



2009 Minerals Yearbook

STONE, CRUSHED [ADVANCE RELEASE]

STONE, CRUSHED

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A total 1.17 billion metric tons (Gt) of crushed stone was produced for consumption in the United States in 2009, nearly 20% less than the total production of 2008 and 34% less than the record high of 1.78 Gt in 2006. This was the lowest level of crushed stone produced for consumption in the United States since 1993. In 2009, the total value of crushed stone produced in the United States was \$11.3 billion, a decrease of 17% compared with that of 2008 (table 1). The average unit price for crushed stone increased 4% compared with the average unit price for 2008 and increased 13% compared with that of 2007. The increase in unit prices partially offset the impact of the large decrease in production, but the total value of the crushed stone produced in 2009 was only about the same as the total value in 1996.

About 68% of crushed stone production continued to be limestone and dolomite, followed by (in descending order of tonnage) granite, miscellaneous stone, traprock, sandstone and quartzite, volcanic cinder and scoria, marble, calcareous marl, slate, and shell (table 2).

Foreign trade in crushed stone remained relatively small compared to nationwide consumption. In 2009, U.S. exports increased slightly to 1.26 million metric tons (Mt) compared with 1.24 Mt in 2008, but the value decreased by 5% to \$58.3 million, compared with \$61.6 million in 2008 (tables 1, 17). U.S. imports of crushed stone, including calcium carbonate fines, decreased by 41% to 12.2 Mt, and the value decreased by 25% to \$174 million compared with the 2008 totals (tables 1, 18). Apparent domestic consumption of crushed stone, which is defined as production for consumption (sold or used) plus recycling and imports minus exports, decreased by 20% to 1.21 Gt compared with 1.51 Gt in 2008 because of lower demand resulting from the U.S. economic recession.

Stone is one of the most accessible natural resources of the Earth and one of the fundamental building blocks of society. It has been used from the earliest times of civilization for a variety of uses that have increased in number and complexity with time and technological progress. Today, in its crushed form, stone is a major basic raw material for the construction industry, as well as agriculture and other industries that use complex chemical and metallurgical processes. Despite the relatively low, but increasing, 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. Construction aggregates are defined as the combination of crushed stone and construction sand and gravel. The construction sand and gravel industry is reviewed in a separate chapter, and both mineral commodities are usually included in any review of the national or State aggregates industry.

Production

Domestic production data for crushed stone were derived by the U.S. Geological Survey (USGS) from voluntary surveys of U.S. producers. In 2009, a total of 1,606 companies produced

or sold crushed stone from 3,788 operations with 3,968 quarries and 195 sales and/or distribution sites. Of the 3,788 active operations, 2,272 operations reported their production or sales to the USGS, and their total production was 819 Mt (70% of the U.S. total). Of the 2,272 reporting operations, 1,155 operations owned by 306 companies did not report a breakdown by end use. Their total production was 432 Mt (37% of the U.S. total) and is included in table 9 under "Unspecified, reported" uses.

Production of the nonresponding quarries was estimated by using employment data provided by the Mine Safety and Health Administration (MSHA). The estimated output of 1,510 nonrespondent operations owned by 971 companies was 346 Mt (30% of the U.S. total) and is included in table 9 under "Unspecified, estimated" uses.

A total of 195 sales yards were active in 2009, and their total output was 39.0 Mt. Information regarding the number of active operations, including recycling operations, active quarries, type of processing plants, and number of sales yards by State is provided in table 16.

Crushed stone was produced in every State except Delaware. Starting with 2005, Delaware's production is included in the U.S. total because of sales yards that reported sales of crushed stone in the State. The 10 leading producing States were, in descending order of tonnage, Texas, Pennsylvania, Missouri, Illinois, Florida, Georgia, Kentucky, Indiana, Ohio, and Virginia. The combined production of the 10 leading States decreased by 21% and was 584 Mt, one-half of the national total.

There are 91 underground mines included in the total number of active operations, and they produced 65.1 Mt of crushed stone in 2009. Active underground mines were located in 17 States. The five leading States were, in descending order of tonnage, Kentucky, Illinois, Missouri, Pennsylvania, and Iowa. Their combined production was 46.6 Mt (72% of the total U.S. crushed stone produced underground).

A total of 939 operations were either idle or presumed to have been idle in 2009 because no production report was received, and no employment information was available to estimate their production. Since the 2008 survey, 255 operations have closed. Most of the idle or closed operations were small, temporary quarries, some of which were operated by State or local governments. Operations in U.S. territories are not included in the above count.

Of the total 1.17 Gt of crushed stone produced for consumption in the United States in 2009, 68% was limestone and dolomite; 14% was granite; 6% was traprock; 5% was miscellaneous stone; and 4% was sandstone and quartzite. The remaining 3% was shared, in descending order of tonnage, by marble, volcanic cinder and scoria, slate, calcareous marl, and shell. These percentages were calculated on the total amount of crushed stone produced for consumption that was reported, including individual amounts that were withheld to avoid disclosing company proprietary data.

A review of production by size of operation at the national level indicates that, in 2009, 436 Mt of crushed stone (37% of the total crushed stone) was produced by 260 operations reporting production of more than 1 million metric tons per year; 304 Mt was produced by 490 operations reporting production between 500,000 and 999,999 metric tons per year (t/yr); and 376 Mt was produced by 1,598 operations reporting production between 100,000 and 499,999 t/yr. The production by size of operation information also indicates that 63% of total crushed stone produced in the United States in 2009 came from operations that produced more than 500,000 t/yr (table 5a). By geographic region, in 2009, the South had 1,336 active operations, followed by the Midwest with 1,093, the West with 801, and the Northeast with 587 active operations (table 5b).

The leading U.S. producing companies in 2009 were, in descending order of tonnage, Vulcan Materials Co.; Martin Marietta Aggregates; Lehigh Hanson, Inc.; Oldcastle Materials, Inc.; CEMEX S.A.B. de C.V.; Lafarge North America Inc.; Rogers Group, Inc.; Holcim Group/Aggregate Industries Management, Inc.; Carmeuse Lime & Stone; and New Enterprise Stone & Lime Co., Inc. The combined production of the top 10 companies was 513 Mt (44% of the national total). The combined production of the top 100 companies was 837 Mt (72% of the national total).

Merger and acquisition activity in the U.S. construction aggregates industry, after the huge acquisitions that took place in 2007, slowed to a much lower level in 2008 and virtually came to a stop by the start of 2009. The lack of activity continued through 2009 as companies focused resources on restructuring debt, raising capital, and strengthening core assets (Aggregates Manager, 2010).

Production of crushed stone by type is detailed below.

Calcareous Marl.—Output of calcareous marl decreased 29% compared with that of 2008 to 2.5 Mt valued at \$14.0 million (table 2).

Dolomite.—Production of dolomite decreased by 23% compared with the total for 2008 to 45.7 Mt valued at \$447 million (table 2). Crushed dolomite production was reported in 25 States. The leading producing States were, in descending order of tonnage, Illinois, Pennsylvania, New York, Michigan, and Indiana; the total production of these five States was 38.9 Mt (85% of the U.S. output) (table 6). An additional undetermined amount of dolomite is included in the total crushed limestone, as explained in the limestone portion of the “Production” section.

Granite.—The output of crushed granite decreased by 23% compared with that of 2008 to 155 Mt valued at \$1.9 billion (table 2). Crushed granite was reported as being produced in 34 States. The leading producing States were, in descending order of tonnage, Georgia, North Carolina, Virginia, South Carolina, and California; the total production of these five States was 107 Mt (69% of the U.S. output) (table 7).

Limestone.—The output of crushed limestone, including some dolomite, decreased by 21% compared with that of 2008 to 747 Mt valued at \$6.6 billion (table 2). Limestone was reported as being produced in 47 States, and companies in 24 States reported producing limestone and dolomite from the same quarries. Their production of about 18.6 Mt of limestone and dolomite combined

is included with the limestone listed in table 2. The limestone totals listed in this chapter, therefore, include an undetermined amount of dolomite in addition to the dolomite reported separately. The leading producing States were (in descending order of tonnage) Texas, Missouri, Florida, Pennsylvania, Illinois, and Kentucky; the total production of these six States was 343 Mt (46% of the total U.S. output) (table 6).

Marble.—Production of crushed marble increased by 51% compared with the total for 2008 to 5.5 Mt valued at \$81.7 million (table 2). Crushed marble production was reported in 16 States.

Miscellaneous Stone.—This category includes three different types of miscellaneous crushed stone production. The first type is a crushed stone which is reported by the company as “other” on the survey form or as a type of stone not listed on table 2. The second type is production of unknown stone type from a company or operation that is new to the survey. The first year a new operation is on the survey, it usually does not respond, and its production must be estimated using MSHA employment data. The type of stone produced is updated when a response is received from the operation and the data are revised for the next report. The third type is production of a known rock type when the amount reported must be withheld to protect company proprietary data. The concealed amount is added to the quantity of miscellaneous stone produced in that State and then published.

The output of miscellaneous stone decreased by 8% compared with the total for 2008 to 85.4 Mt, valued at \$806 million (table 2). In 2009, the reported amount of miscellaneous stone accounted for 75% of the total output of miscellaneous stone and 69% of its value. The remaining 25% (21.7 Mt) of the total output consisted of known stone for which data were withheld. Of the 21.7 Mt, 68% was limestone, granite, and marble, with the remaining 32% consisting of (in descending order of tonnage) traprock, sandstone and quartzite, slate, volcanic cinder and scoria, shell, and calcareous marl.

Sandstone and Quartzite.—The output of crushed sandstone and quartzite decreased by 9% compared with the total for 2008 to 43.9 Mt, valued at \$414 million (table 2). Crushed sandstone production was reported in 30 States, while quartzite was produced in 16 States. The leading producing States were (in descending order of combined tonnage of sandstone and quartzite) Pennsylvania, Arkansas, Texas, New York, and South Dakota. Their combined total production was 28.9 Mt (66% of the U.S. output) (table 7).

Shell.—Shell is derived mainly from fossil reefs or oyster shell banks. The output of crushed shell decreased by 13% compared with the total for 2008 to 0.4 Mt, valued at \$5.3 million (table 2). Crushed shell was reported as being produced in 2 States.

Slate.—The output of crushed slate decreased by 35% compared with that of 2008 to 2.4 Mt, valued at \$22.8 million (table 2). Crushed slate was produced in 11 States, with Pennsylvania accounting for about 37% of the total U.S. output.

Traprock.—Production of crushed traprock decreased by 28% compared with the total for 2008 to 70.3 Mt, valued at \$957 million (table 2). Traprock was reported as being produced in 30 States. The leading producing States were (in descending order

of tonnage) New Jersey, Virginia, Oregon, Washington, and Pennsylvania; these five States produced 33.7 Mt (48% of U.S. output) (table 7).

Volcanic Cinder and Scoria.—Production of volcanic cinder and scoria increased by 42% compared with the total for 2008 to 8.2 Mt, valued at \$46.7 million (table 2). Volcanic cinder and scoria production was reported in 13 States, with the top producing State of Wyoming accounting for 84% of U.S. output (table 8).

Consumption

Crushed stone production reported to the USGS is actually material that was either sold to other companies or consumers or was used by the 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 category. The estimated production of nonrespondents is included in the “Unspecified, estimated” use category.

In 2009, U.S. apparent consumption of crushed stone, which is defined as U.S. production plus imports and recycled material minus exports, was 1.21 Gt, a 20% decrease compared with the apparent consumption in 2008. Of the 1.21 Gt of crushed stone consumed, 307 Mt (25%) was “Unspecified, reported,” and 346 Mt (29%) was “Unspecified, estimated.” Of the remaining consumption reported by uses, 82% was used as construction aggregate, mostly for highway and road construction and maintenance, as well as for a wide variety of building and other nonbuilding construction; 10% for cement manufacturing; 2% for lime manufacturing; 2% for agricultural uses; and 4% for special and miscellaneous uses and products (table 9). Where end uses were unspecified, quantities were redistributed to end uses according to the distributions of reported data.

In 2009, the value of the total construction put in place decreased by 15% compared with that of 2008 to \$908 billion, as reported by the U.S. Census Bureau (2010). The value of total private construction decreased by 22% to \$592 billion, while the value of total public construction increased slightly to \$315 billion. The value of private construction dropped to its lowest level since 1999.

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

The recycling of many materials is increasing, and aggregates producers are increasingly recycling more cement concrete and asphalt concrete materials recovered from construction projects to be reused to produce aggregate materials, especially fill and road base. The recycling of cement concrete is done at some quarries and increasingly at sales yards or distribution sites, whereas asphalt concrete often is recycled in place.

Recycled Asphalt.—Companies in 49 States reported a total of 16.0 Mt of recycled asphalt, valued at \$169 million in 2009 (table 14). The leading recycling States were (in descending order of tonnage) California, Illinois, Kansas, Pennsylvania, and Florida. Their combined total was 6.4 Mt, an increase of 26% compared with their combined total of 2008.

Recycled Concrete.—A total of 13.0 Mt of recycled concrete valued at \$102 million was reported as recycled in 49 States (table 15). The leading recycling States for 2009 were (in descending order of tonnage) California, Illinois, Michigan, Texas, and Minnesota. Their combined total was 5.6 Mt, a decrease of 22% compared with their combined total of 2008.

Prices

Prices in this chapter are the annual average free on board plant prices, usually at the first point of sale or captive use, as reported by the crushed stone producing companies. 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. In 2009, 832 operations responding to the annual survey reported the dollar value of their production for the current and previous year. The average unit value for operations reporting production and value was \$9.92 per metric ton in 2009. This was an increase of 3% compared with the average unit value of \$9.66 per ton in 2008. The annual reports of the top U.S. producing companies reported nearly a 2% to 3% price increase in 2009, compared with prices in 2008. For those operations that reported production only, the unit values of total production or specific end uses were estimated based on what other operations in the same State reported. The average unit value for specific end uses within a State was used in the estimation of value for operations reporting specific end uses. The State average was used in the estimation for operations reporting total production but not total value.

Additional information regarding prices of crushed stone by type of rock and uses in the United States and each State and the State districts may be found throughout the tables included in this chapter and in the USGS Minerals Yearbook, volume II, Area Reports: Domestic.

Transportation

For 702 Mt of the 1.17 Gt of crushed stone produced for consumption in 2009, no means of transportation was reported by the producers. Of the remaining 464 Mt of crushed stone, 75% was reported as being transported by truck from the quarry or the processing plant to the first point of sale or use; 7% by rail, and 7% by waterway. About 41.6 Mt of the specified production was reported as not having been transported and, therefore, is assumed to have been used onsite.

Shipment by truck remains the most widely used method of transportation for crushed stone. The significant increase in the number of sales and distribution yards in the past few years and the increase in the volume of crushed stone going through these sites have had a positive impact on the industry and the communities they serve. Distribution sites, supplied by rail or

waterway, are located near metropolitan areas and significantly reduce the distance most trucks must travel to pick up and deliver crushed stone. Therefore, the transportation costs are reduced, as is the impact of heavy traffic on the infrastructure and the environment. Sales yards serve to distribute products and, increasingly, also serve as recycling sites.

Foreign Trade

The widespread distribution of domestic deposits of stone suitable for mining as crushed stone, the large number of existing active operations around the country, and the high cost of transportation limit foreign trade to mostly local transactions across international boundaries. U.S. imports and exports continue to be small, representing slightly more than 1% of domestic consumption.

Information on imports of crushed stone used for this report was derived from two sources. The primary source was import and export data from the U.S. Census Bureau (tables 1, 17–18). Additionally, companies also provided import data when reporting the amount sold or used for consumption at each operation, usually a sales yard. The tonnage reported was attributed to the State where it was first sold or used; for example, crushed stone imported to Florida from Mexico was counted in the total of crushed stone sold or used in Florida (table 4). This was the same accounting practice used for large amounts of crushed stone which were transported from one State to another. For example, crushed stone mined in Kentucky and shipped down the Mississippi River to be used in Louisiana was included in the total of crushed stone sold or used in Louisiana.

Exports.—Exports of crushed stone increased slightly to 1.26 Mt compared with the total of 1.24 Mt in 2008, but the value decreased by 5% to \$58.3 million. In 2009, exports of crushed limestone for cement manufacturing averaged a unit value of \$24.96 per ton (table 17).

Imports.—Imports of crushed stone decreased by 41% to 12.2 Mt compared with those of 2008, and the value decreased by 25% to \$174 million. Of the imported crushed stone, almost all of the limestone was used as construction aggregate, as flux stone, and in cement manufacturing (table 18).

Outlook

The crushed stone industry is a cyclical business, reacting to the levels of activity in public infrastructure projects, commercial and residential construction markets, and other types of construction. The residential construction slowdown in the United States was well documented and contributed to decreased consumption of crushed stone. By almost any economic measure, 2009 was an extremely difficult year for the construction industry. The decline in residential construction was expected to level off in 2010.

Many construction aggregates producers expect that their production levels would start to recover in 2010 and are cautiously predicting that demand could be flat or increase slightly. If demand does increase in 2010, it is predicted to increase at the historical average of the last 50 years or 2%

to 4% from the 2009 level. Recovery or growth in demand is expected to be from stimulus-related construction activity and improvements in residential construction. In the past, industry experts have indicated that crushed stone consumed in commercial construction combined with State highway and infrastructure projects would help offset any of the continuing decrease in demand of residential construction. For 2010, it is predicted that if commercial construction remains at current levels, then infrastructure investments will drive the recovery.

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TABLE 1
SALIENT CRUSHED STONE STATISTICS¹

(Thousand metric tons and thousand dollars)

	2005	2006	2007	2008	2009
<u>Sold or used by producers:²</u>					
Quantity	1,700,000	1,780,000	1,650,000	1,460,000 ^r	1,170,000
Value	12,400,000	14,300,000	14,100,000	13,600,000 ^r	11,300,000
<u>Recycle:</u>					
Quantity	14,400	15,400	20,100	29,100 ^r	29,000
Value	99,200	111,000	150,000	252,000 ^r	272,000
<u>Exports:</u>					
Quantity	1,260	1,140	1,020	1,240	1,260
Value	50,500	57,300	62,500	61,600	58,300
<u>Imports for consumption:³</u>					
Quantity	21,000	19,800	19,500	20,900	12,200
Value	194,000	206,000	212,000	232,000	174,000

^rRevised.

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

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

³Excludes precipitated calcium carbonate.

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

Type	2008				2009			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone ³	2,250 ^r	944,000 ^r	\$8,110,000 ^r	\$8.60 ^r	2,147	747,000	\$6,620,000	\$8.87
Dolomite	136 ^r	59,400 ^r	529,000 ^r	8.91 ^r	124	45,700	447,000	9.77
Marble	11 ^r	3,600 ^r	53,500 ^r	14.89 ^r	27	5,450	81,700	15.01
Calcareous marl	3	3,500	19,700	5.62	3	2,480	14,000	5.62
Shell	3	475	3,710	7.82	5	414	5,310	12.82
Granite	412 ^r	200,000 ^r	2,310,000 ^r	11.53 ^r	407	155,000	1,890,000	12.20
Traprock	367 ^r	97,200 ^r	1,240,000 ^r	12.76 ^r	330	70,300	957,000	13.61
Sandstone and quartzite ⁴	213 ^r	48,100 ^r	453,000 ^r	9.41 ^r	215	43,900	414,000	9.43
Slate	44 ^r	3,630 ^r	32,300 ^r	8.90 ^r	34	2,380	22,800	9.57
Volcanic cinder and scoria	45 ^r	5,770 ^r	43,200 ^r	7.48 ^r	42	8,170	46,700	5.72
Miscellaneous stone	592 ^r	92,600 ^r	845,000 ^r	9.13 ^r	634	85,400	806,000	9.44
Total or average	XX	1,460,000 ^r	13,600,000 ^r	9.36 ^r	XX	1,170,000	11,300,000	9.70

^rRevised. XX Not applicable.

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

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

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

⁴Includes sandstone-quartzite reported with no distinction between the two kinds of stone.

TABLE 3
CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY GEOGRAPHIC DIVISION^{1,2}

(Thousand metric tons and thousand dollars)

Region/division	2008 ^f		2009	
	Quantity	Value	Quantity	Value
Northeast:				
New England	37,600	385,000	34,100	376,000
Middle Atlantic	160,000	1,680,000	135,000	1,510,000
Total	197,000	2,060,000	169,000	1,880,000
Midwest:				
East North Central	226,000	1,780,000	187,000	1,500,000
West North Central	162,000	1,340,000	138,000	1,240,000
Total	388,000	3,130,000	325,000	2,750,000
South:				
South Atlantic	310,000	3,690,000	228,000	2,860,000
East South Central	153,000	1,340,000	124,000	1,220,000
West South Central	237,000	1,800,000	183,000	1,400,000
Total	700,000	6,830,000	535,000	5,470,000
West:				
Mountain	71,100	545,000	57,700	440,000
Pacific	102,000	1,080,000	79,800	764,000
Total	173,000	1,620,000	138,000	1,200,000
Grand total	1,460,000	13,600,000	1,170,000	11,300,000

^fRevised.

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

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

TABLE 4
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE AND TERRITORIES¹

State	2008 ^f			2009		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Alabama	50,000 ²	\$370,000	\$7.40	36,400	\$332,000	\$9.11
Alaska	1,990	31,400	15.81	1,940	34,800	17.93
Arizona	15,300	153,000	9.97	9,120	80,000	8.77
Arkansas	32,200 ²	241,000	7.49	30,000	217,000	7.23
California	51,400	572,000	11.13 ²	41,400	378,000	9.13
Colorado	9,590	71,300	7.44	6,970	63,200	9.06
Connecticut	9,640	106,000	10.95	8,030	101,000	12.53
Delaware ³	W	W	W	W	W	W
Florida	68,400	894,000	13.06	48,600	643,000	13.23
Georgia	61,900 ²	666,000 ²	10.76 ²	45,100	518,000	11.49
Hawaii	7,410	134,000	18.04	5,920	101,000	17.07
Idaho	5,950	38,800	6.51 ²	4,410	30,800	7.00
Illinois	67,600	613,000	9.07 ²	56,500	513,000	9.07
Indiana	51,800	352,000	6.79	44,100	290,000	6.57
Iowa	38,700	312,000	8.05	32,600	297,000	9.12
Kansas	23,100	180,000 ²	7.80 ²	17,200	143,000	8.34
Kentucky	52,700	422,000	8.02	44,300	389,000	8.78
Louisiana ³	W	W	W	W	W	W

See footnotes at end of table.

TABLE 4—Continued
 CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE AND TERRITORIES¹

State	2008 [†]			2009		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Maine	4,020	33,900	8.42 ²	3,600	31,600	8.79
Maryland	26,100	237,000	9.08 ²	22,300	200,000	8.95
Massachusetts	11,200	130,000	11.58 ²	10,500	122,000	11.59
Michigan	26,100	136,000	5.20	20,400	115,000	5.66
Minnesota	10,300	122,000	11.76	8,670	110,000	12.73
Mississippi ³	4,380 ²	88,800 ²	20.29 ²	3,130	63,400	20.25
Missouri	76,400	614,000	8.04	67,700	598,000	8.83
Montana	1,980	14,000	7.05	1,990	20,400	10.25
Nebraska	7,960 ²	78,100 ²	9.81 ²	6,340	59,700	9.42
Nevada	10,200	95,100	9.31 ²	8,290	90,500	10.92
New Hampshire	5,170 ²	50,900 ²	9.83 ²	4,680	47,000	10.06
New Jersey	17,900 ²	155,000 ²	8.66 ²	14,500	124,000	8.51
New Mexico	7,020	43,400	6.18	6,130	40,200	6.56
New York	41,000	384,000	9.37	37,200	410,000	11.03
North Carolina	57,500 ²	806,000 ²	14.03 ²	38,500	584,000	15.15
North Dakota	26 ²	133 ²	5.12 ²	985	3,980	4.04
Ohio	54,100	446,000	8.25 ²	42,700	388,000	9.08
Oklahoma	47,200	345,000	7.32 ²	36,800	308,000	8.35
Oregon	23,500	174,000	7.40	15,800	119,000	7.52
Pennsylvania	101,000	1,140,000 ²	11.26	83,000	975,000	11.74
Rhode Island	1,840	17,900	9.70 ²	1,820	20,200	11.10
South Carolina	22,500 ²	235,000 ²	10.41 ²	18,200	201,000	11.04
South Dakota	5,390 ²	34,300 ²	6.37 ²	4,450	29,300	6.58
Tennessee	46,200 ²	461,000 ²	9.97 ²	40,100	431,000	10.75
Texas	150,000	1,100,000	7.34	110,000	782,000	7.09
Utah	8,950	72,700	8.13	4,830	39,400	8.17
Vermont	5,690	47,500	8.34	5,430	54,900	10.13
Virginia	57,400	712,000	12.40	42,200	577,000	13.67
Washington	17,500	168,000	9.60	14,700	131,000	8.92
West Virginia	15,200	127,000	8.36	12,500	126,000	10.04
Wisconsin	25,900 ²	238,000	9.16 ²	22,900	198,000	8.63
Wyoming	12,100 ²	57,100 ²	4.72 ²	16,000	75,400	4.71
Other	8,760	128,000	14.56 ²	6,550	102,000	15.59
U.S. total or average	1,460,000	13,600,000	9.36	1,170,000	11,300,000	9.68
Territory						
American Samoa ⁴	(5)	(5)	(5)	(5)	(5)	(5)
Guam	325 ²	3,780 ²	11.62 ²	296	3,380	11.41
Puerto Rico	11,000	96,000	8.74	8,370	68,700	8.22
Virgin Islands	(5)	(5)	(5)	(5)	(5)	(5)
Grand total or average	1,470,000	13,700,000	9.35	1,180,000	11,400,000	9.69

[†]Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."

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

²Data not revised.

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

⁴Includes Tutuila Island and dependencies.

⁵Withheld to avoid disclosing company proprietary data; included in "Grand total or average."

TABLE 5A
 CRUSHED STONE SOLD OR USED IN THE UNITED STATES IN 2009, BY SIZE OF OPERATION^{1,2}

Size range (metric tons)	U.S. total			
	Number of operations	Percentage of total	Quantity (thousand metric tons)	Percentage of total
Less than 25,000	602	15.8	4,950	0.4
25,000 to 49,999	343	9.0	11,500	1.0
50,000 to 99,999	524	13.7	34,600	3.0
100,000 to 199,999	614	16.1	80,500	6.9
200,000 to 299,999	430	11.3	97,600	8.4
300,000 to 399,999	307	8.0	96,500	8.3
400,000 to 499,999	247	6.5	101,000	8.7
500,000 to 599,999	160	4.2	78,900	6.8
600,000 to 699,999	134	3.5	78,700	6.7
700,000 to 799,999	87	2.3	58,800	5.0
800,000 to 899,999	68	1.8	52,200	4.5
900,000 to 999,999	41	1.1	35,200	3.0
1,000,000 to 1,499,999	143	3.7	157,000	13.4
1,500,000 to 1,999,999	45	1.2	69,000	5.9
2,000,000 to 2,499,999	29	0.8	58,700	5.0
2,500,000 to 4,999,999	36	0.9	111,000	9.5
5,000,000 and more	7	0.2	40,100	3.4
Total	3,817	100.0	1,170,000	100.0

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

²Does not include recycle plants.

TABLE 5B
CRUSHED STONE SOLD OR USED IN THE UNITED STATES IN 2009, BY REGION AND SIZE OF OPERATION^{1,2}

Size range (metric tons)	Northeast				Midwest			
	Number of operations	Percentage of total	Quantity		Number of operations	Percentage of total	Quantity	
			(thousand metric tons)	Percentage of total			(thousand metric tons)	Percentage of total
Less than 25,000	83	14.1	773	0.5	147	13.4	1,460	0.4
25,000 to 49,999	63	10.7	2,050	1.2	102	9.3	3,460	1.1
50,000 to 99,999	67	11.4	4,330	2.6	150	13.7	10,100	3.1
100,000 to 199,999	99	16.9	13,300	7.9	185	16.9	24,400	7.5
200,000 to 299,999	59	10.1	13,300	7.9	130	11.9	29,300	9.0
300,000 to 399,999	55	9.4	17,300	10.3	104	9.5	32,300	9.9
400,000 to 499,999	38	6.5	15,400	9.1	85	7.8	34,700	10.7
500,000 to 599,999	35	6.0	17,200	10.2	39	3.6	19,100	5.9
600,000 to 699,999	23	3.9	13,300	7.9	33	3.0	19,300	6.0
700,000 to 799,999	13	2.2	8,770	5.2	19	1.7	12,900	4.0
800,000 to 899,999	12	2.0	9,070	5.4	17	1.6	13,000	4.0
900,000 to 999,999	3	0.5	2,540	1.5	13	1.2	11,300	3.5
1,000,000 to 1,499,999	25	4.3	27,500	16.3	38	3.5	42,100	13.0
1,500,000 to 1,999,999	7	1.2	10,600	6.3	12	1.1	18,400	5.7
2,000,000 to 2,499,999	2	0.3	3,980	2.4	8	0.7	16,400	5.0
2,500,000 to 4,999,999	3	0.5	9,470	5.6	9	0.8	26,000	8.0
5,000,000 and more	--	--	--	--	2	0.2	10,300	3.2
Total	587	100.0	169,000	100.0	1,093	100.0	325,000	99.9
Size range (metric tons)	South				West			
	Number of operations	Percentage of total	Quantity		Number of operations	Percentage of total	Quantity	
			(thousand metric tons)	Percentage of total			(thousand metric tons)	Percentage of total
Less than 25,000	113	8.5	833	0.2	259	32.3	1,880	1.4
25,000 to 49,999	77	5.8	2,630	0.5	101	12.6	3,330	2.4
50,000 to 99,999	165	12.4	11,200	2.1	142	17.7	8,990	6.5
100,000 to 199,999	199	14.9	26,100	4.9	131	16.4	16,700	12.2
200,000 to 299,999	190	14.2	43,400	8.1	51	6.4	11,600	8.4
300,000 to 399,999	125	9.4	39,600	7.4	23	2.9	7,380	5.4
400,000 to 499,999	96	7.2	39,600	7.4	28	3.5	11,500	8.3
500,000 to 599,999	73	5.5	36,100	6.8	13	1.6	6,470	4.7
600,000 to 699,999	67	5.0	39,600	7.4	11	1.4	6,500	4.7
700,000 to 799,999	52	3.9	35,000	6.5	3	0.4	2,050	1.5
800,000 to 899,999	34	2.5	26,200	4.9	5	0.6	3,880	2.8
900,000 to 999,999	21	1.6	18,000	3.4	4	0.5	3,360	2.4
1,000,000 to 1,499,999	66	4.9	71,700	13.4	14	1.7	15,200	11.1
1,500,000 to 1,999,999	21	1.6	32,000	6.0	5	0.6	8,020	5.8
2,000,000 to 2,499,999	15	1.1	30,500	5.7	4	0.5	7,800	5.7
2,500,000 to 4,999,999	18	1.3	57,300	10.7	6	0.7	18,200	13.3
5,000,000 and more	4	0.3	25,100	4.7	1	0.1	4,610	3.4
Total	1,336	100.0	535,000	100.0	801	100.0	138,000	100.0

-- Zero.

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

²Does not include recycle plants.

TABLE 6
LIMESTONE, DOLOMITE, CALCAREOUS MARL, AND MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES
IN 2009, BY STATE¹

(Thousand metric tons and thousand dollars)

State	Limestone		Dolomite		Calcareous marl		Marble	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Alabama	30,400 ²	279,000 ²	--	--	--	--	1,680	13,600
Alaska	--	--	--	--	--	--	--	--
Arizona	3,700 ²	36,800 ²	--	--	--	--	35	408
Arkansas	10,600	68,800	820	6,930	--	--	--	--
California	16,400 ²	105,000 ²	131	1,300	--	--	2,490	30,700
Colorado	507 ²	5,400 ²	--	--	--	--	--	--
Connecticut	1,160 ²	23,800 ²	--	--	--	--	--	--
Delaware	--	--	--	--	--	--	--	--
Florida	46,300 ²	620,000 ²	171	1,370	--	--	--	--
Georgia	5,100	59,700	--	--	--	--	1,050	31,800
Hawaii	--	--	--	--	--	--	--	--
Idaho	237	3,430	--	--	--	--	--	--
Illinois	44,700 ²	384,000 ²	11,100	123,000	--	--	--	--
Indiana	40,200 ²	259,000 ²	3,830	30,200	--	--	--	--
Iowa	32,600 ²	297,000 ²	--	--	--	--	--	--
Kansas	16,900	141,000	--	--	--	--	--	--
Kentucky	44,300	389,000	--	--	--	--	--	--
Louisiana	--	--	--	--	--	--	--	--
Maine	1,540	12,200	--	--	--	--	--	--
Maryland	13,100 ²	110,000 ²	--	--	--	--	--	--
Massachusetts	1,560 ²	28,100 ²	--	--	--	--	--	--
Michigan	15,700 ²	93,400 ²	3,860	19,900	--	--	--	--
Minnesota	2,720 ²	33,200 ²	1,600	22,400	--	--	--	--
Mississippi ³	3,080	62,700	--	--	--	--	--	--
Missouri	61,800 ²	460,000 ²	2,350	17,100	--	--	--	--
Montana	1,570	16,600	--	--	--	--	--	--
Nebraska	6,130	58,500	--	--	--	--	--	--
Nevada	2,890 ²	36,300 ²	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--	--
New Mexico	3,690	21,200	--	--	--	--	--	--
New York	19,400 ²	195,000 ²	9,870	114,000	--	--	96	950
North Carolina	4,110 ²	59,400 ²	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--	--
Ohio	40,400 ²	368,000 ²	1,530	11,300	--	--	--	--
Oklahoma	31,300 ²	262,000 ²	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--	--
Pennsylvania	46,200 ²	479,000 ²	10,200	98,800	--	--	--	--
Rhode Island	--	--	--	--	--	--	--	--
South Carolina	2,130	22,000	--	--	2,480	14,000	--	--
South Dakota	2,470	14,200	--	--	--	--	--	--
Tennessee	38,600 ²	408,000 ²	--	--	--	--	--	--
Texas	99,700 ²	708,000 ²	--	--	--	--	86	4,180
Utah	3,430 ²	29,700 ²	--	--	--	--	--	--
Vermont	1,800 ²	17,700 ²	--	--	--	--	--	--
Virginia	15,300 ²	189,000 ²	--	--	--	--	--	--

See footnotes at end of table.

TABLE 6—Continued
LIMESTONE, DOLOMITE, CALCAREOUS MARL, AND MARBLE SOLD OR USED BY PRODUCERS IN THE UNITED STATES
IN 2009, BY STATE¹

(Thousand metric tons and thousand dollars)

State	Limestone		Dolomite		Calcareous marl		Marble	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Washington	988 ²	9,150 ²	102	454	--	--	--	--
West Virginia	11,400	113,000	--	--	--	--	--	--
Wisconsin	19,100 ²	119,000 ²	117	789	--	--	--	--
Wyoming	3,420 ²	21,800 ²	--	--	--	--	--	--
Total	747,000	6,620,000	45,700	447,000	2,480	14,000	5,450	81,700

-- Zero.

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

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

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

TABLE 7

GRANITE, TRAPROCK, SANDSTONE AND QUARTZITE, AND SLATE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY STATE¹

(Thousand metric tons and thousand dollars)

State	Granite		Traprock		Sandstone and quartzite ²		Slate	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Alabama	2,210	20,300	--	--	1,220	11,300	781	6,340
Alaska	290	4,270	--	--	--	--	--	--
Arizona	2,310	19,900	--	--	744	7,400	--	--
Arkansas	6,040	46,300	--	--	11,000	84,400	--	--
California	9,780	101,000	4,540	48,900	1,120	11,500	102	1,180
Colorado	4,560	33,800	--	--	1,040	8,570	--	--
Connecticut	459	4,900	5,110	56,300	--	--	--	--
Delaware	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--
Georgia	38,100	417,000	--	--	--	--	--	--
Hawaii	--	--	5,180	88,000	--	--	--	--
Idaho	283	1,390	1,710	8,660	--	--	--	--
Illinois	--	--	--	--	653	5,930	--	--
Indiana	--	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--	--
Louisiana	--	--	--	--	--	--	--	--
Maine	1,260	12,000	--	--	404	3,610	--	--
Maryland	5,160	45,500	3,250	35,900	93	1,290	--	--
Massachusetts	3,240	34,000	4,510	46,700	--	--	--	--
Michigan	--	--	--	--	--	--	--	--
Minnesota	2,640	32,400	--	--	1,570	21,000	--	--
Mississippi	--	--	--	--	--	--	--	--
Missouri	1,200	101,000	2,160	15,800	--	--	--	--
Montana	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--
Nevada	189	1,430	--	--	670	7,380	--	--

See footnotes at end of table.

TABLE 7—Continued

GRANITE, TRAPROCK, SANDSTONE AND QUARTZITE, AND SLATE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY STATE¹

(Thousand metric tons and thousand dollars)

State	Granite		Traprock		Sandstone and quartzite ²		Slate	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
New Hampshire	2,720	27,000	1,600	16,700	181	1,820	--	--
New Jersey	5,770	51,000	8,660	71,800	--	--	--	--
New Mexico	--	--	--	--	208	1,630	--	--
New York	1,110	13,300	2,840	45,200	2,190	24,400	167	1,640
North Carolina	28,300	432,000	4,290	66,300	--	--	--	--
North Dakota	--	--	--	--	655	2,310	--	--
Ohio	--	--	--	--	426	3,870	--	--
Oklahoma	2,810	24,400	--	--	861	7,350	--	--
Oregon	564	4,500	6,930	55,500	--	--	--	--
Pennsylvania	2,780	28,700	5,190	185,000	11,300	113,000	888	10,000
Rhode Island	--	--	--	--	--	--	--	--
South Carolina	13,100	159,000	--	--	--	--	--	--
South Dakota	--	--	--	--	1,970	15,000	--	--
Tennessee	--	--	--	--	1,070	18,100	--	--
Texas	--	--	--	--	2,480	9,870	--	--
Utah	--	--	--	--	239	2,940	--	--
Vermont	--	--	--	--	897	10,900	237	2,330
Virginia	17,400	258,000	7,130	99,400	1,070	15,200	202	1,230
Washington	885	8,630	5,810	49,000	717	13,000	--	--
West Virginia	--	--	--	--	1,130	12,300	--	--
Wisconsin	1,780	7,880	1,420	67,400	--	--	--	--
Wyoming	--	--	--	--	--	--	--	--
Total	155,000	1,890,000	70,300	957,000	43,900	414,000	2,380	22,800

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.²Includes sandstone-quartzite reported with no distinction between the two kinds of stone.TABLE 8
SHELL, VOLCANIC CINDER AND SCORIA, AND MISCELLANEOUS STONE SOLD OR USED
BY PRODUCERS IN THE UNITED STATES IN 2009, BY STATE¹

(Thousand metric tons and thousand dollars)

State	Shell		Volcanic cinder and scoria		Miscellaneous stone	
	Quantity	Value	Quantity	Value	Quantity	Value
Alabama	--	--	--	--	84	844
Alaska	--	--	--	--	1,650	30,600
Arizona	--	--	99	794	2,230	14,800
Arkansas	--	--	--	--	1,560	10,700
California	--	--	333	4,360	6,460	72,900
Colorado	--	--	--	--	862	15,400
Connecticut	--	--	--	--	1,310	15,500
Delaware ²	--	--	--	--	W	W
Florida	414	5,310	--	--	1,670	16,000
Georgia	--	--	--	--	855	9,060

See footnotes at end of table.

TABLE 8—Continued
 SHELL, VOLCANIC CINDER AND SCORIA, AND MISCELLANEOUS STONE SOLD OR USED
 BY PRODUCERS IN THE UNITED STATES IN 2009, BY STATE¹

(Thousand metric tons and thousand dollars)

State	Shell		Volcanic cinder and scoria		Miscellaneous stone	
	Quantity	Value	Quantity	Value	Quantity	Value
Hawaii	--	--	121	1,540	623	11,500
Idaho	--	--	--	--	2,180	17,400
Illinois	--	--	--	--	42	245
Indiana	--	--	--	--	89	550
Iowa	--	--	--	--	37	270
Kansas	--	--	--	--	291	2,570
Kentucky	--	--	--	--	--	--
Louisiana ²	--	--	--	--	W	W
Maine	--	--	--	--	392	3,800
Maryland	--	--	--	--	784	6,930
Massachusetts	--	--	--	--	1,230	13,300
Michigan	--	--	--	--	791	1,960
Minnesota	--	--	--	--	131	1,330
Mississippi ²	--	--	--	--	45	664
Missouri	--	--	--	--	259	3,830
Montana	--	--	--	--	417	3,800
Nebraska	--	--	--	--	204	1,230
Nevada	--	--	149	1,440	4,390	44,000
New Hampshire	--	--	--	--	183	1,580
New Jersey	--	--	--	--	107	908
New Mexico	--	--	290	2,640	1,940	14,800
New York	--	--	--	--	1,520	15,900
North Carolina	--	--	--	--	1,810	26,300
North Dakota	--	--	294	1,490	36	183
Ohio	--	--	--	--	326	4,060
Oklahoma	--	--	--	--	1,840	14,200
Oregon	--	--	4	30	8,310	58,900
Pennsylvania	--	--	--	--	6,460	59,900
Rhode Island	--	--	--	--	1,820	20,200
South Carolina	--	--	--	--	418	5,520
South Dakota	--	--	--	--	3	20
Tennessee	--	--	--	--	454	4,920
Texas	--	--	--	--	7,940	59,200
Utah	--	--	--	--	1,160	6,770
Vermont	--	--	--	--	2,500	24,000
Virginia	--	--	--	--	1,050	14,200
Washington	--	--	--	--	6,220	51,100
West Virginia	--	--	--	--	36	321
Wisconsin	--	--	--	--	466	2,640
Wyoming	--	--	6,880	34,400	5,710	19,300
Other	--	--	--	--	6,550	102,000
Total	414	5,310	8,170	46,700	85,400	806,000

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

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

²A significant amount of sold or used material was shipped in from other States.

TABLE 9
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY USE¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:			
Coarse aggregate (+1½ inch):			
Macadam	1,650	\$17,900	\$10.83
Riprap and jetty stone	9,580	99,900	10.42
Filter stone	3,590	36,600	10.21
Other coarse aggregate	17,400	195,000	11.22
Coarse aggregate, graded:			
Concrete aggregate, coarse	29,800	292,000	9.82
Bituminous aggregate, coarse	19,100	188,000	9.80
Bituminous surface-treatment aggregate	6,490	80,300	12.38
Railroad ballast	9,540	88,700	9.30
Other graded coarse aggregate	94,700	1,130,000	11.89
Fine aggregate (-¾ inch):			
Stone sand, concrete	4,530	54,300	11.99
Stone sand, bituminous mix or seal	6,240	62,400	10.01
Screening, undesignated	9,420	85,800	9.11
Other fine aggregate	44,300	514,000	11.62
Coarse and fine aggregates:			
Graded road base or subbase	56,000	420,000	7.50
Unpaved road surfacing	12,200	91,900	7.56
Terrazzo and exposed aggregate	328	8,040	24.52
Crusher run or fill or waste	14,900	112,000	7.49
Roofing granules	2,590	313,000	121.27
Other coarse and fine aggregates	75,900	728,000	9.60
Other construction materials	6,540	50,200	7.67
Agricultural:			
Agricultural limestone	7,810	74,500	9.53
Poultry grit and mineral food	970	19,900	20.56
Other agricultural uses	585	21,800	37.31
Chemical and metallurgical:			
Cement manufacture	52,900	276,000	5.21
Lime manufacture	11,700	101,000	8.60
Dead-burned dolomite manufacture	--	--	--
Flux stone	2,490	15,300	6.14
Chemical stone	W	W	W
Glass manufacture	896	22,000	24.59
Sulfur oxide removal	5,690	45,800	8.05
Special:			
Mine dusting or acid water treatment	149	7,080	47.53
Asphalt fillers or extenders	687	8,320	12.10
Whiting or whiting substitute	W	W	W
Other fillers or extenders	2,220	35,500	15.99
Other miscellaneous uses and specified uses not listed	2,220	42,700	19.27
Unspecified: ²			
Reported	307,000	3,050,000	9.93
Estimated	346,000	3,020,000	8.74
Total or average	1,170,000	11,300,000	9.70

See footnotes at end of table.

TABLE 9—Continued
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY USE¹

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

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

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

TABLE 10
LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Limestone ²		Dolomite	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1½ inch):				
Macadam	1,200	13,300	16	139
Riprap and jetty stone	6,960	70,500	204	2,250
Filter stone	2,260	20,600	107	1,010
Other coarse aggregate	12,300	120,000	1,070	12,000
Coarse aggregate, graded:				
Concrete aggregate, coarse	19,100	187,000	3,020	22,100
Bituminous aggregate, coarse	10,200	94,900	1,360	13,300
Bituminous surface-treatment aggregate	3,340	36,000	853	8,560
Railroad ballast	2,120	17,900	95	777
Other graded coarse aggregate	64,600	691,000	5,110	60,800
Fine aggregate (- ⅜ inch):				
Stone sand, concrete	2,400	24,300	84	711
Stone sand, bituminous mix or seal	2,740	26,100	703	7,210
Screening, undesignated	5,560	50,300	313	2,380
Other fine aggregate	23,600	261,000	3,460	41,600
Coarse and fine aggregates:				
Graded road base or subbase	39,200	284,000	1,830	13,800
Unpaved road surfacing	8,370	66,800	817	6,340
Terrazzo and exposed aggregate	82	1,450	--	--
Crusher run or fill or waste	8,350	52,400	1,330	10,800
Roofing granules	325	3,960	--	--
Other coarse and fine aggregates	44,400	397,000	2,570	20,700
Other construction materials	2,550	23,400	30	185
Agricultural:				
Agricultural limestone	7,050	67,300	732	6,930
Poultry grit and mineral food	814	10,300	--	--
Other agricultural uses	285	18,000	--	--
Chemical and metallurgical:				
Cement manufacture	48,900	259,000	--	--
Lime manufacture	11,600	100,000	--	--
Dead-burned dolomite manufacture	--	--	--	--
Flux stone	738	6,440	1,670	7,350
Chemical stone	227	2,040	--	--
Glass manufacture	63	1,260	--	--
Sulfur oxide removal	5,560	43,300	--	--

See footnotes at end of table.

TABLE 10—Continued
LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Limestone ²		Dolomite	
	Quantity	Value	Quantity	Value
Special:				
Mine dusting or acid water treatment	120	5,970	--	--
Asphalt fillers or extenders	404	5,550	--	--
Whiting or whiting substitute	100	2,600	--	--
Other fillers or extenders	1,440	13,900	60	571
Other miscellaneous uses and specified uses not listed	186	2,540	63	340
Unspecified:³				
Reported	167,000	1,610,000	14,200	158,000
Estimated	242,000	2,030,000	5,990	48,900
Total	747,000	6,620,000	45,700	447,000

-- Zero.

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

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

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

TABLE 11
LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN 2009, BY STATE AND USE¹

(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	1,770	15,700	5,440	52,200	2,970	28,100	492	4,760	6,010	67,800
Alaska	--	--	--	--	--	--	--	--	--	--
Arizona	3	48	--	--	3	31	--	--	--	--
Arkansas	545	4,210	444	4,040	2,050	13,400	144	1,100	1,970	12,800
California	W	W	W	W	W	W	W	W	911	7,960
Colorado	--	--	W	W	W	W	W	W	W	W
Connecticut	10	135	29	392	41	331	W	W	W	W
Delaware	--	--	--	--	--	--	--	--	--	--
Florida	4,180	76,200	4,430	109,000	3,440	26,700	55	838	3,510	39,400
Georgia	W	W	W	W	W	W	--	--	940	9,980
Hawaii	--	--	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	23	101	--	--	--	--
Illinois	5,920	56,300	9,170	82,800	5,300	40,400	387	4,260	2,950	22,600
Indiana	5,060	34,100	6,930	50,100	5,280	33,000	W	W	1,060	6,490
Iowa	1,160	13,900	705	9,070	6,790	65,300	366	6,710	1,200	11,100
Kansas	368	3,570	945	9,270	1,440	9,400	49	576	1,140	8,330
Kentucky	2,380	21,100	7,590	72,500	3,000	24,900	1,100	11,900	4,290	37,000
Louisiana	--	--	--	--	--	--	--	--	--	--
Maine	19	58	25	130	W	W	--	--	--	--
Maryland	770	6,410	1,950	18,800	297	2,630	14	203	844	6,510
Massachusetts	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

TABLE 11—Continued
LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN 2009, BY STATE AND USE¹

(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
Michigan	2,820	22,800	1,080	6,950	1,880	13,300	119	1,750	778	5,560
Minnesota	W	W	W	W	444	5,100	W	W	W	W
Mississippi ²	W	W	W	W	W	W	W	W	W	W
Missouri	2,170	19,700	930	7,330	6,070	40,400	2,070	16,500	1,490	9,250
Montana	--	--	--	--	W	W	W	W	W	W
Nebraska	W	W	W	W	W	W	W	W	W	W
Nevada	--	--	--	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--	--	--	--
New Mexico	185	2,090	696	3,320	61	798	11	232	32	253
New York	3,840	46,500	4,680	54,300	1,620	19,900	168	1,880	3,420	32,200
North Carolina	W	W	W	W	W	W	W	W	W	W
North Dakota	--	--	--	--	--	--	--	--	--	--
Ohio	1,070	9,110	6,240	54,000	1,960	14,400	40	429	2,050	15,600
Oklahoma	3,060	38,400	3,480	28,100	771	6,410	149	1,920	1,480	11,000
Oregon	--	--	--	--	--	--	--	--	--	--
Pennsylvania	3,760	37,800	7,500	72,900	4,220	39,400	764	8,590	5,210	42,600
Rhode Island	--	--	--	--	--	--	--	--	--	--
South Carolina	W	W	W	W	W	W	--	--	W	W
South Dakota	--	--	--	--	--	--	--	--	--	--
Tennessee	2,510	34,300	8,480	104,000	2,490	24,000	525	5,370	8,410	81,700
Texas	6,440	49,200	10,800	116,000	8,850	50,100	967	9,070	12,800	80,100
Utah	--	--	--	--	3	12	W	W	45	307
Vermont	W	W	W	W	73	430	W	W	215	1,500
Virginia	1,310	15,400	1,780	19,000	1,080	10,400	228	2,870	2,730	24,400
Washington	--	--	W	W	W	W	--	--	--	--
West Virginia	293	2,850	2,230	19,000	1,100	20,800	52	546	405	3,130
Wisconsin	426	2,820	1,220	6,530	2,220	10,300	494	1,390	2,470	11,600
Wyoming	W	W	W	W	W	W	--	--	--	--
Total	50,100	513,000	86,800	900,000	63,500	500,000	8,190	80,900	66,300	549,000
Total withheld	1,690	24,200	2,580	43,700	1,200	14,800	1,180	10,600	1,620	35,400
Grand total	51,700	537,000	89,300	944,000	64,700	515,000	9,370	91,500	67,900	585,000
	Cement manufacture		Agricultural uses		Lime manufacture		Other uses		Total	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Alabama	1,540	9,790	W	W	W	W	10,100	81,400	30,400 ³	279,000 ³
Alaska	--	--	--	--	--	--	--	--	--	--
Arizona	1,580	16,300	W	W	W	W	2,080	19,700	3,700 ³	36,800 ³
Arkansas	W	W	W	W	--	--	4,850	36,700	11,400	75,700
California	8,930	30,400	W	W	--	--	5,810	55,800	16,600 ³	107,000 ³
Colorado	--	--	--	--	--	--	441	4,710	507 ³	5,400 ³
Connecticut	--	--	7	55	--	--	W	W	1,160 ³	23,800 ³
Delaware	--	--	--	--	--	--	--	--	--	--
Florida	W	W	W	W	--	--	30,300	365,000	46,500 ³	622,000 ³
Georgia	--	--	W	W	--	--	3,010	35,500	5,100	59,700
Hawaii	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

TABLE 11—Continued
LIMESTONE AND DOLOMITE SOLD OR USED BY PRODUCERS IN 2009, BY STATE AND USE¹

(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
Idaho	--	--	W	W	--	--	W	W	237	3,430
Illinois	W	W	W	W	--	--	28,800	275,000	55,800 ³	507,000 ³
Indiana	W	W	1,370	7,560	12	60	21,900	146,000	44,000 ³	290,000 ³
Iowa	2,050	4,300	W	W	W	W	19,400	180,000	32,600 ³	297,000 ³
Kansas	W	W	W	W	--	--	12,100	103,000	16,900	141,000
Kentucky	W	W	354	2,240	W	W	20,500	175,000	44,300	389,000
Louisiana	--	--	--	--	--	--	--	--	--	--
Maine	W	W	--	--	--	--	1,070	9,590	1,540	12,200
Maryland	W	W	W	W	--	--	9,130	75,700	13,100 ³	110,000 ³
Massachusetts	--	--	--	--	--	--	1,560	28,100	1,560 ³	28,100 ³
Michigan	2,320	4,210	120	781	--	--	10,500	58,000	19,600 ³	113,000 ³
Minnesota	--	--	112	1,120	--	--	2,330	27,800	4,320 ³	55,600 ³
Mississippi ²	--	--	W	W	--	--	986	17,400	3,080	62,700
Missouri	W	W	548	2,750	W	W	45,600	354,000	64,100 ³	477,000 ³
Montana	574	7,910	W	W	W	W	W	W	1,570	16,600
Nebraska	W	W	673	8,590	--	--	4,150	38,600	6,130	58,500
Nevada	W	W	W	W	W	W	1,430	14,600	2,890	36,300
New Hampshire	--	--	--	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	2,700	14,500	3,690	21,200
New York	W	W	101	1,140	W	W	14,800	146,000	29,200 ³	309,000 ³
North Carolina	--	--	W	W	--	--	3,970	56,900	4,110 ³	59,400 ³
North Dakota	--	--	--	--	--	--	--	--	--	--
Ohio	--	--	305	2,560	--	--	30,300	284,000	41,900 ³	380,000 ³
Oklahoma	W	W	W	W	--	--	21,300	171,000	31,300 ³	262,000 ³
Oregon	--	--	--	--	--	--	--	--	--	--
Pennsylvania	1,870	24,900	W	W	W	W	31,600	331,000	56,400 ³	578,000 ³
Rhode Island	--	--	--	--	--	--	--	--	--	--
South Carolina	--	--	56	500	--	--	1,730	18,400	2,130	22,000
South Dakota	625	1,810	--	--	--	--	1,850	12,400	2,470	14,200
Tennessee	W	W	W	W	--	--	15,500	154,000	38,600 ³	408,000 ³
Texas	11,600	50,300	W	W	W	W	47,800	351,000	99,700 ³	708,000 ³
Utah	1,650	14,400	W	W	W	W	1,240	10,600	3,430 ³	29,700 ³
Vermont	--	--	W	W	--	--	1,440	15,200	1,800 ³	17,700 ³
Virginia	--	--	W	W	W	W	6,790	90,300	15,300 ³	189,000 ³
Washington	W	W	W	W	W	W	355	4,220	1,090 ³	9,600 ³
West Virginia	W	W	W	W	--	--	6,710	61,700	11,400	113,000
Wisconsin	--	--	411	4,320	--	--	12,000	82,800	19,200 ³	120,000 ³
Wyoming	677	4,190	--	--	--	--	2,730	17,500	3,420 ³	21,800 ³
Total	33,400	169,000	4,050	31,600	12	60	439,000	3,920,000	XX	XX
Total withheld	15,600	90,500	4,920	72,400	11,600	99,900	1,000	10,600	XX	XX
Grand total	49,000	259,000	8,970	104,000	11,600	100,000	440,000	3,930,000	792,000	7,070,000

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

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

²A significant amount of sold or used material was shipped in from other States.

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

TABLE 12

GRANITE, TRAPROCK, SANDSTONE AND QUARTZITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Granite		Traprock		Sandstone and quartzite ²	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch):						
Macadam	158	1,760	164	1,290	100	1,190
Riprap and jetty stone	600	7,690	267	4,190	1,290	11,100
Filter stone	635	8,270	317	3,580	150	1,490
Other coarse aggregate	1,830	31,300	1,070	19,500	289	2,860
Coarse aggregate, graded:						
Concrete aggregate, coarse	3,610	40,200	1,390	15,900	901	8,320
Bituminous aggregate, coarse	3,020	27,200	2,180	19,400	906	9,650
Bituminous surface-treatment aggregate	982	15,700	473	4,400	367	5,290
Railroad ballast	4,090	40,400	1,020	9,520	164	1,760
Other graded coarse aggregate	17,200	260,000	4,480	66,400	944	11,200
Fine aggregate (- ¾ inch):						
Stone sand, concrete	391	4,160	254	6,500	640	7,490
Stone sand, bituminous mix or seal	1,030	10,000	682	7,100	477	5,250
Screening, undesignated	2,050	21,400	608	4,740	459	3,190
Other fine aggregate	11,800	143,000	3,390	46,500	1,060	12,700
Coarse and fine aggregates:						
Graded road base or subbase	4,250	42,000	3,900	28,400	2,330	19,200
Unpaved road surfacing	370	4,210	686	4,490	680	4,180
Terrazzo and exposed aggregate	133	2,530	--	--	7	90
Crusher run or fill or waste	1,840	19,100	919	8,000	680	5,930
Roofing granules	--	--	--	--	6	183
Other coarse and fine aggregates	17,600	191,000	5,490	51,100	1,060	8,770
Other construction materials	38	333	8	65	2,160	9,560
Agricultural:						
Agricultural limestone	--	--	--	--	--	--
Poultry grit and mineral food	--	--	--	--	--	--
Other agricultural uses	--	--	--	--	--	--
Chemical and metallurgical:						
Cement manufacture	--	--	--	--	457	2,710
Lime manufacture	--	--	--	--	--	--
Dead-burned dolomite manufacture	--	--	--	--	--	--
Flux stone	--	--	--	--	83	1,490
Chemical stone	--	--	--	--	--	--
Glass manufacture	--	--	--	--	833	20,800
Sulfur oxide removal	--	--	--	--	--	--
Special:						
Mine dusting or acid water treatment	--	--	--	--	--	--
Asphalt fillers or extenders	--	--	--	--	--	--
Whiting or whiting substitute	--	--	--	--	--	--
Other fillers or extenders	--	--	--	--	--	--

See footnotes at end of table.

TABLE 12—Continued

GRANITE, TRAPROCK, SANDSTONE AND QUARTZITE SOLD OR USED BY PRODUCERS IN THE UNITED STATES IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Granite		Traprock		Sandstone and quartzite ²	
	Quantity	Value	Quantity	Value	Quantity	Value
Other miscellaneous uses and specified uses not listed	1,120	102,000	1,560	211,000	1,330	18,700
Unspecified: ³						
Reported	58,100	676,000	22,600	251,000	8,400	73,000
Estimated	24,200	242,000	18,900	194,000	18,100	168,000
Total	155,000	1,890,000	70,300	957,000	43,900	414,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.²Includes sandstone-quartzite reported with no distinction between the two kinds of stone.³Reported and estimated production without a breakdown by end use.

TABLE 13

MARBLE, VOLCANIC CINDER AND SCORIA, AND MISCELLANEOUS STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES
IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Marble		Volcanic cinder and scoria		Miscellaneous stone	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch):						
Macadam	--	--	--	--	16	227
Riprap and jetty stone	--	--	4	67	251	4,070
Filter stone	--	--	--	--	112	1,600
Other coarse aggregate	--	--	10	111	936	10,700
Coarse aggregate, graded:						
Concrete aggregate, coarse	--	--	--	--	1,650	18,400
Bituminous aggregate, coarse	--	--	--	--	1,410	22,700
Bituminous surface-treatment aggregate	--	--	--	--	456	10,100
Railroad ballast	--	--	--	--	2,050	18,300
Other graded coarse aggregate	--	--	96	842	2,230	34,200
Fine aggregate (-¾ inch):						
Stone sand, concrete	--	--	--	--	711	10,700
Stone sand, bituminous mix or seal	--	--	--	--	601	6,750
Screening, undesignated	--	--	--	--	436	3,650
Other fine aggregate	--	--	37	482	829	8,250
Coarse and fine aggregates:						
Graded road base or subbase	--	--	--	--	4,300	31,600
Unpaved road surfacing	--	--	--	--	1,010	4,070
Terrazzo and exposed aggregate	25	3,250	20	250	57	454
Crusher run or fill or waste	--	--	26	269	1,370	12,300
Roofing granules	--	--	--	--	--	--
Other coarse and fine aggregates	--	--	118	1,540	4,540	57,500
Other construction materials	149	1,940	137	984	1,820	14,700
Agricultural:						
Agricultural limestone	--	--	--	--	2	11
Poultry grit and mineral food	--	--	--	--	25	2,860
Other agricultural uses	189	7,080	--	--	99	939

See footnotes at end of table.

TABLE 13—Continued
 MARBLE, VOLCANIC CINDER AND SCORIA, AND MISCELLANEOUS STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES
 IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Marble		Volcanic cinder and scoria		Miscellaneous stone	
	Quantity	Value	Quantity	Value	Quantity	Value
Chemical and metallurgical:						
Cement manufacture	--	--	--	--	1,070	4,520
Lime manufacture	--	--	--	--	--	--
Dead-burned dolomite manufacture	--	--	--	--	--	--
Flux stone	--	--	--	--	--	--
Chemical stone	--	--	--	--	--	--
Glass manufacture	--	--	--	--	--	--
Sulfur oxide removal	--	--	--	--	128	2,520
Special:						
Mine dusting or acid water treatment	--	--	--	--	--	--
Asphalt fillers or extenders	--	--	--	--	--	--
Whiting or whiting substitute	--	--	--	--	73	364
Other fillers or extenders	--	--	--	--	73	454
Other miscellaneous uses and specified uses not listed	2,910	44,600	96	945	341	4,650
Unspecified: ²						
Reported	--	--	6,970	34,800	29,300	245,000
Estimated	2,170	24,900	653	6,390	29,600	274,000
Total	5,450	81,700	8,170	46,700	85,400	806,000

-- Zero.

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

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

TABLE 14
 RECYCLED ASPHALT SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

State	2008			2009		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Alabama	112	\$2,090	\$18.62	126	\$2,520	\$20.02
Alaska	105 ^r	1,770 ^r	16.81 ^r	57	1,200	21.02
Arizona	137	820	5.99	227	1,370	6.02
Arkansas	--	--	--	85	908	10.68
California	1,550 ^r	12,500 ^r	8.11 ^r	1,700	11,600	6.82
Colorado	514 ^r	4,950	9.62 ^r	362	4,050	11.18
Connecticut	133	530	3.98	124	517	4.17
Delaware	2	35	17.50	2	35	17.50
Florida	415	5,980	14.40 ^r	903	12,300	13.66
Georgia	96	2,770	28.89	196	4,280	21.83
Hawaii	73	1,040	14.25	73	1,030	14.16
Idaho	88	659	7.49	94	587	6.24

See footnotes at end of table.

TABLE 14—Continued
 RECYCLED ASPHALT SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

State	2008			2009		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Illinois	843	8,210	9.74	1,460	12,500	8.57
Indiana	172 ^r	1,640 ^r	9.54 ^r	225	1,870	8.30
Iowa	37	290	7.84	26	209	8.04
Kansas	1,140	30,900	27.02 ^r	1,290	33,200	25.74
Kentucky	49	928	18.94	49	928	18.94
Louisiana	147	908	6.18	134	757	5.65
Maine	176	1,380	7.82	139	1,130	8.14
Maryland	194	999	5.15	145	702	4.84
Massachusetts	305	1,960	6.42	287	2,410	8.40
Michigan	315	1,540	4.88	532	3,010	5.67
Minnesota	805 ^r	7,240 ^r	8.99 ^r	528	5,430	10.29
Mississippi	81	1,570	19.35	136	1,780	13.09
Missouri	208	922	4.43	164	693	4.23
Montana	75	338	4.51	8	89	11.13
Nebraska	32	745	23.28	83	1,090	13.14
Nevada	49	275	5.61	275	1,500	5.46
New Hampshire	256	3,420	13.34	296	3,480	11.74
New Jersey	154	1,120	7.24	155	1,350	8.70
New Mexico	195	1,410	7.25	771	9,850	12.78
New York	256	1,630	6.36	380	2,840	7.47
North Carolina	318	2,300	7.23	874	7,850	8.98
North Dakota	28	126	4.50	40	450	11.25
Ohio	68	249	3.66	179	1,090	6.10
Oklahoma	103	1,540	14.98	118	1,570	13.33
Oregon	235 ^r	1,940 ^r	8.26 ^r	216	1,580	7.29
Pennsylvania	1,120	10,700	9.54	1,020	10,100	9.97
Rhode Island	69	920	13.33	66	202	3.06
South Carolina	191 ^r	4,010 ^r	21.02 ^r	204	4,420	21.65
South Dakota	80	446	5.58	120	751	6.26
Tennessee	54	409	7.57	197	1,450	7.36
Texas	700	7,280	10.40	616	4,650	7.54
Utah	431 ^r	2,440 ^r	5.66 ^r	234	1,560	6.67
Vermont	30	242	8.07	28	425	15.18
Virginia	955	1,310 ^r	1.37 ^r	233	2,980	12.79
Washington	195	1,080	5.53	168	499	2.97
West Virginia	--	--	--	--	--	--
Wisconsin	747	4,980	6.67	624	4,290	6.87
Wyoming	29	360	12.41	14	205	14.64
U.S. total or average	14,100 ^r	141,000 ^r	9.99 ^r	16,000	169,000	10.60
Territory						
Puerto Rico	45	169	3.75	45	169	3.75
Grand total or average	14,100 ^r	141,000 ^r	9.97 ^r	16,000	170,000	10.58

^rRevised. -- Zero.

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

TABLE 15
RECYCLED CONCRETE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

State	2008			2009		
	Quantity	Value	Unit	Quantity	Value	Unit
	(thousand metric tons)	(thousands)	value	(thousand metric tons)	(thousands)	value
Alabama	45	\$317	\$7.04	51	\$377	\$7.39
Alaska	64 ^r	304 ^r	4.75 ^r	25	124	4.96
Arizona	192	1,050	5.48	70	485	6.93
Arkansas	--	--	--	42	193	4.60
California	2,270 ^r	17,000 ^r	7.51 ^r	1,770	14,300	8.07
Colorado	767	5,010	6.53	644	4,500	6.99
Connecticut	90	310	3.44	41	328	8.00
Delaware	7	75	10.71	7	75	10.71
Florida	233	3,640	15.63	424	4,830	11.40
Georgia	10	57	5.70	83	274	3.30
Hawaii	23	252	10.96	22	215	9.77
Idaho	27	190	7.04	32	192	6.00
Illinois	1,410	10,600	7.55	1,180	8,820	7.51
Indiana	105	717	6.83	139	752	5.41
Iowa	34	248	7.29	28	238	8.50
Kansas	25	311	12.44	297	2,230	7.51
Kentucky	440	4,370	9.93	441	4,370	9.92
Louisiana	29	434	14.97	7	71	10.14
Maine	28	163	5.82	39	294	7.54
Maryland	254	1,160	4.55	389	2,030	5.21
Massachusetts	300	2,260	7.55	192	1,610	8.39
Michigan	520	2,520	4.85	1,010	7,180	7.13
Minnesota	1,290	6,850	5.30	765	4,700	6.14
Mississippi	71	1,540	21.75	71	1,550	21.82
Missouri	1	2	2.00	1	2	2.00
Montana	81	378	4.67	20	155	7.75
Nebraska	98	877	8.95	122	1,120	9.19
Nevada	151	804	5.32	93	560	6.02
New Hampshire	11	93	8.45	12	109	9.08
New Jersey	381	2,740	7.19	583	4,730	8.11
New Mexico	171	1,840	10.74	1	2	2.00
New York	399 ^r	2,850 ^r	7.15 ^r	338	2,620	7.75
North Carolina	139	1,810	13.03	143	1,850	12.94
North Dakota	9	61	6.78	17	187	11.00
Ohio	225	1,590	7.05	337	2,230	6.61
Oklahoma	225	2,940	13.08	224	2,940	13.13
Oregon	80	747	9.34	101	882	8.73
Pennsylvania	429	2,350	5.48	420	2,450	5.82
Rhode Island	32	301	9.41	127	176	1.39
South Carolina	235	3,400	14.46	216	3,630	16.81
South Dakota	158	699	4.42	109	534	4.90
Tennessee	--	--	--	25	149	5.96
Texas	1,660	12,400	7.49	859	6,750	7.86
Utah	381 ^r	3,060 ^r	8.04 ^r	223	1,890	8.48

See footnotes at end of table.

TABLE 15—Continued
 RECYCLED CONCRETE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

State	2008			2009		
	Quantity	Value	Unit	Quantity	Value	Unit
	(thousand metric tons)	(thousands)	value	(thousand metric tons)	(thousands)	value
Vermont	16	81	5.06	22	102	4.64
Virginia	588	5,440	9.25	631	5,680	9.01
Washington	407	2,220	5.46	216	1,330	6.14
West Virginia	--	--	--	--	--	--
Wisconsin	645	3,580	5.55	369	1,940	5.24
Wyoming	236	1,640	6.95	59	339	5.75
U.S. total or average	15,000 ^r	112,000 ^r	7.47 ^r	13,000	102,000	7.83
Territory						
Puerto Rico	--	--	--	--	--	--
Grand total or average	15,000 ^r	112,000 ^r	7.45 ^r	13,000	102,000	7.83

^rRevised. -- Zero.

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

TABLE 16
 CRUSHED AND BROKEN STONE OPERATIONS IN THE UNITED STATES IN 2009, BY STATE¹

State	Active operations	Active quarries	Dredging operations	Processing plants				Sales yards
				Stationary	Portable	Stationary and portable	None or unspecified	
Alabama	84	74	--	61	9	3	1	10
Alaska	28	28	--	6	16	2	2	2
Arizona	70	70	--	31	28	5	--	6
Arkansas	89	91	--	40	36	7	3	3
California	164	151	1	85	37	12	4	25
Colorado	47	49	--	15	19	1	5	7
Connecticut	39	38	--	21	15	2	--	1
Delaware	6	--	--	--	--	--	--	6
Florida	118	97	3	43	40	6	2	24
Georgia	93	83	--	72	6	1	3	11
Hawaii	30	30	--	11	17	1	--	1
Idaho	46	76	--	10	28	1	7	--
Illinois	161	140	--	80	50	7	2	22
Indiana	102	95	--	84	3	3	4	8
Iowa	183	216	1	29	146	2	3	2
Kansas	86	100	--	24	50	6	1	5
Kentucky	90	88	--	69	10	9	--	2
Louisiana	24	4	--	2	1	1	--	20
Maine	27	23	--	14	6	3	--	4
Maryland	42	29	--	22	4	1	1	14
Massachusetts	43	42	--	29	8	4	--	2
Michigan	42	42	--	22	7	1	1	11
Minnesota	53	60	--	12	29	1	3	8
Mississippi	24	6	--	4	1	1	--	18
Missouri	225	230	--	129	76	13	4	3
Montana	25	42	--	8	17	--	--	--
Nebraska	17	13	2	7	3	1	--	4
Nevada	29	30	--	19	8	--	1	1

See footnotes at end of table.

TABLE 16—Continued
CRUSHED AND BROKEN STONE OPERATIONS IN THE UNITED STATES IN 2009, BY STATE¹

State	Active operations	Active quarries	Dredging operations	Processing plants				Sales yards
				Stationary	Portable	Stationary and portable	None or unspecified	
New Hampshire	28	26	--	17	8	1	--	2
New Jersey	25	20	--	12	1	6	1	5
New Mexico	49	48	--	12	31	2	3	1
New York	134	152	1	87	27	14	2	3
North Carolina	128	113	--	100	10	2	--	16
North Dakota	10	8	--	--	7	--	1	2
Ohio	112	101	--	69	21	8	3	11
Oklahoma	77	77	--	56	12	4	3	2
Oregon	171	185	--	49	112	3	3	4
Pennsylvania	262	260	--	195	28	11	20	8
Rhode Island	8	6	--	6	--	--	--	2
South Carolina	44	32	--	28	1	3	--	12
South Dakota	10	8	--	8	--	--	--	2
Tennessee	134	130	--	116	10	1	3	4
Texas	268	252	--	141	74	12	6	35
Utah	31	35	--	12	15	--	2	2
Vermont	45	44	--	21	16	3	4	1
Virginia	126	105	--	86	7	6	1	26
Washington	131	143	--	45	59	6	15	6
West Virginia	44	40	--	33	2	3	1	5
Wisconsin	152	210	--	49	87	4	6	6
Wyoming	28	26	--	8	15	3	--	2
Total	4,004	3,968	8	2,099	1,213	186	121	377

-- Zero.

¹Includes recycling plants.

TABLE 17
U.S. EXPORTS OF CRUSHED STONE IN 2009, BY DESTINATION¹

Destination	Limestone metric tons	Limestone				Total	
		Limestone	for cement manufacturing	Chalk, crude	Granules, chippings		Other
North America	metric tons	24,700	662,000	1,610	112,000	423,000	1,220,000
South America	do.	820	1,980	--	270	1,470	4,550
Europe	do.	181	4,070	49	421	3,580	8,310
Asia	do.	79	13,200	55	2,380	2,740	18,500
Oceania	do.	--	34	39	--	51	124
Middle East	do.	--	--	--	9	2,780	2,790
Africa	do.	--	--	--	4,570	86	4,660
Total:							
Quantity	do.	25,800	681,000	1,750	120,000	433,000	1,260,000
Value	thousands	\$2,430	\$17,000	\$2	\$21,800	\$17,000	\$58,300

do. Ditto. -- Zero.

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

Source: U.S. Census Bureau.

TABLE 18
U.S. IMPORTS OF CRUSHED STONE AND CALCIUM CARBONATE FINES, BY TYPE¹

Type	2008			2009		
	Quantity (thousand metric tons)	Value, c.i.f. ² (thousands)	Unit value	Quantity (thousand metric tons)	Value, c.i.f. ² (thousands)	Unit value
Crushed stone and chips:						
Limestone	11,700	\$96,100	\$8.24	3,900	\$36,900	\$9.45
Limestone for flux or cement manufacturing	1,880	20,300	10.77	1,040	9,490	9.15
Other	7,260	112,000	15.39	7,260	125,000	17.21
Total or average	20,800	228,000	XX	12,200	171,000	XX
Calcium carbonate fines:³						
Natural chalk	90	2,540	28.07	25	1,300	53.05
Calcium carbonates, other chalk	1	1,430	1,149.68	2	1,600	930.30
Total or average	91	3,960	XX	27	2,900	XX
Grand total or average	20,900	232,000	XX	12,200	174,000	XX

XX Not applicable.

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

²Cost, insurance, and freight value.

³Excludes precipitated calcium carbonate.

Source: U.S. Census Bureau.

TABLE 19
THE TOP 100 PRODUCERS OF CRUSHED STONE IN THE UNITED STATES IN 2009¹

Rank		Company	Rank		Company
2009	2008		2009	2008	
1	1	Vulcan Materials Co.	51	51	McGeorge Contracting Co.
2	2	Martin Marietta Aggregates	52	69	Mining International LLC
3	3	Lehigh Hanson, Inc.	53	47	Anchor Stone Co.
4	4	Oldcastle Materials, Inc.	54	54	The Kraemer Co.
5	5	CEMEX S.A.B. de C.V.	55	64	Laurel Sand & Gravel, Inc.
6	6	Lafarge North America Inc.	56	63	The Heritage Group
7	7	Rogers Group, Inc.	57	49	Norris Aggregate Products Co.
8	8	Holcim Group/Aggregate Industries Management, Inc.	58	55	Trap Rock Industries, Inc.
9	9	Carmeuse Lime & Stone	59	46	Mathy Construction Co.
10	10	New Enterprise Stone & Lime Co., Inc.	60	73	Columbia Quarry Co.
11	11	Chemical Lime Co.	61	74	Pete Lien & Sons, Inc.
12	12	Luck Stone Corp.	62	65	ISP Minerals, Inc.
13	13	Dolese Bros. Co.	63	58	Maryland Materials, Inc.
14	52	U.S. Forest Service	64	62	Alamo Cement Co.
15	15	Ash Grove Cement Co.	65	48	Stavola Construction Materials, Inc.
16	16	Ready Mix USA Holding Co.	66	94	RiverStone Group, Inc.
17	22	Mulzer Crushed Stone, Inc.	67	70	Imerys
18	18	Buzzi Unicem USA Inc.	68	91	Wendling Quarries Inc.
19	20	Fred Weber, Inc.	69	67	The Melvin Stone Co.
20	14	Texas Industries, Inc.	70	56	Greer Industries, Inc.
21	24	Eucon Corp.	71	53	Granite Construction, Inc.
22	25	National Lime & Stone Co.	72	60	MGQ Aggregates, Inc.
23	17	MDU Resources Group, Inc.	73	79	Pine Bluff Sand & Gravel Co.
24	23	The H&K Group	74	—	The DePaul Group
25	19	Graymont Ltd.	75	68	United States Lime and Minerals, Inc.
26	21	Vecellio & Grogan, Inc.	76	78	Unimin Corp.
27	27	Mississippi Lime Co.	77	—	Jobe Materials, L.P.
28	33	Titan America LLC	78	87	Basic Energy Services, Inc.
29	29	Tower Rock Stone Co.	79	83	Midwest Minerals, Inc.
30	38	Bureau of Land Management	80	66	Bruening Rock Products, Inc.
31	28	Eagle Materials Inc.	81	80	Graniterock Co.
32	26	Texas Crushed Stone Co., Inc.	82	—	Pounding Mill Quarry Corp.
33	30	Boxley Materials Co.	83	86	N.R. Hamm Quarry, Inc.
34	44	Colas Inc.	84	88	Laurel Aggregates, Inc.
35	36	Franklin Industries, Inc.	85	—	Votorantim Cement North America
36	59	Capitol Aggregates, Ltd.	86	95	Snyder Associated Cos., Inc.
37	35	3M Co.	87	61	Palm Beach Aggregates, Inc.
38	82	Mitsubishi Cement Corp.	88	98	Syar Industries Inc.
39	39	Omya Inc.	89	85	Kerford Limestone Co.
40	37	ESSROC Cement Corp.	90	100	B.V. Hedrick Gravel & Sand Co., Inc.
41	40	Wake Stone Corp.	91	92	River Products Co., Inc.
42	50	Glenn O. Hawbaker, Inc.	92	75	Chantilly Crushed Stone, Inc.
43	31	Hunter Industries, Inc.	93	71	Leo Journagan Construction Co.
44	32	CalPortland Co.	94	72	BMC Aggregates, L.C.
45	42	Schildberg Construction Co., Inc.	95	96	Weldon Materials, Inc.
46	46	Hoover, Inc.	96	—	Paul Niemann Construction Co.
47	41	American Infrastructure	97	—	Ronnie Duffield Gravel Co.
48	45	Great Lakes Aggregates, Inc.	98	—	Frontera Materials, Inc.
49	57	Hinkle Contracting Corp.	99	—	Mertens Construction Co., Inc.
50	43	Irving Materials, Inc.	100	93	Glasgow, Inc.

— Not in the top 100 producers of crushed stone in the United States in 2008.

¹In descending order of tonnage produced.