%$ of the value (table 5).

The leading producers were Buechel Stone Corp., B.G. Hoadley Quarries, Inc., Indiana Limestone, Justin Industries, Inc., and Oolitic Victor Stone. These firms accounted for more than $50 \%$ of the total U.S. tonnage and value.

Marble.-Marble was mined by 7 companies operating 11 quarries in 5 States. Production declined to $40,300 \mathrm{t}$ valued at $\$ 9.5$ million in 1999 from 40,500 t valued at $\$ 10.4$ million in 1998 (table 10). Vermont was the leading producing State, followed by Tennessee, Georgia, Colorado, and Arkansas. The leading producers were Georgia Marble Co., Tennessee Marble Co., and Vermont Quarries Co. Additional data have been withheld to avoid disclosing company proprietary information.

Sandstone.-Dimension sandstone was produced by 26 companies operating 35 quarries in 16 States. Production increased to $197,000 \mathrm{t}$ in 1999 from 185,000 t in 1998. The value increased by $19 \%$, to $\$ 25.9$ million in 1999 from $\$ 21.8$ million in 1998. The top five producing States, in descending order by tonnage, were New York, Arizona, Ohio, Pennsylvania, and California. New York was the leading producing State with $23 \%$ of the tonnage and $28 \%$ of the value (table 6).

The leading producers were American Sandstone, Finger Lakes Stone Co., Inc., Jude Stone Quarry Co., Ulti-Solutions, Inc., and Waller Brothers Stone Co. These companies accounted for about $58 \%$ of the tonnage and $46 \%$ of the value of domestic production.

Slate.-Slate was produced by 13 companies operating 21 quarries in 5 States. Production decreased by $4 \%$, to $28,600 \mathrm{t}$ in 1999 from 30,000 $t$ in 1998. The value increased by $5 \%$, to $\$ 14$ million in 1999 from $\$ 13.3$ million in 1998 (table 12). The producing States, in descending order by tonnage, were Vermont, Pennsylvania, New York, North Carolina, and California. The leading producers were Dally Slate Co., Alfred McAlpine Plc, Ritchie Bros. Slate Co., Quarry Slate Industries, Inc., and U.S. Quarried Slate Products, Inc. Additional data have been withheld to avoid disclosing company propriety information.

## Consumption

Rough stone represented $57 \%$ of the tonnage and $40 \%$ of the value of all dimension stone sold or used by domestic producers, including exports. The largest uses of rough stone were in construction (49\%) and monumental (19\%) applications, by tonnage. Dressed stone represented $44 \%$, by tonnage, and $60 \%$, by value of the total stone sold or used. The largest uses of dressed stone were in flagging ( $25 \%$ ), ashlars and partially squared pieces ( $19 \%$ ), and curbing ( $10 \%$ ), by tonnage (table 7).

Uses for the different varieties of dimension stone varied considerably. The major uses of granite sold or used in 1999 were in monumental rough stone ( $29 \%$ ), rough blocks for construction ( $21 \%$ ), curbing ( $12 \%$ ), monumental dressed stone ( $8 \%$ ), and ashlars and partially squared pieces ( $6 \%$ ), by tonnage (table 8). Primary uses of limestone were in rough blocks for building and construction ( $47 \%$ ) and irregular-shaped stone ( $13 \%$ ), by tonnage (table 9). Primary uses of marble were rough blocks for building and construction (29\%), tile ( $16 \%$ ), and monumental dressed stone ( $12 \%$ ), by tonnage (table 10). Primary uses of sandstone were in dressed stone for flagging ( $57 \%$ ) and rough blocks for building and construction (15\%), by tonnage (table 11). Dimension slate sold or used by producers in the United States in 1999 was principally for flooring (37\%), roofing (36\%), and flagging (7\%), by tonnage (table 12).

Apparent consumption is defined as production plus imports for consumption minus exports. Overall, the apparent consumption of dimension stone in the United States was estimated to be $\$ 1.01$ billion in 1999, an increase of $16 \%$ compared with that of 1998 . Value data are used in the apparent consumption calculation because tonnage data are not available for imports and exports. Also, changes in industry stocks are not considered because the data are not available.

## Prices

The average 1999 value for dimension stone was $\$ 204$ per metric ton-an increase of $3.6 \%$ from that of 1998 , based on the USGS survey. The average unit values for different types of dimension stone were granite, $\$ 263$ per ton; limestone, $\$ 168$ per ton; sandstone, $\$ 132$ per ton; marble, $\$ 237$ per ton; and slate, $\$ 490$ per ton. Price data that are available show considerable variation. Prices are substantially different, not only for the kind of stone, but also for appearance of the same kind of stone. Color, grain structure, and finish contribute significantly to price and marketability.

## Foreign Trade

Exports.-In 1999, total exports of dimension stone types decreased in value by about $9 \%$, to about $\$ 55$ million, compared with those of 1998; granite accounted for $59 \%$ of the export value. The largest share of granite was exported to Italy (table 13).

Imports.-The value of imports for consumption of dimension stone types increased in 1999 by about $16 \%$, to $\$ 808$
million. Italy continued to be the major single source of granite, accounting for $45 \%$ of granite imports. Brazil, Canada, and India each accounted for about $14 \%$ of granite imports (table 14). Italy also was a major source of rough and dressed marble, slate, and travertine imports (tables 15-16). Duties on imported dimension stone are given in table 2.

## World Review

World dimension stone production, excluding the United States, was estimated to be approximately 60 Mt in 1998 and preliminary numbers indicate that this total is unchanged for 1999. Although some small-scale production probably occurs in the majority of the world's nations, dimension stone was produced and officially reported in about 34 countries. The top five producing countries in 1998 were, in descending order by tonnage, China ( 13.0 Mt ), Italy ( 9.89 Mt ), India ( 8.57 ), Iran (6.50 Mt), and Spain (5.56 Mt)-these countries accounted for about $73 \%$ of the world production. The United States was ranked $11^{\text {th }}$ in world production of dimension stone in 1998 (Internazionale Marmi e Macchine Carrara S.p.A., International Quarry Production, accessed August 15, 2000, at URL http:// www.immcarrara.com/stats/english-version/index-stone-sector.html).

## Outlook

Demand is expected to grow for dimension stone during the next 5 or more years because of improved technology and variety and the increased costs of alternative construction materials. Additionally, for residential and office building construction, growth in use of dimension stone is expected in new prestige markets as well as in renovations to attract and keep tenants.

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TABLE 1
SALIENT U.S. DIMENSION STONE STATISTICS 1/
(Thousand metric tons and thousand dollars)

|  | 1995 | 1996 | 1997 | 1998 | 1999 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Sold or used by producers: $2 /$ |  |  |  |  |  |
| $\quad$ Quantity | 1,160 | 1,150 | 1,180 | $1,140 \mathrm{r} /$ | 1,250 |
| Value | $\$ 233,000$ | $\$ 234,000$ | $\$ 225,000$ | $\$ 225,000 \mathrm{r} /$ | $\$ 255,000$ |
| Exports (value) | $\$ 51,800$ | $\$ 49,500$ | $\$ 54,800$ | $\$ 59,600$ | $\$ 54,500$ |
| Imports for consumption (value) | $\$ 478,000$ | $\$ 462,000$ | $\$ 548,000$ | $\$ 698,000$ | $\$ 808,000$ |

r/ Revised.
1/ Data are rounded to no more than three significant digits.
2/ Includes Puerto Rico and other U.S. possessions and territories.

TABLE 2
U.S. IMPORT DUTIES ON DIMENSION STONE

|  |  | Normanl Trade Relation (NTR) | Non-NTR |
| :---: | :---: | :---: | :---: |
| Tariff item | HTS. No. | January 1, 1999 | January 1, 1999 |
| 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: |  |  |  |
| 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. |

TABLE 3
DIMENSION STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

| State | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | Value (thousands) |
| Alabama | W | W | 7,210 | \$2,380 |
| California | 28,500 | \$4,710 | 29,400 | 4,930 |
| Colorado | 14,200 | 3,410 | 14,700 | 3,430 |
| Georgia | 82,800 r/ | 12,100 r/ | 83,400 | 12,200 |
| Idaho | 22,700 r/ | 4,710 | 39,300 | 5,510 |
| Indiana | 222,000 r/ | 28,300 r/ | 255,000 | 33,500 |
| Kansas | 15,800 | 1,240 | 16,100 | 1,640 |
| Maryland | 23,100 | 2,730 | 26,000 | 3,160 |
| Massachusetts | 85,800 | 17,600 | 70,400 | 16,900 |
| Minnesota | 49,800 r/ | 19,200 r/ | 42,700 | 20,700 |
| Montana | W | W | 9,500 | 1,440 |
| New Mexico | W | W | 17,900 | 2,320 |
| New York | 52,900 | 8,870 | 49,300 | 8,940 |
| North Carolina | 50,600 r/ | 17,300 r/ | 54,700 | 17,700 |
| Ohio | 24,100 | 2,360 | 25,600 | 2,390 |
| Oklahoma | 3,480 | 635 | 3,480 | 635 |
| Pennsylvania | 45,200 | 9,480 | 50,800 | 12,600 |
| South Carolina | 12,900 | 1,150 | 9,230 | 855 |
| Texas | 40,900 | 16,700 | 82,500 | 24,200 |
| Vermont | 99,800 r/ | 26,300 r/ | 98,600 | 25,600 |
| Virginia | 5,430 | 600 | 5,640 | 624 |
| Wisconsin | 77,100 | 10,800 | 85,500 | 13,400 |
| Other 2/ | 179,000 r/ | 36,700 r/ | 177,000 | 40,300 |
| Total | 1,140,000 r/ | 225,000 r/ | 1,250,000 | 255,000 |

r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes Arizona, Arkansas, Connecticut, Maine, Michigan, Missouri, New Hampshire, South Dakota,
Tennessee, Utah, Washington, West Virginia, Puerto Rico and other U.S. possessions and territories, and States indicated by symbol W.

TABLE 4
DIMENSION GRANITE SOLD OR USED BY PRODUCERS
IN THE UNITED STATES, BY STATE 1/

| State | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | Value <br> (thousands) |
| California | 9,620 | \$1,720 | 9,420 | \$1,830 |
| Georgia | 75,500 r/ | 10,100 r/ | 76,100 | 10,200 |
| Massachusetts | 85,800 | 17,600 | 70,400 | 16,900 |
| North Carolina | W | W | 53,100 | 16,900 |
| South Carolina | 12,900 | 1,150 | 9,230 | 855 |
| Wisconsin | W | W | 2,860 | 2,480 |
| Other 2/ | 237,000 r/ | 79,200 r/ | 216,000 | 66,100 |
| Total | 420,000 r/ | 110,000 | 437,000 | 115,000 |

r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes Idaho, Maine, Minnesota, Missouri, Montana, New Hampshire, New Mexico, New York, Oklahoma, Pennsylvania, South Dakota, Texas, Vermont, Virginia, Puerto Rico and other U.S. possessions and territories, and States indicated by symbol W.

TABLE 5
DIMENSION LIMESTONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE $1 /$

| State | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | Value (thousands) |
| Indiana | 219,000 r/ | 28,300 r/ | 252,000 | \$33,500 |
| Kansas | 14,800 | 1,150 | 15,200 | 1,510 |
| Wisconsin | 66,100 | 8,120 | 72,600 | 10,000 |
| Other 2/ | 73,400 r/ | 23,500 r/ | 106,000 | 29,900 |
| Total | 373,000 | 61,100 | 446,000 | 74,900 |

r/ Revised.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes Alabama, Arkansas, California, Minnesota, Ohio, Texas, Vermont, and Puerto Rico and other
U.S. possessions and territories.

TABLE 6
DIMENSION SANDSTONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE $1 /$

| State | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | Value (thousands) |
| New York | 47,600 | \$6,980 | 44,900 | \$7,370 |
| Pennsylvania | 18,200 | 2,590 | 17,100 | 2,490 |
| Other 2/ | 119,000 | 12,200 r/ | 135,000 | 16,000 |
| Total | 185,000 | 21,800 | 197,000 | 25,900 |

r/ Revised.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes Alabama, Arizona, Arkansas, California, Colorado, Idaho, Kansas, Michigan, North Carolina, Ohio, Oklahoma, West Virginia, and Wisconsin.

TABLE 7
DIMENSION STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE $1 / 2 /$

| Use | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | $\begin{gathered} \text { Value } \\ \text { (thousands) } \end{gathered}$ |
| Rough stone: |  |  |  |  |
| Rough blocks for building and construction | 317,000 | \$43,700 | 345,000 | \$47,000 |
| Irregular-shaped stone | 93,000 | 9,540 | 143,000 | 13,100 |
| Monumental | 123,000 | 21,000 | 133,000 | 25,000 |
| Other 3/ | 84,100 | 17,500 | 87,200 | 17,900 |
| Dressed stone: |  |  |  |  |
| Ashlars and partially squared pieces | 100,000 r/ | 23,000 r/ | 103,000 | 22,600 |
| Slabs and blocks for building and construction | 42,400 | 7,750 | 52,300 | 11,000 |
| Monumental | 37,800 | 19,500 | 39,000 | 20,500 |
| Curbing | 115,000 | 25,700 | 52,900 | 22,900 |
| Flagging | 133,000 | 12,100 | 134,000 | 14,700 |
| Flagging (slate) | 5,510 | 473 | 2,110 | 434 |
| Roofing slate | 9,440 | 6,640 | 10,300 | 6,900 |
| Structural and sanitary | 1,420 | 2,470 | 2,050 | 2,810 |
| Flooring slate | 10,100 | 2,150 r/ | 10,600 | 2,140 |
| Other 4/ | 63,500 r/ | 33,400 r/ | 139,000 | 48,400 |
| Total | 1,140,000 r/ | 225,000 r/ | 1,250,000 | 255,000 |

r/ Revised.
1/ Includes Puerto Rico and other U.S. possessions and territories.
2/ Data are rounded to no more than three significant digits; may not add to totals shown.
3/ Includes flagging (1999), exports, uses not specified, and uses not listed.
4/ Includes panels and veneer, tile, blackboards, exports, uses not specified, and uses not listed.

TABLE 8
DIMENSION GRANITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE 1/

| Use | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Quantity } \\ \text { (metric tons) } \end{gathered}$ | Value (thousands) | $\begin{gathered} \text { Quantity } \\ \text { (metric tons) } \end{gathered}$ | Value (thousands) |
| Rough stone: |  |  |  |  |
| Rough blocks for building and construction | 57,800 | \$13,400 | 90,800 | \$18,000 |
| Irregular-shaped stone | 1,120 | 962 | 4,540 | 173 |
| Monumental | 117,000 | 19,400 | 126,000 | 23,400 |
| Other 2/ | 55,400 | 12,400 | 53,700 | 11,400 |
| Dressed stone: |  |  |  |  |
| Ashlars and partially squared pieces | 31,200 r/ | 12,100 | 25,700 | 10,200 |
| Slabs and blocks for building and construction | W | W | 1,290 | 225 |
| Monumental | 32,800 | 18,100 | 33,400 | 18,700 |
| Curbing | 115,000 | 25,700 | 52,600 | 22,900 |
| Other 3/ | 9,670 r/ | 8,560 r/ | 48,700 | 10,400 |
| Total | 420,000 r/ | 110,000 | 437,000 | 115,000 |
| r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Dressed stone: Other." |  |  |  |  |
| 1/ Data are rounded to no more than three significant digits; may not add to totals shown. |  |  |  |  |
| 2/ Includes exports and uses not listed. |  |  |  |  |
| 3/ Includes 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 USE 1/

| Use | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Quantity } \\ \text { (metric tons) } \end{gathered}$ | Value (thousands) | $\begin{gathered} \text { Quantity } \\ \text { (metric tons) } \end{gathered}$ | Value (thousands) |
| Rough stone: |  |  |  |  |
| Rough blocks for building and construction | 215,000 | 25,400 | 208,000 | 24,100 |
| Irregular-shaped stone | 27,500 | 2,330 | 60,100 | 4,110 |
| Other 2/ | 25,700 | 4,860 | 30,800 | 5,590 |
| Dressed stone: |  |  |  |  |
| Ashlars and partially squared pieces | 45,700 | 7,440 | 50,600 | 8,320 |
| Slabs and blocks for building and construction | 35,000 | 4,740 | 44,000 | 4,590 |
| Flagging | 9,160 | 1,140 | 5,920 | 483 |
| Other 3/ | 15,300 | 15,200 | 46,200 | 27,800 |
| Total | 373,000 | 61,100 | 446,000 | 74,900 |

1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes exports and uses not listed.
3/ Includes monumental stone (1999), panels and veneer, tile (1999), 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 | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Quantity (metric tons) | Quantity (metric tons) | Value (thousands) |
| Rough stone: |  |  |  |  |
| Rough blocks for building and construction | 11,400 | 2,350 | 11,500 | 2,400 |
| Other 3/ | 7,260 | 1,820 | 7,430 | 1,870 |
| Dressed stone: |  |  |  |  |
| Slabs and blocks for building and construction | 4,620 | 2,170 | 4,080 | 1,180 |
| Monumental | 4,950 | 1,400 | 4,950 | 1,400 |
| Flagging | 444 | 29 | 444 | 29 |
| Tile | W | W | 6,380 | 1,650 |
| Other 4/ | 11,900 | 2,670 | 5,520 | 1,010 |
| Total | 40,500 | 10,400 | 40,300 | 9,540 |

W Withheld to avoid disclosing company proprietary data; included with "Dressed stone: Other."
1/ Includes Puerto Rico.
2/ Data are rounded to no more than three significant digits; may not add to totals shown.
3/ Includes monumental, uses not specified, and uses not listed.
4/ Includes panels and veneer, ashlars and partially squared pieces, and uses not listed.

TABLE 11

## DIMENSION SANDSTONE SOLD OR USED BY PRODUCERS IN THE

UNITED STATES, BY USE 1/

| Use | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | Value (thousands) |
| Rough stone: |  |  |  |  |
| Rough blocks for building and construction | 27,100 | \$2,220 | 28,900 | \$2,160 |
| Irregular-shaped stone | 11,900 | 1,610 | 9,020 | 1,180 |
| Dressed stone: |  |  |  |  |
| Ashlars and partially squared pieces | 9,080 | 1,000 | 11,700 | 1,630 |
| Slabs and blocks for building and construction | 2,270 | 626 | 2,880 | 761 |
| Flagging | 108,000 | 9,770 | 112,000 | 12,900 |
| Other 2/ | 26,500 | 6,530 | 32,400 | 7,230 |
| Total | 185,000 | 21,800 | 197,000 | 25,900 |

1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes panels and veneer, tile, curbing, exports, uses not specified, and uses not listed.

TABLE 12
DIMENSION SLATE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY USE 1/

| Use | 1998 |  | 1999 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity (metric tons) | Value (thousands) | Quantity (metric tons) | Value (thousands) |
| Flagging | 5,510 | \$473 | 2,110 | \$434 |
| Roofing | 9,440 | 6,640 | 10,300 | 6,900 |
| Structural and sanitary purposes | 1,420 | 2,470 | 2,050 | 2,810 |
| Flooring | 10,100 | 2,150 | 10,600 | 2,140 |
| Other 2/ | 3,530 | 1,610 | 3,560 | 1,700 |
| Total | 30,000 | 13,300 | 28,600 | 14,000 |

1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Includes blackboards, uses not specified, and uses not listed.

TABLE 13
U.S. EXPORTS OF DIMENSION STONE, BY TYPE 1/
(Thousand metric tons and thousand dollars)

| Type | 1998 |  | 1999 |  | Major destinationin 1999, (percentage) $2 /$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |  |
| Marble, travertine, alabaster worked 3/ | 40 | 3,670 | 33 | 4,770 | Canada, 35\%. |
| Marble, travertine--crude or roughly trimmed | 1 | 1240 | 1 | 725 | Canada, $46 \%$. |
| Marble, travertine--merely cut, by sawing or otherwise 4/ | 7 | 1,770 | 4 | 2,030 | Italy, 28\%. |
| Granite, crude or roughly trimmed | 121 | 26,700 | 150 | 25,900 | Italy, 38\%. |
| Granite, merely cut by sawing or otherwise 4/ | 24 | 10,300 | 16 | 6,430 | Singapore, 25\%. |
| Sandstone, crude or roughly trimmed | 3 | 376 | 5 | 570 | Canada, 83\%. |
| Sandstone, merely cut, by sawing or otherwise 4/ | 6 | 1,180 | 6 | 1,250 | Canada, $87 \%$. |
| Slate, worked and articles of slate | NA | 9,820 | NA | 8,760 | Belize, 51\%. |
| Slate, whether or not roughly trimmed or merely cut 4/ | NA | 739 | NA | 504 | Canada, 66\%. |
| Other calcareous monumental or building stone; alabaster 5/ | 14 | 2,130 | 8 | 2,170 | Canada, 43\%. |
| Other monumental or building stone 6/ | 8 | 1,700 | 8 | 1,430 | Canada, 71\%. |
| Total | XX | 59,600 | XX | 54,500 |  |

NA Not available. XX Not applicable.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ By value.
3/ Further worked than simply cut with a flat surface.
4/ Blocks or slabs.
5/ Crude, roughly trimmed, or merely cut into blocks or slabs. Other than marble and travertine (includes alabaster).
6/ 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 14

## U.S. IMPORTS FOR CONSUMPTION OF DIMENSION GRANITE, BY COUNTRY 1/

(Thousand dollars)

| Country | Rough granite 3/ | Dressed |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Worked granite |  |  |  |  |  |  | Total dressed |
|  |  |  | Cut to size 2/ |  |  |  |  |  | Total worked |  |
|  |  | Simply cut 4/ | Not cut to size 5/ | Max. 1.5 centimeters | $\begin{gathered} 1.5-7.5 \\ \text { centimeters } \end{gathered}$ | $\begin{aligned} & \text { Monumental } \\ & \text { min. } 7.5 \\ & \text { centimeters } \end{aligned}$ | Building min. 7.5 centimeters | Other |  |  |
| 1998: |  |  |  |  |  |  |  |  |  |  |
| Argentina | 149 | 69 | 76 | 11 | 228 | 19 | 44 | 61 | 439 | 508 |
| Brazil | 490 | 2,240 | 4,850 | 1,600 | 17,200 | 576 | 1,890 | 10,700 | 36,800 | 39,000 |
| Canada | 4,260 | 1,220 | 289 | 2,810 | 9,880 | 6,030 | 8,040 | 4,570 | 31,600 | 32,800 |
| China | 461 | 870 | 509 | 1,990 | 2,250 | 738 | 1,870 | 5,180 | 12,500 | 13,400 |
| Finland | 25 | -- | -- | 1 | -- | -- | -- | 13 | 14 | 14 |
| India | 2,760 | 4,890 | 1,390 | 4,980 | 12,100 | 3,730 | 1,870 | 5,940 | 30,000 | 34,900 |
| Italy | 1,480 | 9,860 | 21,600 | 6,520 | 46,400 | 348 | 12,400 | 25,800 | 113,000 | 123,000 |
| Japan | 20 | 6 | 9 | 23 | 15 | -- | -- | 41 | 88 | 94 |
| Mexico | 38 | 178 | 3 | 34 | 1,830 | -- | 814 | 15 | 2,690 | 2,870 |
| Norway | 3 | -- | -- | -- | 2 | 4 | -- | 158 | 164 | 164 |
| Portugal | 1 | 33 | -- | 18 | 112 | -- | 37 | 44 | 211 | 244 |
| Saudi Arabia | 77 | 88 | 207 | 6 | 614 | -- | 20 | 18 | 865 | 953 |
| South Africa | 415 | -- | -- | -- | 45 | -- | 12 | 126 | 183 | 183 |
| Spain | 128 | 516 | 1,810 | 398 | 7,370 | 18 | 591 | 1,440 | 11,600 | 12,100 |
| Other | 688 | 437 | 268 | 112 | 1,040 | 76 | 381 | 1,200 | 3,070 | 3,510 |
| Total | 11,000 | 20,400 | 31,000 | 18,500 | 99,000 | 11,500 | 28,000 | 55,300 | 243,000 | 264,000 |
| 1999: |  |  |  |  |  |  |  |  |  |  |
| Argentina | 2 | 16 | 303 | -- | 822 | -- | 71 | 153 | 1,350 | 1,370 |
| Brazil | 1,610 | 3,480 | 7,190 | 1,850 | 24,400 | 185 | 1,970 | 8,690 | 44,300 | 47,800 |
| Canada | 3,940 | 1,720 | 153 | 2,170 | 13,600 | 5,470 | 10,700 | 5,120 | 37,200 | 38,900 |
| China | 728 | 2,090 | 1,030 | 2,580 | 4,700 | 1,200 | 2,340 | 7,100 | 19,000 | 21,000 |
| Finland | 14 | -- | -- | -- | -- | -- | -- | 111 | 111 | 111 |
| India | 2,720 | 3,220 | 1,890 | 6,790 | 12,800 | 4,330 | 2,320 | 5,220 | 33,300 | 36,500 |
| Italy | 3,800 | 11,800 | 26,900 | 8,440 | 56,400 | 575 | 12,700 | 26,300 | 131,000 | 143,000 |
| Japan |  | 16 | -- | -- | 2 | -- | -- | -- | 2 | 18 |
| Mexico | 23 | 254 | 49 | 21 | 2,210 | -- | 823 | 11 | 3,120 | 3,370 |
| Norway | 13 | -- | -- | 36 | 178 | 20 | -- | -- | 234 | 234 |
| Portugal | 32 | 141 | -- | -- | 125 | -- | 5 | 101 | 231 | 372 |
| Saudi Arabia | 217 | 55 | 115 | 28 | 603 | -- | 36 | 161 | 943 | 998 |
| South Africa | 1,860 | 224 | -- | 24 | 364 | -- | 25 | 185 | 598 | 822 |
| Spain | 214 | 842 | 1,770 | 859 | 7,260 | 3 | 1,750 | 2,310 | 13,900 | 14,800 |
| Other | 893 | 679 | 1,170 | 344 | 2,750 | 55 | 1,030 | 1,110 | 6,460 | 7,140 |
| Total | 16,100 | 24,500 | 40,600 | 23,100 | 126,000 | 11,800 | 33,800 | 56,600 | 292,000 | 317,000 |

-- Zero.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ One or more faces worked more than simply cut.
3/ Normal quarry products. Includes crude or roughly trimmed and roughly cut by sawing or otherwise. HTS No. 2516.11.0000, 2516.12.0030, and 2516.12.0060.

4/ Simply cut with a flat even surface. HTS No. 6802.23.0000.
5/ Only one face worked more than simply cut. HTS No. 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 COUNTRY 1/

| Country | Dressed marble slabs 2/ |  | Dressed marble--other 3/ |  | Dressed othercalcareous 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) |
| 1998: |  |  |  |  |  |  |  |  |
| China | 2,030 | \$1,340 | 4,110 | \$4,710 | 3,360 | \$2,740 | 89 | \$58 |
| France | 43 | 36 | 604 | 1,120 | 35,400 | 17,500 | 51 | 95 |
| Greece | 5,430 | 5,810 | 4,430 | 5,150 | 4,970 | 6,160 | 1 | 3 |
| India | 683 | 571 | 976 | 1,250 | 510 | 593 | 3 | 9 |
| Italy | 40,200 | 39,600 | 57,000 | 55,600 | 64,800 | 55,700 | 3,820 | 2,180 |
| Mexico | 875 | 830 | 6,790 | 6,700 | 9,920 | 9,140 | 226 | 204 |
| Portugal | 1,300 | 1,100 | 2,290 | 2,100 | 10,900 | 7,620 | 104 | 18 |
| Spain | 7,130 | 5,770 | 20,500 | 17,800 | 48,500 | 36,300 | 257 | 215 |
| Taiwan | 1,050 | 1,240 | 4,140 | 6,970 | 1,260 | 925 | 17 | 99 |
| Turkey | 4,400 | 3,640 | 3,200 | 2,680 | 4,460 | 3,330 | 60 | 91 |
| Other r/ | 6,600 | 3,850 | 7,470 | 7,430 | 52,400 | 17,000 | 588 | 576 |
| Total | 69,800 | 63,800 | 111,000 | 112,000 | 236,000 | 157,000 | 5,220 | 3,550 |
| 1999: |  |  |  |  |  |  |  |  |
| China | 4,830 | 2,910 | 6,120 | 6,340 | 7,740 | 5,000 | 75 | 98 |
| France | 104 | 182 | 161 | 175 | 20,100 | 18,400 | 3 | 7 |
| Greece | 4,820 | 4,960 | 5,050 | 5,820 | 24,300 | 3,600 | 214 | 163 |
| India | 805 | 728 | 1,120 | 1,260 | 2,010 | 770 | 63 | 59 |
| Italy | 43,200 | 37,600 | 57,300 | 58,700 | 80,400 | 55,100 | 2,490 | 2,560 |
| Mexico | 609 | 780 | 8,250 | 7,630 | 11,300 | 10,700 | 243 | 303 |
| Portugal | 940 | 733 | 1,930 | 1,570 | 14,000 | 7,800 | 138 | 91 |
| Spain | 8,720 | 5,770 | 22,700 | 19,700 | 65,900 | 38,100 | 740 | 1,050 |
| Taiwan | 1,050 | 1,180 | 4,620 | 8,450 | 1,420 | 645 | 45 | 57 |
| Turkey | 3,740 | 3,120 | 5,270 | 3,760 | 6,100 | 3,760 | 120 | 134 |
| Other | 5,970 | 5,530 | 8,950 | 10,200 | 57,100 | 24,300 | 8,190 | 1,250 |
| Total | 74,700 | 63,500 | 121,000 | 124,000 | 290,000 | 168,000 | 12,300 | 5,770 |

r/ Revised.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Worked more than simply cut with a flat surface. HTS No. 6802.91.0500.
3/ Merely cut by sawing or otherwise.
4/ Worked more than simply cut with a flat surface. Other than marble and travertine. HTS No. 6802.92.0000.
5/ Simply cut by sawing or otherwise into rectangular blocks or slabs. HTS No. 2515.12.1000.

Source: U.S. Census Bureau as modified by the U.S. Geological Survey.

TABLE 16
U.S. IMPORTS FOR CONSUMPTION OF DIMENSION STONE, BY TYPE 1/

| Type |  | 1998 |  | 1999 |  | $\begin{aligned} & \hline \text { Major source } \\ & \text { for } 1999, \\ & \text { (percentage) } 2 / \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | Value (thousands) | Quantity | Value (thousands) |  |
| Calcareous stone--other 3/ | metric tons | 11,100 | \$5,900 | 32,100 | \$5,120 | Mexico, 36\%. |
| Marble and alabaster 4/ | do. | 15,600 | 6,950 | 16,600 | 11,000 | Italy, 34\%. |
| Sandstone, cut, by sawing or otherwise 5/ | do. | 410 | 239 | 497 | 224 | India, 45\%. |
| Slate, roofing | million square feet | 9 | 5,110 | 10 | 6,660 | Canada, 35\%. |
| Slate, roughly trimmed or simply cut 5/ | do. | 3,440 | 1,490 | 5,000 | 2,140 | China, 34\%. |
| Slate, worked and articles of slate, and other 6/ | do. | NA | 39,600 | NA | 50,600 | India, 32\%. |
| Travertine, monumental or building stone and articles thereof 7/ | do. | 19,900 | 11,000 | 28,700 | 15,100 | Italy, 53\%. |
| Travertine, worked monumental or building stone 8/ | do. | 43,800 | 25,200 | 59,100 | 34,900 | Italy, 50\%. |
| Other stone-monumental or building stone 9/ | do. | 5,400 | 2,680 | 10,800 | 4,310 | Canada, 29\%. |

NA Not available.
1/ Data are rounded to no more than three significant digits. Does not include totals shown on tables 14 and 15.
2/ By value.
3/ Other than marble, travertine, and alabaster. Simply cut with a flat surface.
4/ Simply cut with a flat surface.
5/ Rectangular blocks or slabs.
6/ Other than roofing, including agglomerated slate.
7/ Simply cut with a flat surface. Other than tiles and granules.
8/ Dressed or polished but not further worked.
9/ Simply cut with a flat surface. Other than granite, calcareous stone, alabaster, slate, dolomite, quartzite, and steatite.


[^0]:    ${ }^{1}$ Prior to January 1996, published by the U.S. Bureau of Mines.

