

# Mineral Industry Surveys

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## CRUSHED STONE AND SAND AND GRAVEL IN THE FOURTH QUARTER 2016

An estimated 328 million metric tons (Mt) of crushed stone was produced and shipped for consumption in the United States in the fourth quarter of 2016, an decrease of 4% compared with that of the same period of 2015. The estimated annual output of crushed stone produced for consumption in 2016 was 1.37 billion metric tons (Gt), an increase of 3% compared with that of 2015.

The estimated U.S. output of construction sand and gravel produced and shipped for consumption in the fourth quarter of 2016 was 228 Mt, a decrease of 3% compared with that of the same period of 2015. The estimated annual output of construction sand and gravel produced for consumption in 2016 was 959 Mt, a slight increase compared with that of 2015.

An estimated 556 Mt of total construction aggregates was produced and shipped for consumption in the United States in the fourth quarter of 2016, a decrease of 4% compared with that of the same period of 2015 (fig.1). The estimated annual output of construction aggregates produced for consumption in 2016 was 2.33 Gt, an increase of 3% compared with that of 2015 (fig.2).

The above estimates are based on information reported to the U.S. Geological Survey (USGS) quarterly sample survey by crushed stone and construction sand and gravel producers.

Shipments of portland and blended cement decreased slightly in the fourth quarter of 2016 compared with the fourth quarter of 2015. Annual consumption increased slightly in 2016, compared with that of 2015. This information is obtained from the USGS monthly survey of U.S. cement producers.

This sample survey generates production-for-consumption estimates by quarters, based on information reported voluntarily by a limited number of producing companies. Often, a few companies may report amounts sold in the current quarter that vary greatly from the amounts reported in the previous year during the same quarter. This change in sales is rarely an indicator of the change in the demand in the State as a whole. Typically, a large change in sales can be attributed to the opening or closing of an operation, the weather, or an external force that only the company or one of its operations experienced in that quarter. Previously reported data are occasionally

revised, and the estimated quantities for the prior quarters are then recalculated. The latest release of the quarterly Mineral Industry Surveys contains the most recent estimated totals and supersedes previously published reports.

The estimated production for consumption of crushed stone in the fourth quarter of 2016 decreased in seven of the nine geographic divisions compared with that sold or used in the fourth quarter of 2015. Production for consumption decreased in 25 of the 46 States for which production estimates of crushed stone were made.

The estimated production for consumption of construction sand and gravel in the fourth quarter of 2016 decreased from fourth quarter 2015 levels in six of the nine geographic divisions. Production for consumption decreased in 27 of the 45 States for which production estimates of construction sand and gravel were made.

The estimated production for consumption of construction aggregates in the fourth quarter of 2016 decreased in seven of the nine geographic divisions compared with that sold or used in the fourth quarter of 2015. In the fourth quarter, production for consumption decreased in 23 of the 43 States for which production estimates of construction aggregates were made. The five leading States in the fourth quarter of 2016 were, in descending order of production, Texas, California, Ohio, Pennsylvania, and Michigan. Their combined total production for consumption was 159 Mt (29% of the U.S. total).

The estimated total annual production for consumption of construction aggregates in 2016 increased, compared with that in 2015, in 28 of the 50 States for which estimates were made. The five leading States were, in descending order of total annual output for 2016, Texas, California, Pennsylvania, Ohio, and Florida. Their combined total annual output was 661 Mt, a slight increase when compared with that of 2015.

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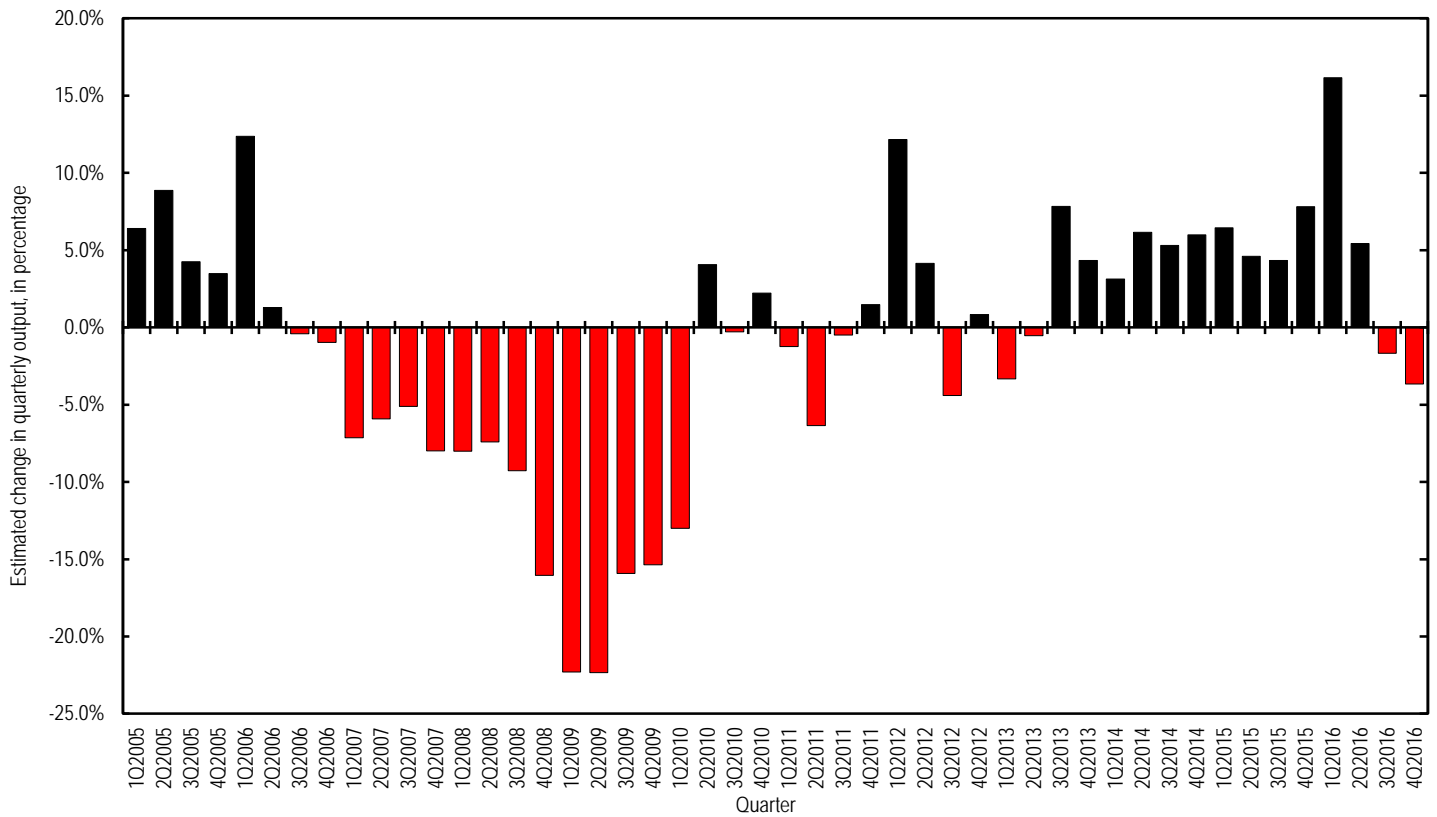


Figure 1. Percentage change in the amount of construction aggregates produced and shipped for consumption in the United States each quarter from 2005 through 2016. All comparisons are versus the same quarter of the prior year.

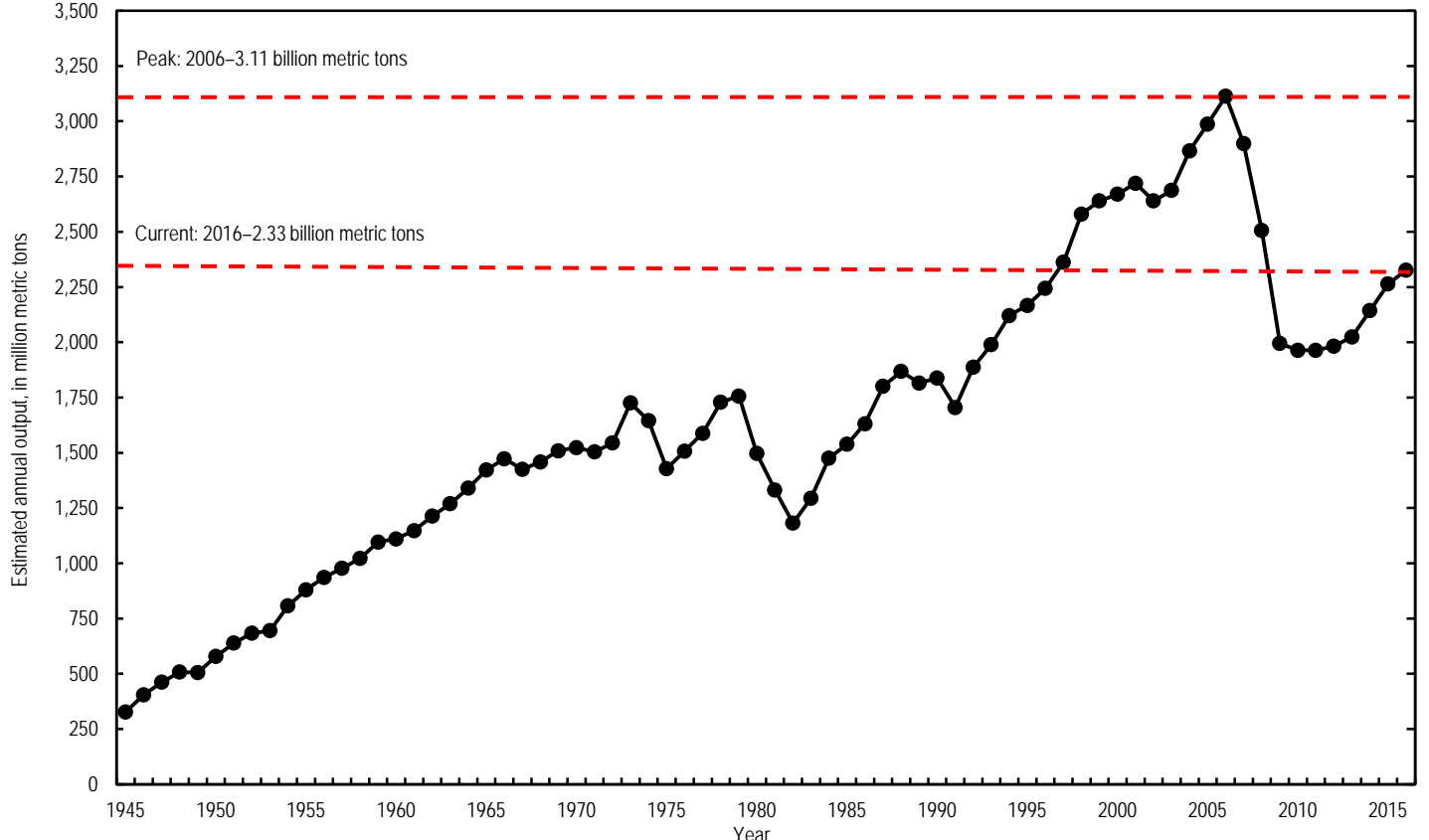


Figure 2. Estimated annual output of construction aggregates produced and shipped for consumption in the United States from 1945 through 2016.

TABLE 1  
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION<sup>1</sup>

(Thousand metric tons and thousand dollars)

Region/Division <sup>2</sup>	2015					Value 1st-4th qtr. <sup>3</sup>
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. <sup>3</sup>	
Northeast:						
New England	1,720	11,400	14,800	12,100	40,000	480,000
Middle Atlantic	15,400	42,400	49,600	39,100	147,000	1,810,000
Midwest:						
East North Central	23,700	57,400	72,500	59,200	213,000	1,850,000
West North Central	22,700	38,200	46,900	37,400	146,000	1,290,000
South:						
South Atlantic	50,200	73,300	77,500	68,600	270,000	3,580,000
East South Central	22,500	38,300	38,800	35,300	135,000	1,500,000
West South Central	50,800	56,700	66,100	56,400	230,000	2,250,000
West:						
Mountain	11,800	19,100	21,600	15,300	70,600	492,000
Pacific	14,300	17,600	20,900	17,800	70,600	672,000
Total <sup>4</sup>	223,000	356,000	405,000	342,000	1,330,000	14,000,000

See footnotes at end of table.

TABLE 1—Continued  
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION<sup>1</sup>

(Thousand metric tons and thousand dollars)

Region/Division <sup>2</sup>	2016									
	Quantity 1st qtr.	Percent change <sup>5</sup>	Quantity 2d qtr.	Percent change <sup>5</sup>	Quantity 3d qtr.	Percent change <sup>5</sup>	Quantity 4th qtr.	Percent change <sup>5</sup>	Quantity 1st-4th qtr. <sup>3</sup>	Value 1st-4th qtr. <sup>3</sup>
Northeast:										
New England	3,050	77.4	12,300	8.1	14,500	-2.1	9,890	-22.3	39,800	503,000
Middle Atlantic	19,500	26.2	42,100	-0.8	46,000	-7.9	33,100	-18.2	141,000	1,820,000
Midwest:										
East North Central	29,400	24.1	63,400	10.5	71,200	-1.9	55,100	-7.3	219,000	1,970,000
West North Central	24,300	6.9	37,200	-2.5	39,400	-19.3	33,300	-12.2	135,000	1,270,000
South:										
South Atlantic	66,400	32.2	80,700	10.1	81,500	5.0	70,900	3.3	300,000	4,180,000
East South Central	26,600	17.8	37,600	-1.6	38,300	-1.5	33,600	-5.0	136,000	1,600,000
West South Central	58,200	14.4	58,000	2.3	60,700	-8.9	54,500	-3.5	231,000	2,360,000
West:										
Mountain	12,500	5.3	21,900	14.7	25,200	14.2	15,900	3.7	78,300	589,000
Pacific	15,000	5.1	18,500	5.2	21,000	0.4	16,700	-6.6	71,300	704,000
Total <sup>4</sup>	269,000	20.6	375,000	5.6	395,000	-2.7	328,000	-4.1	1,370,000	15,200,000

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

<sup>2</sup>Sales region equivalent to U.S. Census Bureau Geographic Division as follows: New England (CT, MA, ME, NH, RI, VT); Middle Atlantic (NJ, NY, PA); East North Central (IL, IN, MI, OH, WI); West North Central (IA, KS, MN, MO, NE, ND, SD); South Atlantic (DE, FL, GA, MD, NC, SC, VA, WV); East South Central (AL, KY, MS, TN); West South Central (AR, LA, OK, TX); Mountain (AZ, CO, ID, MT, NM, NV, UT, WY); Pacific (AK, CA, HI, OR, WA).

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

<sup>4</sup>Includes all 50 States.

<sup>5</sup>Compared with same period of preceding year; all percentages are calculated using unrounded totals.

TABLE 2  
CONSTRUCTION SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN  
THE UNITED STATES, BY DIVISION<sup>1</sup>

(Thousand metric tons and thousand dollars)

Region/Division <sup>2</sup>	2015					Value 1st-4th qtr. <sup>3</sup>
	1st qtr.	2d qtr.	Quantity		1st-4th qtr. <sup>3</sup>	
Northeast:						
New England	1,150	8,830	15,800	12,500	42,000	401,000
Middle Atlantic	6,200	16,500	19,700	15,700	58,100	566,000
Midwest:						
East North Central	10,200	34,300	44,100	32,600	152,000	1,030,000
West North Central	10,300	36,600	50,100	29,800	127,000	823,000
South:						
South Atlantic	10,700	14,800	15,200	13,400	54,200	484,000
East South Central	3,680	7,640	8,490	6,540	35,100	262,000
West South Central	27,300	30,700	34,600	30,000	123,000	1,040,000
West:						
Mountain	31,200	51,500	57,200	43,300	183,000	1,580,000
Pacific	30,900	40,100	45,400	38,700	155,000	1,790,000
Total <sup>4</sup>	159,000	254,000	290,000	235,000	937,000	8,040,000

See footnotes at end of table.

TABLE 2—Continued  
CONSTRUCTION SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION<sup>1</sup>

(Thousand metric tons and thousand dollars)

Region/Division <sup>2</sup>	2016									
	Quantity 1st qtr.	Percent change <sup>5</sup>	Quantity 2d qtr.	Percent change <sup>5</sup>	Quantity 3d qtr.	Percent change <sup>5</sup>	Quantity 4th qtr.	Percent change <sup>5</sup>	Quantity 1st-4th qtr. <sup>3</sup>	Value 1st-4th qtr. <sup>3</sup>
Northeast:										
New England	2,290	98.4	9,330	5.7	15,000	-5.5	9,520	-31.8	39,800	406,000
Middle Atlantic	8,820	42.3	16,400	-0.8	17,900	-10.2	13,400	-17.3	56,500	577,000
Midwest:										
East North Central	13,900	36.9	35,000	2.1	42,300	-4.2	30,000	-8.9	152,000	1,080,000
West North Central	11,400	11.2	36,200	-1.0	48,500	-3.4	28,500	-4.6	125,000	832,000
South:										
South Atlantic	13,400	24.9	16,300	10.2	16,700	8.7	15,000	10.7	61,400	562,000
East South Central	4,840	31.5	8,180	7.2	8,410	-0.9	6,930	5.6	37,100	299,000
West South Central	30,400	11.2	30,000	-2.2	31,000	-11.8	27,300	-9.9	119,000	1,050,000
West:										
Mountain	30,300	-3.0	58,800	14.2	60,200	5.0	45,900	5.6	195,000	1,750,000
Pacific	29,300	-5.2	40,500	1.0	45,400	-0.1	36,400	-6.2	152,000	1,830,000
Total <sup>4</sup>	174,000	9.9	267,000	5.3	289,000	-0.3	228,000	-3.0	959,000	8,580,000

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

<sup>2</sup>Sales region equivalent to U.S. Census Bureau Geographic Division as follows: New England (CT, MA, ME, NH, RI, VT); Middle Atlantic (NJ, NY, PA); East North Central (IL, IN, MI, OH, WI); West North Central (IA, KS, MN, MO, NE, ND, SD); South Atlantic (DE, FL, GA, MD, NC, SC, VA, WV); East South Central (AL, KY, MS, TN); West South Central (AR, LA, OK, TX); Mountain (AZ, CO, ID, MT, NM, NV, UT, WY); Pacific (AK, CA, HI, OR, WA).

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

<sup>4</sup>Includes all 50 States.

<sup>5</sup>Compared with same period of preceding year; all percentages are calculated using unrounded totals.

TABLE 3  
CONSTRUCTION AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION<sup>1</sup>

(Thousand metric tons and thousand dollars)

Region/Division <sup>2</sup>	2015					
	Quantity				Value	
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. <sup>3</sup>	1st-4th qtr. <sup>3</sup>
Northeast:						
New England	2,870	20,200	30,600	24,600	82,100	882,000
Middle Atlantic	21,600	58,900	69,300	54,800	205,000	2,370,000
Midwest:						
East North Central	33,800	91,700	117,000	91,800	365,000	2,870,000
West North Central	33,000	74,800	97,000	67,200	273,000	2,110,000
South:						
South Atlantic	60,900	88,100	92,700	82,000	324,000	4,070,000
East South Central	26,200	45,900	47,300	41,800	170,000	1,760,000
West South Central	78,200	87,500	101,000	86,500	353,000	3,280,000
West:						
Mountain	43,100	70,600	78,800	58,600	254,000	2,070,000
Pacific	45,200	57,700	66,400	56,500	226,000	2,460,000
Total <sup>4</sup>	382,000	610,000	695,000	577,000	2,260,000	22,100,000

See footnotes at end of table.

TABLE 3—Continued  
CONSTRUCTION AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION<sup>1</sup>

(Thousand metric tons and thousand dollars)

Region/Division <sup>2</sup>	2016									
	Quantity 1st qtr.	Percent change <sup>5</sup>	Quantity 2d qtr.	Percent change <sup>5</sup>	Quantity 3d qtr.	Percent change <sup>5</sup>	Quantity 4th qtr.	Percent change <sup>5</sup>	Quantity 1st-4th qtr. <sup>3</sup>	Value 1st-4th qtr. <sup>3</sup>
Northeast:										
New England	5,340	85.9	21,600	7.0	29,500	-3.8	19,400	-27.0	79,600	909,000
Middle Atlantic	28,300	30.8	58,500	-0.8	63,900	-8.5	46,400	-18.0	197,000	2,400,000
Midwest:										
East North Central	43,300	28.0	98,400	7.4	114,000	-2.8	85,100	-7.9	371,000	3,050,000
West North Central	35,700	8.2	73,400	-1.8	87,800	-10.5	61,800	-8.7	260,000	2,100,000
South:										
South Atlantic	79,800	30.9	97,100	10.1	98,200	5.6	85,900	4.6	361,000	4,740,000
East South Central	31,400	19.7	45,800	-0.1	46,700	-1.4	40,500	-3.2	173,000	1,900,000
West South Central	88,600	13.3	88,100	0.7	91,700	-9.9	81,800	-5.6	350,000	3,410,000
West:										
Mountain	42,800	-0.7	80,800	14.3	85,400	7.7	61,800	5.1	274,000	2,340,000
Pacific	44,300	-1.9	59,100	2.3	66,400	0.0	53,100	-6.3	223,000	2,530,000
Total <sup>4</sup>	444,000	16.1	643,000	5.4	684,000	-1.7	556,000	-3.7	2,330,000	23,800,000

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

<sup>2</sup>Sales region equivalent to U.S. Census Bureau Geographic Division as follows: New England (CT, MA, ME, NH, RI, VT); Middle Atlantic (NJ, NY, PA); East North Central (IL, IN, MI, OH, WI); West North Central (IA, KS, MN, MO, NE, ND, SD); South Atlantic (DE, FL, GA, MD, NC, SC, VA, WV); East South Central (AL, KY, MS, TN); West South Central (AR, LA, OK, TX); Mountain (AZ, CO, ID, MT, NM, NV, UT, WY); Pacific (AK, CA, HI, OR, WA).

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

<sup>4</sup>Includes all 50 States.

<sup>5</sup>Compared with same period of preceding year; all percentages are calculated using unrounded totals.

TABLE 4  
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE<sup>1</sup>

(Thousand metric tons and thousand dollars)

State	2015					
	Quantity					Value
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st–4th qtr. <sup>2</sup>	1st–4th qtr. <sup>2</sup>
Alabama	7,650	10,300	10,700	9,810	38,500	431,000
Alaska	(3)	(3)	(3)	(3)	1,040	12,400
Arizona	2,220	2,740	2,100	2,290	9,360	74,800
Arkansas	5,750	6,690	7,260	7,040	26,700	226,000
California	8,700	9,200	10,900	9,550	38,400	331,000
Colorado	2,570	3,330	4,340	2,650	12,900	114,000
Connecticut	346	2,570	3,470	2,970	9,360	142,000
Delaware	W	W	W	W	W	W
Florida	13,800	14,700	16,100	17,000	61,600	701,000
Georgia	9,720	13,400	13,800	12,300	49,300	652,000
Hawaii	(3)	(3)	(3)	(3)	4,460	88,000
Idaho	501	1,240	2,140	1,130	5,010	33,800
Illinois	5,310	15,400	18,900	14,700	54,300	569,000
Indiana	5,620	12,800	16,600	14,500	49,500	381,000
Iowa	3,870	11,000	11,800	9,100	35,800	366,000
Kansas	2,980	4,570	5,220	4,520	17,300	159,000
Kentucky	7,930	16,200	15,800	14,600	54,500	500,000
Louisiana	W	W	W	W	W	W
Maine	129	1,210	1,750	1,120	4,220	33,100
Maryland	2,990	6,680	7,520	5,630	22,800	245,000
Massachusetts	596	3,370	3,930	3,910	11,800	160,000
Michigan	1,770	7,080	11,000	7,840	27,700	201,000
Minnesota	468	2,340	3,040	1,760	7,610	95,700
Mississippi	395	523	529	436	1,880	54,700
Missouri	13,100	15,900	22,400	18,800	70,300	523,000
Montana	(3)	(3)	(3)	(3)	2,790	28,000
Nebraska	1,500	2,130	2,170	1,850	7,650	94,800
Nevada	1,320	1,910	3,010	2,300	8,530	80,500
New Hampshire	339	1,360	2,140	1,710	5,550	51,500
New Jersey	1,950	4,770	5,760	4,790	17,300	153,000
New Mexico	1,150	1,760	1,540	1,080	5,530	49,500
New York	2,880	11,700	14,600	11,100	40,300	478,000
North Carolina	8,650	14,800	14,400	12,000	49,800	783,000
North Dakota	(3)	(3)	(3)	(3)	776	5,640
Ohio	5,830	15,500	20,100	17,200	58,700	525,000
Oklahoma	7,980	9,590	10,600	9,320	37,400	328,000
Oregon	2,880	4,560	5,820	4,530	17,800	129,000
Pennsylvania	10,600	26,000	29,300	23,100	89,000	1,170,000
Rhode Island	136	815	718	684	2,350	25,200
South Carolina	4,650	6,320	6,680	6,200	23,800	273,000
South Dakota	786	2,190	2,270	1,330	6,580	47,600
Tennessee	6,570	11,200	11,800	10,500	40,100	511,000
Texas	36,400	39,600	47,300	39,100	162,000	1,610,000
Utah	1,470	2,610	2,040	2,080	8,200	57,800
Vermont	172	2,040	2,830	1,690	6,740	69,100
Virginia	7,530	13,200	14,200	11,500	46,400	748,000
Washington	2,690	3,860	4,200	3,720	14,500	212,000
West Virginia	2,740	3,960	4,530	3,750	15,000	165,000
Wisconsin	5,120	6,590	5,860	4,960	22,500	168,000
Wyoming	2,620	5,540	6,450	3,740	18,400	52,800

See footnotes at end of table.

TABLE 4—Continued  
 CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE<sup>1</sup>

(Thousand metric tons and thousand dollars)

State	2016									
	Quantity 1st qtr.	Percent change <sup>4</sup>	Quantity 2d qtr.	Percent change <sup>4</sup>	Quantity 3d qtr.	Percent change <sup>4</sup>	Quantity 4th qtr.	Percent change <sup>4</sup>	Quantity 1st–4th qtr. <sup>2</sup>	Value 1st–4th qtr. <sup>2</sup>
Alabama	9,230	20.6	11,200	8.7	10,100	-5.8	9,910	1.0	40,400	475,000
Alaska	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	1,040	13,100
Arizona	2,370	6.9	2,530	-7.8	2,210	4.8	1,940	-15.5	9,040	75,900
Arkansas	6,860	19.3	8,020	19.8	7,400	1.9	7,310	3.7	29,600	262,000
California	8,120	-6.6	9,520	3.5	9,940	-9.0	8,420	-11.8	36,000	326,000
Colorado	2,370	-7.7	3,270	-1.7	4,620	6.4	3,270	23.4	13,500	126,000
Connecticut	704	103.6	3,070	19.6	3,170	-8.7	2,450	-17.6	9,400	150,000
Delaware	W	W	W	W	W	W	W	W	W	W
Florida	18,000	30.3	18,500	25.9	17,000	5.7	16,500	-2.8	70,000	837,000
Georgia	12,900	33.0	15,400	14.7	14,900	8.0	12,200	-1.5	55,400	770,000
Hawaii	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	4,460	92,400
Idaho	471	-5.9	2,200	77.6	4,710	120.0	1,330	17.3	8,700	61,700
Illinois	5,290	-0.5	15,000	-2.7	17,100	-9.8	13,000	-11.1	50,400	554,000
Indiana	6,570	16.9	13,400	4.5	14,900	-10.5	12,900	-10.9	47,700	385,000
Iowa	5,020	29.5	12,000	8.9	11,900	1.1	9,440	3.8	38,400	412,000
Kansas	3,390	14.1	4,450	-2.5	4,500	-13.8	4,020	-11.2	16,400	158,000
Kentucky	7,950	0.3	13,500	-16.8	15,300	-3.3	13,900	-5.0	50,500	487,000
Louisiana	W	W	W	W	W	W	W	W	W	W
Maine	249	92.6	1,140	-5.7	1,460	-16.7	989	-11.9	3,840	31,600
Maryland	3,120	4.2	5,630	-15.7	6,660	-11.4	5,590	-0.8	21,000	237,000
Massachusetts	1,000	68.7	3,860	14.4	3,930	0.1	3,150	-19.4	11,900	170,000
Michigan	2,970	67.3	10,300	45.9	11,400	3.6	7,950	1.5	32,700	249,000
Minnesota	235	-49.9	2,170	-7.1	2,930	-3.8	1,390	-21.1	6,720	88,800
Mississippi	427	8.1	640	22.5	602	13.7	530	21.6	2,200	67,000
Missouri	13,400	2.1	14,100	-11.1	15,300	-31.8	15,200	-18.9	58,100	454,000
Montana	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	2,790	29,400
Nebraska	1,610	7.0	2,050	-3.9	2,130	-1.9	1,860	0.6	7,640	99,400
Nevada	2,160	64.3	3,670	92.5	4,420	46.8	2,480	7.7	12,700	126,000
New Hampshire	450	32.4	1,820	33.3	2,070	-3.5	1,210	-29.2	5,540	54,000
New Jersey	2,240	14.9	4,600	-3.5	4,620	-19.7	4,150	-13.4	15,600	145,000
New Mexico	920	-19.8	1,510	-13.8	1,430	-7.5	1,330	23.1	5,190	48,800
New York	4,630	60.9	12,200	4.3	13,900	-4.7	8,840	-20.7	39,500	493,000
North Carolina	12,300	42.8	15,800	7.0	15,800	9.6	13,600	14.1	57,500	951,000
North Dakota	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	776	5,920
Ohio	7,340	25.9	16,900	8.5	19,200	-4.4	16,200	-5.5	59,700	561,000
Oklahoma	9,420	18.1	9,390	-2.1	9,440	-10.6	7,500	-19.6	35,800	329,000
Oregon	3,850	34.0	5,460	20.0	6,600	13.4	5,160	13.9	21,100	161,000
Pennsylvania	12,600	18.9	25,300	-2.6	27,500	-6.1	20,100	-13.3	85,500	1,180,000
Rhode Island	246	80.8	593	-27.2	737	2.5	786	14.9	2,360	26,500
South Carolina	6,930	49.3	7,750	22.7	7,550	13.0	6,720	8.4	29,000	349,000
South Dakota	649	-17.4	2,380	8.5	2,560	12.8	1,350	1.5	6,940	52,700
Tennessee	8,950	36.2	12,300	9.6	12,300	4.2	9,310	-11.0	42,900	574,000
Texas	41,000	12.7	39,900	0.6	43,200	-8.7	38,900	-0.5	163,000	1,690,000
Utah	1,240	-15.4	3,300	26.5	2,760	35.4	2,110	1.3	9,410	69,700
Vermont	396	129.5	1,820	-11.2	3,180	12.3	1,300	-23.1	6,700	72,000
Virginia	9,250	22.8	12,700	-4.0	13,700	-3.4	12,200	6.2	47,800	810,000
Washington	3,010	12.1	3,560	-8.0	4,490	6.9	3,110	-16.3	14,200	218,000
West Virginia	3,690	34.4	4,800	21.0	5,730	26.3	3,970	6.0	18,200	210,000
Wisconsin	7,200	40.8	7,880	19.5	8,580	46.5	4,960	0.0	28,600	225,000
Wyoming	2,930	12.0	5,460	-1.5	5,060	-21.6	3,410	-8.7	16,900	51,000

W Withheld to avoid disclosing company proprietary data.

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

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

<sup>3</sup>State not included in quarterly survey.

<sup>4</sup>Compared with same period of preceding year; all percentages are calculated using unrounded totals.

TABLE 5  
CONSTRUCTION SAND AND GRAVEL SOLD OR USED BY PRODUCERS  
IN THE UNITED STATES, BY STATE<sup>1</sup>

(Thousand metric tons and thousand dollars)

State	2015					
	Quantity				Value	
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st–4th qtr. <sup>2</sup>	1st–4th qtr. <sup>2</sup>
Alabama	(3)	(3)	(3)	(3)	8,780	58,200
Alaska	(3)	(3)	(3)	(3)	7,080	55,800
Arizona	9,470	11,300	10,900	8,860	40,500	395,000
Arkansas	1,930	2,060	1,950	2,170	8,110	76,600
California	20,400	24,400	27,700	24,600	97,100	1,290,000
Colorado	7,020	10,500	11,700	8,880	38,100	316,000
Connecticut	171	1,770	2,880	2,270	7,100	73,500
Delaware	324	527	555	508	1,910	18,100
Florida	4,280	4,900	4,850	4,790	18,800	168,000
Georgia	1,420	1,530	1,500	1,400	5,850	40,300
Hawaii	(3)	(3)	(3)	(3)	786	16,500
Idaho	2,050	3,370	5,080	2,930	13,400	109,000
Illinois	1,610	6,770	7,850	5,940	22,200	166,000
Indiana	2,200	4,610	6,160	4,850	17,800	114,000
Iowa	1,430	4,970	5,650	4,220	16,300	117,000
Kansas	1,660	3,250	3,150	2,390	10,500	62,000
Kentucky	889	2,340	2,300	1,960	7,490	40,500
Louisiana	3,050	3,740	3,560	3,380	13,700	167,000
Maine	143	2,130	3,580	2,650	8,500	69,100
Maryland	739	1,650	2,200	1,650	6,240	80,900
Massachusetts	282	2,140	4,600	4,590	11,600	119,000
Michigan	3,700	14,700	19,500	12,700	50,600	306,000
Minnesota	1,560	12,100	22,100	10,200	46,000	253,000
Mississippi	1,520	2,700	3,170	2,450	9,840	85,500
Missouri	2,310	2,840	2,860	2,360	10,400	76,800
Montana	1,240	4,710	4,870	2,920	13,700	114,000
Nebraska	1,790	3,210	3,450	3,200	11,700	84,700
Nevada	1,760	2,970	5,080	6,230	16,000	121,000
New Hampshire	419	1,690	2,800	2,010	6,910	54,800
New Jersey	1,710	3,660	3,860	3,230	12,500	121,000
New Mexico	3,570	4,170	5,220	3,700	16,700	151,000
New York	3,200	9,820	12,200	9,620	34,800	339,000
North Carolina	1,280	2,220	2,010	1,700	7,210	47,200
North Dakota	693	7,330	9,890	5,750	23,700	185,000
Ohio	2,670	8,170	10,600	9,190	30,600	268,000
Oklahoma	1,820	2,140	2,510	2,340	8,800	60,400
Oregon	2,030	3,120	4,240	3,220	12,600	120,000
Pennsylvania	1,300	3,050	3,660	2,850	10,900	106,000
Rhode Island	(3)	(3)	(3)	(3)	3,710	46,400
South Carolina	1,460	2,080	2,100	1,710	7,350	46,000
South Dakota	814	2,900	3,000	1,720	8,420	44,700
Tennessee	1,270	2,590	3,020	2,130	9,010	77,200
Texas	20,500	22,800	26,600	22,200	92,100	735,000
Utah	4,800	12,200	10,900	8,120	36,100	287,000
Vermont	139	1,100	1,950	1,030	4,220	38,000
Virginia	1,090	1,770	1,830	1,490	6,190	77,700
Washington	8,540	12,600	13,400	10,900	45,500	383,000
West Virginia	104	163	169	159	595	5,550
Wisconsin	(3)	(3)	(3)	(3)	30,800	174,000
Wyoming	1,340	2,300	3,420	1,720	8,780	82,400

See footnotes at end of table.



TABLE 5—Continued  
CONSTRUCTION SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE<sup>1</sup>

(Thousand metric tons and thousand dollars)

State	2016									
	Quantity 1st qtr.	Percent change <sup>4</sup>	Quantity 2d qtr.	Percent change <sup>4</sup>	Quantity 3d qtr.	Percent change <sup>4</sup>	Quantity 4th qtr.	Percent change <sup>4</sup>	Quantity 1st–4th qtr. <sup>2</sup>	Value 1st–4th qtr. <sup>2</sup>
Alabama	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	8,780	61,100
Alaska	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	7,080	58,600
Arizona	8,430	-11.0	10,000	-11.4	10,800	-1.0	9,810	10.7	39,000	399,000
Arkansas	1,900	-1.4	2,200	6.8	2,230	14.3	2,010	-7.2	8,350	82,700
California	18,100	-11.1	25,200	3.1	26,800	-3.5	22,600	-7.9	92,700	1,290,000
Colorado	6,510	-7.2	10,300	-1.2	13,400	14.1	8,980	1.2	39,200	342,000
Connecticut	492	188.1	2,760	55.8	2,720	-5.8	2,020	-11.1	7,990	86,800
Delaware	374	15.3	513	-2.6	644	16.0	550	8.3	2,080	20,700
Florida	5,100	19.2	5,590	14.2	5,610	15.7	5,030	5.1	21,300	200,000
Georgia	1,770	24.5	2,100	37.1	1,970	31.8	1,680	20.2	7,520	54,400
Hawaii	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	786	17,400
Idaho	2,000	-2.5	3,590	6.6	4,650	-8.5	2,920	-0.4	13,100	112,000
Illinois	1,700	5.4	5,220	-23.0	6,200	-21.0	3,910	-34.2	17,000	134,000
Indiana	2,210	0.3	4,400	-4.6	5,300	-14.0	4,130	-14.8	16,000	108,000
Iowa	1,760	23.3	5,110	2.9	5,930	4.9	4,060	-3.7	16,900	128,000
Kansas	1,700	2.6	2,770	-14.9	2,570	-18.4	1,850	-22.6	8,890	55,400
Kentucky	747	-16.1	1,750	-25.2	1,730	-24.6	1,370	-30.0	5,600	31,800
Louisiana	2,910	-4.5	3,170	-15.3	3,030	-15.0	2,820	-16.6	11,900	153,000
Maine	234	63.6	1,650	-22.7	2,970	-17.0	2,120	-19.8	6,980	59,600
Maryland	966	30.7	1,510	-8.8	1,730	-21.4	1,430	-13.5	5,630	76,600
Massachusetts	859	204.7	1,990	-7.1	5,640	22.7	3,240	-29.3	11,700	127,000
Michigan	5,040	36.1	17,000	15.7	20,400	4.4	13,800	9.1	56,300	358,000
Minnesota	1,900	22.0	15,100	24.7	24,100	8.8	11,600	13.9	52,700	305,000
Mississippi	2,010	32.2	3,250	20.1	3,590	13.2	3,130	27.7	12,000	109,000
Missouri	2,440	5.7	2,660	-6.2	2,780	-2.5	2,530	7.2	10,400	81,000
Montana	1,790	44.6	4,050	-14.2	4,910	0.8	2,950	1.0	13,700	119,000
Nebraska	2,310	28.5	3,260	1.5	3,350	-3.0	2,850	-11.2	11,800	89,700
Nevada	2,570	46.3	5,370	81.0	6,200	22.2	7,430	19.2	21,600	172,000
New Hampshire	513	22.4	1,530	-9.3	1,300	-53.5	938	-53.2	4,280	35,700
New Jersey	2,120	24.0	3,470	-5.1	3,250	-15.6	2,860	-11.4	11,700	120,000
New Mexico	3,090	-13.4	4,210	0.9	4,190	-19.8	3,640	-1.6	15,100	144,000
New York	5,160	61.5	9,690	-1.3	11,300	-7.4	8,040	-16.4	34,200	349,000
North Carolina	1,880	46.9	2,290	3.1	2,180	8.7	2,220	30.9	8,580	59,000
North Dakota	430	-37.9	4,520	-38.3	6,370	-35.6	3,840	-33.1	15,200	124,000
Ohio	5,010	87.2	8,340	2.2	10,400	-1.1	8,110	-11.7	31,900	293,000
Oklahoma	2,120	16.8	2,120	-0.9	2,170	-13.6	1,870	-20.1	8,280	59,700
Oregon	2,480	22.1	3,430	9.9	4,310	1.6	3,150	-2.0	13,400	134,000
Pennsylvania	1,550	19.1	3,230	5.9	3,340	-8.8	2,480	-13.0	10,600	109,000
Rhode Island	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	3,710	48,700
South Carolina	1,900	29.7	2,490	20.2	2,540	20.9	2,280	33.3	9,210	60,600
South Dakota	864	6.2	2,800	-3.4	3,400	13.5	1,760	2.8	8,830	49,200
Tennessee	2,080	64.1	3,190	23.0	3,080	2.2	2,430	14.2	10,800	97,100
Texas	23,500	14.2	22,600	-1.0	23,500	-11.5	20,600	-6.9	90,200	756,000
Utah	4,670	-2.7	18,200	49.0	13,700	25.1	8,780	8.2	45,400	379,000
Vermont	192	37.9	1,410	27.6	2,360	21.0	1,190	15.7	5,150	48,700
Virginia	1,280	17.5	1,670	-5.9	1,800	-2.0	1,680	12.9	6,430	84,800
Washington	8,750	2.4	11,900	-5.4	14,300	6.3	10,600	-2.1	45,600	404,000
West Virginia	93	-10.4	181	11.0	185	9.7	133	-16.8	592	5,800
Wisconsin	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	30,800	182,000
Wyoming	1,250	-7.4	3,040	31.7	2,430	-28.9	1,420	-17.2	8,130	80,200

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

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

<sup>3</sup>State not included in quarterly survey.

<sup>4</sup>Compared with same period of preceding year; all percentages are calculated using unrounded totals.

TABLE 6  
CONSTRUCTION AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE<sup>1</sup>

(Thousand metric tons and thousand dollars)

State	2015					
	Quantity					Value
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st–4th qtr. <sup>2</sup>	1st–4th qtr. <sup>2</sup>
Alabama	(3)	(3)	(3)	(3)	47,300	489,000
Alaska	(3)	(3)	(3)	(3)	8,120	68,300
Arizona	11,700	14,100	13,000	11,200	49,900	470,000
Arkansas	7,670	8,750	9,210	9,210	34,800	302,000
California	29,100	33,600	38,700	34,200	135,000	1,620,000
Colorado	9,580	13,800	16,100	11,500	50,900	431,000
Connecticut	517	4,340	6,360	5,250	16,500	215,000
Delaware	W	W	W	W	W	W
Florida	18,100	19,600	21,000	21,800	80,400	869,000
Georgia	11,100	15,000	15,300	13,700	55,200	693,000
Hawaii	(3)	(3)	(3)	(3)	5,240	104,000
Idaho	2,550	4,600	7,220	4,060	18,400	143,000
Illinois	6,920	22,200	26,800	20,600	76,500	735,000
Indiana	7,820	17,400	22,800	19,400	67,400	495,000
Iowa	5,310	16,000	17,500	13,300	52,100	483,000
Kansas	4,640	7,820	8,370	6,910	27,700	221,000
Kentucky	8,820	18,500	18,100	16,600	62,000	541,000
Louisiana	W	W	W	W	W	W
Maine	272	3,350	5,330	3,770	12,700	102,000
Maryland	3,730	8,330	9,720	7,280	29,100	326,000
Massachusetts	877	5,510	8,520	8,500	23,400	279,000
Michigan	5,480	21,800	30,600	20,500	78,400	508,000
Minnesota	2,030	14,500	25,200	12,000	53,600	349,000
Mississippi	1,910	3,230	3,700	2,880	11,700	140,000
Missouri	15,500	18,700	25,300	21,200	80,700	599,000
Montana	(3)	(3)	(3)	(3)	16,500	142,000
Nebraska	3,290	5,340	5,620	5,050	19,300	179,000
Nevada	3,070	4,880	8,080	8,540	24,600	202,000
New Hampshire	759	3,050	4,940	3,710	12,500	106,000
New Jersey	3,660	8,430	9,620	8,020	29,700	274,000
New Mexico	4,710	5,930	6,760	4,780	22,200	200,000
New York	6,080	21,500	26,700	20,800	75,100	817,000
North Carolina	9,930	17,000	16,400	13,700	57,000	830,000
North Dakota	(3)	(3)	(3)	(3)	24,400	190,000
Ohio	8,500	23,700	30,700	26,400	89,300	793,000
Oklahoma	9,800	11,700	13,100	11,700	46,200	388,000
Oregon	4,910	7,680	10,100	7,750	30,400	249,000
Pennsylvania	11,900	29,000	33,000	26,000	99,900	1,280,000
Rhode Island	(3)	(3)	(3)	(3)	6,060	71,600
South Carolina	6,110	8,400	8,780	7,910	31,200	319,000
South Dakota	1,600	5,090	5,260	3,050	15,000	92,300
Tennessee	7,840	13,800	14,900	12,600	49,100	588,000
Texas	57,000	62,400	73,900	61,300	255,000	2,340,000
Utah	6,260	14,800	13,000	10,200	44,300	345,000
Vermont	311	3,140	4,780	2,730	11,000	107,000
Virginia	8,620	15,000	16,000	13,000	52,600	826,000
Washington	11,200	16,500	17,700	14,600	59,900	595,000
West Virginia	2,850	4,130	4,700	3,910	15,600	171,000
Wisconsin	(3)	(3)	(3)	(3)	53,400	342,000
Wyoming	3,960	7,840	9,870	5,460	27,100	135,000

See footnotes at end of table.

TABLE 6—Continued  
CONSTRUCTION AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE<sup>1</sup>

(Thousand metric tons and thousand dollars)

State	2016									
	Quantity 1st qtr.	Percent change <sup>4</sup>	Quantity 2d qtr.	Percent change <sup>4</sup>	Quantity 3d qtr.	Percent change <sup>4</sup>	Quantity 4th qtr.	Percent change <sup>4</sup>	Quantity 1st–4th qtr. <sup>2</sup>	Value 1st–4th qtr. <sup>2</sup>
Alabama	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	49,200	536,000
Alaska	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	8,120	71,700
Arizona	10,800	-7.6	12,600	-10.7	13,000	-0.1	11,700	5.3	48,100	475,000
Arkansas	8,750	14.1	10,200	16.8	9,630	4.5	9,320	1.2	37,900	345,000
California	26,200	-9.8	34,700	3.2	36,700	-5.0	31,100	-9.0	129,000	1,620,000
Colorado	8,880	-7.4	13,600	-1.3	18,000	12.0	12,200	6.3	52,700	468,000
Connecticut	1,200	131.5	5,830	34.4	5,890	-7.4	4,470	-14.8	17,400	236,000
Delaware	W	W	W	W	W	W	W	W	W	W
Florida	23,100	27.6	24,100	23.0	22,600	8.0	21,500	-1.1	91,400	1,040,000
Georgia	14,700	31.9	17,500	17.0	16,900	10.3	13,800	0.7	62,900	824,000
Hawaii	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	5,240	110,000
Idaho	2,470	-3.2	5,790	25.7	9,350	29.6	4,240	4.5	21,800	174,000
Illinois	6,980	0.9	20,200	-8.9	23,300	-13.1	17,000	-17.8	67,400	688,000
Indiana	8,780	12.3	17,800	2.1	20,200	-11.4	17,100	-11.9	63,800	493,000
Iowa	6,780	27.9	17,100	7.0	17,900	2.3	13,500	1.4	55,300	540,000
Kansas	5,100	10.0	7,220	-7.6	7,070	-15.5	5,870	-15.1	25,300	213,000
Kentucky	8,700	-1.3	15,200	-17.8	17,000	-6.0	15,200	-8.0	56,100	519,000
Louisiana	W	W	W	W	W	W	W	W	W	W
Maine	482	77.4	2,790	-16.5	4,430	-16.9	3,110	-17.5	10,800	91,200
Maryland	4,080	9.5	7,140	-14.4	8,390	-13.7	7,010	-3.7	26,600	313,000
Massachusetts	1,860	112.4	5,850	6.1	9,570	12.3	6,400	-24.8	23,700	296,000
Michigan	8,010	46.2	27,400	25.5	31,800	4.1	21,800	6.2	89,000	607,000
Minnesota	2,140	5.4	17,300	19.6	27,000	7.3	13,000	8.8	59,400	393,000
Mississippi	2,440	27.2	3,890	20.5	4,200	13.3	3,660	26.8	14,200	176,000
Missouri	15,900	2.6	16,800	-10.3	18,100	-28.5	17,800	-16.0	68,500	535,000
Montana	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	16,500	148,000
Nebraska	3,910	18.8	5,310	-0.6	5,480	-2.6	4,700	-6.9	19,400	189,000
Nevada	4,730	54.0	9,040	85.5	10,600	31.4	9,910	16.1	34,300	298,000
New Hampshire	963	26.9	3,350	9.7	3,370	-31.8	2,150	-42.2	9,820	89,600
New Jersey	4,360	19.1	8,070	-4.2	7,880	-18.1	7,010	-12.6	27,300	265,000
New Mexico	4,010	-15.0	5,720	-3.5	5,610	-17.0	4,970	4.0	20,300	192,000
New York	9,790	61.2	21,900	1.7	25,200	-5.9	16,900	-18.7	73,700	842,000
North Carolina	14,200	43.3	18,100	6.5	17,900	9.5	15,900	16.2	66,100	1,010,000
North Dakota	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	15,900	130,000
Ohio	12,300	45.1	25,200	6.3	29,700	-3.2	24,400	-7.7	91,600	854,000
Oklahoma	11,500	17.8	11,500	-1.9	11,600	-11.1	9,370	-19.7	44,000	388,000
Oregon	6,340	29.1	8,900	15.9	10,900	8.4	8,320	7.3	34,500	295,000
Pennsylvania	14,200	18.9	28,500	-1.7	30,800	-6.4	22,500	-13.3	96,100	1,290,000
Rhode Island	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	6,070	75,300
South Carolina	8,830	44.6	10,200	22.1	10,100	14.9	9,000	13.8	38,200	409,000
South Dakota	1,510	-5.4	5,180	1.7	5,960	13.2	3,120	2.2	15,800	102,000
Tennessee	11,000	40.7	15,500	12.1	15,400	3.8	11,700	-6.7	53,700	671,000
Texas	64,500	13.2	62,400	0.0	66,700	-9.7	59,500	-2.8	253,000	2,450,000
Utah	5,910	-5.6	21,500	45.0	16,500	26.7	10,900	6.8	54,800	449,000
Vermont	587	88.6	3,220	2.4	5,540	15.9	2,500	-8.4	11,800	121,000
Virginia	10,500	22.2	14,300	-4.2	15,500	-3.2	13,900	7.0	54,300	895,000
Washington	11,800	4.7	15,500	-6.0	18,800	6.4	13,800	-5.7	59,800	621,000
West Virginia	3,780	32.8	4,980	20.6	5,910	25.7	4,110	5.1	18,800	216,000
Wisconsin	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	59,500	407,000
Wyoming	4,180	5.4	8,490	8.3	7,490	-24.1	4,840	-11.4	25,000	131,000

W Withheld to avoid disclosing company proprietary data.

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

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

<sup>3</sup>State not included in quarterly survey.

<sup>4</sup>Compared with same period of preceding year; all percentages are calculated using unrounded totals.