

Mineral Industry Surveys

For information, contact:

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

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

Glenn W. Walker (Data)
Telephone: (703) 648-7953
E-mail: gwwalker@usgs.gov

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

CRUSHED STONE AND SAND AND GRAVEL IN THE FIRST QUARTER 2010

An estimated 195 million metric tons (Mt) of *crushed stone* was produced and shipped for consumption in the United States in the first quarter of 2010, a decrease of 11% compared with that of the same period of 2009. The estimated annual output produced for consumption in 2009 was 1.13 billion metric tons (Gt), a 21% decrease compared with that of 2008.

The estimated U.S. output of *construction sand and gravel* produced and shipped for consumption in the first quarter of 2010 was 122 Mt, a decrease of 12% compared with that of the same period of 2009. The estimated annual output produced for consumption in 2009 was 782 Mt, a 25% decrease compared with that of 2008.

An estimated 317 Mt of total *construction aggregates* was produced and shipped for consumption in the United States in the first quarter of 2010, a decrease of 11% compared with that of the same period of 2009. The estimated annual output produced for consumption in 2009 was 1.92 Gt, a 23% decrease compared with that of 2008.

The above estimates are based on information reported to the U.S. Geological Survey (USGS) on its quarterly sample survey by *construction aggregates* producers.

The estimated *portland cement* consumption decreased by 15% in the first quarter of 2010 compared with that of the first quarter of 2009 and decreased by 27% for 2009, compared with consumption in 2008. 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. In most quarters, 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 almost never an indicator of the change in the demand in the State as a whole. The usual cause behind a large change can be attributed to the opening or closing of an operation, 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 first quarter of 2010 decreased in eight of the nine geographic divisions compared with that sold or used in the first quarter of 2009. Based on a limited sample set, the New England division increased even though most companies decreased by an average of 12% compared with that of the same period of 2009. The largest decreases were recorded in the Mountain (27%) and the West South Central (14%) divisions. Production-for-consumption decreased in 35 of the 47 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, Missouri, Pennsylvania, Florida, and Georgia. Their combined total production-for-consumption was 68.8 Mt and represented 35% of the U.S. total.

The estimated production-for-consumption of *construction sand and gravel* in the first quarter of 2010 decreased from first quarter 2009 levels in all of the nine geographic divisions. The largest decreases in percentages were recorded in the Mountain (17%) and the Middle Atlantic (16%) divisions. Production-for-consumption decreased in 37 of the 46 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, California, Arizona, Washington, and Utah. Their combined total production-for-consumption was 46.7 Mt and represented 38% of the U.S. total.

The estimated production-for-consumption of *construction aggregates* in the first quarter of 2010 decreased in eight of the nine geographic divisions compared with that sold or used in the first quarter of 2009. The largest decreases in percentages were recorded in the Mountain (20%) and the East South Central (14%) divisions. Production-for-consumption decreased in 36 of the 48 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, California, Florida, Missouri, and Pennsylvania. Their combined total production-for-consumption was 105 Mt and represented 33% 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	2009					Value total ²	2010	
	1st qtr.	2nd qtr.	Quantity		Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	1,850	10,300	12,300	8,590	33,000	342,000	2,130	15.2
Middle Atlantic	16,900	39,100	46,500	32,000	135,000	1,460,000	16,500	-2.2
Midwest:								
East North Central	19,900	45,100	61,200	42,200	168,000	1,400,000	18,800	-5.5
West North Central	22,200	39,700	46,300	29,500	137,000	1,190,000	19,300	-13.2
South:								
South Atlantic	48,500	59,900	62,000	49,600	220,000	2,730,000	45,100	-6.9
East South Central	25,800	32,900	34,800	30,000	124,000	1,140,000	22,400	-13.4
West South Central	47,300	46,600	44,000	37,400	176,000	1,410,000	40,800	-13.8
West:								
Mountain	11,800	15,900	17,800	10,800	56,300	435,000	8,600	-27.1
Pacific	17,000	20,000	23,400	18,200	78,600	826,000	14,800	-12.8
Total ²	219,000	311,000	344,000	262,000	1,130,000 ⁴	10,900,000 ⁴	195,000	-10.9

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.

⁴Includes all 50 States.

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

(Thousand metric tons and thousand dollars)

State	2009					Value total ²	2010	
	Quantity				Total ²		Quantity 1st qtr.	Percent change ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				
Alabama	9,590	10,900	10,100	8,540	39,200	304,000	8,470	-11.6
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Arizona	3,920	3,050	2,540	1,740	11,300	118,000	1,790	-54.3
Arkansas	7,240	7,350	7,000	6,660	28,300	221,000	6,940	-4.2
California	9,420	11,700	13,600	11,300	46,000	537,000	8,490	-9.9
Colorado	1,530	1,950	2,730	1,840	8,040	63,300	1,370	-10.1
Connecticut	407	2,810	2,720	2,090	8,020	78,700	341	-16.4
Delaware	W	W	W	W	W	W	W	W
Florida	12,100	11,200	10,800	9,860	43,900	602,000	11,200	-7.8
Georgia	10,200	11,900	11,200	9,380	42,700	482,000	8,510	-16.4
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Idaho	623	1,690	1,720	569	4,600	31,500	688	10.3
Illinois	5,850	13,700	19,600	12,700	51,800	493,000	4,900	-16.2
Indiana	5,470	10,900	13,600	11,200	41,200	291,000	5,080	-7.0
Iowa	3,440	9,380	11,000	6,760	30,500	258,000	2,510	-26.9
Kansas	2,320	3,810	4,560	3,100	13,800	113,000	2,450	5.7
Kentucky	7,890	10,600	13,200	11,600	43,300	366,000	7,090	-10.1
Louisiana	W	W	W	W	W	W	W	W
Maine	139	1,050	1,430	859	3,480	30,700	184	32.8
Maryland	3,860	5,910	6,650	5,290	21,700	207,000	3,110	-19.4
Massachusetts	758	2,770	3,760	2,830	10,100	123,000	675	-10.8
Michigan	965	4,010	5,880	3,580	14,400	72,400	919	-4.8
Minnesota	329	3,070	2,960	1,450	7,820	93,400	281	-14.4
Mississippi	789	936	924	762	3,410	72,600	619	-21.6
Missouri	14,500	20,200	22,900	14,900	72,400	610,000	12,700	-12.1
Montana	74	156	239	153	623	4,614	112	50.3
Nebraska	1,070	1,920	2,660	1,810	7,460	76,800	1,070	0
Nevada	1,820	1,980	2,040	1,560	7,400	72,400	1,640	-9.8
New Hampshire	337	1,590	1,580	1,080	4,590	47,497	305	-9.5
New Jersey	1,860	4,170	4,770	3,780	14,600	133,000	1,460	-21.4
New Mexico	983	1,530	1,910	1,360	5,790	34,900	830	-15.6
New York	3,650	11,000	12,900	8,060	35,700	335,000	2,980	-18.3
North Carolina	7,660	11,100	11,400	8,760	38,900	573,000	7,810	1.9
North Dakota	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Ohio	4,720	10,500	14,100	10,600	39,900	345,000	4,260	-9.7
Oklahoma	9,110	9,660	9,880	8,580	37,200	286,000	8,230	-9.6
Oregon	2,610	4,970	5,870	3,810	17,300	135,000	2,610	-0.3
Pennsylvania	11,400	23,900	28,800	20,200	84,500	992,000	12,100	5.8
Rhode Island	103	449	533	426	1,510	15,300	97	-6.4
South Carolina	4,010	5,000	5,070	3,950	18,000	197,000	4,300	7.3
South Dakota	584	1,300	2,170	1,440	5,490	36,700	300	-48.6
Tennessee	7,580	10,500	10,600	9,060	37,800	396,000	6,210	-18.0
Texas	29,300	28,200	25,400	20,700	104,000	804,000	24,300	-17.3
Utah	672	1,500	1,960	1,190	5,320	44,800	1,020	51.7
Vermont	106	1,630	2,300	1,300	5,330	46,400	530	398
Virginia	8,580	11,900	13,100	9,690	43,300	561,000	8,270	-3.7
Washington	4,960	3,280	3,940	3,120	15,300	154,000	3,720	-24.9
West Virginia	2,030	2,750	3,630	2,560	11,000	101,000	1,820	-10.5
Wisconsin	2,940	5,980	8,060	4,130	21,100	203,000	3,690	25.3
Wyoming	2,170	4,060	4,650	2,360	13,200	65,400	1,150	-46.9

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

(Thousand metric tons and thousand dollars)

Region/Division	2009					Value total ²	2010	
	1st qtr.	2nd qtr.	Quantity		Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	2,100	9,620	12,100	8,090	31,900	266,000	1,940	-7.8
Middle Atlantic	7,340	15,100	17,000	11,800	51,200	456,000	6,150	-16.2
Midwest:								
East North Central	12,700	35,300	48,700	29,600	126,000	763,000	11,900	-6.7
West North Central	9,070	26,500	38,000	21,700	95,300	539,000	8,000	-11.8
South:								
South Atlantic	12,800	14,600	62,000	12,700	55,000	456,000	10,800	-15.9
East South Central	4,720	7,240	7,780	5,560	25,300	180,000	3,990	-15.5
West South Central	26,200	26,600	24,900	19,700	97,500	776,000	23,200	-11.7
West:								
Mountain	29,000	46,400	56,200	37,500	169,000	1,260,000	24,000	-17.4
Pacific	23,500	30,000	38,800	27,400	120,000	1,300,000	21,300	-9.0
Total ²	139,000	212,000	254,000	178,000	782,000 ⁴	6,080,000 ⁴	122,000	-11.7

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.

⁴Includes all 50 States.

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

(Thousand metric tons and thousand dollars)

State	2009					Value total ²	2010	
	Quantity				Total ²		Quantity 1st qtr.	Percent change ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				
Alabama	1,570	1,940	1,810	1,260	6,580	43,800	1,420	-9.6
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Arizona	10,400	10,900	10,400	9,010	40,600	356,000	8,580	-17.2
Arkansas	1,770	2,070	2,050	1,430	7,310	56,800	1,460	-17.1
California	16,400	20,500	25,500	19,400	81,800	976,000	14,000	-14.8
Colorado	4,520	6,920	9,850	8,610	29,900	247,000	3,880	-14.1
Connecticut	312	1,690	1,940	1,320	5,250	52,200	221	-29.1
Delaware	277	422	62,000	475	1,690	14,300	92	-66.8
Florida	4,820	4,730	4,730	4,280	18,600	152,000	4,180	-13.3
Georgia	1,310	1,500	1,350	1,210	5,370	30,800	1,150	-12.7
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Idaho	1,580	3,810	5,200	2,330	12,900	77,300	1,320	-16.6
Illinois	1,910	5,040	7,130	4,520	18,600	121,000	1,550	-18.8
Indiana	2,660	5,680	7,770	5,160	21,300	133,000	3,170	19.4
Iowa	996	3,530	4,870	2,870	12,300	73,200	804	-19.3
Kansas	1,210	2,110	2,190	1,510	7,010	36,300	1,180	-1.8
Kentucky	510	871	1,560	1,300	4,240	24,400	446	-12.6
Louisiana	4,860	4,470	4,310	3,550	17,200	182,000	4,090	-15.7
Maine	177	2,180	2,960	1,650	6,970	49,900	312	76.1
Maryland	1,770	2,260	2,530	2,060	8,620	94,300	1,260	-28.6
Massachusetts	1,000	1,960	3,370	2,370	8,710	89,000	795	-20.7
Michigan	2,160	8,500	12,700	6,940	30,200	149,000	1,500	-30.5
Minnesota	1,720	8,470	13,700	6,860	30,700	210,000	1,220	-28.7
Mississippi	1,650	3,090	3,020	2,000	9,760	73,300	1,400	-14.8
Missouri	1,960	2,870	3,110	2,030	9,970	64,500	1,560	-20.8
Montana	705	3,290	5,260	2,500	11,800	101,000	566	-19.7
Nebraska	1,870	3,360	4,030	3,340	12,600	71,000	1,930	3.0
Nevada	4,580	4,320	5,620	3,320	17,800	103,000	2,110	-53.9
New Hampshire	413	1,960	2,630	1,450	6,450	42,600	326	-21.1
New Jersey	1,840	2,820	3,170	2,460	10,300	122,000	1,560	-15.1
New Mexico	2,270	3,720	3,280	3,000	12,300	112,000	1,960	-14.0
New York	3,680	7,890	9,080	6,350	27,000	215,000	3,050	-17.1
North Carolina	1,540	1,900	1,830	1,480	6,750	42,600	1,410	-7.9
North Dakota	373	2,830	5,880	2,080	11,200	37,900	540	44.7
Ohio	2,750	6,700	8,990	6,570	25,000	189,000	2,280	-17.0
Oklahoma	3,110	3,450	3,460	3,030	13,000	87,300	2,830	-8.9
Oregon	2,150	3,160	4,850	2,710	12,900	110,000	2,270	5.5
Pennsylvania	1,820	4,340	4,730	3,000	13,900	119,000	1,540	-15.7
Rhode Island	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
South Carolina	1,340	1,610	1,480	1,160	5,600	28,300	1,040	-22.0
South Dakota	941	3,370	4,250	2,970	11,500	46,200	770	-18.1
Tennessee	986	1,340	1,390	1,000	4,720	38,800	720	-26.9
Texas	16,500	16,600	15,100	11,700	60,000	450,000	14,800	-10.0
Utah	3,220	8,430	10,300	6,340	28,200	169,000	4,210	30.9
Vermont	197	1,830	1,230	1,300	4,560	32,600	282	43.2
Virginia	1,780	2,140	2,440	2,020	8,390	94,100	1,670	-6.1
Washington	4,900	6,360	8,480	5,300	25,100	217,000	5,070	3.5
West Virginia	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Wisconsin	3,220	9,380	12,100	6,400	31,100	171,000	3,350	4.0
Wyoming	1,730	4,980	6,300	2,360	15,400	94,600	1,330	-22.8

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

(Thousand metric tons and thousand dollars)

Region/Division	2009					Value total ²	2010	
	1st qtr.	2nd qtr.	Quantity		Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	3,950	19,900	24,500	16,700	64,900	631,000	4,070	2.9
Middle Atlantic	24,300	54,200	63,500	43,800	186,000	1,930,000	22,700	-6.9
Midwest:								
East North Central	32,600	80,400	110,000	71,800	295,000	2,170,000	30,700	-5.9
West North Central	31,200	66,200	84,100	51,100	233,000	1,720,000	27,400	-12.4
South:								
South Atlantic	61,300	74,400	62,000	62,100	275,000	3,180,000	55,800	-9.0
East South Central	30,600	40,300	42,600	35,600	149,000	1,310,000	26,400	-13.8
West South Central	71,900	71,900	67,200	55,600	267,000	2,090,000	62,700	-12.8
West:								
Mountain	40,800	62,200	74,000	48,300	225,000	1,690,000	32,600	-20.0
Pacific	40,400	49,900	62,200	45,700	198,000	2,130,000	36,200	-10.5
Total ²	357,000	523,000	597,000	440,000	1,920,000 ⁴	17,100,000 ⁴	317,000	-11.2

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.

⁴Includes all 50 States.

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

(Thousand metric tons and thousand dollars)

State	2009					Value total ²	2010	
	Quantity				Total ²		Quantity	Percent change ³
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.				1st qtr.
Alabama	11,200	12,900	11,900	9,800	45,800	344,000	9,900	-11.3
Alaska	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Arizona	14,300	13,900	12,900	10,700	51,900	470,000	10,400	-27.4
Arkansas	9,010	9,420	9,050	8,080	35,600	277,000	8,400	-6.8
California	25,800	32,100	39,100	30,700	128,000	1,520,000	22,500	-13.0
Colorado	6,050	8,860	12,600	10,500	37,900	311,000	5,260	-13.1
Connecticut	719	4,500	4,660	3,400	13,300	131,000	561	-21.9
Delaware	277	422	62,000	475	1,690	14,300	92	-66.8
Florida	16,900	15,900	15,500	14,100	62,500	755,000	15,300	-9.4
Georgia	11,500	13,400	12,500	10,600	48,100	515,000	9,660	-16.0
Hawaii	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
Idaho	2,200	5,490	6,920	2,900	17,500	108,000	2,010	-9.0
Illinois	7,760	18,700	26,700	17,200	70,400	610,000	6,450	-16.8
Indiana	8,120	16,600	21,400	16,400	62,500	427,000	8,260	1.6
Iowa	4,440	12,900	15,800	9,630	42,800	329,000	3,320	-25.2
Kansas	3,530	5,920	6,740	4,610	20,800	152,000	3,640	3.1
Kentucky	8,400	11,500	14,700	12,900	47,500	386,000	7,530	-10.3
Louisiana	4,860	4,470	4,310	3,550	17,200	182,000	4,090	-15.7
Maine	316	3,230	4,400	2,500	10,400	79,100	496	57.1
Maryland	5,630	8,170	9,180	7,350	30,300	303,000	4,370	-22.3
Massachusetts	1,760	4,730	7,130	5,210	18,800	210,000	1,470	-16.5
Michigan	3,120	12,500	18,500	10,500	44,700	222,000	2,420	-22.6
Minnesota	2,040	11,500	16,600	8,320	38,500	303,000	1,500	-26.4
Mississippi	2,430	4,030	3,950	2,760	13,200	146,000	2,020	-17.0
Missouri	16,400	23,100	26,000	16,900	82,300	671,000	14,300	-13.1
Montana	779	3,450	5,500	2,660	12,400	105,000	678	-13.0
Nebraska	2,940	5,280	6,690	5,150	20,100	149,000	3,000	1.9
Nevada	6,400	6,300	7,670	4,880	25,200	170,000	3,750	-41.3
New Hampshire	750	3,550	4,210	2,530	11,000	89,100	631	-15.9
New Jersey	3,710	6,990	7,940	6,240	24,900	257,000	3,030	-18.3
New Mexico	3,260	5,250	5,190	4,360	18,100	148,000	2,790	-14.5
New York	7,330	18,900	22,000	14,400	62,700	550,000	6,030	-17.7
North Carolina	9,200	13,000	13,300	10,200	45,700	618,000	9,220	0.2
North Dakota	373	2,830	5,880	2,080	11,200	37,900	540	44.7
Ohio	7,470	17,200	23,100	17,200	64,900	534,000	6,540	-12.4
Oklahoma	12,200	13,100	13,300	11,600	50,300	375,000	11,100	-9.5
Oregon	4,760	8,130	10,700	6,530	30,100	243,000	4,870	2.3
Pennsylvania	13,300	28,300	33,600	23,200	98,400	1,120,000	13,600	2.8
Rhode Island	103	449	533	426	1,510	15,300	97	-6.4
South Carolina	5,350	6,610	6,560	5,120	23,600	218,000	5,350	0
South Dakota	1,520	4,670	6,410	4,420	17,000	82,100	1,070	-29.8
Tennessee	8,560	11,900	12,000	10,100	42,500	433,000	6,930	-19.1
Texas	45,800	44,900	40,500	32,400	164,000	1,260,000	39,100	-14.7
Utah	3,890	9,930	12,200	7,530	33,600	218,000	5,230	34.5
Vermont	304	3,460	3,530	2,590	9,890	78,400	813	168
Virginia	10,400	14,100	15,600	11,700	51,700	655,000	9,940	-4.1
Washington	9,860	9,650	12,400	8,420	40,300	366,000	8,800	-10.8
West Virginia	2,030	2,750	3,630	2,560	11,000	101,000	1,820	-10.5
Wisconsin	6,170	15,400	20,200	10,500	52,200	378,000	7,040	14.2
Wyoming	3,900	9,040	11,000	4,720	28,600	161,000	2,490	-36.2

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.