# Crushed Stone 

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Crushed stone is one of the most accessible natural resources and a major basic raw material used by a wide range of industries from construction to agriculture, chemicals, and industrial processes. Despite the relative lowvalue of its basic products, the crushed stone industry is a major contributor to and an indicator of the economic well-being of the Nation.

A total of 1.23 billion metric tons of crushed stone was produced for consumption in the United States in 1994, a $9.8 \%$ increase compared with the total production of 1993. This tonnage represents the highest production level ever recorded in the United States, indicating a continued increase in the demand for construction aggregates in 1994. (See table 1.)

About three-quarters of the crushed stone production continued to be limestone and dolomite, followed by granite, traprock, sandstone and quartzite, miscellaneous stone, calcareous marl, marble, volcanic cinder and scoria, slate, and shell, in order of volume. (See table 2.)

Foreign trade of crushed stone continued to remain relatively small in 1994 . Exports increased $7.3 \%$ to 5.2 million tons, while value decreased 3\% to $\$ 38.1$ million compared with that of 1993. Imports of crushed stone, including calcium carbonate, increased $5.8 \%$ to 8.9 million tons, while the value increased $4.7 \%$ to $\$ 77.8$ million. Domestic apparent consumption of crushed stone was 1.23 billion tons. (See tables 1, 22 and 23.)

## Legislation and Government Programs

Department of Transportation and Related Agencies Appropriation Act of 1994, (Public Law 103-122), was signed by the President on October 27, 1994. The Act appropriates $\$ 20.6$ billion for new highway spending, a $\$ 2$ billion increase from the fiscal year 1993 total. The Act also includes a $\$ 2.2$ billion appropriation in grants for airport construction, and provision for a one-year delay in the imposition of the "crumb rubber" use in highway construction as required by the ISTEA Act of 1991.

## Production

Domestic production data for crushed stone
are developed by the U.S. Bureau of Mines (USBM) from voluntary surveys of U.S. producers. In response to the customers' requests to provide better statistical information on construction aggregates, the USBM reintroduced the annual surveys on crushed stone beginning with 1994 calendar year, in addition to the quarterly survey of crushed stone and sand and gravel.

Of the 5,127 crushed stone operations surveyed in 1994, 3,238 operations with 3,897 quarries were active. Of these, 2,523 operations with 3,118 quarries representing $77.9 \%$ of the total number of operations reported to the USBM survey and their total production, represented $89.2 \%$ of the total U.S. crushed stone output. The nonrespondent's production was estimated using employment data and/or adjusted prior years' production reports. Of the 2,523 reporting operations, 510 operations with 803 quarries did not report a breakdown by end use. Their production represented $21.4 \%$ of the U.S. total and is included in table 13 under "Unspecified uses, actual." The estimated production of 715 nonresponding operations represented $10.8 \%$ of the U.S. total and is included in table 13 under "Unspecified uses, estimated." A total of 751 quarries were either idle or presumed to have been idle in 1994 because no information was available to estimate their production. A total of 943 operations were closed down since 1993, the last year when a full survey of crushed stone producers was conducted. Most of the idle or closed operations were small temporary quarries operated by the State or local governments.

A total of 1.23 billion tons of crushed stone was produced for consumption in the United States in 1994, a $9.8 \%$ increase compared with that of 1993. This tonnage represents the highest production level ever recorded in the United States. (See table 1.) Of this total, 881 million tons or $71.7 \%$ was limestone and dolomite, 178 million tons or $14.5 \%$ was granite, and 91 million tons or $7.4 \%$ was traprock. The remaining $6.4 \%$ was shared, in descending order of quantity, by sandstone and quartzite, miscellaneous stone, calcareous marl, marble, slate, volcanic cinder and scoria, and shell. (See table 2.)

A comparison of the four major geographic regions indicates that in 1994 the South continued to lead the Nation in the production
of crushed stone with 562.8 million tons or $45.8 \%$ of the total, followed by the Midwest with 380.1 million tons or $30.9 \%$, and the Northeast with 162.0 million tons or $13.2 \%$. Approximately $77 \%$ of the total U.S. crushed stone output was produced in two major geographic regions, the South and the Midwest. (See table 3.)

Of the nine geographic regions, the South Atlantic led the Nation in the production of crushed stone with 292.7 millions tons or $23.8 \%$ of the U.S. total. Next was the East North Central region with 228.7 or $18.7 \%$ of the total, followed by the West North Central with 150.4 million tons or $12.2 \%$.

A comparison between the 1993 and 1994 production data by regions indicates that the output of crushed stone increased in all regions except the Mountain. The largest increases were recorded in the West North Central region, $+20.9 \%$; the New England, $+19.7 \%$; and the East South Central, $+13.1 \%$.

Crushed stone was produced in every State except Delaware and North Dakota. The 10 leading States in the production of crushed stone, in order of volume, were Pennsylvania, Texas, Missouri, Florida, Illinois, Virginia, Ohio, Kentucky, Georgia, and North Carolina. Their combined production represented $51.2 \%$ of the national total. Crushed stone was produced by 1,584 companies at 3,238 operations with 3,897 quarries. Leading U.S. producers in order of volume were, Vulcan Materials Co., Cornerstone Construction \& Materials, Inc./Hanson Industries, MartinMarietta Aggregates, CSR America Inc., and Rogers Group, Inc.

Effective June 1, 1994, English China Clay's Construction Materials Division of Cheltenham, Gloucestershire, England, was "demerged" from the English China Clay PLC Group and a new company, CAMAS PLC, was created. These changes affected its U.S. subsidiary, the ECC Construction Materials America, Inc. of Lakewood, CO, that became CAMAS America, Inc.

In July, Tarmac America, Inc. of Herndon, VA, announced the reorganization of its operations into three product line groups: aggregates and cement, ready-mixed concrete, and concrete products. The company headquarters also were moved to Norfolk, VA.

In the second half of the year, Martin

Marietta Aggregates of Raleigh, NC, purchased Dravo Corp.'s construction aggregates business. Included in the acquisition were 22 production facilities located in nine States and the Bahamas that became the Martin Marietta Central Region Division.

Limestone.-The 1994 output of crushed limestone, including some dolomite, increased $10.8 \%$ to 788 million tons valued at $\$ 3.9$ billion, compared with the 1993 totals. (See table 2.) In addition to the quarries reporting only limestone, 64 operations with 76 quarries reported producing both limestone and dolomite, without making a distinction between the two kinds of stone. Their production, 25.7 million tons, was included with the limestone, and therefore, the limestone totals shown in this chapter include an undetermined amount of dolomite, in addition to the dolomite reported separately.

Limestone was produced by 917 companies at 1,896 operations with 1,996 quarries in 47 States. In addition, 46 companies with 64 operations and 67 quarries reported producing limestone and dolomite from the same quarries. Leading States, in order of tonnage, were Texas, Florida, Missouri, Kentucky, and Pennsylvania; these five States accounted for $37 \%$ of the total U.S. output. (See table 8.)

Leading U.S. producers were, in order of volume, Vulcan Materials Co., Cornerstone Construction \& Materials, Inc./Hanson Industries, CSR America, Inc., Martin Marietta Aggregates, and Rogers Group, Inc.

Dolomite.-Production of dolomite increased $14.0 \%$ to 92.7 million tons valued at $\$ 479$ million, compared with that of 1993. (See table 2.) Crushed dolomite was reportedly produced by 93 companies at 164 operations with 174 quarries in 26 States. An additional undetermined amount of dolomite is included in the total crushed limestone. Leading States in the production of dolomite, in order of tonnage, were Pennsylvania, Ohio, New York, Michigan, and Indiana; these five States accounted for $37.0 \%$ of the total U.S. output. (See table 8.)

Leading U.S. producers were Vulcan Materials Co.; Cornerstone Construction \& Materials, Inc./Hanson Industries; Glasgow, Inc.; S. E. Johnson Companies/Stoneco, Inc.; and Asarco-American Limestone Co.

Marble.-Production of crushed marble increased $74.5 \%$ to 6.1 million tons valued at $\$ 65$ million. (See table 2.) Crushed marble was produced by 13 companies with 26 operations and 45 quarries in 10 States.

Leading producers of crushed marble, in order of tonnage, were Georgia Marble Co., Columbia River Carbonates, and CAMAS America, Inc.

Calcareous Marl.—Output of marl increased $17.2 \%$ to 6.2 million tons valued at 32.2 million. (See table 2.) Marl was produced by 14 companies with 14 operations at 16 quarries in 8 States. South Carolina accounted for $52 \%$ of total U.S. output. (See table 9.)

Leading producers, in order of tonnage, were Holderbank Holnam Inc., Capitol Aggregates Inc., and Medusa Corp./Medusa Cement Co.

Shell.-Shell is mainly derived from fossil reefs or oyster shell. The output of crushed shell decreased $10.1 \%$ to 1.8 million tons valued at $\$ 10.3$ million. (See table 2.) The decrease was mostly owing to the restrictions imposed on the industry in Louisiana as a result of concerns that shell dredging produces irreversible damage to the environment. Crushed shell was produced by 11 companies from 11 operations in 5 States.
Leading producers, in order of tonnage, were Dravo Basic Materials Co., Quality Aggregates, Inc., and Leisey Shell Corp.

Granite.-The 1994 output of crushed granite increased $6.0 \%$ to 178 million tons valued at $\$ 1.1$ billion. (See table 2.) Crushed granite was produced by 153 companies at 324 operations with 397 quarries in 33 States. Leading States, in order of tonnage, were Georgia, North Carolina, Virginia, South Carolina, and New Jersey; these five States accounted for $74.8 \%$ of the U.S. output. (See table 10.)

Leading U.S. producers, in order of tonnage, were Vulcan Materials Co., Martin Marietta Aggregates, Cornerstone Construction \& Materials, Inc./Hanson Industries, Florida Rock Industries Inc., and Blue Circle America, Inc./Blue Circle Aggregates.

Traprock.—Production of crushed traprock increased $3.9 \%$ to 91.0 million tons valued at $\$ 576$ million. (See table 2.) Traprock was produced by 265 companies at 379 operations with 591 quarries in 27 States. Leading States, in order of tonnage, were Oregon, Virginia, Washington, New Jersey, and Hawaii; these five States accounted for $60.9 \%$ of U.S. output. (See table 10.)

Leading U.S. producers, in order of tonnage, were Vulcan Materials Co., Luck Stone Corp., Stavola, Inc./Traprock Industries, Meridian Aggregates Co., and Cornerstone Construction \& Materials, Inc./Hanson Industries.

Sandstone and Quartzite.-The combined output of crushed sandstone and quartzite increased $5.5 \%$ to 34.3 million tons valued at $\$ 212$ million. (See table 2.) Crushed sandstone was produced by 110 companies at 138 operations with 193 quarries in 27 States, while crushed quartzite was produced by 33 companies at 34 operations with 37 quarries in

17 States. Leading States in the production of sandstone and quartzite in order of tonnage were Pennsylvania, Arkansas, and South Dakota; their combined production represented $43.6 \%$ of the U.S. output. (See table 10.)

Leading producers of sandstone and quartzite, in order of tonnage, were Ashland Oil, Inc.; APAC, Inc./Arkola Sand and Gravel Co., Western Mobile, Inc., and Oldcastle Inc./Callanan Industries, Inc.

Slate.-The 1994 output of crushed slate increased $30.6 \%$ to 2.7 million tons valued at $\$ 18.9$ million. (See table 2.) Crushed slate was produced by 13 companies at 15 quarries in 6 States. Most of the crushed slate was produced in North Carolina.

Leading producers, in order of tonnage, were Martin Marietta Aggregates, Carolina Stalite Co., and Mariposa Aggregates Co.

Volcanic Cinder and Scoria.-Production of volcanic cinder and scoria decreased in 1994 $13.5 \%$ to 2 million tons valued at $\$ 12.6$ million. (See table 2.) Volcanic cinder and scoria were produced by 27 companies from 45 operations with 133 quarries in 14 States. Leading States, in order of volume were, California, New Mexico, and Hawaii; their combined production accounted for $44.5 \%$ of the total U.S. output. (See table 11.)

Leading producers, in order of tonnage, were Martin Marietta Aggregates, Stoney Point Rock Quarry Inc., and Byley H. G. \& Sons Construction Co., Inc.

Miscellaneous Stone.-Output of other kinds of crushed stone increased $11.8 \%$ to 25.6 million tons valued at $\$ 150$ million. (See table 2.) Miscellaneous stone was produced by 105 companies from 129 operations with 223 quarries in 28 States. Leading States, in order of volume, were Pennsylvania, California, and North Carolina; their combined production accounted for $38.2 \%$ of the total U.S. output. (See table 11.)

## Consumption

Crushed stone production reported to the USBM is actually material that was either sold or used by producers. Stockpiled production is not included in the reported quantities. Therefore, the "sold or used" tonnage represents the amount of production released for domestic consumption or export in a given year. Because some of the crushed stone producers did not report a breakdown by end use, their total production is included in "Other unspecified uses, actual." The estimated production of nonrespondents is included in "Other unspecified uses, estimated."

In 1994, U.S. consumption of crushed stone
was 1.2 billion tons valued at $\$ 6.6$ billion, a $9.8 \%$ increase compared with that of 1993 . Of the 1.2 billion tons of crushed stone consumed in 1994, 396 million tons or $32.2 \%$ of the total was unspecified uses - actual and estimated. Of the remaining 832 million tons, about $83.2 \%$ was used as construction aggregates, mostly for highway and road construction and maintenance; $13.6 \%$ for chemical and metallurgical uses, including cement and lime manufacture; $2 \%$ for agricultural purposes; and $1 \%$ for special uses and products. (See table 13.) To provide a more accurate estimation of the consumption patterns for crushed stone, the "Unspecified uses" are not included in the above percentages. It is recommended that in any use pattern or marketing analysis the quantities included in "Unspecified uses" be distributed among the reported uses by applying the above percentages to the "Unspecified uses total."

Limestone.-Of the 788 million tons of crushed limestone consumed, 245 million tons or $31.1 \%$ was "Unspecified uses - actual and estimated." Of the remaining 543 million tons of crushed limestone reported by uses by the producers, $77.1 \%$ was used as construction aggregates, $19 \%$ for chemical and metallurgical uses including cement and lime manufacturing, $2.6 \%$ for agricultural purposes, and $1.1 \%$ for special uses and products. (See table 14.)

Dolomite.-Of the 93 million tons of crushed dolomite consumed, 6 million tons or $6.4 \%$ was "Unspecified uses - actual and estimated." Of the remaining 87 million tons of crushed dolomite reported by uses by the producers, $90.1 \%$ was used as construction aggregates, $5.6 \%$ for chemical and metallurgical uses, and $2.6 \%$ for agricultural purposes. An additional undefined amount of dolomite consumed in a variety of uses, mostly construction aggregates, is reported with the limestone. (See table 14.)

Marble.-Of the 6.1 million tons of crushed marble consumed, 3.3 million tons or $54.9 \%$ was reported as "Other unspecified uses." Of the remaining 2.8 million tons of crushed marble reported by uses by the producers, 1.6 million tons or $56.5 \%$ was used as miscellaneous uses, including fillers and extenders, and 1.1 million tons or $41.8 \%$ as construction aggregates. (See table 16.)

Calcareous Marl.—Of the 6.2 million tons of crushed calcareous marl consumed, 2.6 million tons or $42 \%$ was reported as "Other unspecified uses." Of the remaining 3.6 million tons of crushed marl reported by uses by the producers, $79.2 \%$ was used for cement manufacturing, and the remaining $20.8 \%$ as construction aggregates and for agricultural

## purposes.

Shell.-Of the 1.8 million tons of crushed shell consumed, 115,000 tons or $6.4 \%$ was reported as "Other unspecified uses." Of the remaining 1.7 million tons of crushed shell reported by uses by the producers, $98.8 \%$ was used as construction aggregates.

Granite.-Of the 178 million tons of crushed granite consumed, 71 million tons or $39.9 \%$ was reported as "Other unspecified uses." Most of the remaining 107 million tons of crushed granite reported by uses by the producers was used as construction aggregates. (See table 17.)

Traprock.-Of the 91 million tons of crushed traprock consumed, 33 million tons or $36.4 \%$ was reported as "Other unspecified uses." Most of the remaining 58 million tons of crushed traprock reported by uses by the producers was used as construction aggregates. (See table 17.)

Sandstone and Quartzite.—Of the 27.4 million tons of crushed sandstone consumed, 13.3 million tons or $48.4 \%$ was reported as "Other unspecified uses." Most of the remaining 14.2 million tons of crushed sandstone reported by uses by the producers, was used as construction aggregates. (See table 18.)

Of the 6.8 million tons of crushed quartzite consumed, 3.1 million tons or $45.6 \%$ was reported as "Other unspecified uses." Most of the remaining 3.7 million tons of crushed quartzite reported by uses by the producers was used as construction aggregates. (See table 18.)

Volcanic Cinder and Scoria.-Of the 2.1 million tons of volcanic cinder and scoria consumed, 794,000 tons or $38.6 \%$ was reported as "Other unspecified uses." Most of the remaining 1.3 million tons of crushed volcanic cinder and scoria reported by uses by the producers was used as construction aggregates. (See table 19.)

Miscellaneous Stone.-Of the 36.3 million tons of miscellaneous crushed stone consumed, 20.7 million tons or $56.9 \%$ was reported as "Other unspecified uses." Of the remaining 15.6 million tons reported by uses by the producers, $81.8 \%$ was used as construction aggregates and $18.2 \%$ was used for cement manufacturing. (See table 19.)

## Prices

Prices in this chapter are f.o.b. plant, usually at the first point of sale or captive use. This value does not include transportation from the plant or yard to the consumer. It does, however, include all costs of mining, processing, in-plant transportation, overhead costs and profit.

The 1994 average unit price per ton of crushed stone increased $1.6 \%$ to $\$ 5.38$, compared with that of 1993. By kind of stone, the average unit prices showed modest increases of $4.3 \%$ for calcareous marl and miscellaneous stone, $4.2 \%$ for granite, $3.7 \%$ for sandstone and quartzite, $3.6 \%$ for traprock, $3.1 \%$ for slate, $2 \%$ for limestone, and $0.5 \%$ for volcanic cinder and scoria. At the same time, the average unit prices decreased for marble $49.6 \%$, for shell $8.2 \%$, and for dolomite $4 \%$.(See table 2.)

## Transportation

No means of transportation was reported by the producers for 424 million tons or $34.5 \%$ of the total 1.23 billion tons of crushed stone produced for consumption in 1994. Of the remaining 806 million tons of crushed stone, 582 million tons or $72.2 \%$ was reported as transported by truck from the processing plant or quarry to the first point of sale or use, $6.8 \%$ was transported by rail, and $7.1 \%$ by waterway. About $11.3 \%$ of the total production was reported as not transported and therefore used on-site. Information regarding means of transportation used by the producers to ship crushed stone in each geographic regions is also provided. (See table 20.)

## Foreign Trade

The widespread distribution of domestic crushed stone deposits and the high cost of transportation limits foreign trade mostly to local transactions across international boundaries. U.S. imports and exports are small, representing less than $0.5 \%$ of the domestic consumption. However, shipments of crushed stone by water from Canada and especially Mexico are increasing.

Exports.-Exports of crushed stone increased $7.3 \%$ to 5.2 million tons compared with that of 1993 , while value decreased $3 \%$ to $\$ 38.1$ million. About $96.3 \%$ of the exported crushed stone was limestone, Canada being the major destination with $87.8 \%$ of the total crushed stone exported. (See table 22.)

Imports.-Imports of crushed stone increased $5.8 \%$ to 8.9 million tons compared with that of 1993, while the value increased $4.7 \%$ to $\$ 77.8$ million. About $93.5 \%$ of the imported crushed stone was limestone.

Imports of natural calcium carbonate fines decreased significantly from 44,000 tons to 5,000 tons. (See table 23.)

Shipments of crushed stone from the Bahamas, Canada, and Mexico into the United States continued in 1993. The imported crushed stone was used mostly as construction aggregates or for cement manufacturing. This
trend is expected to continue, and the volume of imports, especially from Mexico, to increase.

## Outlook

The demand for crushed stone in 1995 is expected to be about 1.3 billion tons, a $5 \%$ increase compared with that of 1994. Gradual increases in demand for construction aggregates are anticipated after 1995 as well, based on the volume of work on the infrastructure that is being financed by the Intermodal Surface Transportation Efficiency Act of 1991 and the U.S. economy in general. The projected increases will be influenced by construction activity primarily in the public as well as the private construction sector.

Crushed stone f.o.b. prices are not expected to increase significantly. However, the delivered prices of crushed stone are expected to increase, especially in and near metropolitan areas, mainly because more aggregates are transported from distant sources.

## OTHER SOURCES OF INFORMATION

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TABLE 1
SALIENT U.S. CRUSHED STONE STATISTICS 1/

e/Estimated. r/Revised.
1/Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits.
2/Does not include American Samoa, Guam, Puerto Rico, and the U.S. Virgin Islands.
3/Excludes precipitated calcium carbonate.

TABLE 2
CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY KIND 1/

| Kind | 1993 r/ |  |  |  | 1994 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of <br> quarries | Quantity (thousand metric tons) | Value (thousands) | Unit value | Number of <br> quarries | Quantity (thousand metric tons) | Value (thousands) | Unit value |
| Limestone 2/ | 2,090 | 711,000 | \$3,480,000 | \$4.90 | 2,070 | 788,000 | \$3,940,000 | \$5.00 |
| Dolomite | 160 | 81,300 | 438,000 | 5.38 | 174 | 92,700 | 479,000 | 5.17 |
| Marble | 36 | 3,490 | 73,900 | 21.17 | 45 | 6,090 | 65,100 | 10.68 |
| Calcareous marl | 13 | 5,280 | 26,400 | 4.99 | 16 | 6,190 | 32,200 | 5.20 |
| Shell | 15 | 1,990 | 12,500 | 6.27 | 11 | 1,790 | 10,300 | 5.75 |
| Granite | 469 | 168,000 | 1,010,000 | 6.04 | 398 | 178,000 | 1,120,000 | 6.29 |
| Traprock | 600 | 87,600 | 535,000 | 6.11 | 591 | 91,000 | 576,000 | 6.33 |
| Sandstone and quartzite | 230 | 32,500 | 194,000 | 5.96 | 230 | 34,300 | 212,000 | 6.18 |
| Slate | 13 | 2,090 | 14,100 | 6.73 | 15 | 2,730 | 18,900 | 6.94 |
| Volcanic cinder and scoria | 126 | 2,380 | 14,500 | 6.10 | 133 | 2,060 | 12,600 | 6.13 |
| Miscellaneous stone | 165 | 22,900 | 129,000 | 5.61 | 224 | 25,600 | 150,000 | 5.85 |
| Total | XX | 1,120,000 | 5,930,000 | 5.30 | XX | 1,230,000 | 6,620,000 | 5.39 |

r/ Revised. XX Not applicable.
1/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits, except prices; may not add to totals shown. 2/ Includes "Limestone-dolomite," reported with no distinction between the two.

TABLE 3
CRUSHED STONE 1/ SOLD OR USED IN THE UNITED STATES, BY REGION 2 /
(Thousand metric tons and thousand dollars)

| Region | 1993 |  | 1994 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Northeast: |  |  |  |  |
| New England | 21,800 | 169,000 | 26,100 | 207,000 |
| Middle Atlantic | 126,000 | 788,000 | 136,000 | 854,000 |
| Midwest: |  |  |  |  |
| East North Central | 208,000 | 923,000 | 230,000 | 1,040,000 |
| West North Central | 124,000 | 602,000 | 150,000 | 758,000 |
| South: |  |  |  |  |
| South Atlantic | 270,000 r/ | 1,560,000 r/ | 293,000 | 1,750,000 |
| East South Central | 124,000 | 637,000 | 140,000 | 697,000 |
| West South Central | $123,000 \mathrm{r} /$ | 526,000 r/ | 130,000 | 572,000 |
| West: |  |  |  |  |
| Mountain | 37,200 r/ | 209,000 r/ | 35,800 | 199,000 |
| Pacific | 83,300 r/ | 516,000 r/ | 87,600 | 541,000 |
| Total | 1,120,000 | 5,930,000 r/ | 1,230,000 | 6,620,000 |

r/ Revised.
1/ Includes volcanic cinder and scoria.
2/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

TABLE 4
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY QUARTER AND REGION 1/
(Thousand metric tons and thousand dollars)

| Region | Quantity 1st quarter | $\frac{\text { Percent }}{\text { change } 2 /}$ | $\frac{\text { Quantity }}{\text { 2nd quarter }}$ | $\frac{\text { Percent }}{\text { change } 2 /}$ | $\frac{\text { Quantity }}{\text { 3rd quarter }}$ | $\frac{\text { Percent }}{\text { change } 2 /}$ | $\begin{gathered} \text { Quantity } \\ \hline \text { 4th quarter } \\ \hline \end{gathered}$ | $\frac{\text { Percent }}{\text { change } 2 /}$ | Total 3/ | Value total 3/ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Northeast: |  |  |  |  |  |  |  |  |  |  |  |  |
| New England | 900 | -10.5 | 6,300 | 2.2 | 7,900 | 5.3 | 7,100 | 10.6 | 22,200 |  | 176,700 |  |
| Middle Atlantic | 11,700 | -11.9 | 38,100 | 4.5 | 45,700 | 7.4 | 38,100 | 18.2 | 133,600 |  | 858,200 |  |
| Midwest: |  |  |  |  |  |  |  |  |  |  |  |  |
| East North Central | 25,000 | 5.7 | 64,800 | 13.8 | 71,700 | 5.2 | 64,500 | 9.2 | 226,000 |  | 1,032,200 |  |
| West North Central | 22,100 | 20.4 | 36,500 | 11.8 | 42,500 | 10.9 | 33,900 | 0.1 | 134,900 |  | 673,000 |  |
| South: |  |  |  |  |  |  |  |  |  |  |  |  |
| South Atlantic | 54,900 | 10.6 | 82,000 | 11.2 | 85,000 | 13.3 | 78,700 | 16.1 | 300,600 |  | 1,788,200 |  |
| East South Central | 23,800 | 10.7 | 37,700 | 13.7 | 41,400 | 13.1 | 37,300 | 15.7 | 140,300 |  | 744,800 |  |
| West South Central | 30,000 | 17.7 | 33,700 | 7.8 | 37,300 | 9.4 | 31,400 | 9.4 | 132,400 |  | 582,400 |  |
| West: |  |  |  |  |  |  |  |  |  |  |  |  |
| Mountain | 6,700 | -1.4 | 9,900 | -2.8 | 11,300 | -7.4 | 9,000 | 9.6 | 36,800 |  | 213,600 |  |
| Pacific 4/ | 15,600 | 23.0 | 18,700 | 11.5 | 20,600 | 0.2 | 19,700 | -2.6 | 74,600 |  | 471,200 |  |
| Total 3/ | 190,700 | 10.6 | 327,600 | 10.2 | 363,500 | 8.5 | 319,700 | 10.7 | 1,224,600 | 5/ | 6,724,600 | 5/ |

1/ As published in the "Crushed Stone and Sand and Gravel in the Fourth Quarter of 1994" Mineral Industry Survey.
2/ All percentage changes are calculated using unrounded totals.
3/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by regions.
4/ Does not include Alaska and Hawaii.
5/ Includes Alaska, Hawaii, and "Other;" see table 6.

TABLE 5
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE $1 / 2 /$

r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."
1/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits, except prices; may not add to totals shown.
2/ To avoid disclosing company proprietary data, certain State totals do not include all kinds of stone produced within the State; the
portion not shown has been included with "Other."
3/ Data derived in part from the Alaska Geological Survey.
4/ Excludes sandstone.
5/ Excludes dolomite.
6/ Excludes traprock.
7/ Excludes limestone.
8/ Excludes other.
9/ Excludes limestone-dolomite.
10/ Excludes shell.
11/ Excludes quartzite.
12/ Excludes slate.
13/ Excludes volcanic cinder.
14/ Excludes marble.

TABLE 6
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY QUARTER AND STATE 1/
(Thousand metric tons and thousand dollars)

| State | $\frac{\text { Quantity }}{\text { 1st quarter }}$ | Percent change 2/ | Quantity <br> 2nd quarter | Percent change $2 /$ | Quantity 3rd quarter | Percent change 2/ | Quantity <br> 4th quarter | Percent change 2/ | Total | Value total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 6,600 | 14.3 | 8,200 | 4.4 | 8,600 | 5.6 | 8,200 | 15.4 | 31,600 | 193,700 |
| Alaska 4/ | -- | -- | -- | -- | -- | -- | -- | -- | 2,500 | 11,900 |
| Arizona | 1,500 | 3.1 | 1,600 | 3.2 | 1,800 | -2.0 | 1,700 | 8.7 | 6,600 | 38,300 |
| Arkansas 5/ | 4,600 | 7.2 | 6,500 | 15.7 | 8,000 | 26.4 | 6,200 | 12.0 | 25,300 | 122,700 |
| California | 9,000 | 33.2 | 9,600 | 5.6 | 10,300 | -5.7 | 10,500 | -7.1 | 39,400 | 262,000 |
| Colorado | 1,500 | -14.0 | 2,500 | -12.3 | 2,800 | -21.2 | 2,100 | -7.9 | 8,900 | 54,300 |
| Connecticut 5/ | 200 | 42.8 | 1,300 | 1.3 | 2,100 | 27.0 | 1,800 | 15.9 | 5,400 | 47,300 |
| Delaware 4/ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Florida | 17,800 | 10.2 | 19,200 | 14.8 | 19,800 | 23.9 | 18,400 | 14.2 | 75,200 | 376,000 |
| Georgia | 10,900 | 14.8 | 14,500 | 6.3 | 15,200 | 7.4 | 14,400 | 18.9 | 55,000 | 330,000 |
| Hawaii 4/ 5/ | -- | -- | -- | -- | -- | -- | -- | -- | 8,700 | 84,000 |
| Idaho 6/ | -- | -- | -- | -- | -- | -- | -- | -- | 3,700 | 17,000 |
| Illinois 5/ | 7,600 | 7 | 18,900 | 13.9 | 21,400 | 5.9 | 19,100 | 8.0 | 67,000 | 355,100 |
| Indiana | 6,300 | 22.7 | 12,600 | 30.3 | 12,600 | 6.5 | 12,200 | 19.3 | 43,700 | 205,400 |
| Iowa | 4,100 | 8.9 | 8,700 | -3.8 | 9,300 | -2.1 | 7,500 | -8.5 | 29,600 | 165,800 |
| Kansas 5/ | 3,900 | 11.2 | 5,300 | 6.6 | 6,400 | 19.5 | 4,300 | -13.3 | 19,900 | 98,500 |
| Kentucky 5/ | 8,600 | -1.1 | 15,200 | 19.6 | 16,200 | 10.9 | 14,300 | 10.5 | 54,300 | 260,600 |
| Louisiana 5/ 6/ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maine | 200 | -14.0 | 600 | 8.0 | 700 | 44.1 | 600 | 2.4 | 2,100 | 12,300 |
| Maryland | 3,200 | 10.9 | 7,000 | 7.2 | 7,600 | 9.8 | 7,500 | 12.2 | 25,300 | 172,000 |
| Massachusetts 5/ | 200 | -31.8 | 2,800 | -1.8 | 2,800 | -19.6 | 2,700 | -5.0 | 8,500 | 68,900 |
| Michigan | 1,800 | -7.1 | 8,900 | -6.2 | 10,800 | 3.1 | 10,900 | 19.9 | 32,400 | 118,300 |
| Minnesota | 600 | 47.3 | 2,800 | 12.7 | 4,100 | 2.0 | 2,800 | 9.9 | 10,300 | 44,800 |
| Mississippi 6/ | -- | -- | -- | -- | -- | -- | -- | -- | 1,800 | 7,000 |
| Missouri | 12,800 | 33.4 | 16,400 | 21.9 | 19,200 | 34.0 | 17,900 | 11.9 | 66,300 | 314,900 |
| Montana | 300 | -19.3 | 700 | 11.3 | 600 | -51.7 | 500 | -7.7 | 2,100 | 8,000 |
| Nebraska | 1,300 | 22.5 | 2,000 | 30.4 | 2,200 | -13.0 | 1,400 | -10.8 | 6,900 | 40,700 |
| Nevada | 400 | 6.4 | 700 | 78.6 | 100 | -61.1 | 500 | 7.1 | 1,700 | 13,400 |
| New Hampshire | 100 | 32.6 | 500 | 45.6 | 700 | 37.4 | 800 | 86.9 | 2,100 | 12,200 |
| New Jersey 5/ | 1,400 | -34.3 | 5,100 | 8.7 | 5,600 | 13.1 | 6,100 | 20.8 | 18,200 | 153,800 |
| New Mexico 5/ | 600 | 3.4 | 900 | 14.1 | 1,100 | 2.2 | 700 | -29.6 | 3,300 | 18,000 |
| New York. | 2,700 | -17.2 | 11,300 | -2.4 | 15,100 | 8.7 | 10,000 | 4.1 | 39,100 | 228,700 |
| North Carolina 5/ | 9,400 | 10.8 | 14,600 | 7.3 | 15,200 | 9.8 | 13,700 | 15.5 | 52,900 | 343,900 |
| North Dakota 5/ 6/ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Ohio | 6,700 | -1.8 | 16,300 | 15.8 | 17,000 | 2.3 | 13,800 | -5.1 | 53,900 | 250,600 |
| Oklahoma | 7,200 | 21.2 | 7,500 | 3.5 | 8,700 | 26.0 | 7,900 | 12.3 | 31,300 | 139,300 |
| Oregon | 3,700 | 7.2 | 4,700 | 5.2 | 5,900 | 9.7 | 5,400 | -3.4 | 19,700 | 92,600 |
| Pennsylvania 5/ | 7,700 | -2.5 | 21,800 | 7.8 | 25,000 | 5.1 | 22,000 | 26.0 | 76,500 | 455,200 |
| Rhode Island 6/ | -- | -- | -- | -- | -- | -- | -- | -- | 1,700 | 12,300 |
| South Carolina | 4,400 | 10.4 | 5,900 | 6.4 | 5,600 | 8.2 | 5,300 | 3.1 | 21,200 | 132,300 |
| South Dakota 5/ | 500 | -16.8 | 1,400 | 25.2 | 1,300 | -8.7 | 1,100 | 4.0 | 4,300 | 19,600 |
| Tennessee | 7,900 | 23.5 | 14,100 | 17.4 | 16,400 | 22.6 | 14,400 | 21.9 | 52,800 | 287,800 |
| Texas | 18,000 | 18.5 | 19,800 | 7.9 | 20,800 | -1.3 | 17,300 | 7.2 | 75,900 | 315,000 |
| Utah | 1,500 | 27.4 | 1,000 | -13.7 | 1,800 | 56.7 | 1,300 | 22.8 | 5,600 | 37,500 |
| Vermont 6/ | -- | -- | -- | -- | -- | -- | -- | -- | 2,600 | 13,900 |
| Virginia | 8,200 | 3.3 | 17,300 | 20.4 | 17,400 | 14.3 | 16,200 | 21.1 | 59,100 | 351,600 |
| Washington | 2,800 | 11.8 | 4,600 | 47.1 | 4,600 | 6.3 | 3,900 | 21.2 | 15,900 | 86,700 |
| West Virginia 5/ | 1,800 | 16.4 | 4,000 | 37.9 | 5,000 | 52.3 | 3,600 | 43.3 | 14,400 | 114,500 |
| Wisconsin | 2,400 | -15.9 | 7,900 | 15.1 | 10,100 | 11.8 | 7,900 | 5.6 | 28,300 | 114,600 |
| Wyoming | 400 | 2.9 | 1,200 | -6.2 | 1,500 | 24.2 | 1,100 | 92.8 | 4,200 | 25,000 |
| Other | -- | -- | -- | -- | -- | -- | -- | -- | 12,000 | 96,600 |
| Total 3/ | XX | XX | XX | XX | XX | XX | XX | XX | 1,224,600 | 6,724,600 |

XX Not applicable.
1/ As published in the "Crushed Stone and Sand and Gravel in the Fourth Quarter of 1994" Mineral Industry Survey.
2/ All percentage change are calculated using unrounded totals.
3/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by regions.
4/ State not included in quarterly survey.
5/ To avoid disclosing company proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other."
6/ Due to low number of companies, no production estimates by quarter were generated.

TABLE 7
CRUSHED STONE SOLD OR USED IN THE UNITED STATES IN 1994,
BY REGION AND SIZE OF OPERATION 1/

| Size range <br> (Metric tons) | Northeast |  |  |  | Midwest |  |  |  | South |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent of total | Quantity (thousand metric tons) | Percent of total |  | Percent of total | Quantity (thousand metric tons) | Percent of total |  | Percent of total | Quantity (thousand metric tons) | Percent of total |
| Less than 25,000 | 54 | 12.0 | 390 | -- | 226 | 19.0 | 2,060 | -- | 69 | 7.0 | 736 | -- |
| 25,000 to 49,999 | 14 | 3.0 | 466 | -- | 127 | 10.0 | 4,200 | 1.0 | 44 | 4.0 | 1,490 | -- |
| 50,000 to 99,999 | 40 | 9.0 | 2,760 | 1.0 | 155 | 13.0 | 10,500 | 2.0 | 78 | 8.0 | 5,310 | -- |
| 100,000 to 199,999 | 67 | 15.0 | 9,220 | 5.0 | 184 | 15.0 | 24,300 | 6.0 | 116 | 12.0 | 15,700 | 2.0 |
| 200,000 to 299,999 | 52 | 12.0 | 11,900 | 7.0 | 120 | 10.0 | 26,800 | 7.0 | 90 | 9.0 | 20,200 | 3.0 |
| 300,000 to 399,999 | 43 | 10.0 | 13,300 | 8.0 | 77 | 6.0 | 24,400 | 6.0 | 65 | 6.0 | 20,800 | 3.0 |
| 400,000 to 499,999 | 34 | 8.0 | 14,000 | 8.0 | 67 | 5.0 | 27,400 | 7.0 | 67 | 7.0 | 27,300 | 4.0 |
| 500,000 to 599,999 | 21 | 4.0 | 10,500 | 6.0 | 28 | 2.0 | 13,900 | 3.0 | 68 | 7.0 | 33,900 | 6.0 |
| 600,000 to 699,999 | 15 | 3.0 | 8,780 | 5.0 | 24 | 2.0 | 14,100 | 3.0 | 54 | 5.0 | 32,000 | 5.0 |
| 700,000 to 799,999 | 15 | 3.0 | 10,300 | 6.0 | 27 | 2.0 | 18,300 | 4.0 | 45 | 4.0 | 30,500 | 5.0 |
| 800,000 to 899,999 | 18 | 4.0 | 13,800 | 8.0 | 26 | 2.0 | 20,100 | 5.0 | 35 | 3.0 | 27,300 | 4.0 |
| 900,000 to 999,999 | 11 | 2.0 | 9,460 | 5.0 | 23 | 1.0 | 19,900 | 5.0 | 30 | 3.0 | 26,000 | 4.0 |
| 1,000,000 to 1,499,999 | 29 | 6.0 | 30,500 | 18.0 | 52 | 4.0 | 57,300 | 15.0 | 107 | 11.0 | 119,000 | 21.0 |
| 1,500,000 to 1,999,999 | 5 | 1.0 | 7,710 | 4.0 | 21 | 1.0 | 32,600 | 8.0 | 42 | 4.0 | 67,400 | 12.0 |
| 2,000,000 to 2,499,999 | -- | -- | -- | -- | 10 | -- | 20,500 | 5.0 | 12 | 1.0 | 24,500 | 4.0 |
| 2,500,000 to 4,999,999 | 7 | 1.0 | 18,800 | 11.0 | 11 | -- | 34,100 | 9.0 | 22 | 2.0 | 65,600 | 11.0 |
| 5,000,000 and over | -- | -- | -- | -- | 5 | -- | 29,600 | 7.0 | 6 | -- | 45,300 | 8.0 |
| Total | 425 | 100.0 | 162,000 | 100.0 | 1,180 | 100.0 | 380,000 | 100.0 | 950 | 100.0 | 563,000 | 100.0 |
|  | West |  |  |  | U.S. total |  |  |  |  |  |  |  |
|  | $\begin{gathered} \hline \text { Number } \\ \text { of } \\ \text { operations } \end{gathered}$ | Percent of total | Quantity (thousand metric tons) | Percent of total | $\begin{gathered} \hline \text { Number } \\ \text { of } \\ \text { operations } \end{gathered}$ | Percent of total | Quantity (thousand metric tions) | Percent of total |  |  |  |  |
| Less than 25,000 | 232 | 34.0 | 1,730 | 1.0 | 581 | 17.0 | 4,910 | -- |  |  |  |  |
| 25,000 to 49,999 | 97 | 14.0 | 3,270 | 2.0 | 282 | 8.0 | 9,430 | -- |  |  |  |  |
| 50,000 to 99,999 | 109 | 16.0 | 7,060 | 5.0 | 382 | 11.0 | 25,700 | 2.0 |  |  |  |  |
| 100,000 to 199,999 | 88 | 12.0 | 11,500 | 9.0 | 455 | 14.0 | 60,700 | 4.0 |  |  |  |  |
| 200,000 to 299,999 | 43 | 6.0 | 9,560 | 7.0 | 305 | 9.0 | 68,500 | 5.0 |  |  |  |  |
| 300,000 to 399,999 | 26 | 3.0 | 8,080 | 6.0 | 211 | 6.0 | 66,600 | 5.0 |  |  |  |  |
| 400,000 to 499,999 | 18 | 2.0 | 7,170 | 6.0 | 186 | 5.0 | 76,000 | 6.0 |  |  |  |  |
| 500,000 to 599,999 | 8 | 1.0 | 3,870 | 3.0 | 125 | 3.0 | 62,100 | 5.0 |  |  |  |  |
| 600,000 to 699,999 | 10 | 1.0 | 5,910 | 4.0 | 103 | 3.0 | 60,800 | 5.0 |  |  |  |  |
| 700,000 to 799,999 | 11 | 1.0 | 7,560 | 6.0 | 98 | 3.0 | 66,600 | 5.0 |  |  |  |  |
| 800,000 to 899,999 | 7 | 1.0 | 5,410 | 4.0 | 86 | 2.0 | 66,600 | 5.0 |  |  |  |  |
| 900,000 to 999,999 | 6 | -- | 5,160 | 4.0 | 70 | 2.0 | 60,500 | 4.0 |  |  |  |  |
| 1,000,000 to 1,499,999 | 8 | 1.0 | 8,570 | 6.0 | 196 | 6.0 | 215,000 | 17.0 |  |  |  |  |
| 1,500,000 to 1,999,999 | 7 | 1.0 | 10,700 | 8.0 | 75 | 2.0 | 118,000 | 9.0 |  |  |  |  |
| 2,000,000 to 2,499,999 | 7 | 1.0 | 13,800 | 11.0 | 29 | -- | 58,900 | 4.0 |  |  |  |  |
| 2,500,000 to 4,999,999 | 5 | -- | 13,900 | 11.0 | 45 | 1.0 | 132,000 | 10.0 |  |  |  |  |
| 5,000,000 and over | -- | -- | -- | -- | 11 | 0.9- | 74,900 | 6.0 |  |  |  |  |
| Total | 682 | 100.0 | 123,000 | 100.0 | 3,240 | 100.0 | 1,230,000 | 100.0 |  |  |  |  |

1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

TABLE 8
CRUSHED LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY STATE 1/
(Thousand metric tons and thousand dollars)

| State | Limestone |  | Dolomite |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Alabama | 28,300 2/ | 117,000 2/ | W | W |
| Arizona | 2,710 | 10,500 | -- | -- |
| Arkansas | 6,870 | 33,500 | W | W |
| California | 23,300 | 149,000 | 208 | 1,550 |
| Colorado | 2,550 | 13,900 | -- | -- |
| Connecticut | W | W | 408 | W |
| Florida | 64,200 2/ | 330,000 2/ | W | W |
| Georgia | 5,090 2/ | 31,000 2/ | -- | -- |
| Hawaii | W | 10,500 | -- | -- |
| Idaho | W | 1,400 | -- | -- |
| Illinois | 47,600 2/ | 276,000 2/ | W | W |
| Indiana | 40,000 2/ | 183,000 2/ | 5,840 | 28,000 |
| Iowa | 36,600 2/ | 211,000 2/ | 33 |  |
| Kansas | 20,600 2/ | 98,500 2/ | -- | -- |
| Kentucky | 56,100 2/ | 257,000 2/ | -- | -- |
| Maine | 1,530 | 9,450 | -- | -- |
| Maryland | 16,900 | 114,000 | -- | -- |
| Massachusetts | 1,710 2/ | 19,000 2/ | W | W |
| Michigan | 27,900 2/ | 90,000 2/ | 6,810 | 22,200 |
| Minnesota | 7,670 | 32,700 | W | W |
| Mississippi | W | W | -- | -- |
| Missouri | 64,400 2/ | 303,000 2/ | 2,960 | 13,600 |
| Montana | 1,410 | 6,010 | -- | -- |
| Nebraska | 6,890 | 41,600 | -- | -- |
| Nevada | W | 13,000 | W | W |
| New Hampshire | W | W | -- | -- |
| New Jersey | W | W | -- | -- |
| New Mexico | 1,880 | 8,660 | -- | -- |
| New York | 27,400 2/ | 142,000 2/ | 7,540 | 55,800 |
| North Carolina | W | W | 245 | 1,680 |
| Ohio | 41,700 2/ | 190,000 | 14,500 | 59,900 |
| Oklahoma | 22,600 | 91,200 | 1,820 | 7,550 |
| Oregon | W | W | -- | -- |
| Pennsylvania | 44,000 2/ | 256,000 | 14,700 | 90,000 |
| Rhode Island | W | W | -- | -- |
| South Carolina | W | W | -- | -- |
| South Dakota | 2,850 | 9,520 | -- | -- |
| Tennessee | 43,500 2/ | 237,000 | W | W |
| Texas | 72,000 | 285,000 | W | W |
| Utah | 1,980 2/ | 12,300 | W | W |
| Vermont | 1,800 | 11,200 | 234 | 1,220 |
| Virginia | 16,300 | 89,800 | 3,650 | 27,800 |
| Washington | 2,140 2/ | 23,600 2/ | W | W |
| West Virginia | 10,200 | 66,000 | W | 19,200 |
| Wisconsin | 21,900 2/ | 89,200 2/ | W | W |
| Wyoming | 1,520 2/ | 6,120 2/ | -- | -- |
| Other | 14,000 2/ | 73,300 2/ | 33,800 | 151,000 |
| Total | 788,000 | 3,940,000 | 92,700 | 479,000 |

W Withheld to avoid disclosing company proprietary data; included with "Other."
1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
2/ Includes "limestone/dolomite," reported with no distinction between the two.

TABLE 9
CRUSHED CALCAREOUS MARL AND MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY STATE 1/
(Thousand metric tons and thousand dollars)

| State | Calcareous Marl |  | Marble |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Alabama | -- | -- | W | W |
| Arizona | -- | -- | 593 | 3,730 |
| Florida | W | W | -- | -- |
| Georgia | W | W | W | W |
| Maine | W | W | -- | -- |
| Michigan | W | W | -- | -- |
| Mississippi | 26 | 203 | -- | -- |
| New York | -- | -- | 87 | 1,610 |
| North Carolina | 111 | 738 | -- | -- |
| Pennsylvania | -- | -- | 476 | 3,210 |
| South Carolina | 3,220 | 21,500 | W | W |
| Texas | W | W | W | W |
| Vermont | -- | -- | 839 | 4,730 |
| Washington | -- | -- | W | W |
| Wyoming | -- | -- | 93 | 3,250 |
| Other | 2,840 | 9,750 | 4,010 | 48,600 |
| Total | 6,190 | 32,200 | 6,090 | 65,100 |

W Withheld to avoid disclosing company proprietary data; included with "Other."
1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

TABLE 10
CRUSHED GRANITE, TRAPROCK, AND SANDSTONE AND QUARTZITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY STATE 1/
(Thousand metric tons and thousand dollars)

| State | Granite |  | Traprock |  | Sandstone and quartzite |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Quantity | Value |
| Alabama | W | W | -- | -- | -- | -- |
| Alaska 2/ | W | W | 1,280 | 5,520 | W | W |
| Arizona | 1,330 | 7,870 | W | W | W | W |
| Arkansas | 7,090 | 52,600 | W | W | 5,290 | 25,300 |
| California | 4,880 | 23,400 | 6,090 | 43,500 | 1,120 | 6,310 |
| Colorado | 3,180 | 16,500 | -- | -- | W | W |
| Connecticut | 119 | 1,350 | 3,750 | 30,100 | -- | -- |
| Georgia | 47,200 | 287,000 | -- | -- | W | W |
| Hawaii | -- | -- | 6,150 | 61,100 | -- | -- |
| Idaho | 281 | 1,110 | 2,230 | 9,440 | 556 | 4,800 |
| Illinois | -- | -- | -- | -- | W | W |
| Kansas | -- | -- | -- | -- | W | W |
| Kentucky | -- | -- | -- | -- | W | W |
| Louisiana | -- | -- | -- | -- | 707 | 7,710 |
| Maine | W | W | W | W | -- | -- |
| Maryland | 4,940 | 31,600 | W | W | 242 | 2,000 |
| Massachusetts | 2,850 | W | 5,860 | 48,700 | -- | -- |
| Michigan | -- | -- | 19 | 43 | W | W |
| Minnesota | W | W | W | W | W | W |
| Missouri | W | W | -- | -- | W | W |
| Montana | W | W | W | W | W | W |
| Nevada | W | W | W | W | -- | -- |
| New Hampshire | 1,060 | 5,070 | W | W | -- | -- |
| New Jersey | 7,460 | 58,200 | 10,600 | 78,600 | W | W |
| New Mexico | 1,250 | 8,620 | W | W | W | W |
| New York | 2,430 | 20,400 | W | W | 798 | 5,420 |
| North Carolina | 41,300 | 265,000 | 3,930 | 25,800 | W | W |
| Ohio | -- | -- | -- | -- | 232 | 832 |
| Oklahoma | W | W | W | W | W | W |
| Oregon | 54 | 235 | 15,200 | 71,500 | W | W |
| Pennsylvania | 2,570 | 15,800 | 2,650 | 21,700 | 7,030 | 45,500 |
| Rhode Island | W | W | W | W | -- | -- |
| South Carolina | 15,200 | 97,600 | -- | -- | -- | -- |
| South Dakota | -- | -- | -- | -- | 2,620 | 15,000 |
| Tennessee | W | W | -- | -- | W | W |
| Texas | 4 | W | W | W | 524 | 3,840 |
| Utah | -- | -- | -- | -- | 189 | 1,190 |
| Vermont | W | W | -- | -- | W | W |
| Virginia | 22,200 | 127,000 | 12,700 | 71,800 | 1,330 | 7,460 |
| Washington | 234 | 1,030 | 10,700 | 47,900 | W | W |
| West Virginia | -- | -- | -- | -- | 2,070 | 14,100 |
| Wisconsin | 1,200 | 2,340 | W | W | W | W |
| Wyoming | 3,410 | W | -- | -- | W | W |
| Other | 7,990 | 97,800 | 9,780 | 59,900 | 11,600 | 72,400 |
| Total | 178,000 | 1,120,000 | 91,000 | 576,000 | 34,300 | 212,000 |

W Withheld to avoid disclosing company proprietary data; included with "Other."
1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
2/ Data derived in part from the Alaska Geological Survey.

TABLE 11
CRUSHED VOLCANIC CINDER AND SCORIA AND CRUSHED
MISCELLANEOUS STONE 1/ SOLD OR USED BY PRODUCERS
IN THE UNITED STATES IN 1994, BY STATE $2 /$
(Thousand metric tons and thousand dollars)

| State | Volcanic cinder and scoria |  | Miscellaneous stone |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Alabama | -- | -- | W | W |
| Alaska 3/ | -- | -- | 2,480 | 18,000 |
| Arizona | 45 | 94 | W | W |
| Arkansas | -- | -- | 1,580 | 10,200 |
| California | 487 | 2,100 | 4,960 | 32,800 |
| Colorado | W | W | W | W |
| Florida | -- | -- | 1,820 | 7,930 |
| Georgia | -- | -- | W | W |
| Hawaii | 143 | 1,080 | 876 | 9,650 |
| Idaho | W | W | 679 | 3,520 |
| Illinois | -- | -- | W | W |
| Iowa | -- | -- | W | W |
| Louisiana | -- | -- | W | W |
| Maine | -- | -- | W | W |
| Maryland | -- | -- | W | W |
| Massachusetts | -- | -- | W | W |
| Michigan | -- | -- | W | W |
| Mississippi | -- | -- | 26 | 203 |
| Montana | 5 | 12 | W | W |
| Nevada | 54 | W | W | W |
| New Mexico | 285 | 2,000 | W | W |
| New York | -- | -- | W | W |
| North Carolina | W | W | 3,590 | 24,700 |
| Oklahoma | -- | -- | W | W |
| Oregon | W | W | 2,650 | 13,700 |
| Pennsylvania | -- | -- | 5,310 | 29,300 |
| South Carolina | -- | -- | 3,220 | W |
| South Dakota | -- | -- | W | W |
| Tennessee | -- | -- | W | W |
| Texas | W | W | 2,630 | 6,530 |
| Utah | 4 | 4 | -- | -- |
| Vermont | -- | -- | W | W |
| Virginia | -- | -- | 563 | W |
| Washington | W | W | 475 | 2,560 |
| Wyoming | W | W | W | W |
| Other | 1,030 | 7,320 | 5,430 | 52,000 |
| Total | 2,060 | 12,600 | 36,300 | 211,000 |
| W Withheld to avoid disclosing company proprietary data; included with "Other." <br> 1/ Includes marl, shell, slate, and other stone. <br> 2/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown. <br> 3/ Data derived in part from the Alaska Geological Survey. |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

TABLE 12
KIND OF CRUSHED STONE PRODUCED IN THE UNITED STATES IN 1994, BY STATE

| State | Limestone | Dolomite | Marble | Marl | Shell | Granite | Traprock | Sand- <br> stone | Quartzite | Slate | Volcanic cinder and scoria | Miscella neous |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | X | X | X |  |  | X |  |  |  | X |  |  |
| Alaska 1/ |  |  |  |  |  | X | X | X |  | X |  | X |
| Arizona | X |  | X |  |  | X | X | X | X |  | X | X |
| Arkansas | X | X |  |  |  | X | X | X |  |  |  | X |
| California | X | X |  |  | X | X | X | X | X | X | X | X |
| Colorado | X |  |  |  |  | X |  | X |  |  | X | X |
| Connecticut | X | X |  |  |  | X | X |  |  |  |  |  |
| Florida | X | X |  | X | X |  |  |  |  |  |  |  |
| Georgia | X |  | X | X |  | X |  |  | X |  |  |  |
| Hawaii | X |  |  |  |  |  | X |  |  |  | X | X |
| Idaho | X |  |  |  | X | X | X |  | X |  | X | X |
| Illinois | X | X |  |  |  |  |  |  |  |  |  | X |
| Indiana | X | X |  |  |  |  |  |  |  |  |  |  |
| Iowa | X | X |  |  |  |  |  |  |  |  |  | X |
| Kansas | X |  |  |  |  |  |  | X | X |  |  |  |
| Kentucky | X |  |  |  |  |  |  | X |  |  |  |  |
| Louisiana |  |  |  |  | X |  |  | X |  |  |  | X |
| Maine | X |  |  | X |  | X | X |  |  | X |  | X |
| Maryland | X |  |  |  |  | X | X | X |  |  |  | X |
| Massachusetts | X | X |  |  |  | X | X |  |  |  |  | X |
| Michigan | X | X |  | X |  |  | X | X |  |  |  | X |
| Minnesota | X | X |  |  |  | X | X | X | X |  |  |  |
| Mississippi | X |  |  | X |  |  |  |  |  |  |  |  |
| Missouri | X | X |  |  |  | X |  | X |  |  |  |  |
| Montana | X |  |  |  |  | X | X | X | X |  | X | X |
| Nebraska | X |  |  |  |  |  |  |  |  |  |  |  |
| Nevada | X | X |  |  |  | X | X |  |  |  | X | X |
| New Hampshire | X |  |  |  |  | X | X |  |  |  |  |  |
| New Jersey | X |  |  |  |  | X | X | X |  |  |  | X |
| New Mexico | X |  |  |  |  | X | X | X | X |  | X | X |
| New York | X | X | X |  |  | X | X | X |  | X |  |  |
| North Carolina | X | X |  | X |  | X | X |  | X | X | X | X |
| Ohio | X | X |  |  |  |  |  | X |  |  |  |  |
| Oklahoma | X | X |  |  |  | X | X | X |  | X |  | X |
| Oregon | X |  |  |  | X | X | X | X | X | X | X | X |
| Pennsylvania | X | X | X |  |  | X | X | X | X |  |  | X |
| Rhode Island | X |  |  |  |  | X | X |  |  |  |  |  |
| South Carolina | X |  | X | X |  | X |  |  |  |  |  |  |
| South Dakota | X |  |  |  |  |  |  |  | X |  |  | X |
| Tennessee | X | X |  |  |  | X |  | X |  |  |  | X |
| Texas | X | X | X | X |  | X | X | X |  |  | X | X |
| Utah | X | X |  |  |  |  |  | X | X |  | X |  |
| Vermont | X | X | X |  |  | X |  |  | X | X |  |  |
| Virginia | X | X |  |  |  | X | X | X | X | X |  | X |
| Washington | X | X | X |  |  | X | X | X |  |  | X | X |
| West Virginia | X | X |  |  |  |  |  | X |  |  |  |  |
| Wisconsin | X | X |  |  |  | X | X | X | X |  |  |  |
| Wyoming | X |  | X |  |  | X |  |  | X |  | X | X |

1/ Data derived in part from the Alaska Geological Survey.

TABLE 13

## CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY USE 1/

| Use |  | $\begin{array}{c}\text { Quantity } \\ \text { (thousand }\end{array}$ | $\begin{array}{c}\text { Value } \\ \text { (thousands) }\end{array}$ | $\begin{array}{r}\text { Unit } \\ \text { value }\end{array}$ |
| :--- | ---: | ---: | ---: | ---: |
|  | metric tons) |  |  |  |$)$

W Withheld to avoid disclosing company proprietary data; included with "Other specified uses not listed."
1/ Data rounded by the U.S. Bureau of Mines to three significant digits, except prices; may not add to totals shown.
2 / Includes building products, drain fields, pipe bedding and waste material.
3/ Includes disinfectant and animal sanitation, flour (slate), and sugar refining.
4/ Includes production reported without a breakdown by end use and estimates for nonrespondents.

TABLE 14
CRUSHED LIMESTONE 1/ AND DOLOMITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY USE $2 /$
(Thousand metric tons and thousand dollars)

| Use | Limestone |  | Dolomite |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Coarse aggregate (+1 1/2 inch): |  |  |  |  |
| Macadam | 2,100 | 9,820 | 1,420 | 6,860 |
| Riprap and jetty stone | 16,400 | 78,500 | 1,230 | 6,960 |
| Filter stone | 5,420 | 27,400 | 193 | 1,240 |
| Other coarse aggregate | 3,910 | 19,200 | 319 | 1,510 |
| Coarse aggregate, graded: |  |  |  |  |
| Concrete aggregate, coarse | 73,700 | 384,000 | 13,100 | 69,500 |
| Bituminous aggregate, coarse | 54,400 | 282,000 | 11,300 | 64,200 |
| Bituminous surface-treatment aggregate | 13,600 | 73,100 | 2,350 | 14,400 |
| Railroad ballast | 4,510 | 19,300 | 1,740 | 8,010 |
| Other graded coarse aggregate | 11,200 | 59,900 | 5,870 | 29,100 |
| Fine aggregate ( $-3 / 8$ inch): |  |  |  |  |
| Stone sand, concrete | 13,900 | 72,500 | 3,920 | 16,900 |
| Stone sand, bituminous mix or seal | 14,800 | 71,200 | 3,000 | 17,900 |
| Screening, undesignated | 18,600 | 84,000 | 2,230 | 11,300 |
| Other fine aggregate | 2,270 | 11,600 | 680 | 4,420 |
| Coarse and fine aggregates: |  |  |  |  |
| Graded road base or subbase | 118,000 | 485,000 | 16,000 | 73,200 |
| Unpaved road surfacing | 16,500 | 84,800 | 6,300 | 26,400 |
| Terrazzo and exposed aggregate | 1,460 | 9,880 | 73 | 289 |
| Crusher run or fill or waste | 29,500 | 121,000 | 3,360 | 11,400 |
| Other coarse and fine aggregates | 14,000 | 67,200 | 5,000 | 29,000 |
| Roofing granules | 397 | 3,600 | -- | -- |
| Other construction materials 3/ | 3,890 | 21,900 | 315 | 1,540 |
| Agricultural: |  |  |  |  |
| Agricultural limestone | 11,500 | 73,400 | 2,120 | 18,100 |
| Poultry grit and mineral food | 1,910 | 25,800 | 9 | 137 |
| Other agricultural uses | 620 | 3,040 | 165 | 1,270 |
| Chemical and metallurgical: |  |  |  |  |
| Cement manufacture | 81,400 | 278,000 | W | W |
| Lime manufacture | 15,500 | 82,000 | 2,320 | 9,680 |
| Dead-burned dolomite manufacture | 151 | 374 | 376 | 1,310 |
| Flux stone | 2,170 | 9,770 | 2,190 | 10,900 |
| Chemical stone | 777 | 3,790 | W | W |
| Glass manufacture | 654 | 6,720 | W | W |
| Sulfur oxide removal | 2,630 | 13,100 | W | W |
| Special: |  |  |  |  |
| Mine dusting or acid water treatment | 347 | 5,560 | W | W |
| Asphalt fillers or extenders | 1,040 | 11,500 | 686 | 4,950 |
| Whiting or whiting substitute | 1,650 | 68,100 | W | W |
| Other fillers or extenders | 3,080 | 72,400 | 379 | 5,400 |
| Other miscellaneous uses: |  |  |  |  |
| Abrasives | W | W | -- | -- |
| Sugar refining | W | W | -- | -- |
| Other uses not listed 4/ | 1,300 | 6,790 | 127 | 2,120 |
| Unspecified: 5/ |  |  |  |  |
| Actual | 158,000 | 822,000 | 3,350 | 19,700 |
| Estimated | 86,900 | 474,000 | 2,540 | 11,800 |
| Total | 788,000 | 3,940,000 | 92,700 | 479,000 |

W Withheld to avoid disclosing company proprietary data; included with "Other uses not listed."
1/ Includes a minor amount of limestone-dolomite reported without a distinction between the two.
2/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
3/ Includes building products, drain fields, pipe bedding, and waste material.
4/ Includes disinfectant and animal sanitation.
5/ Includes production reported without a breakdown by end use and estimates for nonrespondents.

## CRUSHED LIMESTONE 1/ AND DOLOMITE SOLD OR USED BY PRODUCERS

 IN 1994, BY STATE AND USE $2 /$(Thousand metric tons and thousand dollars)

| State | Concrete aggregate |  | Bituminous aggregate |  | Roadstone and coverings |  | Riprap and railroad ballast |  | Other construction uses |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| Alabama | 4,320 | 16,900 | 6,050 | 24,400 | 3,590 | 14,600 | 901 | 4,560 | 4,530 | 19,200 |
| Arizona | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Arkansas | 286 | 1,270 | 599 | 3,810 | 1,250 | 4,990 | 221 | 853 | 667 | 2,990 |
| California | 961 | 5,970 | 1,640 | 9,270 | 1,330 | 5,240 | 164 | 634 | 537 | 2,810 |
| Colorado | -- | -- | -- | -- | -- | -- | -- | -- | W | W |
| Connecticut | 27 | W | 73 | W | -- | -- | -- | -- | 136 | W |
| Florida | 17,000 | 113,000 | 7,740 | 45,200 | 14,700 | 56,300 | W | W | 9,940 | 43,700 |
| Georgia | 1,050 | 6,720 | 771 | 4,790 | 666 | 3,540 | 49 | 383 | 1,400 | 8,310 |
| Hawaii | 205 | 2,520 | -- | -- | 107 | 1,260 | W | W | 337 | 3,630 |
| Idaho | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Illinois | 6,660 | 34,000 | 6,930 | 41,400 | 12,800 | 57,000 | 1,020 | 5,640 | 1,490 | 6,360 |
| Indiana | 5,290 | 20,600 | 5,100 | 21,000 | 7,370 | 34,200 | 1,440 | 6,280 | 2,720 | 12,400 |
| Iowa | 1,200 | 8,510 | 1,790 | 9,540 | 5,650 | 31,000 | 342 | 2,130 | 768 | 3,790 |
| Kansas | 844 | 4,960 | 1,180 | 7,320 | 2,940 | 13,400 | W | W | 2,000 | 10,400 |
| Kentucky | 4,010 | 19,500 | 9,310 | 44,700 | 11,500 | 51,600 | 4,710 | 19,900 | 7,000 | 27,200 |
| Maine | W | 825 | -- | -- | -- | -- | -- | -- | -- | -- |
| Maryland | 2,330 | 12,700 | 3,650 | 24,300 | 1,850 | 12,100 | W | W | 3,130 | 20,900 |
| Massachusetts | -- | -- | W | W | W | W | -- | W | W | W |
| Michigan | 5,810 | 18,400 | 4,250 | 13,000 | 4,110 | 15,000 | 276 | 1,730 | 580 | 1,920 |
| Minnesota | 333 | 1,480 | 366 | 1,470 | 2,370 | 8,910 | 115 | 558 | 442 | 2,260 |
| Mississippi | W | W | W | W | W | W | W | W | W | W |
| Missouri | 3,730 | 25,800 | 4,220 | 22,700 | 13,800 | 57,900 | 4,350 | 15,000 | 4,340 | 20,400 |
| Montana | -- | -- | -- | -- | -- | -- | W | W | -- | 9 |
| Nebraska | 763 | 5,400 | W | W | 526 | 3,770 | 271 | 2,240 | 705 | 4,250 |
| Nevada | -- | -- | -- | -- | W | W | -- | -- | -- | -- |
| New Hampshire | W | W | -- | -- | -- | -- | W | W | -- | -- |
| New Jersey | W | W | W | W | W | W | -- | -- | W | W |
| New Mexico | 261 | 1,290 | 97 | 129 | 229 | 380 | W | W | 58 | 160 |
| New York | 2,990 | 22,200 | 11,000 | 71,700 | 6,290 | 34,200 | 524 | 3,280 | 6,370 | 28,100 |
| North Carolina | 141 | 1,090 | W | W | 175 | 1,010 | 48 | 336 | 460 | 2,980 |
| Ohio | 9,540 | 37,500 | 4,080 | 18,000 | 14,200 | 58,900 | 2,610 | 10,200 | 1,800 | 7,330 |
| Oklahoma | 7,610 | 35,100 | 1,410 | 7,120 | 1,700 | 6,250 | 911 | 5,390 | 6,520 | 21,700 |
| Oregon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pennsylvania | 6,610 | 38,300 | 14,000 | 86,500 | 11,900 | 61,900 | 811 | 5,090 | 6,560 | 38,200 |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- | -- | 3 | W |
| South Carolina | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| South Dakota | W | W | W | W | W | W | W | W | W | W |
| Tennessee | 4,870 | 25,200 | 14,700 | 78,200 | 12,000 | 59,700 | 1,690 | 8,390 | 7,310 | 36,600 |
| Texas | 15,700 | 73,200 | 10,800 | 47,100 | 20,700 | 61,300 | 835 | 4,670 | 4,350 | 12,200 |
| Utah | -- | -- | W | W | W | W | W | W | W | W |
| Vermont | 76 | 418 | W | W | 153 | 769 | -- | -- | W | W |
| Virginia | 2,020 | 12,000 | 2,540 | 15,600 | 2,690 | 13,400 | 535 | 3,270 | 3,680 | 18,500 |
| Washington | -- | W | 9 | W | -- | W | W | W | W | W |
| West Virginia | 1,030 | 5,860 | 2,680 | 14,500 | 787 | 4,530 | 437 | 2,450 | 3,300 | 17,900 |
| Wisconsin | 1,400 | 6,180 | 1,310 | 5,920 | 7,560 | 27,900 | W | W | 1,300 | 5,560 |
| Wyoming | W | W | W | W | W | W | W | W | W | W |
| Total | 107,000 | 557,000 | 116,000 | 618,000 | 163,000 | 701,000 | 22,300 | 103,000 | 82,400 | 380,000 |
| Total withheld | 376 | 1,760 | 1,760 | 9,960 | 1,600 | 5,540 | 1,630 | 9,840 | 1,980 | 10,500 |
| Grand total | 107,000 | 559,000 | 118,000 | 628,000 | 165,000 | 706,000 | 23,900 | 113,000 | 84,400 | 390,000 |

See footnotes at end of table
(Thousand metric tons and thousand dollars)

| State | Cement manufacture |  | Agricultural uses |  | Lime manufacture |  | Other uses |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| Alabama | W | W | W | W | 1,400 | 7,270 | 9,790 | 42,900 | 30,600 | 130,000 |
| Arizona | W | W | W | W | -- | -- | 2,710 | 10,500 | 2,710 | 10,500 |
| Arkansas | W | W | 255 | 2,410 | W | W | 4,840 | 22,100 | 8,120 | 38,400 |
| California | 12,600 | 43,900 | W | W | W | W | 6,250 | 82,300 | 23,500 | 150,000 |
| Colorado | 1,280 | 6,550 | -- | -- | -- | -- | W | W | 2,550 | 13,900 |
| Connecticut | -- | -- | 29 | W | -- | -- | 1,580 | 19,600 | 1,850 | 19,600 |
| Florida | W | W | 951 | 8,500 | -- | -- | 14,800 | 68,900 | 65,100 | 335,000 |
| Georgia | W | W | W | W | -- | -- | W | W | 5,090 | 31,000 |
| Hawaii | 278 | 2,170 | W | W | -- | -- | 73 | 884 | 1,000 | 10,500 |
| Idaho | W | W | W | W | -- | -- | 407 | 1,400 | 407 | 1,400 |
| Illinois | 2,130 | 7,540 | 2,300 | 10,900 | -- | -- | 29,200 | 190,000 | 62,600 | 353,000 |
| Indiana | 3,510 | 6,110 | 1,410 | 6,010 | -- | -- | 19,000 | 105,000 | 45,900 | 211,000 |
| Iowa | 2,810 | 20,100 | 1,190 | 10,600 | W | W | 22,900 | 125,000 | 36,600 | 211,000 |
| Kansas | W | W | 209 | 931 | -- | -- | 13,400 | 61,500 | 20,600 | 98,500 |
| Kentucky | W | W | 1,540 | 7,310 | W | W | 18,000 | 87,100 | 56,100 | 257,000 |
| Maine | W | W | -- | -- | W | W | 1,530 | 8,630 | 1,530 | 9,450 |
| Maryland | 2,030 | 4,670 | W | W | -- | -- | 3,880 | 39,600 | 16,900 | 114,000 |
| Massachusetts | W | W | W | W | W | W | 1,720 | 19,000 | 1,720 | 19,000 |
| Michigan | 5,980 | 11,400 | W | W | W | W | 13,700 | 50,800 | 34,700 | 112,000 |
| Minnesota | -- | -- | 167 | 607 | -- | -- | 4,610 | 19,600 | 8,400 | 34,900 |
| Mississippi | 747 | W | 29 | 215 | -- | -- | W | W | 1,870 | 7,290 |
| Missouri | 6,880 | 21,000 | 2,130 | 19,700 | 363 | 1,820 | 27,500 | 132,000 | 67,300 | 317,000 |
| Montana | 869 | 3,250 | W | W | W | W | 541 | 2,740 | 1,410 | 6,010 |
| Nebraska | W | W | 286 | 2,400 | -- | -- | 4,340 | 23,600 | 6,890 | 41,600 |
| Nevada | -- | -- | 81 | 1,420 | W | W | 1,560 | 13,100 | 1,640 | 14,600 |
| New Hampshire | -- | -- | -- | -- | -- | -- | W | W | W | W |
| New Jersey | -- | -- | W | W | -- | -- | W | W | W | W |
| New Mexico | W | W | -- | -- | -- | -- | 1,240 | 6,700 | 1,880 | 8,660 |
| New York | 4,150 | 16,200 | 99 | 912 | -- | -- | 3,500 | 21,600 | 35,000 | 198,000 |
| North Carolina | -- | -- | 10 | 53 | -- | -- | W | W | 4,540 | 31,600 |
| Ohio | 1,700 | 7,020 | W | W | W | W | 22,200 | 111,000 | 56,100 | 250,000 |
| Oklahoma | W | W | W | W | -- | -- | 6,240 | 23,200 | 24,400 | 98,800 |
| Oregon | W | W | -- | -- | -- | -- | W | W | W | W |
| Pennsylvania | 4,920 | 26,800 | 819 | 9,350 | 583 | 4,140 | 12,400 | 75,900 | 58,600 | 346,000 |
| Rhode Island | -- | -- | 9 | W | -- | -- | W | W | W | W |
| South Carolina | -- | -- | -- | -- | -- | -- | 1,610 | 8,710 | 1,610 | 8,710 |
| South Dakota | W | W | -- | -- | W | W | W | W | 2,850 | 9,520 |
| Tennessee | W | W | 708 | 5,690 | W | W | 7,060 | 47,400 | 48,400 | 261,000 |
| Texas | 9,610 | 23,900 | 483 | 3,050 | 2,780 | 11,600 | 7,080 | 48,600 | 72,300 | 286,000 |
| Utah | W | W | W | W | W | W | 4,350 | 18,600 | 4,350 | 18,600 |
| Vermont | -- | -- | -- | -- | -- | -- | 1,800 | 11,200 | 2,030 | 12,400 |
| Virginia | 1,480 | 4,920 | 978 | 12,600 | 1,550 | 6,350 | 4,470 | 30,700 | 19,900 | 118,000 |
| Washington | -- | -- | W | W | W | W | 2,420 | 24,700 | 2,430 | 24,700 |
| West Virginia | W | W | W | W | W | W | 5,620 | 39,900 | 13,800 | 85,200 |
| Wisconsin | -- | -- | 414 | 3,180 | W | W | 11,700 | 47,700 | 23,700 | 96,400 |
| Wyoming | -- | -- | 39 | 275 | -- | -- | 1,480 | 5,840 | 1,520 | 6,120 |
| Total | 61,000 | 205,000 | 14,100 | 106,000 | 6,680 | 31,200 | 295,000 | 1,650,000 | 878,000 | 4,410,000 |
| Total withheld | 20,400 | 72,800 | 2,170 | 15,700 | 11,600 | 62,200 | 9,990 | 66,300 | 2,030 | 14,900 |
| Grand total | 81,400 | 278,000 | 16,300 | 122,000 | 18,300 | 93,400 | XX | XX | 881,000 | 4,420,000 |

W Withheld to avoid disclosing company proprietary data; included with "Total withheld" and "Other uses." XX Not applicable.
1/ Includes a minor amount of limestone-dolomite reported without a distinction between the two.
2/ Data rounded by the U. S. Bureau of Mines to three significant digits; may not add to totals shown.

TABLE 16
CRUSHED MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY USE 1/
(Thousand metric tons and thousand dollars)

| Use | Quantity | Value |
| :---: | :---: | :---: |
| Coarse aggregate (+1 1/2 inch): |  |  |
| Riprap and jetty stone | 23 | 250 |
| Filter stone | (2/) | 3 |
| Coarse aggregate, graded: |  |  |
| Bituminous aggregate, coarse | 136 | 938 |
| Other graded coarse aggregate | 9 | 155 |
| Coarse and fine aggregates: |  |  |
| Unpaved road surfacing | 2 | 13 |
| Terrazzo and exposed aggregate | 88 | 2,690 |
| Roofing granules | 1 | 25 |
| Other construction materials 3/ | 888 | 6,060 |
| Chemical and metallurgical: |  |  |
| Lime manufacture | 50 | 1,100 |
| Other specified uses not listed 4/ | 1,550 | 33,300 |
| Unspecified: 5/ |  |  |
| Actual | 1,000 | 7,300 |
| Estimated | 2,340 | 13,300 |
| Total | 6,090 | 65,100 |

1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
2/ Less than $1 / 2$ unit.
3/ Includes concrete aggregate (coarse), bituminous surface treatment aggregate, screeningundesignated, graded roadbase or subbase, and crusher run (select material or fill).
4/ Includes mine dusting or acid water, other agricultural uses, other fillers or extenders, and whiting or whiting substitute.
5/ Includes production reported without a breakdown by end use and estimates for respondents.

TABLE 17

## CRUSHED GRANITE AND TRAPROCK SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY USE $1 /$

(Thousand metric tons and thousand dollars)

| Use | Granite |  | Traprock |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Coarse aggregate (+1 1/2 inch): |  |  |  |  |
| Macadam | 1,540 | 8,380 | 187 | 1,470 |
| Riprap and jetty stone | 3,350 | 25,700 | 1,370 | 10,300 |
| Filter stone | 1,080 | 7,220 | 649 | 3,980 |
| Other coarse aggregate | 1,350 | 7,970 | 1,480 | 9,380 |
| Coarse aggregate, graded: |  |  |  |  |
| Concrete aggregate, coarse | 15,800 | 107,000 | 7,150 | 52,200 |
| Bituminous aggregate, coarse | 16,600 | 113,000 | 4,860 | 36,300 |
| Bituminous surface-treatment aggregate | 2,150 | 19,100 | 2,210 | 14,200 |
| Railroad ballast | 7,670 | 46,600 | 1,860 | 11,100 |
| Other graded coarse aggregate | 4,190 | 29,300 | 2,210 | 18,600 |
| Fine aggregate ( $-3 / 8$ inch): |  |  |  |  |
| Stone sand, concrete | 2,880 | 19,800 | 1,520 | 15,100 |
| Stone sand, bituminous mix or seal | 3,750 | 21,700 | 1,570 | 12,800 |
| Screening, undesignated | 4,850 | 23,700 | 2,710 | 15,300 |
| Other fine aggregate | 1,100 | 7,320 | 452 | 3,210 |
| Coarse and fine aggregates: |  |  |  |  |
| Graded road base or subbase | 20,300 | 107,000 | 15,500 | 79,600 |
| Unpaved road surfacing | 1,460 | 4,890 | 3,340 | 13,800 |
| Terrazzo and exposed aggregate | 302 | 2,230 | (2/) | (2/) |
| Crusher run or fill or waste | 11,100 | 52,600 | 2,810 | 16,600 |
| Other coarse and fine aggregates | 2,670 | 20,600 | 4,880 | 37,000 |
| Roofing granules | 2,350 | 25,700 | (2/) | (2/) |
| Other construction materials | 2,280 | 16,600 | 3,030 3/ | 25,800 3/ |
| Agricultural: |  |  |  |  |
| Poultry grit and mineral food | (4/) | (4/) | -- | -- |
| Other agricultural uses | 293 | 650 | -- | -- |
| Special: |  |  |  |  |
| Asphalt fillers or extenders | (5/) | (5/) | -- | -- |
| Other fillers or extenders | -- | -- | (5/) | (5/) |
| Other uses not listed | 18 | 295 | 99 | 854 |
| Unspecified: 6/ |  |  |  |  |
| Actual | 61,600 | 394,000 | 16,300 | 94,100 |
| Estimated | 9,380 | 58,900 | 16,700 | 104,000 |
| Total | 178,000 | 1,120,000 | 91,000 | 576,000 |
| 1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown. <br> 2/ Included with "Other construction materials." <br> 3/ Includes pipe bedding. <br> 4/ Included with "Other agricultural uses." <br> 5/ Included with "Other uses not lised." <br> 6/ Includes production reported without a breakdown by end use and estimates for nonrespondents. |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

TABLE 18
CRUSHED SANDSTONE AND QUARTZITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY USE 1/
(Thousand metric tons and thousand dollars)

| Use | Sandstone |  | Quartzite |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Coarse aggregate (+1 1/2 inch): |  |  |  |  |
| Macadam | W | W | -- | -- |
| Riprap and jetty stone | 558 | 3,240 | 196 | 1,040 |
| Filter stone | 253 | 1,440 | 34 | 190 |
| Other coarse aggregate | 34 | 235 | 112 | 629 |
| Coarse aggregate, graded: |  |  |  |  |
| Concrete aggregate, coarse | 1,620 | 9,260 | 330 | 2,000 |
| Bituminous aggregate, coarse | 1,460 | 9,790 | 271 | 1,360 |
| Bituminous surface-treatment aggregate | 700 | 5,310 | 79 | 480 |
| Railroad ballast | 93 | 519 | 323 | 1,740 |
| Other graded coarse aggregate | 202 | 1,310 | 173 | 900 |
| Fine aggregate (-3/8 inch): |  |  |  |  |
| Stone sand, concrete | 755 | 5,120 | 153 | 605 |
| Stone sand, bituminous mix or seal | 513 | 2,980 | 116 | 630 |
| Screening, undesignated | 966 | 5,360 | 78 | 375 |
| Other fine aggregate | W | W | -- | -- |
| Coarse and fine aggregates: |  |  |  |  |
| Graded road base or subbase | 3,880 | 17,600 | 509 | 2,630 |
| Unpaved road surfaces | 417 | 3,220 | 205 | 905 |
| Terrazzo and exposed aggregate | 72 | 862 | 8 | 129 |
| Crusher run or fill or waste | 1,000 | 4,630 | 68 | 393 |
| Other coarse and fine aggregates | 600 | 3240 | 204 2/ | 904 |
| Other construction materials | 91 | 434 | -- | -- |
| Agricultural: |  |  |  |  |
| Other agricultural uses | -- | -- | 1 | 6 |
| Chemical and metallurgical: |  |  |  |  |
| Cement manufacture | 821 | 4,480 | 171 | 1,220 |
| Flux stone | -- | -- | 632 | 6,060 |
| Glass manufacture | -- | -- | (3/) | (3/) |
| Special: |  |  |  |  |
| Mine dusting or acid water treatment | (3/) | (3/) | -- | -- |
| Asphalt fillers or extenders | (3/) | (3/) | -- | -- |
| Other uses not listed 4/ | 124 | 822 | 54 | 696 |
| Unspecified: 5/ |  |  |  |  |
| Actual | 8,730 | 56,700 | 2,880 | 16,600 |
| Estimated | 4,550 | 34,100 | 231 | 1,570 |
| Total | 27,400 | 171,000 | 6,830 | 41,100 |

W Withheld to avoid disclosing company proprietary data; included with "Other construction materials."
1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
2/ Includes pipe bedding.
3/ Included with "Other uses not listed."
4/ Includes poultry grit and mineral food.
5/ Includes production reported without breakdown by end use and estimates for nonrespondents.

TABLE 19
CRUSHED VOLCANIC CINDER AND SCORIA AND CRUSHED MISCELLANEOUS STONE 1/ SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY USE $2 /$
(Thousand metric tons and thousand dollars)


W Withheld to avoid disclosing company proprietary data; included with "Other construction materials" and/or "Total." 1/ Includes marl, shell, slate, and other stone.
2/ Data rounded by U.S. Bureau of Mines to three significant digits; may not add to totals shown.
3/ Included with "Other specified uses not listed."
4/ Includes flour (slate).
5/ Includes production reported without a breakdown by end use and estimates for nonrespondents.

TABLE 20
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 1994, BY REGION AND METHOD OF TRANSPORTATION 1/
(Thousand metric tons)

| Region | Truck | Rail | Water | Other | Not transported | Not specified | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Northeast: |  |  |  |  |  |  |  |
| New England | 9,450 | 491 | (2/) | (2/) | 2,220 | 13,900 | 26,100 |
| Middle Atlantic | 80,300 | 1,700 | 3,810 | 719 | 15,200 | 34,200 | 136,000 |
| Midwest: |  |  |  |  |  |  |  |
| East North Central | 99,200 | 6,180 | 26,500 | 715 | 13,300 | 83,800 | 230,000 |
| West North Central | 59,500 | 2,130 | 7,490 | 7 | 11,000 | 70,200 | 150,000 |
| South: |  |  |  |  |  |  |  |
| South Atlantic | 138,000 | 14,200 | 4,240 | 153 | 21,100 | 115,000 | 293,000 |
| East South Central | 78,400 | 3,530 | 12,500 | 1,960 | 9,170 | 34,200 | 140,000 |
| West South Central | 67,400 | 21,000 | 2,400 | 4,190 | 11,300 | 24,000 | 130,000 |
| West: |  |  |  |  |  |  |  |
| Mountain | 14,400 | 4,190 | (2/) | 1,490 | 2,350 | 13,400 | 35,800 |
| Pacific | 34,900 | 1,470 | 377 | 10,500 | 5,300 | 35,100 | 87,600 |
| Total | 582,000 | 54,900 | 57,300 | 19,700 | 91,000 | 424,000 | 1,230,000 |

[^0]TABLE 21
NUMBER OF CRUSHED AND BROKEN STONE OPERATIONS AND PROCESSING PLANTS IN THE UNITED STATES IN 1994, BY STATE 1/

| State | Mining operations on land |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Stationary | Portable | Stationary and portable | No. plants <br> or unspecified | Dredging operations |  |
| Alabama | 37 | 3 | -- | 1 | -- | 41 |
| Alaska $2 /$ | 3 | 11 | 1 | 7 | -- | 21 |
| Arizona | 16 | 7 | 2 | 7 | 1 | 33 |
| Arkansas | 26 | 8 | 2 | 5 | -- | 41 |
| California | 59 | 29 | 9 | 31 | 1 | 129 |
| Colorado | 6 | 6 | 6 | 7 | -- | 25 |
| Connecticut | 15 | 2 | -- | -- | -- | 17 |
| Florida | 35 | 28 | 7 | 11 | 5 | 86 |
| Georgia | 66 | 2 | -- | 3 | -- | 71 |
| Hawaii | 19 | 8 | 3 | 6 | -- | 36 |
| Idaho | 6 | 35 | 5 | 3 | -- | 49 |
| Illinois | 86 | 53 | 10 | 5 | -- | 154 |
| Indiana | 71 | 4 | 4 | 1 | -- | 80 |
| Iowa | 23 | 198 | -- | 6 | 2 | 229 |
| Kansas | 18 | 87 | 2 | 4 | -- | 111 |
| Kentucky | 79 | 5 | 2 | 6 | -- | 92 |
| Louisiana | 1 | -- | -- | 4 | 3 | 8 |
| Maine | 6 | 6 | 1 | 2 | -- | 15 |
| Maryland | 22 | 7 | 2 | 2 | -- | 33 |
| Massachusetts | 23 | 5 | 3 | 4 | -- | 35 |
| Michigan | 18 | 12 | 1 | 4 | 2 | 37 |
| Minnesota | 10 | 33 | 1 | 12 | -- | 56 |
| Mississippi | 4 | 1 | -- | -- | -- | 5 |
| Missouri | 94 | 95 | 8 | 12 | -- | 209 |
| Montana | 11 | 4 | -- | 1 | -- | 16 |
| Nebraska | 6 | 4 | 2 | -- | -- | 12 |
| Nevada | 10 | 6 | 2 | -- | -- | 17 |
| New Hampshire | 7 | 2 | 1 | 2 | -- | 12 |
| New Jersey | 12 | 1 | 8 | -- | -- | 21 |
| New Mexico | 21 | 21 | 2 | 4 | -- | 48 |
| New York | 64 | 12 | 15 | 11 | -- | 102 |
| North Carolina | 85 | 7 | 4 | 3 | -- | 99 |
| Ohio | 82 | 17 | 6 | 2 | 1 | 108 |
| Oklahoma | 42 | 6 | 7 | 2 | -- | 57 |
| Oregon | 33 | 89 | 7 | 20 | 1 | 150 |
| Pennsylvania | 130 | 24 | 20 | 23 | -- | 197 |
| Rhode Island | 7 | -- | -- | -- | -- | 7 |
| South Carolina | 28 | 1 | 1 | 1 | -- | 31 |
| South Dakota | 10 | -- | 1 | -- | -- | 11 |
| Tennessee | 104 | 6 | 4 | 2 | -- | 116 |
| Texas | 62 | 47 | 13 | 5 | 1 | 128 |
| Utah | 9 | 11 | 1 | -- | -- | 21 |
| Vermont | 7 | 6 | 2 | 4 | -- | 19 |
| Virginia | 91 | 5 | 5 | -- | -- | 100 |
| Washington | 30 | 60 | 5 | 27 | -- | 121 |
| West Virginia | 28 | 10 | 2 | 2 | -- | 42 |
| Wisconsin | 25 | 134 | -- | 19 | -- | 176 |
| Wyoming | 8 | 6 | -- | -- | -- | 14 |
| Total | 1,660 | 1,120 | 177 | 271 | 17 | 3,240 |

1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
2/ Data derived in part from the Alaska Geological Survey.

TABLE 22
U.S. EXPORTS OF CRUSHED STONE IN 1994, BY DESTINATION 1/
(Metric tons)

| Destination | Limestone for cement manufacturing | Other | Chalk, crude | Granules, chippings | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| North America: |  |  |  |  |  |
| Aruba | -- | -- | -- | 2 | 2 |
| Bahamas, The | 198 | -- | -- | -- | 198 |
| Barbados | -- | -- | 27 | -- | 27 |
| Bermuda | 37 | -- | -- | -- | 37 |
| British Virgin Islands | 9 | -- | -- | -- | 9 |
| Canada | 4,380,000 | 277 | 1,970 | 168,000 | 4,550,000 |
| Cayman Islands | -- | -- | -- | 323 | 323 |
| Jamaica | 7,680 | -- | -- | 16 | 7,700 |
| Mexico | 2,300 | 235 | 462 | 5,340 | 8,340 |
| Netherlands Antilles | -- | -- | -- | 1 | 1 |
| Panama | -- | -- | 54 | 461 | 515 |
| Trinadad and Tobago | -- | -- | 18 | -- | 18 |
| Total | 4,390,000 | 512 | 2,530 | 174,000 | 4,570,000 |
| South America: |  |  |  |  |  |
| Argentina | 20 | -- | 1 | 61 | 82 |
| Brazil | 6,650 | 63 | -- | -- | 6,710 |
| Colombia | -- | 5 | -- | 20 | 25 |
| Ecuador | -- | -- | 92 | 2 | 94 |
| Guyana | -- | -- | 2 | -- | 2 |
| Venezuela | 920 | 18 | 37 | 36 | 1,010 |
| Total | 7,590 | 86 | 132 | 119 | 7,930 |
| Europe: |  |  |  |  |  |
| Austria | 4,700 | -- | -- | -- | 4,700 |
| Belgium | 50,700 | -- | -- | -- | 50,700 |
| Denmark | 180 | -- | -- | -- | 180 |
| Finland | -- | -- | -- | 21 | 21 |
| France | 11,700 | 71 | 12 | 61 | 11,900 |
| Germany | 161,000 | 2,230 | -- | 276 | 163,000 |
| Greece | -- | -- | -- | 32 | 32 |
| Hungary | 1,680 | -- |  | -- | 1,680 |
| Ireland | 416 | 374 | -- | -- | 790 |
| Italy | 96,700 | 47 | -- | 45 | 96,800 |
| Netherlands | 900 | 221 | 6 | 34 | 1,160 |
| Norway | -- | -- | 4 | -- | 4 |
| Poland | -- | 146 | -- | -- | 146 |
| Russia | -- | -- | -- | 22 | 22 |
| Spain | -- | 12 | -- | -- | 12 |
| Sweden | 8,100 | 1 | -- | -- | 8,100 |
| Switzerland | 2,100 | 23 | -- | 121 | 2,240 |
| United Kingdom | 75,800 | 55 | 30 | 121 | 76,000 |
| Total | 414,000 | 3,180 | 51 | 733 | 418,000 |
| Asia: |  |  |  |  |  |
| China | 35,600 | 14 | 132 | -- | 35,700 |
| Hong Kong | 132 | 40 | 1 | 19 | 192 |
| Indonesia | 20,900 | 11 | -- | -- | 20,900 |
| Japan | 79,000 | 90 | 2 | 519 | 79,600 |
| Korea, Republic of | 5,400 | 25 | -- | 757 | 6,180 |
| Malaysia | 160 | 49 | -- | 33 | 242 |
| Philippines | 73 | -- | 12 | -- | 85 |
| Singapore | -- | 28 | -- | 57 | 85 |
| Sri Lanka (Ceylon) | 18 | -- | -- | 34 | 52 |
| Taiwan | 31,800 | 19 | -- | 108 | 31,900 |
| Thailand | 820 | -- | 16 | -- | 836 |
| Total | 174,000 | 276 | 163 | 1,530 | 176,000 |

[^1]TABLE 22 - CONTINUED
U.S. EXPORTS OF CRUSHED STONE IN 1994, BY DESTINATION
(Metric tons)

| Destination | Limestone for cement manufacturing | Other | Chalk, crude | Granules, chippings | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Oceania: |  |  |  |  |  |
| Australia | 4,790 | 1 | 131 | 79 | 5,000 |
| Total | 4,790 | 1 | 131 | 79 | 5,000 |
| Middle East: |  |  |  |  |  |
| Israel | -- | 604 | 95 | -- | 699 |
| Saudi Arabia | 68 | -- | -- | 139 | 207 |
| United Arab Emirates | -- | -- | -- | 11 | 11 |
| Total | 68 | 604 | 95 | 150 | 917 |
| Africa: |  |  |  |  |  |
| Egypt | -- | -- | 10 | 611 | 621 |
| Total | -- | -- | 10 | 611 | 621 |
| Grand total | 4,990,000 | 4,660 | 3,110 | 177,000 | 5,180,000 |
| Total value (thousands) | \$25,300 | \$3,820 | \$1 | \$9,010 | \$38,100 |

Source: U.S. Bureau of the Census.

TABLE 23
U.S. IMPORTS OF CRUSHED STONE AND CALCIUM CARBONATE FINES, BY TYPE 1/
(Thousand metric tons and thousand dollars)

| Type | 1993 |  | 1994 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | $\begin{gathered} \text { C.i.f. } \\ \text { value } 2 / \end{gathered}$ | Quantity | $\begin{gathered} \text { C.i.f. } \\ \text { value } 2 / \end{gathered}$ | Unit price |
| Crushed stone and chips: |  |  |  |  |  |
| Limestone $2 /$ | 4,980 | 41,100 | 5,100 | 41,500 | \$8 |
| Limestone for flux or cement manufacturing | 3,070 | 21,400 | 3,250 | 23,800 | \$7 |
| Quartzite | (2/) | 343 | (2/) | 156 | \$591 |
| Other | 353 | 6,230 | 583 | 9,030 | \$15 |
| Total | 8,400 | 69,000 | 8,930 | 74,500 | XX |
| Calcium carbonate fines: $3 /$ |  |  |  |  |  |
| Natural chalk | (4/) | 255 | (4/) | 1,940 | \$8,160 |
| Calcium carbonates other chalk | 44 | 5,060 | 5 | 1,440 | \$300 |
| Total | 44 | 5,310 | 5 | 3,380 | XX |
| Grand total | 8,440 | 74,300 | 8,930 | 77,800 | XX |

XX Not applicable.
1/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown. 2/ Excludes limestone for cement manufacturing.
3/ Excludes precipitated calcium carbonates.
4/ Less than $1 / 2$ unit.
Source: U.S. Bureau of the Census.


[^0]:    1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.
    2/ Less than $1 / 2$ unit.

[^1]:    See footnotes at end of table.

