

Mineral Industry Surveys

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CRUSHED STONE AND SAND AND GRAVEL IN THE FOURTH QUARTER 2003

An estimated 394 million metric tons of *crushed stone* were produced and shipped for consumption in the United States in the fourth quarter of 2003, an increase of 8% compared with the same period of 2002. The estimated annual production of *crushed stone* shipped for consumption in 2003 was 1.52 billion metric tons, which is equal to that of 2002. The estimated 2003 total annual production of crushed stone was the fourth highest production ever recorded in the U.S.

The estimated output of *construction sand and gravel* produced for consumption in the fourth quarter of 2003 was 280 million metric tons, an increase of 5.4% compared with the same period of 2002. The estimated annual production of *construction sand and gravel* shipped for consumption in 2003 was 1.14 billion metric tons, a 0.9% increase compared with 2002. The estimated 2003 total annual production of *construction sand and gravel* was the highest production ever recorded in the U.S. The above estimates are based on information reported to the U.S. Geological Survey quarterly sample survey by *crushed stone* and *construction sand and gravel* producers.

The significant increases in the production of *crushed stone* and *construction sand and gravel* during this quarter were due to an increase in construction activity especially in the eastern and southern part of the United States, compensating in part for the unfavorable weather conditions that occurred in the first part of the year.

In the fourth quarter of 2003, there was also an increase of 11.2% in portland cement consumption compared with the same period of 2002, which is another indication of increased construction activity at the national level.

The USGS quarterly survey on domestic production of *crushed stone* and *construction sand and gravel* has become a significant indicator of construction activity at the national as well as State level. This survey is a sample survey that generates production for consumption estimates by quarters for each State, except Alaska and Hawaii, and each geographic

division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. If such changes in the size or the composition of the statistical sample occur, the estimated quantities for prior quarters are recalculated. The latest release of the quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously published information.

The production-for-consumption estimates for *crushed stone* and *construction sand and gravel* are generated independently for each State and each geographic division, which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a division and the sum of State totals that are part of the same geographic division.

The leading geographic divisions in the production of *crushed stone* sold or used in the fourth quarter of 2003 were the South Atlantic with 94.2 million metric tons, or 23.9% of the U.S. total, followed by the East North Central with 81.8 million metric tons, or 20.8%, and the Middle Atlantic with 50.1 million metric tons, or 12.7%.

The estimated *crushed stone* sold or used in the fourth quarter of 2003 increased in six of the nine geographic divisions compared with the same period of last year. The largest increases in percentage were recorded in the Middle Atlantic (20.3%), the South Atlantic (15.9%), and New England (15.8%). Decreases in the production of *crushed stone* were recorded in the Mountain (-9.9%), the West North Central (-8.2%) and the Pacific (-7.1%) divisions.

The leading geographic divisions for the total amount of *construction sand and gravel* sold or used in the fourth quarter of 2003 were the East North Central with 56.7 million metric tons, or 20.3% of the U.S. total, followed by the Mountain with 50.2 million metric tons, or 17.9%, and the Pacific with 47.5 million metric tons, or 17%.

The estimated *construction sand and gravel* sold or used in the fourth quarter of 2003 increased in seven of the nine geographic divisions compared with the same period of last year. The largest increases in percentages were recorded in the Middle Atlantic (32.8%), the New England (21.2%), and the West South Central (16.6%) divisions. Decreases were recorded in the Pacific (-8.7%), and the Mountain (-2.2%) divisions. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

Production for consumption of *crushed stone* increased in the fourth quarter of 2003 in 24 of the 40 estimated States, compared with the same quarter of 2002. Significant increases in production occurred in New Jersey (87.2%), New Mexico (43.4%), Maine (38.9%), Maryland (34.9%), and Nevada (34.7%). Significant decreases in production of crushed stone in the fourth quarter of 2003 occurred in Colorado (-38.1%), and Washington (-25.2%). The five leading States in the production for consumption of *crushed stone* in the fourth quarter of 2003 were Pennsylvania, Texas, Illinois, Ohio, and Florida. Their combined total production for consumption represented 30.4% of the U.S. total.

Production for consumption of *construction sand and gravel* increased in the fourth quarter of 2003 in 32 of the 44 estimated States, with significant increases in percentages recorded in Connecticut (55.5%), New Jersey (41.7%), Pennsylvania (37.7%), and Minnesota (32%). Significant decreases in production of *construction sand and gravel* occurred in West Virginia (-28.8%), Colorado (-28.6%), Wyoming (-23.9%) and Missouri (-23.6%).

The five leading States in the production for consumption of *construction sand and gravel* in the fourth quarter of 2003 were

California, Texas, Michigan, Arizona, and Minnesota. Their combined total production for consumption represented 36.3% of the U.S. total.

This survey also provides revised annual preliminary estimates by State for 2003. The 10 leading States in the production of *crushed stone* for the entire year of 2003 were Texas, Pennsylvania, Florida, Illinois, Ohio, Georgia, Missouri, North Carolina, Virginia, and California. Their combined total production for consumption for the entire year represented 52.4% of the U.S. total. The 10 leading States in the production of *construction sand and gravel* for the entire year of 2003 were California, Texas, Michigan, Arizona, Minnesota, Ohio, Washington, Wisconsin, Nevada, and Colorado. Their combined total production for consumption for the entire year represented 54.7% of the U.S. total.

A total of 303 companies representing *crushed stone* and *construction sand and gravel* producers reported production for consumption information to the fourth quarter sample survey. The large participation of the producing companies in this survey is reflected by the high percentage coverage obtained for most geographic divisions and States. The percentage coverage indicates how much of the total estimated production for consumption for a State or a geographic division was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production for consumption for the current quarter and the same quarter of the prior year included in this report are important indicators of the production/consumption trends occurring in a particular area of the country.

TABLE 1
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION¹

(Thousand metric tons and thousand dollars)

Region/Division	2002					Value total ²	2003	
	Quantity				Total ²		Percent cover- age	Number of cos. ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				
Northeast:								
New England	3,360	11,600	13,800	10,100	38,800	273,000	65	14
Middle Atlantic	23,300	53,400	60,700	41,600	179,000	1,100,000	58	26
Midwest:								
East North Central	34,400	79,500	92,700	74,100	281,000	1,350,000	67	35
West North Central	25,900	43,100	48,000	38,700	156,000	827,000	54	34
South:								
South Atlantic	75,700	99,200	94,900	81,300	351,000	2,240,000	85	33
East South Central	28,200	40,700	44,500	38,100	152,000	922,000	68	15
West South Central	45,400	50,900	50,400	42,000	189,000	898,000	77	26
West:								
Mountain	9,610	15,600	15,600	12,600	53,400	300,000	48	20
Pacific ⁴	20,600	26,700	27,500	26,100	101,000	604,000	51	25
Total ²	266,000	421,000	448,000	365,000	1,520,000 ⁵	8,590,000 ⁵	XX	XX

XX Not applicable.

¹Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

²Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

³Number of companies reporting for the quarterly survey.

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska, Hawaii, and "Other" totals; see table 5, footnote 6.

TABLE 2
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION¹

(Thousand metric tons and thousand dollars)

Region/Division	2002					Value total ²	2003	
	Quantity				Total ²		Percent cover- age	Number of cos. ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				
Northeast:								
New England	4,730	13,300	16,100	11,300	45,400	243,000	22	20
Middle Atlantic	8,720	19,800	21,200	14,300	63,900	369,000	27	20
Midwest:								
East North Central	26,600	68,900	74,600	54,600	225,000	939,000	39	40
West North Central	8,560	34,400	42,800	27,700	113,000	427,000	31	31
South:								
South Atlantic	18,600	22,200	20,800	18,300	80,000	396,000	53	24
East South Central	9,020	13,200	12,600	9,960	44,800	220,000	37	14
West South Central	29,900	33,900	30,000	25,600	120,000	597,000	40	13
West:								
Mountain	37,500	58,800	62,700	51,400	210,000	1,010,000	39	23
Pacific ⁴	42,100	58,200	61,600	52,000	214,000	1,450,000	58	22
Total ²	186,000	323,000	342,000	265,000	1,130,000 ⁵	5,750,000 ⁵	XX	XX

XX Not applicable.

¹Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

²Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

³Number of companies reporting for the quarterly survey.

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska and Hawaii.

TABLE 3
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION¹

(Thousand metric tons and thousand dollars)

Region/Division	2003								Total ³	Value total ³
	Quantity 1st qtr.	Per- cent change ²	Quantity 2nd qtr.	Per- cent change ²	Quantity 3rd qtr.	Per- cent change ²	Quantity 4th qtr.	Per- cent change ²		
Northeast:										
New England	3,290	-2.1	11,600	-0.1	13,300	-3.7	11,700	15.8	39,800	272,000
Middle Atlantic	19,100	-18.2	51,000	-4.4	59,400	-2.0	50,100	20.3	180,000	1,120,000
Midwest:										
East North Central	31,500	-8.4	77,300	-2.7	93,300	0.7	81,800	10.5	284,000	1,370,000
West North Central	24,500	-5.4	43,500	1.0	46,200	-3.8	35,500	-8.2	150,000	811,000
South:										
South Atlantic	72,200	-4.5	97,400	-1.8	106,000	11.3	94,200	15.9	369,000	2,270,000
East South Central	31,000	9.7	41,300	1.3	46,300	4.1	41,100	7.7	160,000	961,000
West South Central	41,000	-9.7	48,600	-4.4	50,700	0.6	43,900	4.4	184,000	877,000
West:										
Mountain	8,990	-6.5	15,000	-3.6	14,700	-5.4	11,400	-9.9	50,100	297,000
Pacific ⁴	21,200	3.2	24,900	-6.8	26,100	-5.2	24,200	-7.1	96,500	580,000
Total ²	253,000	-5.1	411,000	-2.4	456,000	1.7	394,000	8.0	1,520,000 ⁵	8,710,000 ⁵

¹Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

²All percent changes are calculated using unrounded totals.

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

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska, Hawaii, and "Other" totals; see table 5, footnote 6.

TABLE 4
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION¹

(Thousand metric tons and thousand dollars)

Region/Division	2003								Total ³	Value total ³
	Quantity 1st qtr.	Per- cent change ²	Quantity 2nd qtr.	Per- cent change ²	Quantity 3rd qtr.	Per- cent change ²	Quantity 4th qtr.	Per- cent change ²		
Northeast:										
New England	4,430	-6.4	12,800	-4.1	16,900	5.3	13,700	21.2	47,800	255,000
Middle Atlantic	9,470	8.6	18,800	-5.0	23,100	9.2	18,900	32.8	70,300	416,000
Midwest:										
East North Central	24,200	-9.1	67,100	-2.5	73,500	-1.5	56,700	3.9	222,000	951,000
West North Central	8,030	-6.2	35,700	3.9	47,700	11.6	31,400	13.2	123,000	472,000
South:										
South Atlantic	17,700	-5.2	22,500	1.3	22,000	5.7	20,400	11.5	82,600	403,000
East South Central	7,640	-15.3	11,100	-16.2	12,500	-1.2	10,800	8.3	42,000	210,000
West South Central	2,100	-12.9	33,200	-2.1	31,700	5.5	29,900	16.6	121,000	615,000
West:										
Mountain	41,800	11.3	60,600	3.0	62,600	-0.2	50,200	-2.2	215,000	1,040,000
Pacific ⁴	41,900	-0.4	61,900	6.3	62,600	1.8	47,500	-8.7	214,000	1,480,000
Total ²	181,000	-2.5	324,000	0.3	353,000	3.0	280,000	5.4	1,140,000 ⁵	5,830,000 ⁵

¹Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

²All percent changes are calculated using unrounded totals.

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

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska and Hawaii.

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

(Thousand metric tons and thousand dollars)

State	2002					2003		
	Quantity					Value total ²	Percent cover- age	Number of cos. ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²			
Alabama	9,100	11,600	12,300	10,300	43,400	262,000	70	11
Alaska	(4)	(4)	(4)	(4)	1,280	6,960	(4)	(4)
Arizona	(5)	(5)	(5)	(5)	8,450	51,800	(5)	(5)
Arkansas	6,300	8,570	9,000	6,930	30,800	159,000	62	9
California	14,300	18,200	17,700	17,200	67,400	423,000	54	15
Colorado	2,560	4,440	4,310	3,640	15,000	96,000	69	6
Connecticut	684	2,840	3,760	2,860	10,200	85,300	81	4
Delaware	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Florida	24,100	25,200	24,700	23,800	97,700	573,000	69	10
Georgia	16,100	19,200	18,200	15,600	69,100	454,000	101	7
Hawaii	(4)	(4)	(4)	(4)	6,380	65,100	(4)	(4)
Idaho	706	1,450	565	699	3,420	15,800	46	3
Illinois	8,970	20,900	24,600	20,700	75,200	431,000	66	10
Indiana	8,220	15,200	18,200	13,900	55,500	268,000	79	13
Iowa	4,630	10,900	10,800	9,650	35,900	194,000	54	7
Kansas	4,490	5,880	5,780	5,500	21,700	107,000	62	9
Kentucky	8,940	11,900	15,400	14,300	50,600	302,000	57	8
Louisiana	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)
Maine	529	1,170	1,410	902	4,010	23,400	57	4
Maryland	4,430	6,460	6,400	5,010	22,300	141,000	114	9
Massachusetts	1,440	4,210	4,660	3,470	13,800	107,000	71	5
Michigan	3,130	11,800	13,900	12,300	41,100	170,000	73	8
Minnesota	306	3,030	4,120	2,500	9,960	57,600	52	4
Mississippi	(5)	(5)	(5)	(5)	2,620	27,900	(5)	(5)
Missouri	14,600	18,400	23,200	17,900	74,100	380,000	46	13
Montana	(5)	(5)	(5)	(5)	2,370	10,000	(5)	(5)
Nebraska	1,390	2,150	1,940	1,740	7,220	53,200	90	6
Nevada	1,860	2,140	2,210	1,810	8,010	41,900	31	4
New Hampshire	302	1,620	1,660	1,150	4,730	24,100	71	4
New Jersey	2,970	5,040	8,300	4,180	20,500	127,000	56	5
New Mexico	829	1,090	1,100	666	3,680	23,300	40	4
New York	5,940	16,700	19,900	14,000	56,500	391,000	72	9
North Carolina	12,300	19,100	17,400	14,100	62,900	451,000	96	11
North Dakota	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)
Ohio	9,420	21,300	23,800	18,000	72,600	329,000	80	12
Oklahoma	11,000	11,800	12,300	9,930	45,000	196,000	66	12
Oregon	3,360	5,210	6,360	4,860	19,800	101,000	51	11
Pennsylvania	15,000	31,800	32,000	23,200	102,000	580,000	51	17
Rhode Island	(5)	(5)	(5)	(5)	1,780	11,400	(5)	(5)
South Carolina	5,770	7,360	6,850	5,690	25,700	165,000	78	5
South Dakota	690	2,200	2,450	1,430	6,780	33,600	81	6
Tennessee	9,710	16,100	16,000	13,100	54,900	330,000	77	7
Texas	27,900	30,400	29,700	24,900	113,000	543,000	82	12
Utah	1,130	1,900	2,580	2,030	7,640	38,100	58	5
Vermont	(5)	(5)	(5)	(5)	4,360	21,300	(5)	(5)
Virginia	11,500	17,200	16,500	13,700	58,900	395,000	76	10
Washington	2,930	3,120	3,480	4,190	13,700	79,900	36	4
West Virginia	1,920	3,950	4,700	3,830	14,400	63,400	60	7
Wisconsin	4,660	9,630	12,800	9,040	36,200	151,000	21	7
Wyoming	822	1,540	1,590	943	4,890	23,300	82	5
Other	XX	XX	XX	XX	12,800	101,000	XX	XX
Total	XX	XX	XX	XX	1,520,000	8,590,000	XX	XX

See footnotes at end of table.

TABLE 5--Continued
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

(Thousand metric tons and thousand dollars)

State	2003								Total ²	Value total ²
	Quantity 1st qtr.	Per- cent change ⁷	Quantity 2nd qtr.	Per- cent change ⁷	Quantity 3rd qtr.	Per- cent change ⁷	Quantity 4th qtr.	Per- cent change ⁷		
Alabama	10,700	18.0	13,200	13.3	14,600	18.1	12,700	23.0	51,200	292,000
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	1,300	7,190
Arizona	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	10,700	62,100
Arkansas	5,330	-15.4	8,120	-5.3	9,390	4.3	8,000	15.6	30,800	162,000
California	13,800	-3.7	16,300	-10.4	16,300	-7.5	16,000	-7.3	62,400	400,000
Colorado	2,170	-15.6	4,290	-3.3	3,700	-14.2	2,250	-38.1	12,400	81,200
Connecticut	782	14.3	3,080	8.5	3,550	-5.6	3,370	17.9	10,800	85,800
Delaware	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Florida	23,100	-4.2	25,900	2.8	25,500	3.6	21,000	-11.8	95,500	572,000
Georgia	15,500	-3.9	18,900	-1.7	20,800	14.8	18,700	19.3	73,800	458,000
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	6,500	62,700
Idaho	381	-46.0	1,070	-26.4	640	13.3	821	17.4	2,910	13,700
Illinois	8,550	-4.7	19,400	-7.3	24,700	0.4	22,700	9.8	75,300	440,000
Indiana	7,310	-11.1	15,600	2.1	17,300	-5.0	15,900	14.5	56,100	277,000
Iowa	3,910	-15.4	10,800	-1.2	10,700	-0.7	8,440	-12.5	33,800	187,000
Kansas	3,960	-11.9	5,730	-2.5	5,680	-1.7	5,420	-1.5	20,800	105,000
Kentucky	9,800	9.6	12,800	7.1	14,400	-6.4	13,100	-8.8	50,100	305,000
Louisiana	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)	(5, 6)
Maine	579	9.5	912	-21.8	1,950	38.4	1,250	38.9	4,690	26,000
Maryland	3,310	-25.4	6,300	-2.4	6,380	-0.4	6,760	34.9	22,700	135,000
Massachusetts	1,230	-14.7	4,110	-2.4	4,610	-1.1	4,010	15.7	14,000	103,000
Michigan	2,730	-12.5	11,700	-0.7	14,500	4.8	11,200	-8.9	40,200	170,000
Minnesota	446	45.7	2,760	-8.8	4,160	1.1	2,120	-15.3	9,490	56,000
Mississippi	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	2,300	25,000
Missouri	14,600	-0.3	19,900	8.3	21,200	-8.5	16,300	-9.1	71,900	377,000
Montana	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	2,440	9,730
Nebraska	1,310	-5.9	1,980	-7.8	1,970	1.8	1,690	-2.9	6,960	52,300
Nevada	1,880	1.0	2,490	16.5	2,410	8.9	2,440	34.7	9,210	45,500
New Hampshire	304	0.7	1,260	-22.2	1,040	-37.3	1,150	0.1	3,750	19,500
New Jersey	3,280	10.3	7,080	40.5	8,310	0.2	7,820	87.2	26,500	156,000
New Mexico	920	11.0	1,090	--	1,190	8.2	955	43.4	4,150	24,900
New York	3,960	-33.3	15,100	-10.0	19,700	-0.7	13,000	-6.6	51,800	366,000
North Carolina	11,900	-3.1	17,400	-9.0	20,000	15.1	17,400	23.4	66,700	452,000
North Dakota	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)	(4, 6)
Ohio	8,650	-8.2	20,100	-5.9	24,200	1.6	21,700	20.4	74,700	320,000
Oklahoma	9,220	-16.3	12,600	6.5	14,000	13.6	11,500	15.9	47,300	195,000
Oregon	4,730	41.0	5,040	-3.3	6,390	0.5	5,090	4.7	21,300	103,000
Pennsylvania	12,600	-16.0	29,200	-8.1	30,800	-3.8	30,100	29.7	103,000	596,000
Rhode Island	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	1,980	12,000
South Carolina	6,060	5.0	7,050	-4.3	7,520	9.9	7,010	23.1	27,600	168,000
South Dakota	673	-2.5	2,170	-1.4	2,430	-1.0	1,420	-1.0	6,690	33,900
Tennessee	9,910	2.1	14,600	-9.4	16,400	2.3	14,600	11.3	55,400	339,000
Texas	25,900	-7.5	28,000	-7.7	27,700	-6.6	24,400	-2.0	106,000	520,000
Utah	1,270	12.9	2,040	7.2	2,550	-1.0	1,810	-10.8	7,680	39,100
Vermont	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	5,660	26,100
Virginia	11,100	-4.0	17,800	3.8	19,800	19.8	17,500	27.6	66,200	419,000
Washington	2,710	-7.5	3,620	15.9	3,410	-2.1	3,130	-25.2	12,900	76,600
West Virginia	2,040	6.3	3,880	-1.9	4,940	5.0	4,770	24.6	15,600	64,900
Wisconsin	4,480	-3.9	11,400	17.9	14,300	11.7	9,820	8.7	40,000	158,000
Wyoming	662	-19.4	1,230	-19.7	1,350	-15.2	1,080	14.6	4,320	21,000
Other	XX	XX	XX	XX	XX	XX	XX	XX	11,500	90,300
Total	XX	XX	XX	XX	XX	XX	XX	XX	1,520,000	8,710,000

XX Not applicable. -- Zero.

¹Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

²Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

³Number of companies reporting for the quarterly survey.

⁴State not included in quarterly survey.

⁵Owing to a low number of reporting companies, no production estimates by quarters were generated.

⁶To avoid disclosing 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."

⁷All percentage changes are calculated using unrounded tables.

TABLE 6
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

(Thousand metric tons and thousand dollars)

State	2002					2003		
	Quantity					Value total ²	Percent cover- age	Number of comp. ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²			
Alabama	2,740	3,970	3,170	2,580	12,500	56,700	43	7
Alaska	(4)	(4)	(4)	(4)	16,300	93,400	(4)	(4)
Arizona	13,500	14,000	12,800	13,500	53,800	294,000	64	8
Arkansas	1,990	2,400	2,340	2,080	8,810	45,600	57	3
California	30,500	40,400	43,500	36,800	151,000	1,110,000	64	15
Colorado	4,260	12,200	15,100	9,080	40,700	222,000	37	7
Connecticut	685	2,660	2,830	1,970	8,140	48,800	28	5
Delaware	(5)	(5)	(5)	(5)	2,190	17,300	(5)	(5)
Florida	6,370	6,940	6,610	6,520	26,400	114,000	68	9
Georgia	1,580	1,920	1,640	1,450	6,600	27,200	48	6
Hawaii	(4)	(4)	(4)	(4)	610	7,010	(4)	(4)
Idaho	(5)	(5)	(5)	(5)	15,700	57,700	(5)	(5)
Illinois	3,430	9,040	11,000	8,550	32,000	146,000	35	7
Indiana	5,590	8,230	7,430	6,370	27,600	122,000	52	7
Iowa	1,320	4,500	5,050	3,760	14,600	62,300	50	6
Kansas	1,800	2,630	2,860	2,270	9,560	28,700	21	3
Kentucky	1,310	2,520	3,450	2,250	9,530	37,900	14	3
Louisiana	4,190	5,170	4,400	4,170	17,900	96,800	43	3
Maine	596	2,270	4,570	2,250	9,680	40,400	15	4
Maryland	2,750	3,460	3,390	2,640	12,200	83,500	40	4
Massachusetts	2,050	3,150	3,890	3,100	12,200	75,300	22	6
Michigan	5,780	26,000	26,900	18,600	77,300	267,000	38	10
Minnesota	726	13,500	18,600	10,900	43,700	175,000	37	9
Mississippi	2,690	4,170	3,840	2,920	13,600	73,200	49	5
Missouri	1,390	2,760	3,300	2,580	10,000	42,300	51	4
Montana	1,440	5,280	6,300	3,730	16,700	76,000	40	3
Nebraska	2,410	4,290	4,000	2,240	12,900	44,200	22	5
Nevada	7,770	9,660	9,490	8,480	35,400	159,000	19	5
New Hampshire	761	2,550	3,080	2,250	8,640	41,600	26	4
New Jersey	2,660	4,860	4,510	4,020	16,000	96,300	26	5
New Mexico	2,610	3,420	3,720	3,090	12,800	62,600	37	5
New York	3,580	8,890	11,100	6,250	29,800	158,000	21	10
North Carolina	2,520	2,950	2,510	2,070	10,000	50,700	29	4
North Dakota	(4)	(4)	(4)	(4)	10,700	27,900	(4)	(4)
Ohio	6,220	13,800	17,000	11,700	48,700	250,000	53	15
Oklahoma	2,510	2,890	2,740	2,090	10,200	41,300	47	6
Oregon	3,250	4,950	6,590	4,730	19,500	116,000	46	5
Pennsylvania	2,410	5,870	5,860	3,950	18,100	115,000	35	9
Rhode Island	(5)	(5)	(5)	(5)	1,760	14,100	(5)	(5)
South Carolina	2,230	3,000	2,740	2,320	10,300	35,500	41	4
South Dakota	731	3,650	4,680	2,830	11,900	47,500	10	5
Tennessee	1,890	2,290	2,670	2,370	9,220	51,900	35	5
Texas	21,400	23,500	20,400	17,200	82,600	413,000	37	10
Utah	2,670	8,420	9,210	7,290	27,600	104,000	31	3
Vermont	451	1,850	1,470	1,220	4,990	22,200	21	4
Virginia	2,150	3,040	2,920	2,390	10,500	60,000	59	9
Washington	8,030	13,400	11,400	10,400	43,200	223,000	40	7
West Virginia	242	460	606	396	1,700	8,450	78	5
Wisconsin	4,430	12,600	12,200	9,790	39,000	154,000	20	9
Wyoming	472	2,140	3,430	1,660	7,710	32,100	16	3
Total	XX	XX	XX	XX	1,130,000	5,750,000	XX	XX

See footnotes at end of table.

TABLE 6--Continued
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

(Thousand metric tons and thousand dollars)

State	2003								Total ²	Value total ²
	Quantity 1st qtr.	Per- cent change ⁶	Quantity 2nd qtr.	Per- cent change ⁶	Quantity 3rd qtr.	Per- cent change ⁶	Quantity 4th qtr.	Per- cent change ⁶		
Alabama	2,470	-9.9	3,010	-24.1	2,920	-7.9	2,690	4.2	11,100	51,600
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	16,300	95,200
Arizona	13,500	0.1	15,600	11.7	15,900	24.5	14,800	9.6	59,800	334,000
Arkansas	1,790	-10.2	2,520	5.1	2,570	9.8	2,310	11.2	9,190	48,400
California	30,900	1.5	46,800	15.9	44,000	1.2	33,200	-9.8	155,000	1,160,000
Colorado	5,080	19.1	11,500	-5.8	10,400	-31.2	6,480	-28.6	33,500	186,000
Connecticut	634	-7.4	2,640	-0.6	3,710	31.2	3,060	55.5	10,000	61,200
Delaware	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	2,000	15,900
Florida	6,800	6.9	7,820	12.7	7,450	12.7	6,990	7.3	29,100	127,000
Georgia	1,560	-1.6	2,050	6.6	2,120	28.9	1,840	27.0	7,560	31,800
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	600	7,030
Idaho	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	14,300	53,600
Illinois	3,580	4.4	9,700	7.2	11,300	2.9	8,930	4.5	33,500	156,000
Indiana	4,990	-10.7	8,410	2.1	7,550	1.7	6,470	1.6	27,400	124,000
Iowa	1,040	-21.2	4,030	-10.5	5,070	0.5	3,690	-2.0	13,800	59,900
Kansas	1,750	-2.8	3,020	14.9	3,080	7.6	2,300	1.6	10,200	31,200
Kentucky	866	-33.7	2,220	-12.0	2,330	-32.4	2,460	9.2	7,870	32,000
Louisiana	4,470	6.7	5,460	5.6	5,470	24.3	4,540	8.8	19,900	110,000
Maine	590	-1.0	2,500	10.3	4,060	-11.1	2,390	6.2	9,540	40,600
Maryland	2,070	-24.8	3,100	-10.3	3,180	-6.1	3,160	19.3	11,500	80,000
Massachusetts	1,830	-10.8	2,760	-12.5	3,310	-14.8	3,150	1.4	11,000	69,300
Michigan	5,240	-9.3	24,600	-5.4	26,100	-3.0	18,400	-0.9	74,400	262,000
Minnesota	1,190	63.3	14,600	8.7	22,100	18.5	14,300	32.0	52,300	213,000
Mississippi	2,310	-13.9	3,270	-21.5	3,890	1.4	3,220	10.4	12,700	69,600
Missouri	1,290	-6.8	2,880	4.5	3,440	4.3	1,970	-23.6	9,590	41,200
Montana	2,410	67.6	6,000	13.7	6,040	-4.1	3,000	-19.5	17,500	81,000
Nebraska	1,800	-25.4	4,160	-3.0	3,980	-0.4	2,700	20.7	12,600	43,800
Nevada	8,820	13.4	9,080	-6.0	11,600	22.7	10,000	18.2	39,600	182,000
New Hampshire	776	2.0	2,680	5.1	3,560	15.7	2,860	27.2	9,880	48,500
New Jersey	3,190	20.2	4,440	-8.6	4,540	0.7	5,700	41.7	17,900	110,000
New Mexico	3,090	18.4	3,970	15.9	3,900	4.8	2,950	-4.7	13,900	69,100
New York	4,020	12.3	9,190	3.4	12,300	10.7	7,560	20.8	33,000	178,000
North Carolina	1,950	-22.7	2,200	-25.5	2,490	-0.9	2,090	0.9	8,720	44,800
North Dakota	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	9,100	24,300
Ohio	5,380	-13.6	13,300	-3.5	15,900	-6.4	12,800	9.6	47,500	249,000
Oklahoma	2,160	-14.2	2,760	-4.4	2,670	-2.5	2,300	10.4	9,890	40,700
Oregon	2,990	-7.8	3,760	-24.1	5,730	-13.0	4,490	-4.9	17,000	103,000
Pennsylvania	2,300	-4.4	5,250	-10.6	6,580	12.4	5,430	37.7	19,600	128,000
Rhode Island	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	1,680	13,800
South Carolina	2,170	-2.7	2,970	-0.9	2,780	1.4	2,410	3.9	10,300	36,300
South Dakota	721	-1.3	4,540	24.3	5,640	20.5	3,440	21.6	14,300	58,300
Tennessee	1,470	-22.4	2,560	12.1	3,190	19.4	2,600	9.9	9,830	56,400
Texas	17,700	-17.6	22,400	-4.9	20,700	1.4	20,800	20.8	81,500	416,000
Utah	3,980	49.0	6,660	-20.8	8,720	-5.4	6,750	-7.4	26,100	101,000
Vermont	437	-3.1	1,410	-23.9	1,560	5.7	1,340	9.7	4,740	21,500
Virginia	2,250	4.6	3,100	2.1	3,350	14.7	3,020	26.7	11,700	68,200
Washington	7,350	-8.4	9,810	-26.7	13,100	14.5	9,940	-4.4	40,200	212,000
West Virginia	265	9.4	476	3.5	529	-12.7	282	-28.8	1,550	7,840
Wisconsin	4,220	-4.5	11,500	-8.8	13,600	11.5	10,400	5.9	39,700	160,000
Wyoming	553	17.2	2,170	1.4	3,170	-7.7	1,270	-23.9	7,160	30,400
Total	XX	XX	XX	XX	XX	XX	XX	XX	1,140,000	5,830,000

XX Not applicable.

¹Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated

²Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions

³Number of companies reporting for the quarterly survey

⁴State not included in quarterly survey.

⁵Owing to a low number of reporting companies, no production estimates by quarters were generated

⁶All percentage changes are calculated using unrounded totals