

Mineral Industry Surveys

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CRUSHED STONE AND SAND AND GRAVEL IN THE FIRST QUARTER 2012

An estimated 216 million metric tons (Mt) of *crushed stone* was produced and shipped for consumption in the United States in the first quarter of 2012, an increase of 9.4% compared with that of the same period of 2011. The estimated annual output produced for consumption in 2011 was 1.14 billion metric tons (Gt), a slight decrease compared with that of 2010.

The estimated U.S. output of *construction sand and gravel* produced and shipped for consumption in the first quarter of 2012 was 136 Mt, an increase of 10% compared with that of the same period of 2011. The estimated annual output produced for consumption in 2011 was 802 Mt, a slight increase compared with that of 2010.

The estimated U.S. output of *construction aggregates* produced and shipped for consumption in the first quarter of 2012 was 352 Mt, an increase of 9.7% compared with that of the same period of 2011. The estimated annual output produced for consumption in 2011 was 1.95 Gt, a slight decrease compared with that of 2010.

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 20% in the first quarter of 2012 compared with that of the first quarter of 2011 and increased by 3% for 2011, compared with consumption in 2010. This information is obtained from the USGS monthly survey of U.S. cement producers.

The quarterly 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 2012 increased in seven of the nine geographic divisions compared with that sold or used in the first quarter of 2011. The largest increases were recorded in the West North Central and East North Central divisions. Production-for-consumption increased in 30 of the 46 States that were estimated. The five leading States were, in descending order of production-for-consumption, Texas, Missouri, Pennsylvania, Florida, and Virginia. Their combined total production-for-consumption was 83.6 Mt and represented an increase of 26% compared with that in the first quarter of 2011.

The estimated production-for-consumption of *construction sand and gravel* in the first quarter of 2012 increased from first quarter 2011 levels in seven of the nine geographic divisions. The largest increases in percentages were recorded in the New England, West North Central, and the East North Central divisions. Production-for-consumption increased in 35 of the 47 States that were estimated. The five leading States were, in descending order of production-for-consumption, Texas, California, Arizona, Colorado, and Ohio. Their combined total production-for-consumption was 48.6 Mt which was an increase of 14% compared with that in the first quarter of 2011.

The estimated production-for-consumption of *construction aggregates* in the first quarter of 2012 increased in seven of the nine geographic divisions compared with that sold or used in the first quarter of 2011. The largest increases in percentages were recorded in the West North Central, and the New England divisions. Production-for-consumption increased in 33 of the 45 States that were estimated. The five leading States were, in descending order of production-for-consumption, Texas, California, Missouri, Pennsylvania, and Florida. Their combined total production-for-consumption was 119 Mt and increased 17% when compared with that of the same period of 2011.

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

(Thousand metric tons and thousand dollars)

Region/Division	2011					Value, 1st-4th qtr. ²	2012	
	Quantity						Quantity	Percent change ³
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. ²		1st qtr.	
Northeast:								
New England	2,000	9,290	12,100	9,420	32,800	367,000	2,590	29.5
Middle Atlantic	15,400	39,900	46,600	37,100	139,000	1,650,000	21,500	39.2
Midwest:								
East North Central	17,700	47,400	66,200	51,500	183,000	1,410,000	24,600	39.0
West North Central	16,500	38,400	47,500	36,400	139,000	1,270,000	25,900	56.8
South:								
South Atlantic	46,500	63,900	63,000	53,500	227,000	2,880,000	48,400	4.1
East South Central	23,500	31,200	33,900	28,700	117,000	1,210,000	21,600	-7.9
West South Central	42,700	47,900	49,500	40,800	181,000	1,430,000	45,400	6.3
West:								
Mountain	7,580	13,900	14,900	10,600	46,900	417,000	8,400	10.7
Pacific	12,800	17,900	21,000	15,100	66,800	619,000	10,800	-15.7
Total ⁴	198,000	313,000	351,000	282,000	1,140,000	11,400,000	216,000	9.4

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	2011					Value, 1st-4th qtr. ²	2012	
	Quantity						Quantity	Percent change ³
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. ²			
Alabama	7,370	8,770	9,400	7,760	33,300	320,000	7,720	4.8
Alaska	(4)	(4)	(4)	(4)	1,480	22,800	(4)	(4)
Arizona	2,010	2,180	2,010	2,010	8,200	81,700	1,810	-10.0
Arkansas	6,330	6,440	6,410	4,990	24,200	190,000	5,230	-17.4
California	7,160	9,070	10,200	8,090	34,500	350,000	5,550	-22.5
Colorado	1,360	1,770	1,660	1,280	6,060	49,600	1,310	-3.4
Connecticut	285	2,440	2,610	2,060	7,400	97,100	514	80.6
Delaware	W	W	W	W	W	W	W	W
Florida	9,560	10,500	10,700	9,660	40,500	532,000	10,600	10.7
Georgia	8,810	11,500	10,500	8,540	39,300	438,000	8,740	-0.8
Hawaii	(4)	(4)	(4)	(4)	4,680	93,000	(4)	(4)
Idaho	188	1,790	1,660	743	4,380	26,700	168	-10.8
Illinois	5,030	12,200	18,200	14,000	49,400	456,000	5,860	16.5
Indiana	5,030	10,500	14,100	10,300	40,000	270,000	5,670	12.8
Iowa	3,290	9,010	11,300	8,550	32,200	303,000	3,930	19.4
Kansas	1,530	4,160	5,120	4,010	14,800	129,000	2,650	73.8
Kentucky	8,460	11,300	12,700	10,700	43,200	383,000	5,610	-33.7
Louisiana	W	W	W	W	W	W	W	W
Maine	176	1,050	1,650	1,080	3,950	35,700	270	53.6
Maryland	3,640	7,200	7,310	5,670	23,800	249,000	3,550	-2.4
Massachusetts	760	2,900	3,310	3,190	10,200	120,000	916	20.5
Michigan	1,210	6,150	8,650	5,420	21,400	122,000	2,180	81.0
Minnesota	412	2,810	3,860	2,320	9,400	118,000	645	56.4
Mississippi	639	784	663	567	2,650	61,400	414	-35.1
Missouri	10,100	18,600	22,400	18,100	69,300	603,000	16,700	64.6
Montana	214	571	887	203	1,880	20,200	250	16.6
Nebraska	893	2,080	2,220	2,100	7,290	77,600	1,450	61.9
Nevada	1,610	1,770	1,940	2,190	7,520	89,400	1,950	21.2
New Hampshire	365	1,410	2,240	1,750	5,760	54,100	548	50.0
New Jersey	1,560	3,990	4,820	4,340	14,700	125,000	1,850	18.4
New Mexico	(4)	(4)	(4)	(4)	4,220	34,500	(4)	(4)
New York	2,660	10,000	12,700	9,280	34,700	396,000	3,760	41.5
North Carolina	8,450	11,700	11,400	9,250	40,800	611,000	8,310	-1.7
North Dakota	(4)	(4)	(4)	(4)	823	3,820	(4)	(4)
Ohio	4,250	13,100	17,900	14,500	49,800	428,000	7,900	85.8
Oklahoma	8,310	10,200	10,200	8,470	37,200	336,000	8,370	0.8
Oregon	2,600	5,490	6,940	4,070	19,100	147,000	2,530	-2.8
Pennsylvania	11,200	25,800	29,100	23,500	89,700	1,130,000	15,900	41.5
Rhode Island	84	283	426	356	1,150	12,900	107	27.0
South Carolina	4,190	5,390	5,090	3,920	18,600	214,000	3,850	-8.1
South Dakota	271	1,690	2,530	1,330	5,820	39,400	562	107.3
Tennessee	7,020	10,300	11,100	9,650	38,100	445,000	7,890	12.4
Texas	26,800	29,900	31,400	26,100	114,000	827,000	30,900	15.4
Utah	1,030	2,440	3,260	2,250	8,970	69,100	1,310	27.3
Vermont	332	1,210	1,840	980	4,360	47,200	237	-28.6
Virginia	8,440	12,800	12,900	11,600	45,700	651,000	9,520	12.8
Washington	3,040	3,330	3,890	2,930	13,200	122,000	2,720	-10.7
West Virginia	3,260	4,710	5,030	4,740	17,700	175,000	3,730	14.3
Wisconsin	2,210	5,380	7,370	7,170	22,100	131,000	3,020	36.7
Wyoming	1,180	3,330	3,470	1,970	9,950	46,200	1,600	36.1

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	2011					Value, 1st-4th qtr. ²	2012	
	Quantity						Quantity	Percent change ³
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. ²		1st qtr.	
Northeast:								
New England	3,070	10,600	14,100	9,940	39,200	329,000	4,530	47.5
Middle Atlantic	6,430	14,900	17,600	12,800	51,700	467,000	7,380	14.8
Midwest:								
East North Central	10,200	32,300	47,300	33,000	123,000	793,000	13,700	34.9
West North Central	8,070	30,700	45,300	32,700	117,000	618,000	11,700	45.1
South:								
South Atlantic	10,200	13,900	13,900	12,800	50,800	408,000	11,200	10.4
East South Central	4,610	9,170	13,300	8,290	35,400	240,000	5,260	14.0
West South Central	25,300	27,800	29,200	24,700	107,000	850,000	25,200	-0.4
West:								
Mountain	19,700	41,300	51,300	34,400	147,000	996,000	25,400	28.9
Pacific	20,100	33,700	40,400	30,200	124,000	1,250,000	19,800	-1.8
Total ⁴	123,000	217,000	263,000	198,000	802,000	6,020,000	136,000	10.1

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.

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	2011					Value, 1st-4th qtr. ²	2012	
	Quantity						1st qtr.	Percent change ³
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. ²			
Alabama	896	1,020	3,470	709	6,090	34,800	949	5.9
Alaska	(4)	(4)	(4)	(4)	6,370	53,900	(4)	(4)
Arizona	5,640	7,270	6,760	5,810	25,500	216,000	6,440	14.3
Arkansas	1,720	2,310	2,520	1,970	8,510	74,200	1,670	-2.5
California	13,500	23,800	27,800	21,500	86,600	963,000	13,600	1.1
Colorado	4,260	7,410	9,360	6,170	27,200	202,000	5,590	31.4
Connecticut	181	2,060	2,100	1,530	5,880	56,500	314	73.3
Delaware	122	188	157	1,130	1,600	12,500	1,030	743.6
Florida	2,770	3,160	3,190	2,850	12,000	97,400	3,040	9.8
Georgia	1,020	1,360	1,220	1,040	4,640	26,400	1,040	2.7
Hawaii	(4)	(4)	(4)	(4)	936	14,600	(4)	(4)
Idaho	1,050	3,720	4,800	2,500	12,100	70,800	918	-12.9
Illinois	1,760	5,020	7,370	5,300	19,400	131,000	1,980	12.7
Indiana	2,090	4,340	6,310	3,940	16,700	106,000	2,330	11.4
Iowa	1,090	3,840	5,380	3,510	13,800	87,600	1,140	3.7
Kansas	930	2,490	3,130	2,270	8,820	47,400	1,420	52.5
Kentucky	1,140	2,770	4,020	3,130	11,100	59,500	915	-19.4
Louisiana	4,460	4,250	4,270	3,850	16,800	158,000	2,920	-34.5
Maine	383	2,670	3,630	2,920	9,600	56,700	379	-1.1
Maryland	1,300	2,870	2,880	2,510	9,560	100,000	1,260	-2.8
Massachusetts	1,620	2,290	2,150	1,940	8,000	77,400	2,570	58.3
Michigan	1,820	9,660	14,100	8,550	34,100	200,000	2,730	50.2
Minnesota	1,660	8,660	15,500	10,300	36,100	182,000	1,600	-3.6
Mississippi	1,820	3,970	4,100	3,300	13,200	105,000	2,570	40.8
Missouri	1,670	3,380	3,840	2,920	11,800	75,300	2,380	42.4
Montana	462	3,500	3,990	1,860	9,810	81,300	702	52.1
Nebraska	1,780	4,440	4,440	4,130	14,800	96,800	2,760	55.0
Nevada	2,480	3,450	5,080	4,320	15,300	91,000	3,550	43.0
New Hampshire	676	2,850	4,910	2,600	11,000	96,400	1,010	48.7
New Jersey	1,460	3,260	3,370	2,940	11,000	119,000	1,830	24.8
New Mexico	1,160	2,380	2,140	1,410	7,080	53,100	905	-22.0
New York	3,080	7,490	9,540	6,990	27,100	225,000	3,820	24.1
North Carolina	1,770	2,280	2,270	1,710	8,030	46,400	1,690	-4.6
North Dakota	436	4,750	8,120	7,140	20,500	81,700	1,610	270.2
Ohio	2,530	7,630	11,100	8,530	29,800	237,000	4,640	83.5
Oklahoma	2,310	2,690	2,800	2,320	10,100	62,800	2,360	2.3
Oregon	2,150	3,070	4,220	2,660	12,100	101,000	1,570	-26.9
Pennsylvania	1,890	4,150	4,690	2,840	13,600	123,000	1,740	-8.0
Rhode Island	(4)	(4)	(4)	(4)	1,460	17,700	(4)	(4)
South Carolina	1,390	1,770	1,970	1,540	6,670	29,100	1,500	7.5
South Dakota	506	3,120	4,860	2,510	11,000	47,600	811	60.1
Tennessee	756	1,410	1,690	1,150	5,000	40,900	827	9.4
Texas	16,900	18,600	19,600	16,500	71,500	555,000	18,300	8.4
Utah	3,020	8,560	12,700	8,370	32,600	193,000	4,540	50.4
Vermont	212	759	1,300	955	3,230	24,500	269	26.5
Virginia	1,720	2,190	2,130	1,870	7,910	93,200	1,580	-8.3
Washington	4,530	6,790	8,370	5,990	25,700	182,000	4,610	1.7
West Virginia	75	126	123	120	403	3,460	85	12.5
Wisconsin	1,970	5,690	8,460	6,640	22,800	119,000	2,030	2.9
Wyoming	1,650	5,020	6,530	4,020	17,200	88,300	2,770	68.1

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 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	2011					Value, 1st-4th qtr. ²	2012	
	Quantity						Quantity	Percent change ³
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. ²		1st qtr.	
Northeast:								
New England	5,080	19,900	26,200	19,400	70,500	678,000	7,120	40.4
Middle Atlantic	21,900	54,800	64,200	49,900	191,000	2,120,000	28,900	32.0
Midwest:								
East North Central	27,900	79,700	113,000	84,400	306,000	2,200,000	38,400	37.5
West North Central	24,600	69,100	92,700	69,200	256,000	1,890,000	37,600	52.9
South:								
South Atlantic	56,600	77,800	77,000	66,300	278,000	3,290,000	59,600	5.3
East South Central	28,100	40,400	47,200	37,000	153,000	1,450,000	26,900	-4.3
West South Central	68,000	75,700	78,600	65,500	288,000	2,280,000	70,600	3.8
West:								
Mountain	27,300	55,100	66,200	45,100	194,000	1,380,000	33,800	23.9
Pacific	33,000	51,600	61,400	45,200	191,000	1,860,000	30,600	-7.2
Total ⁴	321,000	530,000	614,000	480,000	1,950,000	17,400,000	352,000	9.7

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

(Thousand metric tons and thousand dollars)

State	2011					Value, 1st-4th qtr. ²	2012	
	Quantity						Quantity	Percent change ³
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st-4th qtr. ²		1st qtr.	
Alabama	8,270	9,790	12,900	8,470	39,400	355,000	8,670	4.9
Alaska	(4)	(4)	(4)	(4)	7,850	76,700	(4)	(4)
Arizona	7,650	9,450	8,760	7,820	33,700	298,000	8,250	7.9
Arkansas	8,040	8,750	8,930	6,960	32,700	264,000	6,900	-14.3
California	20,600	32,900	38,000	29,600	121,000	1,310,000	19,200	-7.1
Colorado	5,610	9,180	11,000	7,450	33,300	251,000	6,900	23.0
Connecticut	466	4,510	4,710	3,590	13,300	154,000	828	77.8
Delaware	W	W	W	W	W	W	W	W
Florida	12,300	13,700	13,900	12,500	52,400	629,000	13,600	10.5
Georgia	9,830	12,800	11,700	9,590	43,900	465,000	9,780	-0.4
Hawaii	(4)	(4)	(4)	(4)	5,610	108,000	(4)	(4)
Idaho	1,240	5,510	6,460	3,240	16,400	97,500	1,090	-12.6
Illinois	6,790	17,200	25,600	19,300	68,900	587,000	7,840	15.5
Indiana	7,120	14,800	20,400	14,300	56,600	375,000	8,000	12.4
Iowa	4,390	12,900	16,700	12,100	46,000	390,000	5,070	15.5
Kansas	2,460	6,660	8,240	6,280	23,600	177,000	4,070	65.7
Kentucky	9,590	14,100	16,700	13,800	54,200	443,000	6,520	-32.0
Louisiana	W	W	W	W	W	W	W	W
Maine	559	3,720	5,280	3,990	13,500	92,400	649	16.2
Maryland	4,930	10,100	10,200	8,180	33,400	349,000	4,810	-2.5
Massachusetts	2,380	5,190	5,460	5,130	18,200	197,000	3,480	46.2
Michigan	3,030	15,800	22,800	14,000	55,600	322,000	4,920	62.5
Minnesota	2,070	11,500	19,400	12,600	45,500	300,000	2,240	8.4
Mississippi	2,460	4,750	4,770	3,870	15,900	167,000	2,980	21.1
Missouri	11,800	22,000	26,300	21,000	81,100	679,000	19,100	61.4
Montana	676	4,070	4,880	2,060	11,700	102,000	952	40.8
Nebraska	2,670	6,520	6,660	6,220	22,100	174,000	4,200	57.3
Nevada	4,090	5,230	7,020	6,510	22,800	180,000	5,500	34.4
New Hampshire	1,040	4,260	7,150	4,350	16,800	151,000	1,550	49.2
New Jersey	3,020	7,250	8,200	7,270	25,700	244,000	3,670	21.5
New Mexico	(4)	(4)	(4)	(4)	11,300	87,600	(4)	(4)
New York	5,740	17,500	22,300	16,300	61,800	621,000	7,580	32.2
North Carolina	10,200	13,900	13,700	11,000	48,800	657,000	10,000	-2.2
North Dakota	(4)	(4)	(4)	(4)	21,300	85,500	(4)	(4)
Ohio	6,780	20,800	29,000	23,000	79,600	665,000	12,500	85.0
Oklahoma	10,600	12,900	13,000	10,800	47,300	399,000	10,700	1.1
Oregon	4,750	8,560	11,200	6,730	31,200	248,000	4,100	-13.7
Pennsylvania	13,100	30,000	33,800	26,400	103,000	1,250,000	17,600	34.4
Rhode Island	(4)	(4)	(4)	(4)	2,610	30,600	(4)	(4)
South Carolina	5,580	7,160	7,060	5,450	25,300	243,000	5,350	-4.2
South Dakota	777	4,810	7,390	3,840	16,800	86,900	1,370	76.6
Tennessee	7,770	11,700	12,800	10,800	43,200	486,000	8,720	12.1
Texas	43,600	48,500	51,000	42,600	186,000	1,380,000	49,200	12.7
Utah	4,050	11,000	15,900	10,600	41,600	262,000	5,850	44.5
Vermont	544	1,970	3,140	1,940	7,590	71,700	505	-7.1
Virginia	10,200	14,900	15,000	13,500	53,600	744,000	11,100	9.2
Washington	7,570	10,100	12,300	8,910	38,900	304,000	7,330	-3.3
West Virginia	3,340	4,840	5,150	4,860	18,100	179,000	3,820	14.3
Wisconsin	4,180	11,100	15,800	13,800	44,900	250,000	5,050	20.8
Wyoming	2,820	8,350	10,000	5,980	27,200	134,000	4,370	54.7

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.