

Mineral Industry Surveys

For information, contact:

Jason Christopher Willett, Crushed Stone Commodity Specialist
Telephone: (703) 648-6473
E-mail: jwillett@usgs.gov

Marc A. Angulo (Data)
Telephone: (703) 648-7945
E-mail: mangulo@usgs.gov

Wallace P. Bolen, Sand and Gravel Commodity Specialist
Telephone: (703) 648-7727
E-mail: wbolen@usgs.gov

Internet: <http://minerals.usgs.gov/minerals>

CRUSHED STONE AND SAND AND GRAVEL IN THE FIRST QUARTER 2008

An estimated 248 million metric tons (Mt) of *crushed stone* was produced and shipped for consumption in the United States in the first quarter of 2008, a decrease of 14% compared with that of the same period of 2007.

The estimated U.S. output of *construction sand and gravel* produced and shipped for consumption in the first quarter of 2008 was 166 Mt, a decrease of 18% compared with that of the same period of 2007.

An estimated 414 Mt of total *aggregates* was produced and shipped for consumption in the United States in the first quarter of 2008, a decrease of 16% compared with that of the same period of 2007.

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.

The estimated *portland cement* consumption decreased by 13% in the first quarter of 2008 compared with that of the same period of 2007. This information is produced by the USGS monthly survey of U.S. cement producers.

Production-for-consumption estimates are generated independently for each State, each geographic division, and the 48 conterminous States, which are treated as separate statistical sample areas. Therefore, differences may exist between the total for a division and the sum of the State totals in the same geographic division. Similarly, differences may exist between the estimations of total *aggregates* and estimations performed separately for *crushed stone* and *construction sand and gravel* for a specific statistical area.

This survey is a sample survey that generates production-for-consumption estimates by quarters, based on information reported voluntarily by a limited number of producing companies. Previously reported data are occasionally revised by some companies, 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 percentage changes and supersedes previously published reports.

The estimated production-for-consumption of *crushed stone* in the first quarter of 2008 decreased in seven of the nine

geographic divisions when compared with that sold or used in the first quarter of 2007. The only increases were recorded in the West South Central (13%) and the West North Central (1%) divisions. The largest decreases were recorded in the Mountain (35%) and the East South Central (26%) divisions. Production-for-consumption of crushed stone decreased in 30 of the 47 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, Florida, Pennsylvania, Georgia, and Missouri. Their combined total production-for-consumption was 93.5 Mt and represented 37% of the U.S. total.

The estimated production-for-consumption of *construction sand and gravel* in the first quarter of 2008 decreased from first quarter 2007 levels in seven of the nine geographic divisions. The only increases were recorded in the West South Central (5%) and the Middle Atlantic (9%) divisions. The largest decreases in percentages were recorded in the East South Central (38%) and the Pacific (29%) divisions. Production-for-consumption of construction sand and gravel decreased in 33 of the 46 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, California, Arizona, Washington, and Florida. Their combined total production-for-consumption was 73.5 Mt and represented 44% of the U.S. total.

The estimated production-for-consumption of *aggregates* in the first quarter of 2008 decreased in eight of the nine geographic divisions when compared with that sold or used in the first quarter of 2007. The largest decreases in percentages were recorded in the East South Central (27%) and the Pacific (26%) divisions. The only increase was recorded in the West South Central (11%) division. Production-for-consumption of aggregates decreased in 33 of the 48 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, California, Florida, Arizona, and Pennsylvania. Their combined total production-for-consumption was 145 Mt and represented 35% of the U.S. total.

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

(Thousand metric tons and thousand dollars)

Region/Division	2007					Value total ²	2008	
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	3,530	14,200	17,400	10,500	45,700	475,000	3,090	-12.6
Middle Atlantic	26,100	63,400	72,500	50,700	213,000	1,720,000	25,700	-1.4
Midwest:								
East North Central	30,700	77,600	87,400	68,400	264,000	1,820,000	24,900	-18.7
West North Central	26,000	45,400	53,100	39,300	164,000	1,400,000	26,200	0.7
South:								
South Atlantic	84,800	102,000	98,000	82,700	368,000	4,070,000	65,100	-23.2
East South Central	40,200	49,300	47,800	41,600	179,000	1,470,000	29,600	-26.4
West South Central	43,900	49,000	55,600	47,000	196,000	1,360,000	49,500	12.8
West:								
Mountain	13,600	21,100	22,400	15,700	72,800	551,000	8,790	-35.2
Pacific ⁴	18,600	20,700	22,200	18,800	80,400	899,000	15,200	-18.4
Total ²	287,000	443,000	476,000	375,000	1,590,000 ⁵	13,900,000 ⁵	248,000	-13.7

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.

³Compared with same period of preceding year; all percentages are calculated using unrounded totals.

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska and Hawaii.

TABLE 2
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

(Thousand metric tons and thousand dollars)

State	2007					Value total ²	2008	
	Quantity				Total ²		Quantity 1st qtr.	Percent change ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				
Alabama	12,700	13,600	12,900	11,800	51,100	370,000	11,400	-10.5
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Arizona	W	W	W	W	13,500	116,000	W	W
Arkansas	7,160	8,270	8,630	7,170	31,200	233,000	6,810	-4.9
California	10,500	10,700	11,600	10,500	43,200	558,000	8,460	-19.2
Colorado	2,440	3,180	3,990	2,760	12,400	99,800	2,790	14.2
Connecticut	631	3,090	4,000	2,600	10,300	105,000	660	4.7
Delaware	W	W	W	W	W	W	W	W
Florida	28,400	29,000	29,700	26,200	113,000	1,310,000	20,200	-28.8
Georgia	19,900	21,900	20,100	17,700	79,600	786,000	14,800	-25.6
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Idaho	667	1,110	1,150	1,060	4,000	25,000	416	-37.6
Illinois	9,230	22,700	25,400	19,900	77,200	646,000	6,420	-30.5
Indiana	7,890	16,800	18,700	15,900	59,400	387,000	7,060	-10.6
Iowa	3,910	10,700	12,000	8,020	34,600	302,000	4,490	14.9
Kansas	4,010	6,690	7,400	6,050	24,100	206,000	7,190	79.4
Kentucky	11,800	18,100	19,000	16,500	65,400	530,000	9,550	-18.9
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	W	5,060	42,500	W	W
Maryland	5,620	10,000	9,820	7,150	32,600	355,000	4,630	-17.7
Massachusetts	1,540	6,280	7,660	5,410	20,900	240,000	1,650	6.8
Michigan	3,540	11,400	12,500	7,510	35,000	168,000	3,120	-12.0
Minnesota	708	3,650	4,300	2,620	11,300	121,000	363	-48.7
Mississippi	723	622	760	691	2,800	53,600	754	4.3
Missouri	16,800	21,300	25,100	19,900	83,100	690,000	12,100	-27.9
Montana	W	W	W	W	3,660	21,700	W	W
Nebraska	867	1,410	1,510	1,370	5,160	50,900	1,060	22.6
Nevada	W	W	W	W	10,000	95,100	W	W
New Hampshire	615	1,870	2,060	1,360	5,900	55,400	359	-41.6
New Jersey	6,210	13,500	15,400	12,700	47,700	357,000	6,530	5.1
New Mexico	W	W	W	W	4,380	31,800	W	W
New York	4,440	15,400	19,100	12,000	51,000	469,000	4,800	8.1
North Carolina	11,300	15,000	14,600	12,000	52,900	640,000	8,960	-20.5
North Dakota	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Ohio	6,410	18,700	21,400	16,700	63,200	433,000	5,520	-13.9
Oklahoma	8,180	9,240	10,200	9,470	37,100	240,000	9,740	19.1
Oregon	5,250	7,310	7,680	5,390	25,600	213,000	3,910	-25.6
Pennsylvania	17,100	34,100	36,300	26,400	114,000	892,000	15,700	-8.0
Rhode Island	W	W	W	W	1,690	14,400	W	W
South Carolina	4,940	5,810	5,460	4,640	20,900	197,000	3,780	-23.4
South Dakota	899	1,010	2,300	1,120	5,320	32,000	771	-14.3
Tennessee	13,800	16,900	15,700	13,300	59,700	519,000	7,980	-42.2
Texas	26,800	29,500	34,400	27,900	119,000	790,000	30,700	14.3
Utah	3,330	5,020	4,810	2,860	16,000	107,000	608	-81.8
Vermont	W	W	W	W	4,170	42,800	W	W
Virginia	11,700	16,800	15,800	12,500	56,800	680,000	9,700	-17.4
Washington	2,890	2,670	2,990	2,940	11,500	128,000	2,800	-3.3
West Virginia	1,960	3,070	3,310	2,550	10,900	98,900	2,140	9.0
Wisconsin	4,320	8,520	9,730	6,710	29,300	184,000	3,750	-13.1
Wyoming	1,080	2,410	3,110	2,150	8,760	54,500	1,240	14.6

W Withheld to avoid disclosing company proprietary data.

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 divisions.

³Compared with the same period of preceding year; all percentages are calculated using unrounded totals.

⁴State not included in quarterly survey.

TABLE 3
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION¹

(Thousand metric tons and thousand dollars)

Region/Division	2007					Value total ²	2008	
	1st qtr.	2nd qtr.	Quantity		Total ²		1st qtr.	Percent change ³
Northeast:								
New England	3,310	16,800	20,400	13,500	54,000	419,000	3,190	-3.6
Middle Atlantic	9,770	20,000	21,900	16,300	68,000	536,000	10,600	8.9
Midwest:								
East North Central	18,000	51,200	56,900	40,300	166,000	905,000	14,200	-21.4
West North Central	9,640	35,000	41,900	32,600	119,000	571,000	8,050	-16.5
South:								
South Atlantic	23,800	25,500	23,300	20,400	93,000	647,000	19,200	-19.6
East South Central	10,400	14,600	12,400	10,500	47,900	1,080,000	6,490	-37.8
West South Central	29,700	35,400	40,400	33,600	139,000	926,000	31,100	4.8
West:								
Mountain	54,900	81,700	80,600	59,700	277,000	1,790,000	42,600	-22.3
Pacific ⁴	42,900	51,000	56,500	46,300	197,000	1,850,000	30,300	-29.2
Total ²	202,000	331,000	354,000	273,000	1,170,000 ⁵	8,800,000 ⁵	166,000	-18.1

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.

³Compared with same period of preceding year; all percentages are calculated using unrounded totals.

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska and Hawaii.

TABLE 4
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

(Thousand metric tons and thousand dollars)

State	2007					Value total ²	2008	
	Quantity				Total ²		Quantity	Percent change ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				1st qtr.
Alabama	4,550	5,130	3,720	3,670	17,100	865,000	3,640	-20.0
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Arizona	19,500	23,000	21,200	16,100	79,900	597,000	15,400	-21.1
Arkansas	2,010	2,410	2,210	2,270	8,900	62,400	2,110	5.1
California	29,600	35,400	37,100	27,800	130,000	1,370,000	19,300	-34.8
Colorado	5,840	13,800	13,700	12,200	45,600	329,000	7,270	24.5
Connecticut	592	3,050	2,960	1,590	8,190	74,700	346	-41.6
Delaware	W	W	W	W	2,370	20,100	W	W
Florida	9,160	8,090	7,610	7,170	32,000	225,000	7,290	-20.3
Georgia	2,320	2,840	2,270	1,810	9,250	64,000	1,550	-33.3
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Idaho	4,770	9,450	9,600	6,530	30,400	159,000	2,310	-51.5
Illinois	2,860	8,160	8,300	6,660	26,000	149,000	2,300	-19.6
Indiana	3,540	8,010	7,750	5,620	24,900	138,000	2,690	-24.0
Iowa	1,200	4,380	4,630	4,630	14,800	78,200	1,070	-11.0
Kansas	W	W	W	W	10,200	44,800	W	W
Kentucky	1,230	2,730	2,010	1,610	7,580	43,300	647	-47.3
Louisiana	4,500	6,290	4,630	4,200	19,600	168,000	3,780	-16.0
Maine	W	W	W	W	8,350	52,900	W	W
Maryland	2,400	3,490	2,880	1,750	10,500	90,900	2,060	-14.1
Massachusetts	1,560	4,740	5,600	9,240	21,100	170,000	1,410	-9.6
Michigan	2,580	12,400	15,400	7,550	37,900	171,000	2,720	5.5
Minnesota	1,550	10,800	15,800	9,520	37,700	191,000	1,560	0.7
Mississippi	3,360	5,270	4,070	3,670	16,400	119,000	2,130	-36.7
Missouri	2,830	6,100	4,620	3,130	16,700	95,900	1,770	-37.4
Montana	1,220	3,920	4,880	3,070	13,100	96,600	975	-20.3
Nebraska	W	W	W	W	12,100	60,500	W	W
Nevada	W	W	W	W	34,100	178,000	W	W
New Hampshire	570	2,390	3,150	1,970	8,080	55,500	696	22.0
New Jersey	3,330	5,520	5,530	4,270	18,700	181,000	4,230	26.8
New Mexico	3,430	4,290	4,420	3,530	15,700	141,000	2,430	-29.3
New York	4,360	8,810	10,200	8,050	31,400	224,000	4,850	11.1
North Carolina	4,170	4,680	4,380	3,540	16,800	96,400	2,780	-33.3
North Dakota	W	W	W	W	10,500	34,800	W	W
Ohio	4,260	11,600	13,500	10,000	39,300	260,000	3,090	-27.5
Oklahoma	3,930	4,500	8,510	4,290	21,200	122,000	3,410	-13.3
Oregon	4,150	4,640	6,460	6,080	21,300	166,000	2,620	-36.7
Pennsylvania	2,260	5,840	6,060	3,750	17,900	130,000	1,840	-18.5
Rhode Island	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
South Carolina	2,280	2,860	2,440	2,260	9,850	48,800	1,800	-21.4
South Dakota	3,090	3,770	6,260	3,960	17,100	66,000	2,540	-17.8
Tennessee	1,440	1,870	2,080	1,500	6,890	49,800	647	-55.1
Texas	19,100	21,400	25,500	23,200	89,300	574,000	22,400	17.2
Utah	7,280	12,800	12,200	8,980	41,300	211,000	5,350	-26.6
Vermont	W	W	W	W	6,080	41,400	W	W
Virginia	2,560	3,180	3,250	2,830	11,800	97,600	2,500	-2.2
Washington	9,010	11,000	12,800	12,600	45,400	313,000	9,070	0.7
West Virginia	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Wisconsin	4,660	11,300	12,000	10,300	38,300	187,000	4,060	-13.0
Wyoming	1,700	4,400	6,550	4,160	16,800	77,400	1,080	-36.4

W Withheld to avoid disclosing company proprietary data.

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 divisions.

³Compared with the same period of preceding year; all percentages are calculated using unrounded totals.

⁴State not included in quarterly survey.

TABLE 5
AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION¹

(Thousand metric tons and thousand dollars)

Region/Division	2007					Value total ²	2008	
	1st qtr.	2nd qtr.	Quantity		Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	7,490	31,000	38,000	23,300	99,700	894,000	6,620	-11.6
Middle Atlantic	35,100	83,500	95,100	66,900	281,000	2,250,000	35,000	-0.1
Midwest:								
East North Central	49,400	128,000	143,000	110,000	430,000	2,720,000	39,900	-19.2
West North Central	38,400	79,800	94,000	70,700	283,000	1,970,000	37,500	-2.3
South:								
South Atlantic	107,000	128,000	122,000	103,000	461,000	4,720,000	82,800	-22.9
East South Central	50,900	62,900	60,500	52,500	227,000	2,550,000	37,100	-27.1
West South Central	74,500	84,100	95,500	80,500	335,000	2,290,000	83,000	11.4
West:								
Mountain	68,400	103,000	103,000	75,300	350,000	2,340,000	51,200	-25.1
Pacific ⁴	61,400	71,700	78,800	65,100	277,000	2,750,000	45,400	-26.0
Total ²	493,000	771,000	830,000	648,000	2,760,000 ⁵	22,700,000 ⁵	414,000	-16.0

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.

³Compared with same period of preceding year; all percentages are calculated using unrounded totals.

⁴Does not include Alaska and Hawaii.

⁵Includes Alaska and Hawaii.

TABLE 6
AGGREGATES SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE¹

(Thousand metric tons and thousand dollars)

State	2007					Value total ²	2008	
	Quantity				Total ²		Quantity	Percent change ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				1st qtr.
Alabama	17,100	18,200	17,100	15,700	68,100	1,230,000	15,200	-11.0
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Arizona	22,600	27,100	24,900	18,900	93,400	713,000	18,200	-19.6
Arkansas	9,180	10,700	10,900	9,360	40,100	296,000	8,850	-3.6
California	40,000	46,200	48,700	38,300	173,000	1,930,000	27,600	-31.1
Colorado	8,810	16,700	17,900	14,600	58,000	429,000	10,600	19.9
Connecticut	1,160	5,720	7,100	4,520	18,500	179,000	1,130	-2.5
Delaware	W	W	W	W	3,030	25,600	W	W
Florida	37,400	37,100	37,400	33,400	145,000	1,540,000	27,300	-27.1
Georgia	22,300	24,500	22,400	19,600	88,800	850,000	16,500	-26.0
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Idaho	5,490	10,400	10,600	7,850	34,400	184,000	2,870	-47.7
Illinois	12,200	30,500	33,900	26,600	103,000	795,000	8,640	-29.3
Indiana	11,300	24,400	26,600	22,000	84,300	525,000	9,890	-12.6
Iowa	4,900	15,000	16,400	13,200	49,500	380,000	5,180	5.7
Kansas	5,810	9,420	10,400	8,690	34,400	251,000	9,770	68.2
Kentucky	13,100	20,300	21,200	18,300	72,900	573,000	10,600	-19.2
Louisiana	6,220	7,930	7,150	6,930	28,200	268,000	6,050	-2.8
Maine	W	W	W	W	13,400	95,400	W	W
Maryland	7,950	13,500	12,700	8,960	43,100	446,000	6,620	-16.8
Massachusetts	3,110	12,400	15,100	11,400	42,000	409,000	3,280	5.7
Michigan	6,330	23,800	27,600	15,200	72,900	339,000	5,950	-6.1
Minnesota	2,410	14,700	19,800	12,000	49,000	312,000	1,860	-23.0
Mississippi	4,350	5,410	4,940	4,470	19,200	173,000	3,570	-17.9
Missouri	19,800	26,600	29,900	23,400	99,800	786,000	14,100	-28.7
Montana	1,810	4,910	6,090	3,950	16,800	118,000	1,530	-15.9
Nebraska	2,820	4,750	5,160	4,490	17,200	111,000	3,410	20.9
Nevada	W	W	W	W	44,200	273,000	W	W
New Hampshire	1,370	4,380	4,980	3,250	14,000	111,000	921	-32.6
New Jersey	9,090	18,800	21,200	17,300	66,400	538,000	9,910	9.0
New Mexico	4,320	5,440	5,770	4,520	20,100	173,000	3,100	-28.2
New York	7,840	24,600	30,200	19,700	82,400	693,000	8,530	8.8
North Carolina	14,900	19,800	19,200	15,800	69,700	737,000	11,800	-20.9
North Dakota	W	W	W	W	10,700	35,500	W	W
Ohio	10,600	30,400	34,800	26,800	103,000	693,000	8,750	-17.1
Oklahoma	12,600	14,200	17,000	14,500	58,300	362,000	14,500	15.4
Oregon	9,360	11,800	14,200	11,700	47,000	380,000	6,440	-31.2
Pennsylvania	19,600	39,700	42,200	30,300	132,000	1,020,000	17,900	-8.5
Rhode Island	W	W	W	W	3,880	38,900	W	W
South Carolina	7,250	8,600	8,000	6,860	30,700	245,000	5,570	-23.2
South Dakota	3,860	4,450	9,230	4,860	22,400	98,000	3,270	-15.4
Tennessee	15,300	18,800	17,600	14,800	66,600	569,000	8,780	-42.7
Texas	46,600	51,400	60,200	49,700	208,000	1,360,000	53,500	14.7
Utah	10,800	17,800	17,100	11,600	57,300	318,000	5,320	-50.9
Vermont	W	W	W	W	7,890	59,900	W	W
Virginia	14,200	20,200	19,000	15,200	68,700	778,000	11,900	-16.1
Washington	12,000	13,600	15,800	15,500	56,900	441,000	12,000	-0.5
West Virginia	2,030	3,180	3,430	2,640	11,300	102,000	2,210	9.0
Wisconsin	9,640	19,700	22,200	16,000	67,600	370,000	8,380	-13.1
Wyoming	3,010	6,950	9,310	6,290	25,600	132,000	3,100	3.0

W Withheld to avoid disclosing company proprietary data.

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 divisions.

³Compared with the same period of preceding year; all percentages are calculated using unrounded totals.

⁴State not included in quarterly survey.