

STONE, CRUSHED

By Valentin V. Tepordei

Domestic survey data and tables were prepared by Susan M. Copeland, statistical assistant.

Crushed stone, one of the most accessible natural resources, is a major basic raw material for the construction, agriculture, and other industries that use complex chemical and metallurgical processes. Despite the relatively low unit value 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 1.6 billion metric tons (Gt) of crushed stone was produced for consumption in the United States in 2001, a 50-million-metric-ton (Mt) or 3.2% increase compared with the total production of 2000. This tonnage represents again the highest production level ever recorded in the United States. After a decrease in production in 1991, crushed stone production increased each year for the following 10 years, an indication of the continuous strong demand for construction aggregates in the United States (table 1).

About 70% of crushed stone production continued to be limestone and dolomite, followed, in descending order of tonnage, by granite, traprock, sandstone and quartzite, miscellaneous stone, marble, calcareous marl, slate, volcanic cinder and scoria, and shell (table 2).

Foreign trade of crushed stone continued to remain small. Exports increased to 4.4 Mt or by 8.7% and the value increased to \$35.6 million or by 19.9%, compared with that of 2000 (table 25).

Imports of crushed stone, including calcium carbonate, increased by 3.1% to 13.4 Mt, and the value increased by 4.8% to \$110 million (table 26). Domestic apparent consumption of crushed stone, which is defined as production for consumption (sold or used) plus imports minus exports, was 1.61 Gt (tables 1, 25-26).

Production

Domestic production data for crushed stone are derived by the U.S. Geological Survey (USGS) from voluntary surveys of U.S. producers. Of the 4,401 crushed stone operations on the mailing list, 3,321 operations with 3,386 quarries and 173 sales yards owned by 1,301 companies were active. Of the 3,321 active operations, 2,500 operations with 2,518 quarries, representing 75.3% of the total number of active operations, reported to the USGS. Their total production represented 84.4% of the total U.S. crushed stone output. A total 173 sales yards were active in 2001 in 29 States (table 24), an increase from the previous year in the number of active sales yards as well as the number of States they operated in. Of the 2,500 reporting operations with 2,518 quarries, 744 operations with 830 quarries and 85 sales yards owned by 118 companies did not report a breakdown by end use. Their production represented 34.8% of the U.S. total and is included in table 13 under "Unspecified, reported" uses.

Production of nonrespondents was estimated by using employment data and/or adjusted production reports from prior

years. The estimated production from 821 nonresponding operations with 868 quarries owned by 594 companies represented 15.6% of the U.S. total and is included in table 13 under "Unspecified, estimated" uses. Information regarding the number of active operations, active quarries, type of processing plants, and number of sales yards by State is provided in table 24.

A total 78 underground mines that are included in the total number of active operations produced 50 Mt of crushed stone in 2001. Active underground mines were located in 15 States. The five leading States, in descending order of tonnage, were Kentucky, Indiana, Nebraska, Illinois, and Iowa. Their production represented 20.9% of the total U.S. crushed stone produced underground.

A total 950 quarries were either idle or presumed to have been idle in 2001 because no information was available to estimate their production. Since the 2000 survey, 177 operations were closed down. Most of the idle or closed operations were small, temporary quarries, some of them operated by State or local governments. Operations in U.S. territories are not included in the above count.

Of the total 1.6 Gt of crushed stone produced for consumption in the United States in 2001, 1.1 Gt or 70.7% was limestone and dolomite; 243 Mt or 15.2% was granite; and 122 Mt or 7.6% was traprock. The remaining 104 Mt or 6.5% was shared, in descending order of quantity, by sandstone and quartzite, miscellaneous stone, marble, calcareous marl, slate, volcanic cinder and scoria, and shell (table 2).

A comparison of the four geographic regions of the United States indicates that, in 2001, the South continued to lead the Nation in the production of crushed stone with 762 Mt or 47.6% of the total, followed by the Midwest with 457 Mt or 28.6% and the Northeast with 221 Mt or 13.8%. About 76% of the total U.S. crushed stone output was produced in the South and the Midwest (table 3).

Of the nine geographic divisions, the South Atlantic led the Nation in the production of crushed stone with 382 Mt or 23.9% of the U.S. total (fig. 1). It was followed by the east north-central division with 295 Mt or 18.4% and the west south-central division with 210 Mt or 13.1%. Correspondence between geographic regions and divisions is shown in table 3.

Crushed stone was produced in every State except Delaware. The 10 leading producing States, in descending order of tonnage, were Texas, Pennsylvania, Florida, Missouri, Illinois, Georgia, Ohio, North Carolina, Virginia, and California. Their combined production represented 52.6% of the national total.

Leading U.S. producing companies, in descending order of tonnage, were Vulcan Materials Co.; Martin Marietta Aggregates; Hanson Building Materials America; Oldcastle, Inc./Materials Group; Lafarge North America Inc.; Rinker Materials Corp.; Ashland Oil, Inc./APAC, Inc.; CEMEX, Inc.; Rogers Group, Inc.; and Florida Rock Industries, Inc. The

combined production of the top 10 companies represented 41.8% of the national total.

A review of production by size of operation at the national level indicates that 925 Mt or 57.8% of total crushed stone was produced in 2001 by 518 operations reporting more than 1 million metric tons per year (Mt/yr); 347 Mt or 21.7% was produced by 541 operations reporting between 500,000 and 999,999 metric tons per year (t/yr); and 293 Mt or 18.3%, was produced by 1,219 operations reporting between 100,000 and 500,000 t/yr (table 7). The production-by-size information also indicates that 79.5% of total crushed stone produced in the U.S. comes from 1,059 operations all of them producing more than 500,000 t/yr.

The declining trend in the consolidation of the aggregates industry that started in 2000 continued in 2001 as well, in part due to the uncertainty over the breadth and timing of the economic rebound. Most of the acquisitions that occurred in 2001 were made by the major producers of aggregates, which are publicly owned companies. These companies continue to expand or consolidate their base of operations in some areas of the country by acquiring operations or smaller companies that own significant amounts of reserves. Stricter environmental and permitting regulations make it more difficult to start a new operation than to acquire an existing one. Some of the acquired companies continue to operate as semi-independent organizations but with the benefit of financial and managerial support provided by the larger new owner.

In January, Rogers Group Inc. of Nashville, TN, and Hanson Building Materials America of Neptune, NJ, swapped quarry and asphalt plant assets in Ohio, Kentucky, and Tennessee. Rogers Group gained three quarries and two asphalt plants in Canton, Marion, and Princeton, KY, and three quarries in McMinnville, Murfreesboro, and Shelbyville, TN. In exchange, Hanson acquired Rogers Group's Ohio operations, including a quarry near Sandusky and rail distribution yards in Akron, Macedonia, and Massillon (Rock Products, 2001f).

Also in January, Hanson acquired six aggregates operations located in southern Ohio and northeastern Kentucky, an aggregates distribution yard, eight ready mix concrete plants, a concrete block plant, and a precast concrete plant from Davon Inc. of Columbus, OH (Rock Products, 2001f).

Also in January, Vulcan Materials Co. of Birmingham, AL, announced the purchase of the remaining 50% of shares of its Mexican joint-venture from Empresas ICA Sociedad Controladora de Mexico City, Mexico. The transaction included the 6,000-acre limestone quarry site with more than 20 years of reserves, an aggregates processing plant, and a deep-water harbor located on the east coast of Mexico's Yucatan Peninsula. The transaction also included the aggregates transportation company Vulica and its two Panamax-class self-unloading vessels and Vulcan/ICA Distribution Co., based in Tampa, FL, with aggregates distribution facilities along the Gulf Coast (Rock Products, 2001g).

In February, Martin Marietta Materials, Inc., of Raleigh, NC, acquired Parkville Stone Co. of Kansas City, MO, and Ten Mile Stone Co. of Athens, TN. Parkville Stone Co. operated an underground limestone mine and two quarries located south of Kansas City. Ten Mile Stone operated one limestone quarry and had more than 40 years of reserves (Rock Products, 2001c).

In March, Martin Marietta acquired Brauntex Materials Chemical Lime's quarry at New Braunfels, TX. This quarry

supplies crushed stone by rail to the high-growth corridor between San Antonio and Austin, TX, as well as Houston, TX (Rock Products, 2001b).

In April, Martin Marietta purchased the remaining equity interest in Meridian Aggregates Co. Martin Marietta made its initial purchase of Meridian in October 1998. Meridian operated 25 aggregates-producing facilities and 7 rail distribution yards in 11 States and owned a significant amount of reserves (Rock Products, 2001e).

In July, Martin Marietta announced that it purchased one limestone quarry from Material Producers Inc. of Davis, OK, and three affiliated companies—Norman Asphalt, Norman Concrete, and Tri-Mat trucking company (Rock Products, 2001d).

In August, CSR America of West Palm Beach, FL (a subsidiary of the Australian CSR Limited of Chastwood, Australia), announced that it is changing its name to Rinker Materials Corp. in an effort to build a strong national awareness in the United States. Rinker was the first company acquired by CSR Limited, an acquisition that was followed by a series of other acquisitions that made CSR America one of the top aggregates producing companies in the United States (Rock Products, 2001a).

In December, Rinker announced the acquisition of four quarries located in Bardstown, Bowling Green, and Hartford, KY, and one in Columbia, MO. All these operations will be added to Rinker's subsidiary American Limestone Corp. (Rock Products, 2002).

Also in December, U.S. Concrete, Inc., of Houston, announced that it has acquired the assets of Lafarge Aggregates Southeast's Hamburg Quarry, located in Hamburg, NJ. U.S. Concrete was formed in 1998 to provide ready-mix concrete and related products and services to the construction industry. The company operates 85 ready mix plants located in major U.S. markets, and the Hamburg Quarry represents the company's entry into the aggregates business (Aggregates Manager, 2002).

Limestone.—The 2001 output of crushed limestone, including some dolomite, increased by 3.5% to 1 Gt valued at \$5.33 billion compared with the revised 2000 totals (table 2).

Limestone was produced by 733 companies at 1,930 operations with 1,915 quarries in 48 States. In addition, 36 companies with 47 operations and 52 quarries reported producing limestone and dolomite from the same quarries. Their production of 34.2 Mt is included with the limestone listed in table 2. The limestone totals shown in this chapter, therefore, include an undetermined amount of dolomite in addition to the dolomite reported separately.

The leading producing States, in descending order of tonnage, were Texas, Florida, Missouri, Ohio, and Illinois; these five States accounted for 40.8% of the total U.S. output (table 8). The leading producers of limestone, in descending order of tonnage, were Martin Marietta Aggregates, Vulcan Materials, Hanson, Rinker Materials, and Lafarge North America, Inc.

Dolomite.—Production of dolomite increased by 4.3% to 101 Mt valued at \$570 million compared with the revised 2000 totals (table 2). Crushed dolomite was reportedly produced by 94 companies at 170 operations with 188 quarries in 27 States. An additional undetermined amount of dolomite is included in the total crushed limestone, as explained above.

The leading producing States, in descending order of tonnage,

were Illinois, Pennsylvania, New York, Indiana, and Ohio; these five States accounted for 62.9% of the total U.S. output (table 8). The leading producers, in descending order of tonnage, were Oldcastle, Inc./Materials Group; General Dynamics Group; S.E. Johnson Companies, Inc.; Vulcan Materials; and Hanson.

Marble.—Production of crushed marble decreased by 9% to 9 Mt valued at \$54.4 million compared with the revised figure for 2000 (table 2). Crushed marble was produced by 12 companies with 20 operations and 25 quarries in 12 States (table 9). The leading producers of crushed marble, in descending order of tonnage, were Imerys Marble, Inc.; Florida Rock Industries, Inc.; Pluess Stauffer, Inc.; Vulcan Materials; and Georgia Marble Stone Corp.

Calcareous Marl.—Output of marl decreased by 10.8% to 4.5 Mt valued at \$17.5 million compared with the revised 2000 totals (table 2). Marl was produced by eight companies with eight operations and eight quarries in five States (table 9). The leading producers, in descending order of tonnage, were Holcim (U.S.), Inc.; Capitol Aggregates LTD; and Lafarge North America.

Shell.—Shell is derived mainly from fossil reefs or oyster shell banks. The output of crushed shell decreased by 18.9% to 1.4 Mt valued at \$7.4 million compared with the revised 2000 totals (table 2). Crushed shell was produced by nine companies with nine operations in seven States. The leading producers, in descending order of tonnage, were Schroeder Manatee, Inc.; Caloosa Shell Corp.; and Langenfelder & Sons, Inc.

Granite.—The output of crushed granite remained unchanged at 243 Mt valued at \$1.6 billion compared with the revised 2000 totals (table 2). Crushed granite was produced by 130 companies at 363 operations with 349 quarries in 34 States.

The leading States, in descending order of tonnage, were Georgia, North Carolina, Virginia, South Carolina, and California; these five States accounted for 72.8% of the U.S. output (table 10). The leading producers, in descending order of tonnage, were Vulcan Materials, Martin Marietta, Hanson, Oldcastle, and Florida Rock.

Traprock.—Production of crushed traprock increased by 7% to 122 Mt valued at \$819 million compared with the 2000 total (table 2). Traprock was produced by 222 companies at 337 operations with 402 quarries in 24 States.

The leading producing States, in descending order of tonnage, were Virginia, Oregon, New Jersey, California, and Washington; these five States accounted for 57.8% of U.S. output (table 10). Leading producers, in descending order of tonnage, were Oldcastle; Luck Stone Corp.; Vulcan Materials; Stavola, Inc.; and Eucon Co.

Sandstone and Quartzite.—The combined output of crushed sandstone and quartzite increased by 18.9% to 51.6 Mt valued at \$312 million compared with the revised 2000 totals (table 2). Crushed sandstone was produced by 110 companies at 143 operations with 141 quarries in 23 States, and crushed quartzite was produced by 34 companies at 38 operations with 36 quarries in 19 States.

The leading producing States, in descending order of tonnage of sandstone and quartzite, were Pennsylvania, Arkansas, California, Oklahoma, and South Dakota; their combined production accounted for 59% of the U.S. output (table 10). The leading producers of sandstone, in descending order of tonnage, were Martin Marietta, Ashland Oil, and Pine Bluff

S&G Co. Leading producers of quartzite were Martin Marietta, Ashland Oil, and County Line Quarry, Inc.

Slate.—The output of crushed slate increased by 22.3% to 3.5 Mt valued at \$23 million compared with the 2000 totals (table 2). Crushed slate was produced by 13 companies at 14 operations with 16 quarries in 11 States.

Most of the crushed slate was produced in North Carolina. The leading producers, in descending order of tonnage, were Martin Marietta, Giant Cement Holding, and NAPA Development Corp., Inc.

Volcanic Cinder and Scoria.—Production of volcanic cinder and scoria increased by 12% to 2.1 Mt valued at \$14.1 million compared with the revised 2000 total (table 2). Volcanic cinder and scoria were produced by 21 companies from 34 operations with 38 quarries in 13 States.

The leading producing States, in descending order of tonnage, were New Mexico, Texas, and California (table 11). Leading producers, in descending order of tonnage, were Martin Marietta; HG Byley & Sons Construction, Inc.; and Peter Kiewit Sons, Inc.

Miscellaneous Stone.—Output of other kinds of crushed stone increased by 0.6% to 36.7 Mt valued at \$213 million compared with the revised 2000 total (table 2). Miscellaneous stone was produced by 120 companies at 208 operations with 207 quarries in 32 States.

The leading producing States, in descending order of tonnage, were Pennsylvania, North Carolina, and California; their combined production accounted for 42.2% of the total U.S. output. Leading producers, in descending order of tonnage, were Wake Stone Corp., the U.S. Department of the Interior's Bureau of Land Management; MDU Resource Group; U.S. Silica Co.; and Albert Frei & Sons, Inc.

Consumption

Crushed stone production reported to the USGS is actually material that was either sold or used by producers. Stockpiled production is not included in the reported quantities. The "sold or used" tonnage, therefore, 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 the "Unspecified, reported" use. The estimated production of nonrespondents is included in the "Unspecified, estimated" use.

In 2001, U.S. consumption of crushed stone was 1.6 Gt, a 3.2% increase compared with the revised consumption of 2000. This total is slightly different from the "apparent consumption" of crushed stone that is defined as U.S. production plus imports minus exports. Of the 1.6 Gt of crushed stone consumed, 556 Mt or 34.8% of the total was "Unspecified, reported," and 250 Mt or 15.6% of the total was "Unspecified, estimated." Of the remaining 794 Mt, reported by uses, about 83.2% was used as construction aggregates, mostly for highway and road construction and maintenance; 13.1%, for chemical and metallurgical uses, including cement and lime manufacture; 1.5%, for agricultural uses; and 2.2%, for special and miscellaneous uses and products (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 study or

marketing analysis, the quantities included in “Unspecified” uses should be distributed among the reported uses by applying the above percentages to the total of the “Unspecified” uses.

Limestone.—Of the 1 Gt of crushed limestone consumed, 333 Mt or 32.3% of the total was in “Unspecified, reported,” and 180 Mt or 17.5% of the total was in “Unspecified, estimated.” Of the remaining 517 Mt of crushed limestone, reported by uses, 75.8% was used as construction aggregates; 18.7% was used for chemical and metallurgical applications including cement and lime manufacturing; 1.9%, for agricultural uses; and 2.1% for special and miscellaneous uses and products (table 14).

Dolomite.—Of the 101 Mt of crushed dolomite consumed, 49.5 Mt or 49% of the total was in “Unspecified, reported,” and 8.3 Mt, or 8.2% of the total was in “Unspecified, estimated.” Of the remaining 43.2 Mt of crushed dolomite, reported by uses, 89.8% was used as construction aggregates; 6%, for chemical and metallurgical applications; and 3.9%, for agricultural uses. An additional undefined amount of dolomite consumed in a variety of uses, mostly construction aggregates, is reported with the limestone (table 14).

Additional detailed production information for total combined limestone and dolomite by State and major uses is provided in table 15.

Marble.—Of the 9 Mt of crushed marble consumed, 2 Mt or 22.5% of the total was reported as “Unspecified, reported,” and 5.8 Mt or 64.1% was in “Unspecified, estimated.” Of the remaining 1.2 Mt of crushed marble reported by uses, 70.7% was used as construction aggregates and 29.3% for whiting and whiting substitutes and as fillers and extenders (table 16).

Calcareous Marl.—Of the 4.7 Mt of crushed calcareous marl consumed, 3.4 Mt or 72.3% was used for cement manufacturing.

Shell.—Of the 1.4 Mt of crushed shell consumed, 234,000 metric tons (t) or 16.5% was reported as “Unspecified, estimated” uses. Most of the remaining 1.18 Mt was used as construction aggregates.

Granite.—Of the 243 Mt of crushed granite consumed, 84.5 Mt or 34.8% was in “Unspecified, reported,” and 17 Mt or 7% was in “Unspecified, estimated.” Of the remaining 141.5 Mt, most was used as construction aggregates (table 17).

Traprock.—Of the 122 Mt of crushed traprock consumed, 42.2 Mt, or 34.6%, was in “Unspecified, reported,” and 21 Mt or 17.2% was in “Unspecified, estimated.” Of the remaining 58.8 Mt, most was used as construction aggregates (table 17).

Sandstone and Quartzite.—Of the 37.3 Mt of crushed sandstone consumed, 18.1 Mt or 48.5% was in “Unspecified, reported,” and 6.4 Mt or 17.2%, in “Unspecified, estimated.” Of the remaining 12.8 Mt of crushed sandstone, reported by uses, 12.3 Mt or 95.9% was used as construction aggregates (table 18).

Of the 14.2 Mt of crushed quartzite consumed, 6.9 Mt, or 48.7% of the total was in “Unspecified, reported,” and 880,000 t or 6.2% of the total was in “Unspecified, estimated.” Of the remaining 6.4 Mt of crushed quartzite, reported by uses, 5.6 Mt or 86.9% was used as construction aggregates (table 18).

Volcanic Cinder and Scoria.—Of the 2.1 Mt of volcanic cinder and scoria consumed, 670,000 t or 32.5% of the total, was in “Unspecified, reported,” and 340,000 t or 16.5% of the total was in “Unspecified, estimated.” Most of the remaining 1 Mt of crushed volcanic cinder and scoria was used as

construction aggregates (table 19).

Miscellaneous Stone.—Of the 35.3 Mt of miscellaneous crushed stone consumed, 18 Mt or 44.8% of the total was in “Unspecified, reported,” and 9.7 Mt or 24.1% of the total was in “Unspecified, estimated.” Of the remaining 12.5 Mt, reported by uses, 11.5 Mt or 91.8% was used as construction aggregates.

Additional information regarding production and consumption of crushed stone by type of rock and major uses in each State and the State districts may be found in the USGS Minerals Yearbook, volume II, Area Reports: Domestic.

Recycling

As the recycling of most waste materials increases, aggregates producers are recycling more cement concrete and asphalt concrete materials recovered from construction projects to produce concrete aggregates and asphalt aggregates. The recycling of the cement concrete is usually done at quarries and increasingly at sales yards or distribution sites, whereas asphalt concrete recycling occurs mostly at the construction sites. The annual survey of crushed stone producers now collects information on recycling of cement and asphalt concretes produced by the crushed stone producers only. These amounts represent a small percentage of the total recycled cement and asphalt concretes because the recycling of these materials is done mostly by the construction or demolition companies and those companies do not report to the USGS.

Asphalt Concrete.—A total of 1.3 Mt of asphalt concrete valued at \$7.3 million was recycled in 2001 by 54 companies in 27 States. The volume of recycled asphalt concrete remained unchanged compared with that of 2000 (tables 20, 21). The leading recycling States, in descending order of tonnage, were California, Maine, and Pennsylvania. The leading recycling companies, in descending order of tonnage produced, were Dutra Materials, Inc.; Raisch Products; and Ashland Oil.

Cement Concrete.—A total of 3 Mt of cement concrete valued at \$18.6 million was recycled by 49 companies in 26 States. This tonnage represents a 27.9% increase compared with that of 2000 (tables 20-22). The leading recycling States, in descending order of tonnage, were Illinois, California, Virginia, and Georgia. The leading companies, in descending order of tonnage produced, were Vulcan Materials, Raisch Products, and Dutra Materials.

Prices

Prices in this chapter are the average annual free on board (f.o.b.) plant prices, usually at the first point of sale or captive use, as reported by the companies. This value does not include transportation from the plant or yard to the consumer. It does, however, include all costs of mining, processing, inplant transportation, overhead costs, and profit. The average unit price of crushed stone increased by 3.9% to \$5.57 per metric ton compared with the revised unit price of 2000. The average unit prices, by kind of stone, increased between 0.4% for miscellaneous stone and 7.7% for dolomite, and decreased between 1.5% for slate and 11.3% for calcareous marl (table 2).

Transportation

For 822 Mt or 51.4% of the 1.6 Gt of crushed stone produced for consumption in 2001, no means of transportation was

reported by the producers. Of the remaining 778 Mt of crushed stone, 608 Mt or 78.2% was reported as being transported by truck from the processing plant or quarry to the first point of sale or use; 47.8 Mt or 6.1%, by rail; and 33.7 or 4.3%, by waterway. About 9.2% of the specified production was reported as not having been transported and, therefore, is assumed to have been used onsite. Information regarding means of transportation used by the producers to ship crushed stone in each geographic region is provided in table 23.

Foreign Trade

The widespread distribution of domestic deposits of stone suitable for mining as crushed stone and the high cost of transportation limits foreign trade to mostly local transactions across international boundaries. Shipments of crushed stone by water from Canada, Mexico, and the Caribbean, however, continue to increase. U.S. imports and exports are small, representing less than 1% of the domestic consumption.

Exports.—Exports of crushed stone increased by 8.7% to 4.4 Mt compared with those of 2000, and the value increased by 19.9% to \$35.6 million. About 96.6% of the exported crushed stone was limestone for cement manufacturing. Canada was the major destination with 99.9% of the total crushed stone (table 25).

Imports.—Imports of crushed stone, including calcium carbonate fines, increased by 3.1% to 13.4 Mt compared with those of 2000, and the value increased by 4.8% to \$110 million. About 81.3% of the imported crushed stone was limestone. Imports of natural calcium carbonate decreased by 78% to 216 t from the previous year, and the value decreased by 50% to \$349,000 (table 26).

Shipments of crushed stone from The Bahamas, Canada, and Mexico into the United States continued in 2001. 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 is expected to increase but will continue to remain insignificant compared with total domestic output.

Outlook

The demand for crushed stone in 2002 is expected to remain at the 2001 level of 1.6 Gt or show a very small increase. Gradual increases in demand for construction aggregates are anticipated after 2002 based on the expected volume of work on the infrastructure that will be financed by the Transportation Equity Act for the 21st Century, the Aviation Investment and Reform Act for the 21st Century, and the U.S. economy in general. The projected increases will be influenced by the construction activity in the public and private construction sectors as well as by the new construction work related to security measures being implemented around the Nation. It is expected that the amount of State funds allocated to transportation projects will also increase. Crushed stone f.o.b. prices are not expected to increase significantly. 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.

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TABLE 1
SALIENT CRUSHED STONE STATISTICS 1/

(Thousand metric tons and thousand dollars)

	1997	1998	1999	2000	2001
Sold or used by producers: 2/					
Quantity	1,410,000	1,510,000	1,530,000	1,550,000 r/	1,600,000
Value	7,970,000	8,130,000	8,180,000	8,290,000 r/	8,920,000
Exports	value 42,700	41,500	30,800	29,700	35,600
Imports 3/	do. 106,000	116,000	106,000	105,000	110,000

r/ Revised.

1/ Data are rounded to no more than 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/ 2/

Kind	2000				2001			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone 3/	1,990 r/	995,000 r/	\$4,960,000 r/	\$4.99	1,967	1,030,000	\$5,330,000	\$5.19
Dolomite	186 r/	96,800 r/	505,000 r/	5.22 r/	188	101,000	570,000	5.62
Marble	26 r/	9,950 r/	58,000 r/	5.83 r/	25	9,050	54,400	6.00
Calcareous marl	8 r/	5,010 r/	22,100 r/	4.42 r/	8	4,470	17,500	3.92
Shell	12 r/	1,750	8,620	4.93	10	1,420	7,360	5.19
Granite	366 r/	243,000 r/	1,530,000 r/	6.29 r/	349	243,000	1,560,000	6.41
Traprock	456 r/	114,000	730,000 r/	6.40 r/	402	122,000	819,000	6.72
Sandstone and quartzite 4/	197 r/	43,400 r/	251,000 r/	5.78 r/	177	51,600	312,000	6.05
Slate	18	2,820	19,100	6.75	16	3,450	23,000	6.65
Volcanic cinder and scoria	40 r/	1,840 r/	13,700 r/	7.43 r/	38	2,060	14,100	6.85
Miscellaneous stone	251 r/	33,300 r/	192,000 r/	5.77 r/	207	36,700	213,000	5.79
Total	XX	1,550,000 r/	8,290,000 r/	5.36 r/	XX	1,600,000	8,920,000	5.57

r/ Revised. XX Not applicable.

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

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

3/ Includes limestone-dolomite reported with no distinction between the two.

4/ Includes sandstone/quartzite.

TABLE 3
CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY REGION 1/ 2/

(Thousand metric tons and thousand dollars)

Region/division	2000		2001	
	Quantity	Value	Quantity	Value
Northeast:				
New England	35,700	237,000	39,700	282,000
Middle Atlantic	172,000	994,000	181,000	1,100,000
Midwest:				
East north central	282,000 r/	1,270,000 r/	295,000	1,390,000
West north central	163,000	822,000 r/	162,000	840,000
South:				
South Atlantic	381,000 r/	2,260,000 r/	382,000	2,310,000
East south central	166,000 r/	968,000 r/	170,000	1,010,000
West south central	191,000	822,000	210,000	1,030,000
West:				
Mountain	53,600 r/	284,000 r/	55,800	300,000
Pacific	103,000 r/	639,000 r/	105,000	653,000
Total	1,550,000 r/	8,290,000 r/	1,600,000	8,920,000

r/ Revised.

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

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

TABLE 4
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY QUARTER AND DIVISION 1/ 2/

Region/division	Quantity 1st quarter		Quantity 2d quarter		Quantity 3d quarter		Quantity 4th quarter		Total 3/ (thousand metric tons)	Value 3/ (thousands)
	(thousand metric tons)	Percentage change 4/	(thousand metric tons)	Percentage change 4/	(thousand metric tons)	Percentage change 4/	(thousand metric tons)	Percentage change 4/		
Northeast:										
New England	3,200	1.2	10,700	(0.8)	12,000	(2.7)	9,600	3.4	35,500	\$249,000
Middle Atlantic	22,800	(0.9)	55,300	13.4	59,200	4.9	48,000	10.6	185,000	1,120,000
Midwest:										
East north central	37,900	0.4	83,000	3.5	95,800	5.7	80,500	11.4	297,000	1,380,000
West north central	28,700	(10.6)	46,500	(4.2)	52,700	6.1	45,500	37.5	173,000	953,000
South:										
South Atlantic	77,000	(4.8)	102,000	0.9	102,000	2.6	93,900	2.0	375,000	2,310,000
East south central	34,700	(1.7)	47,200	3.9	48,300	0.5	43,300	6.8	174,000	1,060,000
West south central	51,500	14.1	66,600	36.3	64,700	25.4	56,300	30.8	239,000	1,030,000
West:										
Mountain	10,500	(3.8)	15,100	(3.5)	16,100	8.0	12,400	2.0	54,200	294,000
Pacific 5/	19,900	5.5	26,600	2.9	25,900	(9.4)	23,500	(10.2)	95,900	584,000
Total 3/	286,000	(0.3)	453,000	6.5	477,000	5.6	413,000	11.0	1,650,000 6/	9,000,000 6/

1/ As published in the "Crushed Stone and Sand and Gravel in the Fourth Quarter of 2001" Mineral Industry Surveys.

2/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

3/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and regions.

4/ All percentage changes are calculated by using unrounded totals. Percentage changes are based on the corresponding quarter of the previous year.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska, Hawaii, and "Other" which are detailed in table 6.

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

State	2000			2001		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Alabama	48,500 r/	\$296,000 r/	\$6.10 r/	49,400	\$308,000	\$6.24
Alaska 3/	1,400	7,110	5.08	1,490 4/ 5/	8,140 4/ 5/	5.48
Arizona	8,030	48,200	6.01	8,320	49,600	5.97
Arkansas	28,300	137,000	4.84	33,700	169,000	5.02
California	57,900 r/	360,000 r/	6.22 r/	61,600	396,000	6.44
Colorado	13,000	81,900	6.31	13,900	88,500	6.38
Connecticut	7,740	65,300	8.44	9,870	83,200	8.43
Florida	93,000	495,000	5.33	95,100	515,000	5.42
Georgia	76,400 r/ 6/	452,000 6/	5.91	77,300 6/	467,000 6/	6.04
Hawaii	5,770	58,100	10.08	6,610	64,000	9.69
Idaho	3,500	14,800	4.21	5,250	22,500	4.28
Illinois	76,000 7/	394,000 7/	5.19	80,700 7/	459,000 7/	5.69
Indiana	55,400	253,000	4.57	58,200	278,000	4.77
Iowa	40,000 r/	208,000 r/	5.20	35,600	189,000	5.30
Kansas	23,300	113,000	4.85	22,800	110,000	4.85
Kentucky	55,100 r/	294,000 r/	5.33	60,200	331,000	5.50
Louisiana 8/	W 7/ 9/	W 7/ 9/	W	W 7/ 9/ 10/	W 7/ 9/ 10/	W
Maine	3,650	21,100	5.78	4,210	24,200	5.75
Maryland	22,000 r/ 6/ 11/ 12/	123,000 r/ 6/ 11/ 12/	5.58 r/	22,800 6/ 11/ 12/	136,000 6/ 11/ 12/	5.97
Massachusetts	13,400	103,000	7.69	14,500	121,000	8.34
Michigan	42,200 10/ 13/	148,000 10/ 13/	3.52	43,200 10/ 13/	160,000 10/ 13/	3.71
Minnesota	12,400	68,100	5.50	9,730	57,000	5.85
Mississippi 8/	2,530 13/	23,700 13/	9.37	2,140 13/	21,500 13/	10.07
Missouri	75,600 r/	365,000 r/	4.83 r/	82,000	411,000	5.01
Montana	3,070	12,600	4.12	3,070	12,400	4.06
Nebraska	6,590	42,400	6.43	6,360	45,800	7.19
Nevada	7,640	37,300	4.88	8,230	40,400	4.91
New Hampshire	3,740 7/	15,700 7/	4.19	4,230 7/	18,200 7/	4.29
New Jersey	24,900	170,000	6.82	26,400	184,000	6.95
New Mexico	3,690	22,400	6.07	4,230	26,100	6.17

See footnotes at end of table.

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

State	2000			2001		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
New York	48,800	\$304,000	\$6.22	53,700	\$353,000	\$6.57
North Carolina	69,500	478,000	6.88	69,300	485,000	7.00
North Dakota	W 9/ 10/ 14/	W 9/ 10/ 14/	W	W 9/ 10/ 14/	W 9/ 10/ 14/	W
Ohio	73,600	327,000	4.44	75,900	339,000	4.46
Oklahoma	39,300	168,000	4.28	41,600	179,000	4.30
Oregon	20,800	98,900	4.75	20,800	100,000	4.83
Pennsylvania	97,900	520,000	5.32	101,000	564,000	5.60
Rhode Island	1,860	10,600	5.69	1,930	11,100	5.76
South Carolina	29,400	189,000	6.42	26,700	161,000	6.03
South Dakota	5,460	25,500	4.67	5,850	27,200	4.65
Tennessee	60,100 r/	353,000 r/	5.88 r/	58,600	344,000	5.88
Texas	121,000	496,000	4.10	130,000	624,000	4.82
Utah	8,400 r/	40,700 r/	4.85 r/	8,430	40,500	4.81
Vermont	5,210	21,500	4.12	4,950	24,300	4.92
Virginia	67,600 r/	418,000 r/	6.17 r/	69,100	446,000	6.46
Washington	16,800 r/	114,000 r/	6.79 r/	14,100	84,300	6.00
West Virginia	14,100 r/	60,000 r/	4.27 r/	15,300	65,700	4.29
Wisconsin	35,100 r/	143,000 r/	4.09 r/	36,600	150,000	4.10
Wyoming	6,250	26,100	4.18	4,370	20,400	4.68
Other	11,500 r/	66,600 r/	5.79 r/	12,800	99,200	7.77
Total	1,550,000 r/	8,290,000 r/	5.36 r/	1,600,000	8,920,000	5.57

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/ 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 Alaska Division of Geological and Geophysical Surveys information.

4/ Excludes limestone-dolomite.

5/ Excludes slate.

6/ Excludes marble.

7/ Excludes sandstone.

8/ A significant amount of sold or used material was shipped in from other States.

9/ Excludes limestone.

10/ Excludes miscellaneous stone.

11/ Excludes shell.

12/ Excludes traprock.

13/ Excludes calcareous marl.

14/ Excludes volcanic cinder and scoria.

TABLE 6
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY QUARTER AND STATE 1/ 2/

State	Quantity 1st quarter		Quantity 2d quarter		Quantity 3d quarter		Quantity 4th quarter		Total 4/ (thousand metric tons)	Value 4/ (thousands)
	(thousand metric tons)	Percentage change 3/	(thousand metric tons)	Percentage change 3/	(thousand metric tons)	Percentage change 3/	(thousand metric tons)	Percentage change 3/		
Alabama	12,300	3.7	13,200	1.4	13,600	3.3	12,200	10.5	51,300	\$323,000
Alaska 5/ 6/	--	--	--	--	--	--	--	--	1,500	7,850
Arizona 7/	--	--	--	--	--	--	--	--	7,100	43,900
Arkansas	6,700	6.2	10,200	46.9	11,100	30.0	9,700	47.5	37,600	188,000
California	11,700	6.4	16,100	4.1	16,500	(2.9)	14,600	(9.9)	59,000	380,000
Colorado	2,300	(10.9)	3,200	(22.9)	3,300	(8.3)	2,700	4.8	11,600	75,300
Connecticut	600	(19.1)	2,200	(10.1)	2,400	(5.4)	2,100	3.6	7,300	63,500
Delaware 5/	--	--	--	--	--	--	--	--	--	--
Florida 6/	21,100	(4.4)	23,700	(5.8)	23,200	(0.1)	24,100	7.1	92,100	506,000
Georgia 6/	16,900	(7.5)	20,400	0.7	20,500	5.0	18,500	0.6	76,300	465,000
Hawaii 5/	--	--	--	--	--	--	--	--	5,000	51,900
Idaho 6/	800	7.4	800	9.0	1,700	87.9	1,500	41.7	4,870	21,100
Illinois	11,000	(2.5)	21,600	2.6	25,600	5.5	22,700	16.9	80,900	432,000

See footnotes at end of table.

TABLE 6 -- Continued
 CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY QUARTER AND STATE 1/ 2/

State	Quantity 1st quarter (thousand metric tons)	Percentage change 3/	Quantity 2d quarter (thousand metric tons)	Percentage change 3/	Quantity 3d quarter (thousand metric tons)	Percentage change 3/	Quantity 4th quarter (thousand metric tons)	Percentage change 3/	Total 4/ (thousand metric tons)	Value 4/ (thousands)
Indiana 6/	8,600	1.6	15,400	1.0	18,300	1.5	14,300	5.1	56,700	\$267,000
Iowa	4,700	(23.8)	11,400	(9.4)	12,200	(5.9)	11,000	30.1	39,300	211,000
Kansas	4,700	(13.0)	5,900	(13.0)	6,900	0.5	6,700	56.0	24,200	121,000
Kentucky 6/	10,600	(2.4)	16,500	9.3	16,600	4.5	14,400	5.4	58,200	319,000
Louisiana 6/ 7/	--	--	--	--	--	--	--	--	--	--
Maine	400	0.3	1,000	(2.0)	1,200	(14.3)	800	(8.3)	3,370	20,000
Maryland 6/	3,900	(7.9)	6,700	(3.0)	7,300	4.2	6,700	5.2	24,600	142,000
Massachusetts 6/	1,400	11.9	3,900	(0.8)	5,000	8.0	3,800	7.4	14,200	112,000
Michigan 6/	3,200	(5.9)	13,500	(0.4)	14,200	3.4	12,700	9.7	43,500	158,000
Minnesota	1,000	13.9	3,400	(21.1)	5,400	8.5	3,300	49.8	13,100	74,300
Mississippi 6/ 7/	--	--	--	--	--	--	--	--	4,390	42,300
Missouri	15,200	(8.6)	21,100	(3.2)	24,300	12.8	21,100	36.7	81,800	445,000
Montana 7/	--	--	--	--	--	--	--	--	3,500	14,900
Nebraska	1,500	0.5	2,600	40.6	2,300	25.9	2,000	29.5	8,250	54,600
Nevada	1,700	2.8	1,900	(9.1)	2,000	0.7	1,600	(16.7)	7,180	36,100
New Hampshire 6/	300	17.0	1,100	(7.0)	1,200	(17.7)	900	(0.6)	3,440	14,800
New Jersey	4,500	17.2	9,500	46.3	10,200	34.3	9,700	38.5	33,900	238,000
New Mexico 6/	800	(11.6)	900	3.1	1,100	9.7	1,000	17.6	3,850	24,100
New York	4,600	(6.7)	15,700	14.6	17,000	(3.7)	12,900	3.0	50,200	322,000
North Carolina	13,500	(5.7)	19,500	3.6	18,700	(2.6)	16,900	(1.3)	68,700	487,000
North Dakota 5/	--	--	--	--	--	--	--	--	--	--
Ohio	10,500	5.0	22,800	9.0	26,100	11.4	21,800	13.4	81,200	372,000
Oklahoma 6/	10,200	17.7	13,000	17.0	13,000	17.2	11,000	30.1	47,200	208,000
Oregon	4,000	17.2	5,100	(12.5)	5,600	(9.5)	4,400	(18.2)	19,100	93,400
Pennsylvania	14,400	(2.5)	30,300	5.9	32,000	4.9	26,000	8.5	103,000	562,000
Rhode Island 5/	--	--	--	--	--	--	--	--	3,040	17,800
South Carolina	6,100	(12.7)	7,300	(10.7)	7,400	0.8	6,900	0.9	27,700	184,000
South Dakota	900	2.5	1,500	(8.9)	2,000	2.7	1,300	33.7	5,720	27,600
Tennessee	11,000	(6.8)	17,000	1.8	17,400	(4.7)	15,900	3.6	61,300	377,000
Texas	33,700	11.9	42,500	37.6	39,700	23.5	34,700	24.5	151,000	636,000
Utah	1,600	2.4	3,300	43.8	3,500	37.7	2,000	(2.7)	10,500	53,400
Vermont 7/	--	--	--	--	--	--	--	--	4,920	20,800
Virginia	14,000	9.2	21,400	16.1	20,500	5.0	18,100	(0.1)	73,900	469,000
Washington	4,500	(11.6)	5,400	27.7	2,500	(54.2)	4,300	4.4	16,800	111,000
West Virginia 6/	1,800	(12.1)	3,400	(7.5)	4,400	25.7	3,100	8.5	12,700	57,300
Wisconsin	5,100	(2.3)	9,400	5.5	11,900	4.9	8,600	4.7	35,000	147,000
Wyoming	1,300	12.2	1,900	(3.8)	1,400	(21.3)	1,100	(14.7)	5,750	24,700
Other	--	--	--	--	--	--	--	--	12,500	78,000
Total	XX	XX	XX	XX	XX	XX	XX	XX	1,650,000	9,000,000

XX Not applicable. -- No estimate made due to small sample size.

1/ As published in the "Crushed Stone and Sand and Gravel in the Fourth Quarter of 2001" Mineral Industry Surveys.

2/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

3/ All percentage changes are calculated by using unrounded totals. Percentage changes are based on the corresponding quarter of the previous year.

Negative percentages (decreases) are in parentheses.

4/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and regions.

5/ State not included in quarterly survey.

6/ To avoid disclosing proprietary data, certain State totals do not include all types of stone produced within the State; the portion not shown has been included with "Other."

7/ Owing to the low number of companies, no production estimates by quarter were generated.

TABLE 7
CRUSHED STONE SOLD OR USED IN THE UNITED STATES IN 2001, BY REGION AND SIZE OF OPERATION 1/

Size range (metric tons)	Northeast				Midwest				South			
	Number of operations	Percentage of total	Quantity (thousand metric tons)	Percentage of total	Number of operations	Percentage of total	Quantity (thousand metric tons)	Percentage of total	Number of operations	Percentage of total	Quantity (thousand metric tons)	Percentage of total
Less than 25,000	31	7.2	255	0.1	150	13.8	1,530	0.3	59	5.2	596	0.1
25,000 to 49,999	17	3.9	592	0.3	90	8.3	3,020	0.7	46	4.1	1,620	0.2
50,000 to 99,999	39	9.0	2,750	1.2	148	13.6	10,000	2.2	81	7.2	5,440	0.7
100,000 to 199,999	56	12.9	7,890	3.6	169	15.6	23,200	5.1	145	12.8	19,600	2.6
200,000 to 299,999	42	9.7	9,520	4.3	92	8.5	20,500	4.5	114	10.1	25,600	3.4
300,000 to 399,999	52	12.0	16,500	7.5	77	7.1	24,500	5.4	90	8.0	28,500	3.7
400,000 to 499,999	37	8.5	15,100	6.8	59	5.4	24,000	5.3	89	7.9	36,400	4.8
500,000 to 599,999	18	4.2	9,010	4.1	44	4.1	21,500	4.7	63	5.6	31,200	4.1
600,000 to 699,999	23	5.3	13,600	6.2	45	4.1	26,100	5.7	68	6.0	39,800	5.2
700,000 to 799,999	22	5.1	14,800	6.7	37	3.4	25,300	5.5	48	4.2	32,800	4.3
800,000 to 899,999	9	2.1	7,020	3.2	22	2.0	16,800	3.7	36	3.2	27,900	3.7
900,000 to 999,999	14	3.2	12,000	5.4	20	1.8	17,300	3.8	24	2.1	20,700	2.7
1,000,000 to 1,499,999	41	9.5	44,800	20.3	61	5.6	67,400	14.7	131	11.6	141,000	18.5
1,500,000 to 1,999,999	15	3.5	23,100	10.5	36	3.3	56,800	12.4	64	5.7	97,800	12.8
2,000,000 to 2,499,999	11	2.5	22,500	10.2	10	0.9	19,900	4.4	28	2.5	57,400	7.5
2,500,000 to 4,999,999	5	1.2	15,600	7.1	20	1.8	63,000	13.8	32	2.8	102,000	13.3
5,000,000 and over	1	0.2	5,460	2.5	5	0.5	36,200	7.9	13	1.1	95,300	12.5
Total	433	100.0	221,000	100.0	1,085	100.0	457,000	100.0	1,131	100.0	763,000	100.0
Size range (metric tons)	West				U.S. total							
	Number of operations	Percentage of total	Quantity (thousand metric tons)	Percentage of total	Number of operations	Percentage of total	Quantity (thousand metric tons)	Percentage of total				
Less than 25,000	206	30.7	1,500	0.9	446	13.4	3,880	0.2				
25,000 to 49,999	76	11.3	2,660	1.7	229	6.9	7,890	0.5				
50,000 to 99,999	100	14.9	6,990	4.4	368	11.1	25,200	1.6				
100,000 to 199,999	94	14.0	12,000	7.5	464	14.0	62,700	3.9				
200,000 to 299,999	51	7.6	11,300	7.1	299	9.0	66,900	4.2				
300,000 to 399,999	31	4.6	9,770	6.1	250	7.5	79,300	5.0				
400,000 to 499,999	21	3.1	8,500	5.3	206	6.2	84,000	5.2				
500,000 to 599,999	12	1.8	5,970	3.7	137	4.1	67,700	4.2				
600,000 to 699,999	12	1.8	7,020	4.4	148	4.5	86,500	5.4				
700,000 to 799,999	11	1.6	7,500	4.7	118	3.6	80,400	5.0				
800,000 to 899,999	8	1.2	6,140	3.8	75	2.3	57,900	3.6				
900,000 to 999,999	5	0.7	4,360	2.7	63	1.9	54,400	3.4				
1,000,000 to 1,499,999	23	3.4	24,600	15.3	256	7.7	278,000	17.3				
1,500,000 to 1,999,999	7	1.0	10,700	6.7	122	3.7	188,000	11.8				
2,000,000 to 2,499,999	6	0.9	12,100	7.6	55	1.7	112,000	7.0				
2,500,000 to 4,999,999	8	1.2	24,400	15.2	65	2.0	205,000	12.8				
5,000,000 and over	1	0.1	4,720	2.9	20	0.6	142,000	8.8				
Total	672	100.0	160,000	100.0	3,321	100.0	1,600,000	100.0				

1/ Data are rounded to no more than three significant digits except "number of operations;" may not add to totals shown.

TABLE 8
CRUSHED LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES
IN 2001, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	Limestone		Dolomite	
	Quantity	Value	Quantity	Value
Alabama	41,200	252,000	W	W
Alaska	W 2/	W 2/	--	--
Arizona	4,490	23,100	--	--
Arkansas	10,600	54,500	W	W
California	27,700	143,000	234	1,770
Colorado	4,820	30,900	W	W
Connecticut	W	W	W	W
Florida	92,100 2/	497,000 2/	1,820	12,500
Georgia	10,300	64,700	--	--
Hawaii	274	2,620	--	--
Idaho	564	3,240	--	--
Illinois	61,500 2/	347,000 2/	18,700	107,000
Indiana	47,500 2/	228,000 2/	10,700	49,400
Iowa	35,500 2/	189,000 2/	W	W
Kansas	21,200 2/	104,000 2/	--	--
Kentucky	59,100	325,000	W	W
Louisiana 3/	W	W	--	--
Maine	1,440	7,960	--	--
Maryland	17,200 2/	94,700 2/	--	--
Massachusetts	1,060	19,600	W	W
Michigan	35,100 2/	129,000 2/	8,110	31,300
Minnesota	3,980	19,100	W	W
Mississippi 3/	2,140	21,500	--	--
Missouri	76,500 2/	380,000 2/	3,950	19,200
Montana	1,760	7,500	--	--
Nebraska	6,360	45,800	--	--
Nevada	5,250	21,900	W	W
New Jersey	401	5,720	--	--
New Mexico	2,240	9,690	--	--
New York	30,000 2/	168,000 2/	11,100	83,300
North Carolina	W	W	W	W
North Dakota	W	W	--	--
Ohio	66,500 2/	293,000 2/	8,970	43,700
Oklahoma	32,900	139,000	W	W
Oregon	1,330	6,110	--	--
Pennsylvania	57,900 2/	329,000 2/	14,100	76,800
Rhode Island	W	W	--	--
South Carolina	W	W	--	--
South Dakota	3,160	13,200	--	--
Tennessee	54,700 2/	319,000 2/	W	W
Texas	124,000 2/	600,000 2/	W	W
Utah	5,260 2/	26,100 2/	W	W
Vermont	W	W	W	W
Virginia	20,100 2/	113,000 2/	2,480	14,300
Washington	2,020 2/	11,500 2/	W	W
West Virginia	13,900	59,100	--	--
Wisconsin	28,500 2/	117,000 2/	3,030	13,000
Wyoming	1,500 2/	6,510 2/	--	--
Other	13,800 2/	96,800 2/	18,200	118,000
Total	1,030,000	5,330,000	101,000	570,000

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

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

2/ Includes limestone-dolomite reported with no distinction between the two kinds of stone.

3/ A significant amount of sold or used material was shipped in from other States.

TABLE 9
CRUSHED CALCAREOUS MARL AND MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	Calcareous marl		Marble	
	Quantity	Value	Quantity	Value
Alabama	--	--	W	W
Alaska	--	--	45	533
Arizona	--	--	W	W
California	--	--	24	191
Georgia	--	--	W	W
Maryland	--	--	W	W
Michigan	W	W	--	--
Mississippi	W	W	--	--
New York	--	--	W	W
Pennsylvania	--	--	119	792
Oregon	122	437	--	--
South Carolina	3,230	12,500	W	W
Texas	W	W	W	W
Vermont	--	--	W	W
Wyoming	--	--	W	W
Other	1,110	4,560	8,870	52,800
Total	4,470	17,500	9,050	54,400

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

1/ Data are rounded to no more than 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 2001, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	Granite		Traprock		Sandstone and quartzite 2/	
	Quantity	Value	Quantity	Value	Quantity	Value
Alabama	W	W	--	--	1,370	9,260
Alaska 3/	W	W	258	1,060	--	--
Arizona	2,150	16,200	W	W	W	W
Arkansas	9,530	50,200	--	--	10,100	47,400
California	13,100	90,300	12,400	93,400	3,490	32,400
Colorado	4,310	29,200	W	W	W	W
Connecticut	498	3,950	7,770	56,900	--	--
Georgia	66,700	401,000	--	--	W	W
Hawaii	--	--	5,690	55,400	--	--
Idaho	235	1,090	3,710	14,700	W	W
Illinois	--	--	--	--	W	W
Kansas	--	--	--	--	W	W
Louisiana 4/	--	--	--	--	W	W
Maine	1,370	7,880	56	368	W	W
Maryland	3,370	26,500	W	W	W	W
Massachusetts	W	W	7,810	60,000	--	--
Michigan	--	--	--	--	9	153
Minnesota	W	W	--	--	W	W
Missouri	W	W	W	W	--	--
Montana	W	W	W	W	W	W
Nevada	W	W	93	430	--	--
New Hampshire	2,010	8,130	W	W	W	W
New Jersey	11,100	72,800	14,900	105,000	--	--
New Mexico	W	W	--	--	--	--
New York	W	W	W	W	1,630	13,300
North Carolina	51,500	367,000	5,050	38,100	W	W
Ohio	--	--	--	--	W	W
Oklahoma	W	W	--	--	2,970	17,700
Oregon	W	W	16,200	80,200	--	--
Pennsylvania	4,630	26,100	5,220	27,400	11,300	62,000
Rhode Island	W	W	W	W	--	--
South Carolina	20,100	127,000	--	--	--	--
South Dakota	W	W	--	--	2,570	13,500

See footnotes at end of table.

TABLE 10--Continued
 CRUSHED GRANITE, TRAPROCK, AND SANDSTONE AND QUARTZITE SOLD OR USED
 BY PRODUCERS IN THE UNITED STATES IN 2001, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	Granite		Traprock		Sandstone and quartzite 2/	
	Quantity	Value	Quantity	Value	Quantity	Value
Tennessee	W	W	--	--	W	W
Texas	W	W	W	W	871	4,560
Utah	--	--	--	--	649	4,030
Vermont	307	1,960	--	--	W	W
Virginia	25,500	180,000	18,100	124,000	W	W
Washington	1,490	8,300	8,910	53,800	W	W
West Virginia	--	--	--	--	1,450	6,670
Wisconsin	1,370	5,380	W	W	W	W
Wyoming	W	W	--	--	W	W
Other	23,900	137,000	15,700	108,000	15,200	101,000
Total	243,000	1,560,000	122,000	819,000	51,600	312,000

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

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

2/ Includes sandstone-quartzite.

3/ Data derived, in part, from Alaska Division of Geological and Geophysical Surveys information.

4/ A significant amount of sold or used material was shipped in from other States.

TABLE 11
 CRUSHED VOLCANIC CINDER AND SCORIA AND CRUSHED MISCELLANEOUS STONE
 SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	Volcanic cinder and scoria		Miscellaneous stone 2/	
	Quantity	Value	Quantity	Value
Alabama	--	--	W	W
Alaska 3/	--	--	1,150	6,250
Arizona	148	769	1,300	8,350
Arkansas	--	--	W	W
California	198	1,670	4,420	33,100
Colorado	W	W	W	W
Connecticut	--	--	W	W
Hawaii	--	--	W	W
Idaho	--	--	355	1,680
Illinois	--	--	W	W
Indiana	--	--	W	W
Louisiana 4/	--	--	W	W
Maine	--	--	900	5,360
Maryland	--	--	W	W
Massachusetts	--	--	W	W
Michigan	--	--	W	W
Montana	171	614	91	352
Nevada	W	W	W	W
New Jersey	--	--	W	W
New Mexico	314	3,640	W	W
New York	--	--	597	3,490
North Carolina	W	W	5,100	27,300
North Dakota	W	W	W	W
Oklahoma	--	--	W	W
Oregon	W	W	3,060	13,600
Pennsylvania	--	--	7,440	41,400
Texas	218	961	2,080	8,260
Utah	W	W	282	2,190
Vermont	--	--	W	W
Virginia	--	--	1,400	7,680
Washington	W	W	598	2,590
Wisconsin	--	--	W	W
Wyoming	W	W	219	906
Other	1,010	6,460	11,200	73,400
Total	2,060	14,100	40,200	236,000

See footnotes at end of table.

TABLE 11--Continued
 CRUSHED VOLCANIC CINDER AND SCORIA AND CRUSHED MISCELLANEOUS STONE
 SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY STATE 1/

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

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

2/ Includes slate.

3/ Data derived, in part, from Alaska Division of Geological and Geophysical Surveys information.

4/ A significant amount of sold or used material was shipped infrom other States.

TABLE 12
 KIND OF CRUSHED STONE PRODUCED AND/OR DISTRIBUTED IN THE UNITED STATES IN 2001, BY STATE

State	Limestone	Dolomite	Marble	Calcareous marl	Shell	Granite	Traprock	Sandstone	Quartzite	Slate	Volcanic cinder and scoria	Miscella- neous
Alabama	X	X	X			X		X		X		X
Alaska 1/	X		X			X	X			X		X
Arizona	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	X
Colorado	X	X				X	X	X	X		X	X
Connecticut	X	X				X	X					X
Florida	X	X			X							
Georgia	X		X			X			X			X
Hawaii	X						X					X
Idaho	X				X	X	X		X			X
Illinois	X	X						X				X
Indiana	X	X								X		
Iowa	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	X				X
Massachusetts	X	X				X	X					X
Michigan	X	X		X				X				X
Minnesota	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
New Hampshire						X	X	X				
New Jersey	X					X	X					X
New Mexico	X					X					X	X
New York	X	X	X			X	X	X		X		X
North Carolina	X	X				X	X		X	X	X	X
North Dakota	X										X	X
Ohio	X	X						X				
Oklahoma	X	X			X	X		X	X			X
Oregon	X			X	X	X	X				X	X
Pennsylvania	X	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				
Texas	X	X	X	X	X	X	X	X	X		X	X
Utah	X	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				
Wisconsin	X	X				X	X	X	X			X
Wyoming	X		X			X			X		X	X

1/ Data derived, in part, from Alaska Division of Geological and Geophysical Surveys information.

TABLE 13
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES
IN 2001, BY USE 1/

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:			
Coarse aggregate (+1 1/2 inch):			
Macadam	7,720	\$43,900	\$5.69
Riprap and jetty stone	17,400	124,000	7.08
Filter stone	5,870	35,600	6.06
Other coarse aggregate	12,400	73,600	5.93
Coarse aggregate, graded:			
Concrete aggregate, coarse	88,300	571,000	6.47
Bituminous aggregate, coarse	65,000	444,000	6.83
Bituminous surface-treatment aggregate	17,100	119,000	6.96
Railroad ballast	8,870	54,400	6.14
Other graded coarse aggregate	75,300	473,000	6.29
Fine aggregate (-3/8 inch):			
Stone sand, concrete	16,600	106,000	6.34
Stone sand, bituminous mix or seal	13,300	84,500	6.37
Screening, undesignated	25,600	143,000	5.58
Other fine aggregate	24,700	161,000	6.52
Coarse and fine aggregates:			
Graded road base or subbase	143,000	753,000	5.25
Unpaved road surfacing	18,800	105,000	5.60
Terrazzo and exposed aggregate	1,160	14,200	12.26
Crusher run or fill or waste	30,500	148,000	4.86
Roofing granules	W	W	10.25
Other coarse and fine aggregates	74,500	374,000	5.03
Other construction materials 2/	14,800	88,600	5.97
Agricultural:			
Agricultural limestone	9,760	58,200	5.96
Poultry grit and mineral food	1,040	11,100	10.64
Other agricultural uses	959	6,840	7.14
Chemical and metallurgical:			
Cement manufacture	77,800	321,000	4.13
Lime manufacture	19,700	86,900	4.40
Dead-burned dolomite manufacture	W	W	3.59
Flux stone	2,900	13,400	4.63
Chemical stone	450	4,060	9.01
Glass manufacture	323	5,800	17.96
Sulfur oxide removal	2,880	14,800	5.13
Special:			
Mine dusting or acid water treatment	115	1,390	12.04
Asphalt fillers or extenders	1,190	9,970	8.41
Whiting or whiting substitute	463	5,530	11.96
Other fillers or extenders	3,350	86,500	25.80
Other miscellaneous uses:			
Abrasives	W	W	3.64
Chemicals	W	W	8.82
Flour (slate)	W	W	49.60
Paper manufacture	W	W	4.08
Other specified uses not listed	7,450	39,100	5.25
Unspecified: 3/			
Reported	556,000	3,070,000	5.52
Estimated	250,000	1,200,000	4.92
Total	1,600,000	8,920,000	5.57

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

1/ Data are rounded to no more than three significant digits, except unit values; may not add to totals shown.

2/ Includes building products, drain fields, lightweight aggregate (slate), pipe bedding, and waste material.

3/ Reported and estimated production without a breakdown by end use.

TABLE 14
CRUSHED LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN THE
UNITED STATES IN 2001, BY USE 1/

(Thousand metric tons and thousand dollars)

Use	Limestone 2/		Dolomite	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1 1/2 inch):				
Macadam	3,190	18,000	394	2,550
Riprap and jetty stone	9,890	59,400	301	2,450
Filter stone	4,160	22,000	112	742
Other coarse aggregate	8,070	46,900	594	3,570
Coarse aggregate, graded:				
Concrete aggregate, coarse	50,400	288,000	3,920	23,800
Bituminous aggregate, coarse	39,100	242,000	3,440	22,400
Bituminous surface-treatment aggregate	9,310	55,100	943	6,180
Railroad ballast	1,400	7,060	355	2,260
Other graded coarse aggregate	53,300	325,000	2,760	18,900
Fine aggregate (-3/8 inch):				
Stone sand, concrete	9,670	55,900	544	3,770
Stone sand, bituminous mix or seal	6,940	38,500	915	6,440
Screening, undesignated	13,800	76,400	1,000	5,280
Other fine aggregate	15,300	98,700	1,450	10,500
Coarse and fine aggregates:				
Graded road base or subbase	79,100	380,000	8,120	41,300
Unpaved road surfacing	13,700	74,800	2,230	10,800
Terrazzo and exposed aggregate	184	1,720	114	797
Crusher run or fill or waste	19,200	83,200	1,020	5,550
Roofing granules	277	2,580	--	--
Other coarse and fine aggregates	46,300	228,000	9,160	43,400
Other construction materials 3/	8,530	45,800	1,420	8,240
Agricultural:				
Agricultural limestone	8,080	49,300	1,690	8,890
Poultry grit and mineral food	1,020	10,700	--	--
Other agricultural uses	869	6,080	5	126
Chemical and metallurgical:				
Cement manufacture	72,700	300,000	815	2,920
Lime manufacture	18,700	83,000	1,010	3,840
Dead-burned dolomite manufacture	W	W	W	W
Flux stone	1,850	9,110	782	3,190
Chemical stone	450	4,060	--	--
Glass manufacture	128	2,390	--	--
Sulfur oxide removal	2,880	14,800	--	--
Special:				
Mine dusting or acid water treatment	115	1,390	--	--
Asphalt fillers or extenders	1,180	9,950	--	--
Whiting or whiting substitute	431	5,160	W	W
Other fillers or extenders	2,340	69,000	W	W
Other miscellaneous uses:				
Chemicals	W	W	--	--
Paper manufacture	W	W	--	--
Other specified uses not listed	6,660	32,900	29	135
Unspecified: 4/				
Reported	333,000	1,720,000	49,500	280,000
Estimated	180,000	860,000	8,300	40,000
Total	1,030,000	5,330,000	101,000	570,000

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

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

2/ Includes a minor amount of limestone-dolomite reported without a distinction between the two.

3/ Includes drain fields, pipe bedding, and waste material.

4/ Reported and estimated production without a breakdown by end use.

TABLE 15
CRUSHED LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN 2001, BY STATE AND USE 1/

(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	2,540	16,800	7,160	44,800	1,440	8,250	121	642	7,150	46,200
Alaska	--	--	--	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--	--	--	--
Arkansas	W	W	W	W	1,840	10,300	205	1,180	1,520	7,390
California	W	W	429	2,150	172	742	W	W	179	741
Colorado	--	--	W	W	41	225	14	158	W	W
Connecticut	W	W	W	W	W	W	--	--	W	W
Florida	14,200	96,400	8,990	63,100	13,600	55,800	105	762	11,600	59,000
Georgia	2,040	14,000	1,530	10,000	1,570	8,810	W	W	695	3,070
Hawaii	W	W	W	W	W	W	--	--	W	W
Idaho	--	--	--	--	--	--	--	--	65	484
Illinois	8,750	56,100	8,080	57,700	16,500	85,600	760	6,210	4,320	21,400
Indiana	3,040	15,100	7,790	37,800	4,370	22,300	859	4,510	5,090	22,300
Iowa	1,640	11,400	1,050	6,370	6,640	38,400	216	1,890	2,380	12,600
Kansas	W	W	668	2,510	921	3,980	56	529	803	4,260
Kentucky	3,770	21,000	10,600	63,600	5,620	32,200	136	1,030	4,580	25,400
Louisiana 4/	W	W	W	W	W	W	W	W	W	W
Maine	164	729	--	--	--	--	15	70	--	--
Maryland	1,800	10,700	2,050	13,000	777	5,630	100	588	1,740	10,100
Massachusetts	W	W	--	--	--	--	--	--	286	3,080
Michigan	3,750	15,800	3,260	13,900	1,410	6,770	165	1,800	2,500	9,830
Minnesota	224	1,300	1,050	8,350	1,230	6,430	38	544	1,200	5,890
Mississippi 4/	W	W	W	W	W	W	--	--	W	W
Missouri	2,980	15,100	5,870	36,800	6,470	32,500	3,080	15,700	4,220	19,400
Montana	W	W	--	--	W	W	W	W	--	--
Nebraska	W	W	W	W	662	5,530	97	1,000	576	4,170
Nevada	W	W	--	--	W	--	--	--	--	--
New Jersey	21	300	69	1,220	36	200	--	--	201	1,660
New Mexico	W	W	W	W	W	W	1	8	137	715
New York	3,420	25,000	4,720	31,100	2,780	15,600	176	1,230	6,440	35,800
North Carolina	W	W	--	--	W	W	--	--	W	W
North Dakota	--	--	W	W	W	W	W	W	--	--
Ohio	4,550	20,100	3,860	18,900	6,490	26,200	2,160	10,400	11,700	46,000
Oklahoma	2,500	14,000	9,500	37,300	1,510	8,000	554	3,100	7,700	30,200
Oregon	--	--	--	--	18	86	--	--	2	9
Pennsylvania	3,040	18,400	9,630	59,800	6,210	36,100	568	4,050	7,990	40,800
Rhode Island	--	--	--	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--	--	--	--
Tennessee	3,550	24,900	11,800	80,300	11,100	60,100	1,050	6,470	6,110	36,100
Texas	11,200	55,500	13,100	91,200	12,800	47,600	808	4,540	7,330	32,100
Utah	W	W	W	W	108	382	71	341	41	147
Vermont	90	941	164	1,630	317	2,620	87	810	41	338
Virginia	1,650	10,800	2,030	12,700	2,000	11,800	222	1,520	3,580	16,600
Washington	--	--	W	W	W	W	W	W	W	W
West Virginia	1,890	7,630	1,270	5,920	1,260	5,110	20	130	1,340	4,860
Wisconsin	1,370	7,140	468	2,440	6,220	26,800	71	350	2,620	10,700
Wyoming	--	--	W	W	W	W	--	--	--	--
Total	78,100	459,000	115,000	703,000	114,000	564,000	11,800	69,500	104,000	511,000
Total withheld	3,130	21,400	2,680	22,200	1,360	14,300	188	1,720	771	9,570
Grand total	81,300	481,000	118,000	725,000	115,000	578,000	11,900	71,200	105,000	521,000

See footnotes at end of table.

TABLE 15--Continued
CRUSHED LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN 2001, BY STATE AND USE 1/

(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	121	706	3,270	21,100	19,600	123,000	(2/)	(2/)
Alaska	--	--	--	--	--	--	W	W	(2/)	(2/)
Arizona	W	W	--	--	--	--	1,760	9,150	4,490	23,100
Arkansas	W	W	136	1,150	W	W	4,800	24,700	(2/)	(2/)
California	12,800	57,200	W	W	--	--	13,300	78,900	27,900	145,000
Colorado	W	W	W	W	--	--	3,540	21,800	(2/)	(2/)
Connecticut	--	--	W	W	--	--	1,500	20,800	(2/)	(2/)
Florida	W	W	214	1,470	W	W	42,400	221,000	94,000 3/	509,000 3/
Georgia	--	--	W	W	--	--	4,370	27,600	10,300	64,700
Hawaii	--	--	W	W	--	--	150	1,430	274	2,620
Idaho	--	--	18	468	--	--	481	2,290	564	3,240
Illinois	2,380	18,600	1,940	8,840	--	--	37,500	200,000	80,200 3/	455,000 3/
Indiana	3,810	15,700	1,690	7,710	--	--	31,600	152,000	58,200 3/	278,000 3/
Iowa	1,100	4,020	791	3,580	W	W	21,500	109,000	(2/)	(2/)
Kansas	1,790	6,750	48	234	--	--	16,600	84,300	21,200 3/	104,000 3/
Kentucky	--	--	586	2,780	W	W	34,900	185,000	(2/)	(2/)
Louisiana 4/	--	--	W	W	--	--	W	W	(2/)	(2/)
Maine	W	W	--	--	W	W	687	4,000	1,440	7,960
Maryland	2,590	9,660	--	--	--	--	8,130	44,900	17,200 3/	94,700 3/
Massachusetts	--	--	W	W	W	W	376	13,200	(2/)	(2/)
Michigan	W	W	75	633	W	W	22,200	83,300	43,200 3/	160,000 3/
Minnesota	--	--	198	902	--	--	3,360	16,700	(2/)	(2/)
Mississippi 4/	W	W	W	W	--	--	646	5,880	2,140	21,500
Missouri	2,960	10,600	935	3,980	W	W	52,400	260,000	80,400 3/	400,000 3/
Montana	W	W	W	W	W	W	665	2,420	1,760	7,500
Nebraska	W	W	596	5,650	--	--	2,540	15,600	6,360	45,800
Nevada	W	W	W	W	W	W	3,520	15,800	(2/)	(2/)
New Jersey	--	--	64	2,200	--	--	10	141	401	5,720
New Mexico	--	--	--	--	--	--	1,460	6,570	2,240	9,690
New York	W	W	185	1,450	--	--	21,600	135,000	41,100 3/	251,000 3/
North Carolina	--	--	--	--	--	--	6,150	41,500	(2/)	(2/)
North Dakota	--	--	--	--	--	--	W	W	(2/)	(2/)
Ohio	W	W	541	2,050	W	W	43,100	201,000	75,500 3/	337,000 3/
Oklahoma	2,730	9,670	W	W	--	--	9,710	42,500	(2/)	(2/)
Oregon	1,170	4,270	--	--	--	--	135	1,750	1,330	6,110
Pennsylvania	4,720	22,200	763	8,550	1,640	6,180	37,400	210,000	72,000 3/	406,000 3/
Rhode Island	--	--	W	W	--	--	W	W	(2/)	(2/)
South Carolina	--	--	--	--	--	--	2,730	17,100	(2/)	(2/)
South Dakota	W	W	--	--	--	--	W	W	3,160	13,200
Tennessee	W	W	605	2,870	W	W	22,200	125,000	(2/)	(2/)
Texas	8,600	34,100	593	4,190	2,740	9,930	67,800	324,000	(2/)	(2/)
Utah	1,770	11,300	14	330	W	W	4,200	16,700	(2/)	(2/)
Vermont	--	--	--	--	--	--	2,190	8,960	(2/)	(2/)
Virginia	--	--	893	7,350	519	2,810	11,700	63,900	22,600 3/	128,000 3/
Washington	670	3,990	W	W	W	W	1,530	8,720	(2/)	(2/)
West Virginia	W	W	--	--	--	--	6,830	30,800	(2/)	(2/)
Wisconsin	--	--	218	2,150	W	W	20,300	79,200	31,500 3/	129,000 3/
Wyoming	--	--	--	--	--	--	881	3,200	1,500 3/	6,510 3/
Total	47,100	208,000	11,200	69,200	8,160	40,100	588,000	3,040,000	XX	XX
Total withheld	26,400	94,600	430	5,840	11,700	47,200	2,760	15,000	XX	XX
Grand total	73,500	303,000	11,700	75,100	19,900	87,300	591,000	3,050,000	1,130,000	5,900,000

W Withheld to avoid disclosing company proprietary data; included in "Total" and "Total withheld." XX Not applicable. -- Zero.

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

2/ Withheld to avoid disclosing company proprietary data; included in "Grand total."

3/ Includes limestone-dolomite reported with no distinction between the two kinds of stone.

4/ A significant amount of sold or used material was shipped in from other States.

TABLE 16
CRUSHED MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY USE

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1 1/2 inch):		
Macadam	W	W
Riprap and jetty stone	23	206
Filter stone	3	29
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Bituminous surface-treatment aggregate	9	76
Fine aggregate (-3/8 inch):		
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	W	W
Other fine aggregate	28	100
Coarse and fine aggregates:		
Terrazzo and exposed aggregate	5	32
Crusher run (select material or fill)	54	210
Other coarse and fine aggregates	41	276
Other construction materials	5	47
Special:		
Whiting or whiting substitute	23	266
Other fillers or extenders	331	2,780
Unspecified: 2/		
Reported	2,040	11,300
Estimated	5,800	34,000
Total	9,050	54,400

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

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

2/ Reported and estimated production without a breakdown by end use.

TABLE 17
CRUSHED GRANITE AND TRAPROCK SOLD OR USED BY PRODUCERS IN THE UNITED STATES
IN 2001, BY USE 1/

(Thousand metric tons and thousand dollars)

Use	Granite		Traprock	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1 1/2 inch):				
Macadam	W	W	375	2,350
Riprap and jetty stone	3,380	33,700	976	9,500
Filter stone	441	4,110	861	6,430
Other coarse aggregate	1,730	10,900	1,240	6,710
Coarse aggregate, graded:				
Concrete aggregate, coarse	25,100	191,000	7,100	57,800
Bituminous aggregate, coarse	15,600	125,000	4,840	37,300
Bituminous surface-treatment aggregate	3,370	30,000	2,860	24,000
Railroad ballast	4,090	25,200	1,940	12,300
Other graded coarse aggregate	14,900	93,600	1,870	17,200
Fine aggregate (-3/8 inch):				
Stone sand, concrete	4,930	32,400	855	9,200
Stone sand, bituminous mix or seal	2,680	19,800	1,560	11,200
Screening, undesignated	7,660	42,800	2,420	15,200
Other fine aggregate	4,400	24,600	1,370	11,100
Coarse and fine aggregates:				
Graded road base or subbase	31,000	190,000	18,600	108,000
Unpaved road surfacing	759	5,590	1,790	11,900
Terrazzo and exposed aggregate	587	7,770	W	W
Crusher run or fill or waste	5,750	35,000	3,110	17,300
Roofing granules	1,330	14,700	W	W
Other coarse and fine aggregates	9,480	46,500	5,670	33,000

See footnotes at end of table.

TABLE 17--Continued
 CRUSHED GRANITE AND TRAPROCK SOLD OR USED BY PRODUCERS IN THE UNITED STATES
 IN 2001, BY USE 1/

(Thousand metric tons and thousand dollars)

Use	Granite		Traprock	
	Quantity	Value	Quantity	Value
Construction--Continued:				
Other construction materials 2/	606	3,640	1,170	10,700
Agricultural:				
Poultry grit and mineral food	6	21	--	--
Other agricultural uses	W	W	W	W
Special:				
Asphalt fillers or extenders	--	--	4	18
Other fillers or extenders	--	--	W	W
Other miscellaneous uses and specified uses not listed	322	1,570	47	328
Unspecified: 3/				
Reported	84,500	513,000	42,200	295,000
Estimated	17,000	90,000	21,000	120,000
Total	243,000	1,560,000	122,000	819,000

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

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

2/ Includes drain fields and pipe bedding.

3/ Reported and estimated production without a breakdown by end use.

TABLE 18
 CRUSHED SANDSTONE AND QUARTZITE 1/ SOLD OR USED BY PRODUCERS IN THE
 UNITED STATES IN 2001, BY USE 2/

(Thousand metric tons and thousand dollars)

Use	Sandstone		Quartzite	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1 1/2 inch):				
Macadam	W	W	--	--
Riprap and jetty stone	2,210	13,600	126	787
Filter stone	112	1,000	W	W
Other coarse aggregate	289	2,810	174	1,010
Coarse aggregate, graded:				
Concrete aggregate, coarse	209	1,380	313	2,090
Bituminous aggregate, coarse	967	7,370	484	3,830
Bituminous surface-treatment aggregate	247	1,270	206	1,680
Railroad ballast	31	205	405	1,930
Other graded coarse aggregate	1,320	9,420	760	5,180
Fine aggregate (-3/8 inch):				
Stone sand, concrete	502	3,310	W	W
Stone sand, bituminous mix or seal	768	5,310	275	1,980
Screening, undesignated	341	1,750	W	W
Other fine aggregate	1,220	9,630	719	4,130
Coarse and fine aggregates:				
Graded road base or subbase	2,130	12,000	681	3,970
Unpaved road surfaces	126	948	W	W
Terrazzo and exposed aggregate	W	W	W	W
Crusher run or fill or waste	287	1,410	256	1,050
Roofing granules	--	--	W	W
Other coarse and fine aggregates	1,340	9,510	868	3,520
Other construction materials 3/	170	1,960	293	1,330
Agricultural, poultry grit and mineral food	--	--	W	W
Chemical and metallurgical:				
Cement manufacture	188	1,060	195	1,530
Flux stone	W	W	W	W
Glass manufacture	W	W	--	--
Special, other fillers or extenders	W	W	W	W

See footnotes at end of table.

TABLE 18--Continued
 CRUSHED SANDSTONE AND QUARTZITE 1/ SOLD OR USED BY PRODUCERS IN THE
 UNITED STATES IN 2001, BY USE 2/

(Thousand metric tons and thousand dollars)

Use	Sandstone		Quartzite	
	Quantity	Value	Quantity	Value
Other miscellaneous uses:				
Abvasives	W	W	--	--
Other uses not listed	W	W	W	W
Unspecified: 4/				
Reported	18,100	112,000	6,920	34,600
Estimated	6,400	33,000	880	4,700
Total	37,300	234,000	14,200	78,100

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

1/ Includes sandstone/quartzite.

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

3/ Includes building products.

4/ Reported and estimated production without a breakdown by end use.

TABLE 19
 CRUSHED VOLCANIC CINDER AND SCORIA AND CRUSHED MISCELLANEOUS STONE
 SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001, BY USE 1/

(Thousand metric tons and thousand dollars)

Use	Volcanic cinder and scoria		Miscellaneous stone 2/	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1 1/2 inch):				
Riprap and jetty stone	W	W	525	3,830
Filter stone	W	W	132	891
Other coarse aggregate	--	--	312	1,660
Coarse aggregate, graded:				
Concrete aggregate, coarse	W	W	962	4,330
Bituminous aggregate, coarse	--	--	483	4,280
Bituminous surface-treatment aggregate	--	--	188	937
Railroad ballast	--	--	644	5,550
Other graded coarse aggregate	--	--	412	3,870
Fine aggregate (-3/8 inch):				
Stone sand, concrete	--	--	124	844
Stone sand, bituminous mix or seal	--	--	W	W
Screening, undesignated	W	W	281	1,050
Other fine aggregate	--	--	227	2,230
Coarse and fine aggregates:				
Graded road base or subbase	193	868	2,810	13,800
Unpaved road surfacing	W	W	169	1,170
Terrazzo and exposed aggregate	W	W	W	W
Crusher run or fill or waste	19	82	738	4,300
Roofing granules	W	W	W	W
Other coarse and fine aggregates	13	47	1,130	6,860
Other construction materials 3/	296	1,380	2,340	15,500
Agricultural, other agricultural uses	W	W	--	--
Chemical and metallurgical, cement manufacture	--	--	532	2,940
Other miscellaneous uses:				
Flour (slate)	--	--	W	W
Other specified uses not listed	W	W	W	W
Unspecified: 4/				
Reported	670	4,250	18,000	98,000
Estimated	340	1,600	9,700	58,000
Total	2,060	14,100	40,200	236,000

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

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

2/ Includes slate.

3/ Includes lightweight aggregate (slate).

4/ Reported and estimated production without a breakdown by end use.

TABLE 20
 RECYCLED ASPHALT AND CONCRETE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY REGION 1/

Region/division	Recycled asphalt						Recycled concrete					
	2000			2001			2000			2001		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Northeast:												
New England	70	\$323	\$4.61	170	\$1,070	\$6.29	39	\$280	\$7.18	118	\$1,020	\$8.62
Middle Atlantic	235	1,360	5.78	182	964	5.30	395	2,130	5.39	138	660	4.78
Midwest:												
East north central	350 r/	1,760 r/	5.04 r/	118	785	6.65	707 r/	3,890 r/	5.50 r/	1,320	7,950	6.02
West north central	W	W	W	W	W	W	W	W	W	W	W	W
South:												
South Atlantic	W	W	W	--	--	--	566	4,150	7.34	693	4,670	6.73
East south central	W	W	W	W	W	W	W	W	W	W	W	W
West south central	W	W	W	W	W	W	W	W	W	W	W	W
West:												
Mountain	38	179	4.71	32	131	4.09	41	89	2.17	12	46	3.83
Pacific	383	2,820	7.36	545	3,490	6.41	507	3,060	6.03	496	3,090	6.22
Total	1,280 r/	7,290 r/	5.71 r/	1,250	7,320	5.86	2,330 r/	14,000 r/	6.00 r/	2,980	18,600	6.25

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

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

TABLE 21
 RECYCLED ASPHALT SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

State	2000			2001		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Arizona	23	\$91	\$3.96	18	\$71	\$3.94
California	354	2,210	6.24	499	3,320	6.65
Colorado	W	W	6.86	--	--	--
Connecticut	W	W	4.43	W	W	4.43
Florida	W	W	5.48	--	--	--
Hawaii	--	--	--	W	W	3.80
Idaho	7	38	5.43	9	43	4.78
Illinois	14	73	5.21	31	191	6.16
Indiana	W	W	9.51	W	W	10.37
Iowa	--	--	--	W	W	3.22
Kansas	W	W	1.67	W	W	8.67
Maine	--	--	--	136	896	6.59
Massachusetts	--	--	--	W	W	10.75
Minnesota	--	--	--	W	W	3.55
New Hampshire	W	W	4.38	W	W	3.00
New Jersey	W	W	6.07	W	W	4.96
New Mexico	W	W	W	W	W	W
New York	19	77	4.05	W	W	3.56
North Dakota	W	W	W	W	W	W
Ohio	W	W	W	W	W	W
Oklahoma	--	--	--	W	W	3.29
Oregon	W	W	W	W	W	W
Pennsylvania	114	657	5.76	120	665	5.54
South Dakota	W	W	2.23	W	W	5.71
Tennessee	9	40	4.44	7	26	3.71
Texas	W	W	4.40	W	W	13.71
Vermont	W	W	5.90	--	--	--
Washington	14	50	3.57	24	88	3.67
Wisconsin	248 r/	899 r/	3.63 r/	36	76	2.11
Total	1,280 r/	7,290 r/	5.71 r/	1,250	7,320	5.86

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

TABLE 22
 RECYCLED CONCRETE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

State	2000			2001		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Alabama	W	W	\$6.24	W	W	\$8.31
California	500	\$3,020	6.04	432	\$2,710	6.27
Colorado	W	W	5.50	--	--	--
Connecticut	39	278	7.13	27	211	7.81
Florida	142	1,220	8.58	171	1,260	7.39
Georgia	W	W	5.31	W	W	4.00
Hawaii	W	W	6.20	W	W	10.82
Idaho	3	21	7.00	2	9	4.50
Illinois	645	3,740	5.80	1,290	7,870	6.08
Indiana	W	W	W	--	--	--
Louisiana	W	W	8.88	--	--	--
Maine	--	--	--	W	W	6.71
Massachusetts	--	--	--	84	758	9.02
Minnesota	--	--	--	83	340	4.10
Mississippi	W	W	11.00	W	W	W
New Hampshire	W	W	W	W	W	W

See footnotes at end of table.

TABLE 22--Continued
 RECYCLED CONCRETE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

State	2000			2001		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
New Jersey	218	\$1,330	\$6.10	10	\$43	\$4.30
New Mexico	W	W	1.58	W	W	3.70
New York	W	W	4.47	W	W	4.61
North Carolina	24	199	8.29	12	153	12.75
North Dakota	W	W	W	W	W	8.83
Ohio	W	W	1.43	--	--	--
Oregon	W	W	3.50	W	W	4.00
Pennsylvania	25	122	4.88	35	184	5.26
South Dakota	W	W	2.19	W	W	5.47
Texas	W	W	4.44	W	W	W
Virginia	W	W	7.84	W	W	7.83
Washington	--	--	--	W	W	4.02
Wisconsin	W r/	W r/	2.88 r/	W	W	2.88
Total	2,330 r/	14,000 r/	6.00 r/	2,980	18,600	6.25

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

TABLE 23
 CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2001,
 BY REGION AND METHOD OF TRANSPORTATION 1/

(Thousand metric tons)

Region/division	Truck	Rail	Water	Other	Not transported	Not specified	Total
Northeast:							
New England	4,190	W	--	W	3,790	31,100	39,700
Middle Atlantic	69,700	1,610	--	1,030	8,400	100,000	181,000
Midwest:							
East north central	114,000	8,760	21,700	2,270	14,100	134,000	295,000
West north central	41,500	1,400	W	W	4,310	108,000	162,000
South:							
South Atlantic	183,000	20,700	W	W	17,500	158,000	382,000
East south central	71,900	W	--	W	10,600	84,000	170,000
West south central	66,600	10,600	W	W	6,060	119,000	210,000
West:							
Mountain	20,000	W	--	W	809	31,300	55,800
Pacific	37,100	2,190	880	1,780	6,290	56,300	105,000
Total	608,000	47,800	33,700	18,000	71,900	822,000	1,600,000

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

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

TABLE 24
 CRUSHED AND BROKEN STONE OPERATIONS IN THE UNITED STATES IN 2001, BY STATE

State	Active operations	Active quarries	Dredging operations	Processing plants			Sales yards	
				Stationary	Portable	Stationary and portable		None or unspecified
Alabama	72	62	--	51	9	1	1	10
Alaska 1/	15	15	--	--	12	3	--	--
Arizona	46	49	--	15	25	1	5	--
Arkansas	58	56	--	32	15	4	5	2
California	143	146	1	67	52	14	7	3
Colorado	39	46	--	18	13	6	2	--

See footnotes at end of table.

TABLE 24--Continued
CRUSHED AND BROKEN STONE OPERATIONS IN THE UNITED STATES IN 2001, BY STATE

State	Active operations	Active quarries	Dredging operations	Processing plants				Sales yards
				Stationary	Portable	Stationary and portable	None or unspecified	
Connecticut	22	21	--	17	3	1	--	1
Florida	92	87	1	36	30	11	4	10
Georgia	84	79	--	76	2	--	1	5
Hawaii	22	21	--	11	8	2	--	1
Idaho	45	65	--	9	26	3	6	1
Illinois	142	137	--	78	47	9	1	7
Indiana	91	85	--	72	4	8	--	7
Iowa	209	224	--	28	170	2	3	6
Kansas	97	114	--	25	60	3	9	--
Kentucky	96	95	--	81	4	7	2	2
Louisiana	17	2	1	--	1	--	--	15
Maine	19	17	--	9	8	--	--	2
Maryland	32	31	1	23	3	2	1	2
Massachusetts	37	35	--	22	6	6	1	2
Michigan	32	31	--	17	7	2	5	1
Minnesota	37	48	--	5	25	1	6	--
Mississippi	18	3	--	1	1	1	--	15
Missouri	193	200	--	99	80	11	3	--
Montana	20	25	--	7	11	--	2	--
Nebraska	11	11	--	8	2	1	--	--
Nevada	16	31	--	12	3	--	1	--
New Hampshire	13	17	--	11	2	--	--	--
New Jersey	26	26	--	16	2	7	1	--
New Mexico	31	34	--	12	15	2	2	--
New York	101	102	--	78	9	10	4	--
North Carolina	108	102	--	90	9	1	2	6
North Dakota	5	6	--	--	1	--	4	--
Ohio	113	111	--	86	13	10	1	3
Oklahoma	58	58	--	45	4	7	1	1
Oregon	149	185	1	34	95	7	12	--
Pennsylvania	193	201	1	150	16	15	10	1
Rhode Island	7	7	--	6	1	--	--	--
South Carolina	41	33	--	27	1	3	2	8
South Dakota	10	9	--	8	1	--	--	1
Tennessee	124	120	--	110	7	2	1	4
Texas	167	152	--	85	43	10	4	25
Utah	31	33	--	14	16	--	1	--
Vermont	15	15	--	7	4	2	2	--
Virginia	117	98	--	87	3	5	1	21
Washington	102	125	--	29	39	8	26	--
West Virginia	47	39	--	30	4	2	1	10
Wisconsin	145	159	--	28	104	4	8	1
Wyoming	13	18	--	5	7	--	1	--
Total	3,321	3,386	6	1,777	1,023	194	149	173

1/ Data derived, in part, from Alaska Division of Geological and Geophysical Surveys.

TABLE 25
U.S. EXPORTS OF CRUSHED STONE IN 2001, BY DESTINATION 1/

(Metric tons, unless otherwise specified)

Destination	Limestone for cement manufacturing	Other	Chalk, crude	Granules, chippings	Total
North America:					
Bahamas, The	414	--	1	--	415
Barbados	--	--	--	795	795
Bermuda	120	--	--	105	225
British Virgin Islands	--	--	--	11	11

See footnotes at end of table.

TABLE 25--Continued
U.S. EXPORTS OF CRUSHED STONE IN 2001, BY DESTINATION 1/

(Metric tons, unless otherwise specified)

Destination	Limestone for cement manufacturing	Other	Chalk, crude	Granules, chippings	Total
North America--Continued:					
Canada	4,220,000	857	2,390	99,300	4,320,000
Costa Rica	--	--	20	94	114
Dominican Republic	82	--	--	41	123
Guatemala	--	--	2	--	2
Honduras	27	--	--	--	27
Mexico	84	1	1	9,060	9,140
Nicaragua	--	--	--	2	2
Panama	7	--	--	--	7
Total	4,220,000	858	2,410	109,000	4,330,000
South America:					
Argentina	--	--	--	1,250	1,250
Brazil	--	33	--	--	33
Chile	--	--	13	--	13
Colombia	40	--	--	3	43
Venezuela	10	25	--	--	35
Total	50	58	13	1,260	1,380
Europe:					
Austria	--	--	--	18	18
Belgium	--	56	2	--	58
Estonia	--	--	--	1	1
Finland	--	2	--	--	2
France	11	95	--	14	120
Germany	4,160	590	--	--	4,750
Hungary	9	--	--	--	9
Ireland	--	15	--	--	15
Italy	--	10	--	70	80
Netherlands	--	3,260	--	--	3,260
Norway	--	--	--	763	763
Poland	--	1	--	--	1
Switzerland	1	71	--	--	72
Turkey	--	--	6	--	6
United Kingdom	21	73	13	594	701
Total	4,200	4,170	21	1,460	9,850
Asia:					
China	100	153	--	20	273
Hong Kong	58	2	--	--	60
Japan	--	168	1	8	177
Korea, Republic of	223	1,820	7	392	2,440
Malaysia	--	1	489	--	490
Philippines	290	--	12	--	302
Singapore	20	78	--	1	99
Taiwan	9	65	--	1,300	1,370
Thailand	--	--	--	343	343
Total	700	2,280	510	2,060	5,550
Oceania, Australia	54	--	10	14,800	14,900
Middle East:					
Israel	--	--	17	--	17
Lebanon	--	--	2	--	2
Saudi Arabia	--	--	--	52	52
United Arab Emirates	1	--	15	1,870	1,890
Total	1	--	34	1,920	1,960
Africa:					
Egypt	3	--	--	--	3
South Africa	--	--	--	16	16
Total	3	--	--	16	19
Grand total	4,220,000	7,370	3,000	131,000	4,370,000
Total value thousands	\$12,900	\$10,100	\$1	\$12,500	\$35,600

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 26
U.S. IMPORTS OF CRUSHED STONE AND CALCIUM CARBONATE FINES, BY TYPE 1/

Type	2000			2001		
	Quantity (thousand metric tons)	C.i.f. value 2/ (thousands)	Unit value	Quantity (thousand metric tons)	C.i.f. value 2/ (thousands)	Unit value
Crushed stone and chips:						
Limestone	7,210	\$60,100	\$8	7,460	\$62,600	\$8
Limestone for flux or cement manufacturing	4,190	28,200	7	3,440	23,700	7
Quartzite	1	470	470	1	657	657
Other	1,620	15,900	10	2,480	23,200	9
Total	13,000	105,000	XX	13,400	110,000	XX
Calcium carbonate fines: 3/						
Natural chalk	(4/)	51	--	(4/)	25	--
Calcium carbonates other chalk	1	647	647	(4/)	325	--
Total	1	698	XX	(4/)	349	XX
Grand total	13,000	105,000	XX	13,400	110,000	XX

XX Not applicable. -- Zero.

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

2/ Cost, insurance, and freight value.

3/ Excludes precipitated calcium carbonates.

4/ Less than 1/2 unit.

Source: U.S. Census Bureau.

FIGURE 1
 PRODUCTION OF CRUSHED STONE IN THE UNITED STATES IN 2001, BY GEOGRAPHIC DIVISION

