

Mineral Industry Surveys

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CRUSHED STONE AND SAND AND GRAVEL IN THE FIRST QUARTER 2011

An estimated 205 million metric tons (Mt) of *crushed stone* was produced and shipped for consumption in the United States in the first quarter of 2011, an increase of almost 2% compared with that of the same period of 2010. The estimated annual output produced for consumption in 2010 was 1.20 billion metric tons (Gt), a 3% increase compared with that of 2009.

The estimated U.S. output of *construction sand and gravel* produced and shipped for consumption in the first quarter of 2011 was 127 Mt, a decrease of 3% compared with that of the same period of 2010. The estimated annual output produced for consumption in 2010 was 825 Mt, a slight decrease compared with that of 2009.

An estimated 332 Mt of total *construction aggregates* was produced and shipped for consumption in the United States in the first quarter of 2011. The amount was essentially unchanged when compared with that from the same period of 2010. The estimated annual output produced for consumption in 2010 was 2.02 Gt, a slight increase compared with that of 2009.

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 increased by 3% in the first quarter of 2011 compared with that of the first quarter of 2010 and decreased slightly for 2010, compared with consumption in 2009. 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 2011 increased in six of the nine geographic divisions compared with that sold or used in the first quarter of 2010. The largest increases were recorded in the Mountain (22%), the Pacific (4%), and the West South Central (3%) divisions. Production-for-consumption increased in 28 of the 46 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, Florida, Missouri, Pennsylvania, and Virginia. Their combined total production-for-consumption was 70.5 Mt and represented an increase of 3% compared with first quarter 2010.

The estimated production-for-consumption of *construction sand and gravel* in the first quarter of 2011 decreased from first quarter 2010 levels in eight of the nine geographic divisions. The largest decreases in percentages were recorded in the New England (19%), West North Central (7%), and the East North Central (6%) divisions. Production-for-consumption decreased in 31 of the 46 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, California, Arizona, Louisiana, and Utah. Their combined total production-for-consumption was 46.5 Mt which was a slight decrease compared with first quarter 2010.

The estimated production-for-consumption of *construction aggregates* in the first quarter of 2011 increased in three of the geographic divisions compared with that sold or used in the first quarter of 2010. The largest increases in percentages were recorded in the West South Central (4%), Mountain (3%) and the South Atlantic (2%) divisions. Production-for-consumption decreased in 25 of the 48 States that were estimated. The five leading States, in descending order of production-for-consumption, were Texas, California, Florida, Pennsylvania, and Missouri. Their combined total production-for-consumption was 109 Mt and increased 4% when compared with that of the same period of 2010.

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

(Thousand metric tons and thousand dollars)

Region/Division	2010					Value total ²	2011	
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	2,160	10,800	13,700	9,790	36,400	389,000	1,800	-16.8
Middle Atlantic	15,500	40,900	46,700	34,100	137,000	1,510,000	15,600	0.3
Midwest:								
East North Central	19,900	53,700	68,600	48,000	190,000	1,490,000	19,000	-4.4
West North Central	18,800	43,500	51,000	38,200	152,000	1,340,000	18,500	-1.6
South:								
South Atlantic	47,200	67,700	65,300	53,300	234,000	2,870,000	48,500	2.8
East South Central	22,300	36,600	35,200	28,600	123,000	1,190,000	22,400	0.3
West South Central	42,800	54,900	51,900	47,500	197,000	1,470,000	44,100	3.1
West:								
Mountain	6,970	14,600	15,900	10,400	54,200	404,000	8,500	22.0
Pacific	12,000	16,700	22,200	16,100	66,900	573,000	12,400	3.6
Total ⁴	201,000	345,000	366,000	286,000	1,200,000	11,400,000	205,000	1.9

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	2010					Value total ²	2011	
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²		Quantity 1st qtr.	Percent change ³
Alabama	7,850	10,400	9,310	7,590	35,100	314,000	7,270	-7.4
Alaska	(4)	(4)	(4)	(4)	1,980	34,800	(4)	(4)
Arizona	1,430	2,280	1,760	984	6,450	55,400	1,790	25.4
Arkansas	7,370	9,320	9,160	7,160	33,000	234,000	6,690	-9.2
California	7,330	10,000	12,500	9,550	39,400	353,000	8,670	18.4
Colorado	1,190	2,030	2,560	2,060	7,850	69,700	1,450	21.5
Connecticut	296	2,380	2,600	1,910	7,190	88,300	282	-4.9
Delaware	W	W	W	W	W	W	W	W
Florida	12,300	13,900	12,800	12,100	51,100	663,000	11,400	-7.2
Georgia	8,990	12,600	11,800	8,630	42,000	472,000	8,650	-3.9
Hawaii	(4)	(4)	(4)	(4)	6,040	101,000	(4)	(4)
Idaho	242	1,080	1,170	1,240	3,730	25,600	210	-13.3
Illinois	5,340	15,000	17,600	14,600	52,500	466,000	5,140	-3.8
Indiana	5,450	13,000	14,800	11,200	44,500	287,000	5,050	-7.5
Iowa	2,680	10,500	10,900	8,510	32,600	292,000	3,350	25.1
Kansas	3,060	5,190	6,710	5,250	20,200	165,000	2,340	-23.4
Kentucky	7,260	12,500	12,700	10,900	43,400	373,000	7,400	1.9
Louisiana	W	W	W	W	W	W	W	W
Maine	190	1,020	1,550	941	3,700	31,900	132	-30.3
Maryland	3,220	6,160	7,550	6,020	23,000	201,000	3,840	19.1
Massachusetts	711	2,980	3,220	2,680	9,580	109,000	715	0.7
Michigan	1,270	6,710	9,530	6,130	23,600	131,000	1,440	13.4
Minnesota	283	2,480	3,500	1,920	8,180	102,000	284	0.5
Mississippi	600	942	1,080	939	3,560	70,600	763	27.0
Missouri	11,500	21,800	25,800	19,900	79,000	684,000	11,300	-1.3
Montana	291	491	781	223	1,790	18,000	197	-32.3
Nebraska	907	2,130	2,200	1,610	6,840	63,200	904	-0.4
Nevada	1,570	2,330	2,340	1,550	7,780	83,300	1,820	16.2
New Hampshire	311	986	1,440	1,010	3,740	36,900	364	17.3
New Jersey	1,460	4,080	4,570	3,260	13,400	112,000	1,280	-12.4
New Mexico	(4)	(4)	(4)	(4)	6,250	40,200	(4)	(4)
New York	3,110	10,400	13,100	9,600	36,200	392,000	3,070	-1.2
North Carolina	7,790	12,100	10,800	8,130	38,700	575,000	8,040	3.2
North Dakota	(4)	(4)	(4)	(4)	1,010	3,980	(4)	(4)
Ohio	4,550	11,900	17,600	11,200	45,200	402,000	5,000	10.0
Oklahoma	8,150	11,100	10,900	9,370	39,500	323,000	8,470	4.0
Oregon	2,300	3,350	5,430	3,580	14,700	108,000	2,030	-11.8
Pennsylvania	11,000	26,400	29,000	21,200	87,700	1,010,000	11,200	2.4
Rhode Island	116	582	708	582	1,990	21,600	110	-5.4
South Carolina	4,340	5,620	5,290	4,060	19,300	209,000	4,230	-2.5
South Dakota	407	1,390	1,820	1,020	4,370	28,200	292	-28.3
Tennessee	6,590	12,700	12,100	9,260	40,700	429,000	6,940	5.4
Texas	25,900	32,700	30,100	29,600	118,000	822,000	27,700	6.7
Utah	841	1,400	1,840	1,240	5,320	42,600	1,010	20.6
Vermont	538	2,830	4,170	2,670	10,200	101,000	195	-63.8
Virginia	7,910	12,900	12,600	10,400	43,800	587,000	8,840	11.8
Washington	2,350	3,290	4,240	2,970	12,900	112,000	1,710	-27.4
West Virginia	2,520	4,320	4,410	3,820	15,100	148,000	3,420	35.5
Wisconsin	3,270	7,050	9,060	4,930	24,300	206,000	2,380	-27.2
Wyoming	1,400	4,990	5,480	3,130	15,000	69,300	2,010	43.6

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

(Thousand metric tons and thousand dollars)

Region/Division	2010					Value total ²	2011	
	1st qtr.	2nd qtr.	Quantity		Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	2,470	9,910	12,400	8,820	35,000	294,000	2,010	-18.5
Middle Atlantic	7,150	18,500	20,400	15,100	61,100	528,000	6,770	-5.2
Midwest:								
East North Central	11,500	37,400	49,600	31,600	130,000	779,000	10,800	-6.2
West North Central	9,030	31,700	40,600	27,900	109,000	570,000	8,440	-6.6
South:								
South Atlantic	10,800	14,200	13,500	12,300	50,700	423,000	10,500	-2.6
East South Central	5,450	10,700	11,400	8,240	35,800	250,000	5,210	-4.4
West South Central	26,100	34,100	30,400	29,100	120,000	918,000	27,800	6.4
West:								
Mountain	24,000	45,700	53,900	37,700	161,000	1,110,000	23,400	-2.8
Pacific	19,900	29,600	38,000	26,500	114,000	1,150,000	19,100	-4.0
Total ⁴	131,000	233,000	264,000	197,000	825,000	6,090,000	127,000	-3.0

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.

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	2010					Value total ²	2011	
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²		Quantity 1st qtr.	Percent change ³
Alabama	2,040	2,800	2,750	2,390	9,990	63,500	1,430	-30.1
Alaska	(4)	(4)	(4)	(4)	7,150	53,200	(4)	(4)
Arizona	8,480	10,800	9,190	7,520	36,000	313,000	5,800	-31.6
Arkansas	1,810	3,000	2,700	2,130	9,640	73,500	1,800	-0.4
California	12,600	19,700	26,300	17,700	76,300	861,000	13,300	5.7
Colorado	3,730	6,400	8,580	6,120	24,800	180,000	3,740	0.3
Connecticut	161	1,790	1,800	1,360	5,110	53,600	108	-33.2
Delaware	661	160	98	741	1,080	12,500	633	-4.2
Florida	3,490	4,110	3,870	3,430	14,900	117,000	3,320	-5.0
Georgia	1,120	1,460	1,350	1,050	4,980	28,800	989	-12.0
Hawaii	(4)	(4)	(4)	(4)	1,110	13,700	(4)	(4)
Idaho	1,190	3,210	4,580	2,920	11,900	67,900	997	-16.4
Illinois	1,890	5,420	7,020	5,240	19,600	123,000	1,790	-5.5
Indiana	2,810	6,240	6,930	4,690	20,700	107,000	2,320	-17.5
Iowa	903	3,710	5,080	3,460	13,200	82,700	1,040	14.6
Kansas	1,510	2,980	4,110	3,620	12,200	60,100	1,260	-16.6
Kentucky	731	1,930	2,280	1,480	6,410	34,400	674	-7.8
Louisiana	4,940	6,370	5,410	5,130	21,800	211,000	4,670	-5.3
Maine	402	2,350	3,430	2,090	8,270	52,900	346	-13.9
Maryland	1,230	2,190	2,510	2,470	8,390	102,000	1,140	-6.9
Massachusetts	1,280	2,050	2,400	2,510	7,780	69,000	923	-28.0
Michigan	1,720	10,700	14,100	8,600	35,200	176,000	1,820	5.8
Minnesota	1,320	9,150	13,100	7,030	30,600	183,000	1,490	12.9
Mississippi	1,850	4,350	4,530	3,150	13,900	108,000	2,360	27.4
Missouri	1,740	3,420	3,980	3,020	12,200	74,500	1,720	-1.1
Montana	526	2,450	3,220	2,000	8,200	61,500	476	-9.4
Nebraska	1,970	4,080	4,370	3,470	13,900	79,800	1,930	-2.2
Nevada	2,050	5,020	6,630	3,650	17,300	110,000	2,960	44.4
New Hampshire	353	1,220	1,980	1,130	4,680	36,800	400	13.4
New Jersey	1,670	3,810	4,020	1,210	10,700	110,000	1,510	-9.5
New Mexico	2,360	4,220	3,860	3,740	14,200	111,000	2,610	10.7
New York	3,470	9,130	10,200	10,200	33,000	277,000	3,320	-4.3
North Carolina	1,600	2,540	2,220	1,710	8,070	45,000	1,760	9.8
North Dakota	724	5,470	5,650	2,840	14,700	46,800	377	-48.0
Ohio	2,480	7,730	11,100	6,920	28,200	245,000	2,880	15.9
Oklahoma	2,510	3,310	3,220	2,990	12,000	69,500	2,790	11.2
Oregon	2,390	2,410	4,020	2,690	11,500	94,100	1,750	-26.7
Pennsylvania	2,000	5,580	6,150	3,660	17,400	140,000	1,940	-3.3
Rhode Island	(4)	(4)	(4)	(4)	1,780	22,400	(4)	(4)
South Carolina	1,100	1,520	1,380	1,130	5,120	28,000	1,080	-1.5
South Dakota	872	2,930	4,300	4,520	12,400	43,500	636	-27.1
Tennessee	821	1,620	1,890	1,210	5,540	43,400	747	-9.0
Texas	16,900	21,400	19,100	18,800	76,300	564,000	18,600	9.9
Utah	3,790	7,420	9,920	7,270	28,400	155,000	4,080	7.8
Vermont	269	2,500	2,830	1,730	7,330	58,900	233	-13.2
Virginia	1,630	2,210	2,110	1,780	7,740	86,300	1,630	-0.2
Washington	4,920	7,480	7,650	6,190	26,200	198,000	4,040	-17.8
West Virginia	(4)	(4)	(4)	(4)	402	3,340	(4)	(4)
Wisconsin	2,650	7,210	10,500	6,140	26,500	128,000	2,030	-23.3
Wyoming	1,920	6,140	7,960	4,480	20,500	107,000	2,700	40.5

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	2010					Value total ²	2011	
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²		Quantity 1st qtr.	Percent change ³
Northeast:								
New England	4,630	20,700	26,100	18,600	69,600	660,000	3,810	-17.7
Middle Atlantic	22,700	59,400	67,100	49,200	198,000	2,040,000	22,400	-1.5
Midwest:								
East North Central	31,400	91,000	118,000	79,600	320,000	2,270,000	29,800	-5.1
West North Central	27,800	75,200	91,500	66,200	260,000	1,900,000	26,900	-3.2
South:								
South Atlantic	58,000	81,900	78,900	65,600	284,000	3,290,000	59,100	1.8
East South Central	27,700	47,300	46,700	36,900	159,000	1,440,000	27,600	-0.6
West South Central	68,900	89,000	82,300	76,600	317,000	2,390,000	71,900	4.4
West:								
Mountain	31,000	60,300	69,900	48,100	209,000	1,470,000	31,900	2.8
Pacific	31,900	46,200	60,200	42,600	181,000	1,730,000	31,500	-1.2
Total ⁴	332,000	579,000	630,000	483,000	2,020,000	17,500,000	332,000	0.0

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.

⁴Includes all 50 States.

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

(Thousand metric tons and thousand dollars)

State	2010					Value total ²	2011	
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total ²		Quantity 1st qtr.	Percent change ³
Alabama	9,900	13,200	12,100	9,980	45,100	377,000	8,700	-12.1
Alaska	(4)	(4)	(4)	(4)	9,130	88,000	(4)	(4)
Arizona	9,900	13,100	11,000	8,500	42,500	369,000	7,590	-23.4
Arkansas	9,180	12,300	11,900	9,290	42,700	307,000	8,490	-7.5
California	20,000	29,700	38,800	27,200	116,000	1,210,000	22,000	10.3
Colorado	4,920	8,430	11,100	8,180	32,700	250,000	5,190	5.4
Connecticut	457	4,170	4,400	3,280	12,300	142,000	389	-14.9
Delaware	W	W	W	W	W	W	W	W
Florida	15,800	18,000	16,700	15,500	66,000	780,000	14,800	-6.7
Georgia	10,100	14,000	13,100	9,670	46,900	501,000	9,640	-4.8
Hawaii	(4)	(4)	(4)	(4)	7,140	115,000	(4)	(4)
Idaho	1,430	4,290	5,750	4,160	15,600	93,500	1,210	-15.9
Illinois	7,230	20,400	24,600	19,800	72,000	589,000	6,930	-4.2
Indiana	8,260	19,300	21,700	15,900	65,100	394,000	7,360	-10.9
Iowa	3,580	14,200	16,000	12,000	45,800	374,000	4,390	22.5
Kansas	4,560	8,160	10,800	8,870	32,400	225,000	3,600	-21.1
Kentucky	7,990	14,500	15,000	12,300	49,800	407,000	8,070	1.0
Louisiana	W	W	W	W	W	W	W	W
Maine	592	3,370	4,980	3,030	12,000	84,800	479	-19.2
Maryland	4,450	8,350	10,100	8,490	31,300	303,000	4,980	11.9
Massachusetts	1,990	5,030	5,630	5,190	17,400	178,000	1,640	-17.8
Michigan	2,990	17,500	23,600	14,700	58,800	307,000	3,260	9.0
Minnesota	1,600	11,600	16,600	8,950	38,700	285,000	1,770	10.7
Mississippi	2,450	5,290	5,610	4,090	17,400	179,000	3,120	27.3
Missouri	13,200	25,300	29,800	22,900	91,200	759,000	13,000	-1.2
Montana	817	2,940	4,000	2,220	9,980	79,500	673	-17.6
Nebraska	2,880	6,210	6,570	5,070	20,700	143,000	2,830	-1.6
Nevada	3,620	7,360	8,960	5,190	25,100	193,000	4,780	32.2
New Hampshire	664	2,210	3,420	2,140	8,430	73,700	765	15.2
New Jersey	3,130	7,890	8,590	4,460	24,100	221,000	2,790	-10.8
New Mexico	2,360	4,220	3,860	3,740	14,200	111,000	2,610	10.7
New York	6,580	19,500	23,400	19,800	69,300	669,000	6,400	-2.9
North Carolina	9,390	14,600	13,000	9,840	46,800	620,000	9,800	4.3
North Dakota	724	5,470	5,650	2,840	14,700	46,800	377	-48.0
Ohio	7,030	19,600	28,700	18,100	73,400	647,000	7,880	12.1
Oklahoma	10,700	14,400	14,100	12,400	51,500	393,000	11,300	5.7
Oregon	4,690	5,760	9,450	6,270	26,200	202,000	3,780	-19.4
Pennsylvania	13,000	32,000	35,200	24,900	105,000	1,150,000	13,200	1.5
Rhode Island	116	582	708	582	1,990	21,600	110	-5.4
South Carolina	5,430	7,140	6,670	5,190	24,400	237,000	5,300	-2.3
South Dakota	1,280	4,320	6,120	5,530	16,700	71,700	928	-27.5
Tennessee	7,410	14,400	14,000	10,500	46,200	472,000	7,690	3.8
Texas	42,800	54,200	49,200	48,400	195,000	1,390,000	46,300	8.0
Utah	4,630	8,830	11,800	8,510	33,700	198,000	5,100	10.2
Vermont	807	5,320	7,000	4,390	17,500	160,000	428	-46.9
Virginia	9,540	15,200	14,700	12,200	51,600	673,000	10,500	9.8
Washington	7,270	10,800	11,900	9,150	39,100	310,000	5,750	-20.9
West Virginia	2,520	4,320	4,410	3,820	15,100	148,000	3,420	35.5
Wisconsin	5,920	14,300	19,500	11,100	50,800	333,000	4,410	-25.5
Wyoming	3,320	11,100	13,400	7,610	35,500	177,000	4,710	41.8

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.