

# Mineral Industry Surveys

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## CEMENT IN DECEMBER 2016

This report provides monthly data on the shipments of cement to final customers and the production of clinker in the United States from January 2015 through December 2016.<sup>1</sup> Data on the imports of cement and clinker for December 2016 are also provided.

Total shipments of portland and blended cement in the United States and Puerto Rico in December 2016 were about 6.0 million metric tons (Mt), down by 8.6% from sales in December 2015 (tables 2A and 2B). The leading producing States for portland and blended cement in December 2016 were Texas, California, Florida, Missouri, and Alabama, in descending order (table 1A). The leading cement-consuming States (Texas, California, Florida, Georgia, and New York, in descending order) received 44% of the December shipments (tables 2A and 2B). Sales for the entire year totaled 93.3 Mt, up by 1.9% from those in 2015 overall.

Clinker production totaled 5.5 Mt in December 2016, down by 20% from the output in December 2015 (table 4). The leading clinker-producing States in December were, in descending order, Texas, California, Missouri, Florida, and Alabama. Production for the year totaled 75.7 Mt, down slightly from that for the full year 2015.

Masonry cement data for 2015 and 2016 have been revised downward to remove material that was not masonry cement. Masonry cement shipments of about 175,000 metric tons in December 2016 were down by 5.6% from those in December

<sup>1</sup>Footnoted revisions to the historical data are those received since the publication of the previous month's edition of this report. Data for the current month may contain revisions (not indicated by footnotes) received since the publication of the preliminary edition of the current month's report.

2015 (table 2C). The leading masonry-cement-consuming States were, in descending order, Florida, Texas, California, North Carolina, and Georgia; these received about 56% of December's shipments. Shipments for the year were 2.4 Mt, up by 4.65% from total shipments in 2015.

Tables 5, 6, and 7 contain import data from the U.S. Census Bureau; however, data for clinker imports into the Seattle, WA, and the Detroit, MI, customs districts do not include material trucked in from Canada on an informal entry basis. Likewise, imports of cement into the El Paso, TX, district are missing significant informal entries. For some time, imports have been increasing at rates generally higher than those for cement sales overall. In part, this reflects the collapse of imports during the recession (hence a low basis for comparison), but also the relatively low cost of imports resulting from a combination of low bunker fuel costs, modest ship chartering rates, increased ship availability, and a strong dollar. In some regions, imports are offsetting domestic production constraints related to difficulties in bringing long-idle extra kilns back online. Also, clinker imports have increased, likely temporarily, ahead of expected disruptions to kiln output at certain plants that are undergoing upgrades. December 2016 imports of cement and clinker of about 0.9 Mt were 4.1% higher than those in December 2015. Imports for January through December totaled 13.6 Mt, up by about 19% from total imports in 2015. As noted in tables 5 and 7, full-year 2016 imports were overstated by inclusion of slag import data in April and May that were misreported by the importer under the clinker tariff code.

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TABLE 1A  
 PORTLAND AND BLENDED CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2015						
	January	February	March	April	May	June	July
<b>New England and Middle Atlantic:</b>							
Maine and New York	64,379	39,169	80,225	124,154	149,655	166,170	183,561
Pennsylvania	192,945	127,929	233,802	333,361	374,017	391,236	403,923
District subtotal <sup>3</sup>	257,324	167,098	314,027	457,515	523,672	557,406	587,484
<b>East North Central:</b>							
Illinois	49,419	47,071	64,781	95,343	108,699	109,445	122,199
Indiana	110,601	76,696	147,980	229,566	250,777	249,570	287,578
Michigan	106,419	85,585	151,421	296,320	394,998	474,838	511,330
Ohio	28,793	20,007	43,353	66,043	82,326	82,109	94,851
District subtotal <sup>3</sup>	295,232	229,359	407,535	687,272	836,800	915,962	1,015,957
<b>West North Central:</b>							
Iowa, Nebraska, South Dakota	92,712	79,507	138,951	249,844	266,101	365,955	451,313
Kansas	134,870	107,256	156,348	181,389	145,342	201,991	209,446
Missouri	465,069	359,212	570,771	793,673	778,265	869,452	873,291
District subtotal <sup>3</sup>	692,652	545,974	866,070	1,224,906	1,189,708	1,437,397	1,534,050
<b>South Atlantic:</b>							
Florida	411,880	397,193	461,237	480,095	450,975	496,610	473,925
Georgia, Maryland, Virginia, West Virginia	286,729	225,760	387,307	504,277	555,356	557,863	590,690
Puerto Rico	39,911	42,236	52,482	45,109	46,159	51,955	49,724
South Carolina	183,892	143,644	226,830	258,843	272,929	304,878	305,195
District subtotal <sup>3</sup>	922,411	808,833	1,127,857	1,288,324	1,325,420	1,411,306	1,419,534
<b>East South Central:</b>							
Alabama, Kentucky, Tennessee	423,322	315,670	501,106	558,142	651,314	675,827	683,832
<b>West South Central:</b>							
Arkansas and Oklahoma	177,277	133,759	158,026	193,301	174,708	236,158	242,716
Texas, northern	306,667	300,342	289,580	342,158	275,616	368,399	435,113
Texas, southern	469,037	492,074	496,424	520,985	406,945	531,701	579,756
District subtotal <sup>3</sup>	952,981	926,175	944,030	1,056,443	857,270	1,136,258	1,257,585
<b>Mountain and Pacific:</b>							
Arizona and New Mexico	190,634	185,807	193,740	212,208	199,909	232,631	222,538
California	787,612	756,797	858,952	833,236	778,149	857,614	883,577
Colorado and Wyoming	147,165	136,534	208,060	271,076	237,576	366,423	346,277
Montana, Nevada, Oregon, Utah							
Washington	205,511	216,472	276,448	301,299	320,238	386,884	367,377
District subtotal <sup>3</sup>	1,330,922	1,295,611	1,537,200	1,617,818	1,535,873	1,843,552	1,819,770
U.S. total <sup>3</sup>	4,874,845	4,288,719	5,697,825	6,890,421	6,920,055	7,977,710	8,318,212
Imports <sup>5</sup>	491,218	487,068	596,823	787,810	845,395	973,827	981,245
Grand total <sup>3</sup>	5,366,063	4,775,787	6,294,648	7,678,231	7,765,450	8,951,536	9,299,456

See footnotes at end of table.

TABLE 1A—Continued  
 PORTLAND AND BLENDED CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2015					
	August	September	October	November	December	January–December
<b>New England and Middle Atlantic:</b>						
Maine and New York	186,967	209,748	223,655	190,299	180,493	1,798,474
Pennsylvania	390,416	397,063	407,568	363,535	310,601	3,926,397
District subtotal <sup>3</sup>	577,383	606,812	631,223	553,835	491,094	5,724,872
<b>East North Central:</b>						
Illinois	132,037	149,900	178,390	152,707	113,490	1,323,480
Indiana	269,805	227,145	253,831	208,324	169,710	2,481,583
Michigan	509,333	467,356	475,763	279,162	192,732	3,945,258
Ohio	105,810	110,768	124,320	92,549	61,883	912,811
District subtotal <sup>3</sup>	1,016,984	955,169	1,032,304	732,742	537,815	8,663,132
<b>West North Central:</b>						
Iowa, Nebraska, South Dakota	435,819	429,373	456,147	279,739	172,547	3,418,008
Kansas	209,333	215,988	215,299	165,919	144,148	2,087,329
Missouri	912,044	868,996	892,834	608,334	488,051	8,479,991
District subtotal <sup>3</sup>	1,557,196	1,514,358	1,564,281	1,053,991	804,747	13,985,328
<b>South Atlantic:</b>						
Florida	461,940	442,958	553,074	460,020	473,050	5,562,959
Georgia, Maryland, Virginia, West Virginia	587,904	547,720	554,295	502,192	449,930	5,750,022
Puerto Rico	38,659	38,901	43,545	40,590	38,459	527,730
South Carolina	278,407	238,025	238,617	207,183	221,300	2,879,743
District subtotal <sup>3</sup>	1,366,910	1,267,605	1,389,531	1,209,985	1,182,739	14,720,455
<b>East South Central:</b>						
Alabama, Kentucky, Tennessee	666,027	691,113	686,047	557,292	562,486	6,972,178
<b>West South Central:</b>						
Arkansas and Oklahoma	232,203	230,960	201,780	164,023	167,188	2,312,100
Texas, northern	412,571	448,651	452,402	359,673	386,487	4,377,658
Texas, southern	530,294	557,755	537,710	440,553	498,238	6,061,473
District subtotal <sup>3</sup>	1,175,068	1,237,367	1,191,892	964,249	1,051,913	12,751,231
<b>Mountain and Pacific:</b>						
Arizona and New Mexico	207,520	188,997	188,644	170,817	166,663	2,360,109
California	863,401	836,834	883,891	745,338	747,578	9,832,977
Colorado and Wyoming	348,261	356,836	332,802	233,770	169,926	3,154,706
Montana, Nevada, Oregon, Utah						
Washington	391,030	380,455	410,690	290,272	215,756	3,762,434
District subtotal <sup>3</sup>	1,810,212	1,763,121	1,816,027	1,440,197	1,299,923	19,110,226
U.S. total <sup>3</sup>	8,169,781	8,035,544	8,311,304	6,512,291	5,930,716	81,927,422
Imports <sup>5</sup>	971,365	994,719	1,044,732	770,419	674,530	9,619,151
Grand total <sup>3</sup>	9,141,145	9,030,264	9,356,037	7,282,710	6,605,246	91,546,573

See footnotes at end of table.

TABLE 1A—Continued  
 PORTLAND AND BLENDED CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2016						
	January	February	March	April	May	June	July
<b>New England and Middle Atlantic:</b>							
Maine and New York	101,499	84,813	134,699	144,860	156,210	173,981	146,308
Pennsylvania	194,629	205,374	312,137	316,248	330,766	379,168	333,353
District subtotal <sup>3</sup>	296,128	290,187	446,836	461,108	486,976	553,149	479,661
<b>East North Central:</b>							
Illinois	68,998	67,040	96,671	119,359	155,754	171,119	127,699
Indiana	93,739	112,450	176,472	210,264	237,090	272,985	287,511 <sup>4</sup>
Michigan	106,062	115,156	159,731	273,833	391,721	463,451	413,029
Ohio	27,756	32,343	66,545	88,169	92,176	108,342	(4)
District subtotal <sup>3</sup>	296,555	326,989	499,418	691,625	876,741	1,015,897	828,238
<b>West North Central:</b>							
Iowa, Nebraska, South Dakota	113,018	110,844	201,532	271,933	320,375	412,233	377,989
Kansas	118,491	153,808	184,997	176,816	167,639	227,455	196,482
Missouri	306,385	383,464	621,365	665,027	743,090	925,806	744,235
District subtotal <sup>3</sup>	537,894	648,117	1,007,894	1,113,776	1,231,104	1,565,494	1,318,705
<b>South Atlantic:</b>							
Florida	446,787	536,241	563,063	517,650	494,037	506,593	471,342
Georgia, Maryland, Virginia, West Virginia	316,996	334,715	521,633	487,978	484,349	587,228	500,122
Puerto Rico	35,751	41,702	48,200	39,893	48,524	42,395	38,507
South Carolina	198,967	219,109	322,152	263,980	224,430	262,452	223,362
District subtotal <sup>3</sup>	998,500	1,131,767	1,455,049	1,309,501	1,251,339	1,398,668	1,233,333
<b>East South Central:</b>							
Alabama, Kentucky, Tennessee	459,826	508,105	647,485	593,664	630,194	701,346	592,264
<b>West South Central:</b>							
Arkansas and Oklahoma	174,725	188,326	207,000	198,889	200,322	229,080	176,165
Texas, northern	382,045	438,120	370,198	351,701	354,252	412,409	428,227
Texas, southern	488,468	544,415	550,755	497,064	444,862	516,980	516,045
District subtotal <sup>3</sup>	1,045,238	1,170,862	1,127,952	1,047,654	999,436	1,158,469	1,120,437
<b>Mountain and Pacific:</b>							
Arizona and New Mexico	142,783	183,693	204,963	187,348	194,301	195,718	169,942
California	621,012	753,053	851,889	808,099	820,464	889,227	817,256
Colorado and Wyoming	136,719	147,078	204,142 <sup>r</sup>	245,955	291,728	382,466	321,111
Montana, Nevada, Oregon, Utah							
Washington	202,384	230,645	291,748	315,895	354,069	398,856	354,446
District subtotal <sup>3</sup>	1,102,897	1,314,469	1,552,742 <sup>r</sup>	1,557,297	1,660,561	1,866,268	1,662,754
U.S. total <sup>3</sup>	4,737,039	5,390,496	6,737,376 <sup>r</sup>	6,774,625	7,136,350	8,259,290	7,235,393
Imports <sup>5</sup>	541,197	634,619	771,196	919,379	1,022,992	1,059,386	967,975
Grand total <sup>3</sup>	5,278,235	6,025,115	7,508,572 <sup>r</sup>	7,694,005	8,159,342	9,318,676	8,203,367

See footnotes at end of table.

TABLE 1A—Continued  
 PORTLAND AND BLENDED CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2016					
	August	September	October	November	December	January–December
<b>New England and Middle Atlantic:</b>						
Maine and New York	177,561	181,317	177,653	144,428	121,191	1,744,519
Pennsylvania	404,178	358,056	371,843	327,712	253,058	3,786,523
District subtotal <sup>3</sup>	581,739	539,373	549,496	472,141	374,249	5,531,043
<b>East North Central:</b>						
Illinois	162,461	160,459	157,392	132,384	73,665	1,493,000
Indiana	364,810 <sup>4</sup>	348,102 <sup>4</sup>	382,974 <sup>4</sup>	342,169 <sup>4</sup>	199,990 <sup>4</sup>	3,443,889 <sup>4</sup>
Michigan	470,019	411,821	437,388	343,232	158,709	3,744,151
Ohio	(4)	(4)	(4)	(4)	(4)	(4)
District subtotal <sup>3</sup>	997,289	920,382	977,755	817,785	432,365	8,681,039
<b>West North Central:</b>						
Iowa, Nebraska, South Dakota	438,260	408,768	414,606	296,927	128,102	3,494,587
Kansas	229,071	206,698	218,010	188,382	138,221	2,206,068
Missouri	940,588	930,128	974,593	812,043	532,123	8,578,848
District subtotal <sup>3</sup>	1,607,918	1,545,594	1,607,210	1,297,352	798,445	14,279,503
<b>South Atlantic:</b>						
Florida	523,353	495,914	484,576	498,198	482,342	6,020,095
Georgia, Maryland, Virginia, West Virginia	568,977	492,748	567,888	508,541	402,307	5,773,482
Puerto Rico	38,437	34,981	33,916	32,421	37,249	471,976
South Carolina	261,881	229,892	234,617	239,549	195,914	2,876,304
District subtotal <sup>3</sup>	1,392,649	1,253,536	1,320,997	1,278,709	1,117,812	15,141,857
<b>East South Central:</b>						
Alabama, Kentucky, Tennessee	657,530	613,071	617,944	571,185	426,143	7,018,758
<b>West South Central:</b>						
Arkansas and Oklahoma	221,760	214,866	216,817	178,063	163,438	2,369,451
Texas, northern	441,178	438,013	455,804	380,418	378,837	4,831,201
Texas, southern	484,081	502,100	517,050	472,115	469,481	6,003,416
District subtotal <sup>3</sup>	1,147,019	1,154,978	1,189,672	1,030,597	1,011,756	13,204,069
<b>Mountain and Pacific:</b>						
Arizona and New Mexico	184,543	174,172	197,430	181,422	170,615	2,186,930
California	930,891	830,513	818,582	774,647	723,026	9,638,658
Colorado and Wyoming	364,808	318,886	305,358	246,573	157,103	3,121,927
Montana, Nevada, Oregon, Utah						
Washington	406,242	387,981	370,604	329,921	208,046	3,850,836
District subtotal <sup>3</sup>	1,886,484	1,711,552	1,691,974	1,532,562	1,258,789	18,798,352
U.S. total <sup>3</sup>	8,270,628	7,738,486	7,955,048	7,000,330	5,419,559	82,654,621
Imports <sup>5</sup>	1,143,865	1,065,482	1,024,364	882,208	617,045	10,649,710
Grand total <sup>3</sup>	9,414,493	8,803,968	8,979,412	7,882,539	6,036,605	93,304,330

<sup>1</sup>Revised.

<sup>2</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>3</sup>Includes cement manufactured from imported clinker.

<sup>4</sup>Data may not add to totals shown because of independent rounding.

<sup>5</sup>Beginning with July 2016, data for Indiana and Ohio have been combined to avoid disclosing proprietary data.

<sup>6</sup>As reported by domestic and Canadian cement manufacturers and other importers.

TABLE 1B  
MASONRY CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2015						
	January	February	March	April	May	June	July
<b>New England and Middle Atlantic:</b>							
Maine and New York	911	550	1,304	2,833	3,345	3,162	3,478
Pennsylvania	6,321 <sup>r</sup>	3,833 <sup>r</sup>	10,544 <sup>r</sup>	15,370 <sup>r</sup>	16,801 <sup>r</sup>	16,211 <sup>r</sup>	17,101 <sup>r</sup>
District subtotal <sup>3</sup>	7,232 <sup>r</sup>	4,383 <sup>r</sup>	11,848 <sup>r</sup>	18,203 <sup>r</sup>	20,146 <sup>r</sup>	19,373 <sup>r</sup>	20,579 <sup>r</sup>
<b>East North Central:</b>							
Illinois	W	W	W	W	W	W	W
Indiana	W	W	W	W	W	W	W
Michigan	2,691	2,847	5,161	8,032	7,934	8,915	8,665
Ohio	2,205	1,385	3,223	4,589	4,453	4,977	5,074
District subtotal <sup>3</sup>	17,922	13,307	24,449	32,794	33,439	35,451	33,579
<b>West North Central:</b>							
Iowa, Nebraska, South Dakota	W	W	W	W	W	W	W
Kansas	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W
District subtotal	2,478	1,952	2,628	3,542	3,557	4,290	3,773
<b>South Atlantic:</b>							
Florida	29,324	28,607	32,780	33,693	31,505	35,087	33,960
Georgia, Maryland, Virginia, West Virginia	19,690	15,165	21,711	25,019	24,993	28,134	27,409
Puerto Rico	--	--	--	--	--	--	--
South Carolina	12,693	10,223	15,205	16,249	16,920	17,308	16,620
District subtotal <sup>3</sup>	61,707	53,995	69,696	74,961	73,418	80,529	77,989
<b>East South Central:</b>							
Alabama, Kentucky, Tennessee	16,318	12,731	17,286	17,175	20,282	21,360	20,633
<b>West South Central:</b>							
Arkansas and Oklahoma	5,967	5,486	7,516	7,119	6,711	7,328	7,566
Texas	22,452	23,156	22,983	26,982	24,306	26,127	29,280
District subtotal <sup>3</sup>	28,419	28,642	30,499	34,101	31,018	33,455	36,846
<b>Mountain and Pacific:</b>							
Arizona, Colorado, Montana, Nevada, New Mexico, Utah, Wyoming	4,917	3,817	4,933	4,423	4,681	5,283	6,231
California	13,689	14,937	25,207	10,971	12,546	18,063	17,075
District subtotal <sup>3</sup>	18,605	18,754	30,140	15,394	17,227	23,345	23,306
U.S. total <sup>3</sup>	152,682 <sup>r</sup>	133,764 <sup>r</sup>	186,545 <sup>r</sup>	196,169 <sup>r</sup>	199,086 <sup>r</sup>	217,803 <sup>r</sup>	216,706 <sup>r</sup>
Imports <sup>5</sup>	980	818	1,459	1,759	1,813	1,921	2,505
Grand total <sup>3</sup>	153,662 <sup>r</sup>	134,583 <sup>r</sup>	188,004 <sup>r</sup>	197,928 <sup>r</sup>	200,900 <sup>r</sup>	219,725 <sup>r</sup>	219,210 <sup>r</sup>

See footnotes at end of table.

TABLE 1B—Continued  
MASONRY CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2015					
	August	September	October	November	December	January–December
<b>New England and Middle Atlantic:</b>						
Maine and New York	3,405	3,039	3,401	2,239	2,020	29,686
Pennsylvania	15,884 <sup>r</sup>	15,448 <sup>r</sup>	15,155 <sup>r</sup>	13,252 <sup>r</sup>	13,785 <sup>r</sup>	159,705 <sup>r</sup>
District subtotal <sup>3</sup>	19,289 <sup>r</sup>	18,488 <sup>r</sup>	18,556 <sup>r</sup>	15,491 <sup>r</sup>	15,805 <sup>r</sup>	189,391 <sup>r</sup>
<b>East North Central:</b>						
Illinois	W	W	W	W	W	W
Indiana	W	W	W	W	W	W
Michigan	7,551	9,669	8,755	6,366	5,336	81,921
Ohio	5,052	4,861	5,273	3,761	3,387	48,240
District subtotal <sup>3</sup>	33,471	36,642	33,657	26,063	25,652	346,427
<b>West North Central:</b>						
Iowa, Nebraska, South Dakota	W	W	W	W	W	W
Kansas	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
District subtotal	3,909	4,097	3,650	2,949	3,739	40,563
<b>South Atlantic:</b>						
Florida	31,759	34,302	37,381	32,299	33,929	394,625
Georgia, Maryland, Virginia, West Virginia	25,423	26,839	25,230	20,178	22,409	282,198
Puerto Rico	--	--	--	--	--	--
South Carolina	16,372	16,287	14,886	11,607	14,272	178,641
District subtotal <sup>3</sup>	73,554	77,427	77,496	64,083	70,610	855,464
<b>East South Central:</b>						
Alabama, Kentucky, Tennessee	20,080	21,113	19,427	15,856	17,604	219,864
<b>West South Central:</b>						
Arkansas and Oklahoma	8,204	7,393	9,337	6,982	7,220	86,828
Texas	27,291	26,537	26,571	21,762	23,376	300,823
District subtotal <sup>3</sup>	35,495	33,930	35,907	28,743	30,597	387,651
<b>Mountain and Pacific:</b>						
Arizona, Colorado, Montana, Nevada, New Mexico, Utah, Wyoming	5,224	5,595	3,986	2,869	2,578	54,537
California	17,174	17,540	12,555	12,886	16,972	189,613
District subtotal <sup>3</sup>	22,397	23,134	16,541	15,755	19,550	244,150
U.S. total <sup>3</sup>	208,194 <sup>r</sup>	214,830 <sup>r</sup>	205,233 <sup>r</sup>	168,940 <sup>r</sup>	183,556 <sup>r</sup>	2,283,510 <sup>r</sup>
Imports <sup>3</sup>	2,130	2,185	2,186	1,825	1,631	21,213
Grand total <sup>3</sup>	210,324 <sup>r</sup>	217,015 <sup>r</sup>	207,420 <sup>r</sup>	170,765 <sup>r</sup>	185,187 <sup>r</sup>	2,304,723 <sup>r</sup>

See footnotes at end of table.

TABLE 1B—Continued  
MASONRY CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2016						
	January	February	March	April	May	June	July
<b>New England and Middle Atlantic:</b>							
Maine and New York	951	826	2,972	2,241	2,761	2,761	2,741
Pennsylvania	8,348 <sup>r</sup>	8,856 <sup>r</sup>	15,585 <sup>r</sup>	13,329 <sup>r</sup>	13,593 <sup>r</sup>	15,579 <sup>r</sup>	13,817 <sup>r</sup>
District subtotal <sup>3</sup>	9,299 <sup>r</sup>	9,681 <sup>r</sup>	18,557 <sup>r</sup>	15,570 <sup>r</sup>	16,354 <sup>r</sup>	18,340 <sup>r</sup>	16,558 <sup>r</sup>
<b>East North Central:</b>							
Illinois	W	W	W	W	W	W	W
Indiana	W	W	W	W	W	W	W
Michigan	1,277	3,652	6,153	6,563	7,664	10,797	8,113
Ohio	1,783	2,169	4,070	4,157	4,418	5,069	W
District subtotal <sup>3</sup>	15,992	19,222	31,130	31,663	31,573	38,307	31,699
<b>West North Central:</b>							
Iowa, Nebraska, South Dakota	W	W	W	W	W	W	W
Kansas	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W
District subtotal	2,162	2,932	4,091	3,660	3,253	1,150	2,356
<b>South Atlantic:</b>							
Florida	33,205	34,077	41,456	36,834	33,028	36,986	35,788
Georgia, Maryland, Virginia, West Virginia	18,351	19,596	27,279	25,234	25,047	28,811	24,557
Puerto Rico	--	--	--	--	--	--	--
South Carolina	12,868	14,440	19,349	16,646	15,434	17,817	16,520
District subtotal <sup>3</sup>	64,423	68,112	88,084	78,714	73,509	83,614	76,864
<b>East South Central:</b>							
Alabama, Kentucky, Tennessee	15,864	18,021	23,100	22,294	21,784	23,831	19,254
<b>West South Central:</b>							
Arkansas and Oklahoma	7,816	8,554	9,713	7,616	8,315	9,046	7,950
Texas	25,173	26,263	27,017	26,352	25,413	26,948	25,564
District subtotal <sup>3</sup>	32,989	34,817	36,730	33,968	33,728	35,993	33,513
<b>Mountain and Pacific:</b>							
Arizona, Colorado, Montana, Nevada, New Mexico, Utah, Wyoming	2,582	2,667	3,063	2,756	2,834	3,142	2,597
California	14,329	16,524	24,701	15,235	15,629	20,205	17,702
District subtotal <sup>3</sup>	16,911	19,191	27,763	17,991	18,463	23,347	20,299
U.S. total <sup>3</sup>	157,639 <sup>r</sup>	171,978 <sup>r</sup>	229,456 <sup>r</sup>	203,858 <sup>r</sup>	198,664 <sup>r</sup>	224,582 <sup>r</sup>	200,543 <sup>r</sup>
Imports <sup>5</sup>	1,170	1,062	1,976	1,905	2,019	2,243	1,757
Grand total <sup>3</sup>	158,809 <sup>r</sup>	173,040 <sup>r</sup>	231,432 <sup>r</sup>	205,763 <sup>r</sup>	200,684 <sup>r</sup>	226,825 <sup>r</sup>	202,300 <sup>r</sup>

See footnotes at end of table.



TABLE 1B—Continued  
MASONRY CEMENT SHIPMENTS, BY DISTRICT OF ORIGIN, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

District	2016					
	August	September	October	November	December	January–December
<b>New England and Middle Atlantic:</b>						
Maine and New York	3,151	2,485	2,619	1,904	1,140	26,550
Pennsylvania	15,295 <sup>r</sup>	14,578 <sup>r</sup>	14,839 <sup>r</sup>	12,530 <sup>r</sup>	8,868	155,218
District subtotal <sup>3</sup>	18,446 <sup>r</sup>	17,062 <sup>r</sup>	17,458 <sup>r</sup>	14,434 <sup>r</sup>	10,008	181,767
<b>East North Central:</b>						
Illinois	W	W	W	W	W	W
Indiana	W	W	W	W	W	W
Michigan	8,313	7,916	7,285	6,533	3,715	80,011
Ohio	W	W	W	W	W	21,665 <sup>4</sup>
District subtotal <sup>3</sup>	34,026	32,036	32,235	29,973	22,891	350,747
<b>West North Central:</b>						
Iowa, Nebraska, South Dakota	W	W	W	W	W	W
Kansas	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
District subtotal	3,630	3,607	3,931	3,335	3,034	37,140
<b>South Atlantic:</b>						
Florida	33,154	34,387	33,833	36,168	36,245	425,159
Georgia, Maryland, Virginia, West Virginia	26,988	25,048	25,507	24,842	24,379	295,640
Puerto Rico	--	--	--	--	--	--
South Carolina	18,290	16,409	16,239	17,495	14,177	195,683
District subtotal <sup>3</sup>	78,432	75,844	75,579	78,505	74,800	916,481
<b>East South Central:</b>						
Alabama, Kentucky, Tennessee	22,402	21,104	21,508	19,977	14,699	243,838
<b>West South Central:</b>						
Arkansas and Oklahoma	8,204	8,327	9,175	8,511	7,365	100,591
Texas	26,226	27,469	27,227	24,206	22,787	310,644
District subtotal <sup>3</sup>	34,429	35,796	36,403	32,718	30,151	411,235
<b>Mountain and Pacific:</b>						
Arizona, Colorado, Montana, Nevada, New Mexico, Utah, Wyoming	2,883	2,551	2,631	2,488	2,327	32,521
California	19,533	19,743	19,596	16,807	15,667	215,671
District subtotal <sup>3</sup>	22,416	22,294	22,227	19,296	17,994	248,191
U.S. total <sup>3</sup>	213,780 <sup>r</sup>	207,744 <sup>r</sup>	209,340 <sup>r</sup>	198,238 <sup>r</sup>	173,577	2,389,399
Imports <sup>5</sup>	2,202	2,032	1,764	1,701	1,256	21,088
Grand total <sup>3</sup>	215,982 <sup>r</sup>	209,776 <sup>r</sup>	211,105 <sup>r</sup>	199,939 <sup>r</sup>	174,833	2,410,488

<sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data; included in totals. -- Zero.

<sup>1</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>2</sup>Includes cement manufactured from imported clinker.

<sup>3</sup>Data may not add to totals shown because of independent rounding.

<sup>4</sup>Total is for January through June 2016 only.

<sup>5</sup>As reported by domestic and Canadian cement manufacturers and other importers.

TABLE 2A  
 PORTLAND CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2015						
	January	February	March	April	May	June	July
Alabama	70,732	56,229	74,139	75,984	96,125	98,975	99,284
Alaska	8,858	6,863	7,903	9,177	14,103	18,172	19,582
Arizona	162,489	162,773	172,333	189,261	171,746	183,820	178,223
Arkansas	60,002	40,652	58,267	78,138	66,470	74,290	73,403
California, northern	270,093	246,854	307,792	286,132	286,334	310,592	315,186
California, southern	460,279	455,744	505,003	515,386	464,644	532,626	537,006
Colorado	119,836	106,141	151,718	176,594	142,707	211,325	222,819
Connecticut	20,564	11,753	25,491	47,607	57,757	62,599	62,603
Delaware	4,552	4,386	9,140	13,644	16,914	16,810	14,870
District of Columbia	12,519	9,864	16,295	19,081	18,271	20,401	22,563
Florida	441,172	438,091	509,806	496,715	495,421	528,449	512,843
Georgia	167,943	145,015	212,346	214,583	247,571	258,415	258,750
Hawaii	32,240	33,157	35,705	35,976	36,329	35,712	35,886
Idaho	17,066	23,286	42,180	45,578	43,289	51,788	52,338
Illinois, excluding Chicago	52,811	37,008	70,764	125,453	133,520	143,464	147,578
Illinois, Chicago metropolitan	64,194	35,119	80,084	132,151	151,680	166,289	174,062
Indiana	67,337	49,167	99,448	170,308	183,391	185,254	205,564
Iowa	37,346	27,088	75,117	161,277	157,153	194,899	199,058
Kansas	68,873	50,934	98,815	116,801	81,551	124,781	135,091
Kentucky	58,485	32,840	68,147	88,679	106,144	107,324	105,151
Louisiana	150,282	135,735	134,034	140,454	159,027	180,146	204,017
Maine	5,376	3,823	7,486	10,592	17,914	22,315	23,372
Maryland	54,394	44,354	80,716	116,363	118,678	120,776	126,797
Massachusetts	40,313	17,640	46,006	77,647	87,571	95,681	93,913
Michigan	42,416	32,699	65,453	126,510	190,305	213,792	212,759
Minnesota	45,004	41,532	58,380	109,432	154,010	203,273	218,977
Mississippi	47,139	41,049	46,533	56,220	59,554	64,394	71,622
Missouri	79,136	52,325	102,806	149,027	132,667	145,352	149,913
Montana	8,213	10,423	18,399	27,221	29,780	36,239	26,878
Nebraska	33,511	24,342	62,340	96,733	78,407	107,801	124,045
Nevada	88,194	83,484	88,998	88,656	90,448	102,014	102,758
New Hampshire	6,068	5,522	9,152	13,913	18,597	20,998	20,872
New Jersey	71,959	45,222	80,344	126,972	128,901	139,223	139,689
New Mexico	37,872	35,361	42,012	44,205	40,361	48,893	48,181
New York, eastern	20,775	12,791	24,317	38,570	46,131	51,161	55,107
New York, western	17,163	11,890	22,019	44,044	66,392	77,567	82,033
New York, metropolitan	67,863	42,804	95,008	148,245	158,032	160,368	165,110
North Carolina	131,379	90,940	164,065	183,365	190,861	198,313	204,131
North Dakota	27,695	24,263	27,413	57,331	88,687	130,030	140,381
Ohio	99,444	65,910	151,410	250,803	309,321	310,867	334,390
Oklahoma	124,241	101,249	124,131	122,757	96,379	161,464	148,396
Oregon	49,327	45,840	57,231	59,627	65,800	70,378	70,955
Pennsylvania, eastern	68,796	54,481	88,304	136,105	145,170	160,486	155,387
Pennsylvania, western	47,116	30,788	53,768	80,300	100,023	96,706	120,386
Rhode Island	2,862	806	2,815	7,597	10,402	9,841	10,127
South Carolina	85,553	73,473	110,044	111,156	123,179	130,708	137,934
South Dakota	9,701	10,314	22,163	41,777	44,139	57,535	58,823
Tennessee	91,387	61,816	109,925	125,667	137,583	156,155	143,186
Texas, northern	461,895	425,025	463,513	494,965	414,121	550,024	586,197
Texas, southern	626,221	703,112	645,944	720,175	579,072	725,035	848,086
Utah	63,545	69,126	83,282	94,948	91,918	122,271	118,336
Vermont	2,684	2,821	3,583	6,650	11,089	12,294	8,947
Virginia	99,625	73,622	127,816	158,156	152,043	155,091	157,344
Washington	116,142	112,227	132,427	139,979	141,597	161,553	156,759
West Virginia	27,363	18,399	29,660	32,123	39,413	43,840	43,590
Wisconsin	39,623	36,623	65,437	150,272	186,533	214,466	240,023
Wyoming	15,043	14,063	21,719	24,780	23,358	36,416	41,848
Puerto Rico	29,261	32,149	35,953	29,877	32,750	33,949	34,986
Foreign countries <sup>3</sup>	57,053	46,923	62,211	73,806	77,748	97,687	88,548
Total shipments <sup>4</sup>	5,289,029	4,707,929	6,187,311	7,515,541	7,609,086	8,751,084	9,086,664

See footnotes at end of table.

TABLE 2A—Continued  
 PORTLAND CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2015					
	August	September	October	November	December	January–December
Alabama	88,455	89,504	89,889	72,472	73,491	985,280
Alaska	20,476	19,075	15,258	7,187	6,975	153,629
Arizona	162,756	147,083	165,471	150,901	156,664	2,003,519
Arkansas	73,066	83,213	77,177	58,513	62,723	805,915
California, northern	310,634	309,784	316,002	252,910	223,836	3,436,149
California, southern	530,846	493,682	547,049	466,690	488,605	5,997,560
Colorado	221,201	212,194	209,363	154,461	121,425	2,049,784
Connecticut	59,158	61,050	63,889	59,047	48,260	579,778
Delaware	16,204	14,618	14,254	11,759	11,617	148,769
District of Columbia	23,835	23,943	25,418	22,257	23,625	238,072
Florida	486,868	488,562	549,911	476,968	502,596	5,927,403
Georgia	241,849	242,316	238,451	182,475	204,702	2,614,416
Hawaii	32,801	30,452	36,716	27,925	34,712	407,612
Idaho	54,892	48,852	51,502	36,749	20,831	488,350
Illinois, excluding Chicago	169,385	158,658	175,431	115,063	83,771	1,412,906
Illinois, Chicago metropolitan	196,027	180,116	190,679	166,207	132,327	1,668,937
Indiana	218,691	222,879	208,020	155,901	125,585	1,891,544
Iowa	207,726	204,299	235,773	163,670	87,911	1,751,316
Kansas	137,942	134,634	141,874	107,627	86,357	1,285,279
Kentucky	117,599	121,922	122,111	101,176	86,620	1,116,198
Louisiana	189,064	196,444	214,195	161,290	177,678	2,042,364
Maine	21,694	22,593	23,678	20,747	14,783	194,373
Maryland	118,252	118,692	122,017	106,359	98,783	1,226,182
Massachusetts	89,746	93,094	101,910	88,050	82,735	914,307
Michigan	234,489	239,760	257,955	165,344	115,096	1,896,580
Minnesota	217,544	208,003	212,255	112,306	69,633	1,650,348
Mississippi	58,856	61,996	61,475	44,549	45,112	658,500
Missouri	169,844	185,527	194,863	141,931	125,026	1,628,417
Montana	25,056	27,676	29,766	15,209	8,968	263,828
Nebraska	115,222	109,670	131,027	90,168	57,613	1,030,879
Nevada	94,716	90,646	95,021	80,727	84,162	1,089,824
New Hampshire	22,696	21,879	23,689	19,681	15,199	198,266
New Jersey	141,674	134,973	154,215	137,069	119,624	1,419,866
New Mexico	48,331	43,422	41,725	37,479	31,047	498,888
New York, eastern	50,548	51,710	59,772	52,376	49,236	512,495
New York, western	78,901	74,735	75,525	56,303	41,555	648,127
New York, metropolitan	161,627	154,375	168,653	145,203	142,093	1,609,380
North Carolina	197,028	176,016	184,283	146,370	156,279	2,023,030
North Dakota	153,975	159,348	128,583	73,173	29,110	1,039,990
Ohio	362,518	358,494	380,891	299,190	215,833	3,139,071
Oklahoma	159,410	153,634	143,151	117,356	115,193	1,567,361
Oregon	70,020	77,962	76,409	55,620	43,468	742,635
Pennsylvania, eastern	157,150	164,643	167,991	139,721	111,625	1,549,859
Pennsylvania, western	111,522	107,114	112,276	94,290	74,554	1,028,844
Rhode Island	10,168	11,260	10,491	9,416	9,658	95,442
South Carolina	131,139	132,095	118,430	102,680	110,857	1,367,248
South Dakota	60,822	55,708	56,679	33,581	24,303	475,544
Tennessee	140,687	134,741	134,903	117,588	110,367	1,464,005
Texas, northern	562,166	554,310	529,344	421,933	458,050	5,921,543
Texas, southern	740,671	755,077	772,101	609,237	674,209	8,398,939
Utah	117,001	117,849	133,241	102,377	69,836	1,183,729
Vermont	8,463	8,935	11,066	9,553	7,988	94,073
Virginia	154,286	151,629	156,507	136,554	129,747	1,652,418
Washington	159,066	157,402	162,257	119,122	102,202	1,660,734
West Virginia	41,676	39,787	36,681	31,272	24,913	408,718
Wisconsin	228,492	214,283	231,732	138,500	81,849	1,827,832
Wyoming	43,058	43,993	41,216	22,309	15,646	343,449
Puerto Rico	31,266	29,467	37,684	19,602	24,174	371,118
Foreign countries <sup>3</sup>	69,169	84,146	95,860	73,419	48,912	875,483
Total shipments <sup>4</sup>	8,918,425	8,809,922	9,163,756	7,137,610	6,499,748	89,676,105

See footnotes at end of table.

TABLE 2A—Continued  
 PORTLAND CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2016						
	January	February	March	April	May	June	July
Alabama	72,343	78,591	96,152	102,668	105,228	103,002	89,547
Alaska	5,230	6,963	10,398	9,431	13,158	16,902	13,961
Arizona	139,209	175,290	194,827	175,612	175,655	175,393	153,344
Arkansas	55,450	73,669	70,440	74,213	74,872	80,475	66,593
California, northern	177,445	245,545	252,853	276,289	288,976	322,003	290,155
California, southern	398,465	457,025	534,163	494,922	506,498	546,491	508,381
Colorado	117,552	126,789	159,554 <sup>r</sup>	174,202	191,066	233,371	212,494
Connecticut	29,178	24,864	44,119	47,273	55,771	62,654	54,430
Delaware	6,770	9,205	13,527	9,714	6,363	10,523	8,341
District of Columbia	18,165	18,651	23,922	20,553	17,570	18,417	15,233
Florida	484,398	568,706	609,964	566,850	549,971	566,412	508,077
Georgia	174,900	204,670	283,330	266,469	265,049	280,138	236,425
Hawaii	31,072	30,445	32,461	30,448	31,210	31,017	25,356
Idaho	20,483	29,638	42,343	47,520	51,413	57,181	52,749
Illinois, excluding Chicago	47,083	49,654	89,395	105,232	124,919	151,943	122,104
Illinois, Chicago metropolitan	47,389	65,733	119,068	130,001	160,445	188,310	165,862
Indiana	62,402	72,293	116,244	142,096	162,842	198,850	154,524
Iowa	39,496	38,971	99,588	138,636	172,662	224,673	189,792
Kansas	59,681	86,846	113,067	108,405	99,330	146,410	115,242
Kentucky	51,502	62,944	102,127	101,912	96,818	115,487	91,672
Louisiana	172,652	194,828	187,261	158,008	162,054	157,220	133,001
Maine	7,850	6,658	10,534	17,445	20,991	22,814	21,155
Maryland	62,540	68,957	112,252	108,311	98,244	116,376	100,102
Massachusetts	52,065	42,915	68,113	82,346	93,492	104,736	86,880
Michigan	55,721	59,142	80,746	146,459	219,205	241,127	207,949
Minnesota	43,334	43,670	62,335	101,204	167,620	218,119	187,765
Mississippi	40,642	48,363	53,142	48,859	55,230	58,007	48,809
Missouri	78,722	102,973	150,591	147,842	138,285	203,393	143,116
Montana	6,370	10,939	18,861	26,696	30,176	39,258	34,909
Nebraska	29,215	31,978	79,795	83,034	85,358	119,938	103,545
Nevada	81,787	87,801	102,605	96,783	107,398	112,072	106,669
New Hampshire	8,288	6,642	11,721	15,160	18,783	20,091	18,124
New Jersey	70,813	71,902	115,164	116,722	116,796	131,805	118,717
New Mexico	28,174	32,908	38,740	35,393	36,745	42,259	35,944
New York, eastern	22,397	20,569	37,954	41,710	49,208	52,565	45,279
New York, western	19,007	18,323	28,652	43,461	61,601	72,058	64,105
New York, metropolitan	96,954	95,986	146,900	152,019	152,604	169,733	145,337
North Carolina	143,652	156,030	257,525	226,757	210,543	240,497	212,225
North Dakota	18,978	10,217	20,757	28,823	67,141	86,250	88,591
Ohio	100,823	115,160	214,939	280,081	309,898	365,871	309,010
Oklahoma	112,805	132,252	133,994	115,481	121,838	145,805	121,859
Oregon	45,964	57,613	67,456	72,899	69,452	75,494	71,237
Pennsylvania, eastern	71,411	73,196	129,403	135,521	138,787	159,505	138,739
Pennsylvania, western	44,362	44,575	73,380	79,970	90,754	105,868	99,229
Rhode Island	5,384	3,784	7,222	9,654	10,495	11,336	8,584
South Carolina	101,892	119,026	168,847	154,739	149,687	169,018	140,772
South Dakota	7,795	8,654	18,253	30,402	46,310	63,701	59,070
Tennessee	83,075	94,320	131,492	139,484	127,611	142,986	116,170
Texas, northern	481,184	536,610	516,348	511,715	480,091	549,816	541,773
Texas, southern	653,503	750,116	727,253	632,833	611,368	655,225	649,867
Utah	60,123	67,192	94,591	106,987	120,016	137,703	118,993
Vermont	4,104	4,157	5,018	4,589	12,325	11,228	7,548
Virginia	103,344	108,467	173,343	161,937	150,455	175,334	155,609
Washington	107,755	125,306	138,567	145,699	152,326	159,888	142,363
West Virginia	19,771	20,510	28,376	31,038	32,543	37,517	33,149
Wisconsin	43,713	51,697	75,462	154,094	203,175	233,478	207,780
Wyoming	11,866	11,528	14,161	18,097	23,590	31,586	27,108
Puerto Rico	18,980	22,090	20,472	19,487	19,866	22,576	21,887
Foreign countries <sup>3</sup>	41,698	44,312	49,575	42,797	62,536	73,721	66,976
Total shipments <sup>4</sup>	5,196,926	5,927,855	7,379,345 <sup>r</sup>	7,546,982	7,974,409	9,065,623	8,014,226

See footnotes at end of table.

TABLE 2A—Continued  
 PORTLAND CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2016					
	August	September	October	November	December	January–December
Alabama	98,391	98,080	96,673	88,227	70,168	1,099,071
Alaska	18,037	14,980	13,151	10,693	5,371	138,274
Arizona	169,906	159,902	173,619	156,696	160,074	2,009,527
Arkansas	75,093	75,813	81,885	69,001	57,394	854,898
California, northern	332,564	302,460	284,881	291,309	244,896	3,309,375
California, southern	577,131	513,414	516,746	492,482	450,503	5,996,221
Colorado	244,607	227,043	223,803	192,159	136,900	2,239,539
Connecticut	59,866	55,320	56,235	51,696	35,843	577,249
Delaware	7,790	7,032	6,916	8,762	6,794	101,738
District of Columbia	20,275	18,478	21,270	18,609	16,130	227,273
Florida	561,846	535,543	521,322	531,138	516,668	6,520,895
Georgia	270,550	262,050	264,530	243,689	192,809	2,944,609
Hawaii	28,423	25,106	25,145	23,380	21,932	335,995
Idaho	63,546	52,386	49,538	46,645	17,755	531,196
Illinois, excluding Chicago	171,057	169,911	154,141	125,854	66,953	1,378,245
Illinois, Chicago metropolitan	186,361	165,763	205,925	168,527	91,838	1,695,221
Indiana	191,748	179,675	210,865	198,818	100,747	1,791,103
Iowa	217,018	190,681	228,111	182,605	60,268	1,782,501
Kansas	150,108	127,536	141,242	123,794	71,315	1,342,975
Kentucky	120,383	111,871	114,590	107,303	76,717	1,153,327
Louisiana	141,988	162,392	159,499	131,857	123,547	1,884,308
Maine	24,466	23,151	23,053	20,337	11,626	210,081
Maryland	121,521	105,272	115,760	102,157	82,917	1,194,411
Massachusetts	106,292	96,873	100,035	87,239	71,493	992,480
Michigan	243,602	205,168	223,852	183,149	85,589	1,951,709
Minnesota	219,035	193,093	189,603	128,652	59,370	1,613,800
Mississippi	60,591	71,101	72,045	56,709	44,460	657,959
Missouri	178,031	181,261	190,653	155,632	114,214	1,784,712
Montana	39,395	35,832	34,439	33,432	7,835	318,142
Nebraska	114,225	107,075	104,179	91,215	44,654	994,211
Nevada	114,374	112,929	111,040	97,383	98,774	1,229,616
New Hampshire	21,093	18,676	21,727	17,610	11,618	189,535
New Jersey	144,449	132,035	142,293	121,370	108,110	1,390,176
New Mexico	39,840	34,497	42,252	40,428	35,114	442,294
New York, eastern	47,321	53,906	51,710	43,525	30,525	496,667
New York, western	77,100	76,443	73,922	58,764	31,285	624,720
New York, metropolitan	174,986	157,888	158,918	150,533	130,603	1,732,461
North Carolina	244,491	206,886	210,023	198,661	170,035	2,477,327
North Dakota	155,266	130,929	99,059	46,306	10,214	762,531
Ohio	372,896	337,327	357,387	301,072	164,243	3,228,707
Oklahoma	149,295	134,053	133,325	122,529	114,820	1,538,055
Oregon	85,362	81,271	70,409	72,679	47,419	817,256
Pennsylvania, eastern	173,861	145,912	154,693	131,039	93,824	1,545,890
Pennsylvania, western	108,678	100,919	114,376	84,709	55,543	1,002,364
Rhode Island	11,486	9,174	10,703	9,759	9,582	107,163
South Carolina	157,784	130,993	134,966	140,140	103,143	1,671,008
South Dakota	59,991	66,166	56,988	36,732	12,574	466,636
Tennessee	146,084	142,906	150,452	134,052	102,915	1,511,548
Texas, northern	569,350	562,154	579,985	489,620	508,259	6,326,905
Texas, southern	608,512	659,633	682,933	597,945	568,472	7,797,660
Utah	138,045	126,870	134,144	123,982	78,685	1,307,329
Vermont	9,798	11,734	10,936	8,760	5,029	95,225
Virginia	180,996	154,752	169,009	158,913	131,973	1,824,131
Washington	163,104	156,393	138,793	125,163	103,932	1,659,289
West Virginia	40,079	38,557	37,132	36,921	25,721	381,313
Wisconsin	237,781	210,101	244,362	179,225	74,849	1,915,717
Wyoming	28,586	26,336	26,822	21,430	10,607	251,717
Puerto Rico	23,168	22,524	21,752	24,873	29,027	266,702
Foreign countries <sup>3</sup>	77,966	74,878	54,501	45,311	29,973	664,245
Total shipments <sup>4</sup>	9,175,587	8,591,111	8,798,320	7,741,200	5,943,648	91,355,232

<sup>1</sup>Revised.

<sup>2</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>3</sup>Includes imported cement and cement manufactured from imported clinker.

<sup>4</sup>As reported by domestic and Canadian cement manufacturers and other importers.

<sup>5</sup>Data may not add to totals shown because of independent rounding.

TABLE 2B  
 BLENDED CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1, 2, 3</sup>

(Metric tons)

Destination	2015						
	January	February	March	April	May	June	July
Alabama	1,354	1,120	835	880	758	634	746
Alaska	--	--	--	--	--	--	--
Arizona	1,112	1,166	1,352	1,710	1,325	1,295	1,269
Arkansas	66	44	66	--	--	22	--
California, northern	--	--	24	--	--	--	--
California, southern	--	--	--	--	--	--	--
Colorado	3,158	1,278	1,190	3,348	1,454	8,127	4,268
Connecticut	--	--	--	44	67	70	--
Delaware	4,238	2,371	5,249	7,574	7,410	8,052	8,435
District of Columbia	--	--	--	--	--	--	--
Florida	55	--	--	--	--	75	239
Georgia	1,669	1,236	1,854	1,900	2,110	748	757
Hawaii	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Illinois, excluding Chicago	49	--	24	344	344	594	649
Illinois, Chicago metropolitan	--	--	--	--	454	2,222	--
Indiana	--	--	--	--	--	--	--
Iowa	2,095	977	4,989	12,239	12,593	17,837	27,287
Kansas	234	259	356	1,004	1,682	2,028	1,451
Kentucky	--	--	--	--	--	--	--
Louisiana	4,080	3,719	6,831	11,787	14,071	16,052	6,232
Maine	--	--	--	--	--	7	5
Maryland	--	23	24	95	162	141	138
Massachusetts	454	418	2,147	1,748	1,569	1,044	572
Michigan	653	622	652	1,702	8,539	13,866	11,024
Minnesota	--	--	--	44	45	--	68
Mississippi	514	696	776	717	1,181	3,897	4,874
Missouri	500	335	546	585	455	500	1,053
Montana	132	135	176	249	687	406	261
Nebraska	3,693	3,162	12,231	22,497	17,636	21,893	44,213
Nevada	1,422	2,635	3,042	3,433	3,913	4,667	4,418
New Hampshire	24	--	22	69	275	181	318
New Jersey	835	1,004	792	749	955	1,134	1,165
New Mexico	121	445	707	477	470	363	391
New York, eastern	783	657	879	1,494	2,185	2,375	3,358
New York, western	--	--	69	650	778	1,266	1,122
New York, metropolitan	260	46	2,579	3,633	3,886	12,471	9,123
North Carolina	847	188	399	1,154	517	328	230
North Dakota	--	--	--	--	--	188	279
Ohio	461	199	626	1,642	1,162	22	21
Oklahoma	3,361	4,933	4,771	5,628	4,658	5,572	4,568
Oregon	1,522	1,686	2,005	4,485	3,309	2,137	2,129
Pennsylvania, eastern	2,711	1,896	6,663	12,028	12,920	15,625	16,662
Pennsylvania, western	--	110	132	44	65	23	269
Rhode Island	--	--	--	--	--	--	--
South Carolina	1,815	1,813	1,606	1,422	1,655	2,010	1,604
South Dakota	--	142	172	173	28	298	387
Tennessee	48	71	117	94	114	116	303
Texas, northern	1,883	1,763	1,906	1,323	526	464	2,703
Texas, southern	--	--	--	2,077	1,561	1,709	233
Utah	1,715	1,706	2,117	2,450	3,135	6,065	9,254
Vermont	591	194	320	138	588	228	440
Virginia	748	637	995	1,158	1,111	905	805
Washington	4,444	5,026	6,898	10,137	7,490	9,300	12,103
West Virginia	276	137	204	69	--	--	2,844
Wisconsin	1,960	1,217	2,693	3,733	3,530	3,618	4,632
Wyoming	124	24	167	215	145	335	268
Puerto Rico	14,969	16,142	17,961	18,254	17,919	18,610	17,691
Foreign countries <sup>4</sup>	12,056	7,625	10,172	17,492	10,923	10,932	1,929
Total shipments <sup>5</sup>	77,034	67,857	107,337	162,691	156,364	200,453	212,792

See footnotes at end of table.

TABLE 2B—Continued  
 BLENDED CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1, 2, 3</sup>

(Metric tons)

Destination	2015					
	August	September	October	November	December	January–December
Alabama	875	588	794	982	660	10,227
Alaska	--	--	--	--	--	--
Arizona	898	1,165	1,319	2,253	1,914	16,777
Arkansas	--	--	--	801	355	1,354
California, northern	--	--	--	--	--	24
California, southern	--	68	--	--	--	68
Colorado	4,432	9,671	5,463	1,217	763	44,369
Connecticut	23	23	24	23	736	1,009
Delaware	8,058	7,945	8,840	7,671	6,767	82,610
District of Columbia	--	71	--	--	--	71
Florida	69	39	454	250	12	1,195
Georgia	830	728	913	500	508	13,755
Hawaii	--	--	--	--	--	--
Idaho	2,760	1,929	2,390	1,589	628	9,295
Illinois, excluding Chicago	1,201	698	625	438	246	5,212
Illinois, Chicago metropolitan	--	--	--	--	--	2,676
Indiana	--	--	--	--	--	--
Iowa	19,585	19,600	12,998	10,185	3,772	144,156
Kansas	3,039	1,951	1,784	1,381	985	16,155
Kentucky	--	--	--	--	--	--
Louisiana	9,663	5,779	6,709	13,552	13,535	112,010
Maine	--	--	--	--	--	12
Maryland	1,011	302	314	23	140	2,371
Massachusetts	845	1,096	1,947	1,412	1,344	14,597
Michigan	11,689	10,434	7,745	4,303	654	71,884
Minnesota	1,119	942	1,750	969	443	5,380
Mississippi	4,999	4,837	4,784	5,287	5,535	38,096
Missouri	1,410	3,978	3,525	1,862	671	15,421
Montana	10,855	10,720	12,921	8,006	4,582	49,130
Nebraska	41,630	52,043	39,164	14,820	5,329	278,311
Nevada	4,679	4,824	4,481	3,101	2,044	42,660
New Hampshire	44	25	97	25	49	1,130
New Jersey	1,399	1,264	1,839	1,416	1,139	13,690
New Mexico	419	338	297	316	316	4,658
New York, eastern	3,127	3,145	2,428	1,214	370	22,015
New York, western	1,005	778	771	232	24	6,697
New York, metropolitan	13,670	2,342	191	183	243	48,629
North Carolina	258	282	402	163	242	5,011
North Dakota	168	283	164	--	--	1,082
Ohio	66	--	44	89	249	4,580
Oklahoma	4,456	5,747	5,768	4,375	3,084	56,922
Oregon	1,550	2,231	3,581	2,123	1,001	27,759
Pennsylvania, eastern	15,976	14,411	15,913	13,032	8,336	136,173
Pennsylvania, western	1,461	180	225	90	133	2,732
Rhode Island	--	--	--	--	--	--
South Carolina	1,202	1,455	1,094	1,573	1,266	18,515
South Dakota	234	133	584	--	--	2,154
Tennessee	47	47	46	538	3,337	4,879
Texas, northern	1,512	2,044	2,787	944	1,032	18,888
Texas, southern	--	250	113	--	--	5,944
Utah	5,544	2,918	2,982	2,263	1,790	41,939
Vermont	604	399	570	451	449	4,971
Virginia	902	1,051	1,219	965	857	11,353
Washington	9,117	10,431	8,359	4,235	2,052	89,591
West Virginia	2,055	--	--	--	--	5,585
Wisconsin	5,215	4,620	5,834	4,130	3,998	45,182
Wyoming	266	216	261	167	96	2,284
Puerto Rico	12,835	16,583	11,451	22,937	18,907	204,259
Foreign countries <sup>4</sup>	9,917	9,737	6,319	3,012	4,905	105,019
Total shipments <sup>5</sup>	222,720	220,342	192,281	145,100	105,497	1,870,468

See footnotes at end of table.

TABLE 2B—Continued  
 BLENDED CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1, 2, 3</sup>

(Metric tons)

Destination	2016						
	January	February	March	April	May	June	July
Alabama	519	611	772	805	1,655	1,681	1,703
Alaska	--	--	--	274	512	826	562
Arizona	1,776	1,522	1,632	1,675	1,558	1,637	1,347
Arkansas	94	--	--	--	89	--	--
California, northern	122	--	166	807	935	877	849
California, southern	--	--	--	--	--	--	--
Colorado	390	974	1,368	5,386	3,651	2,360	709
Connecticut	2,121	22	1,507	36	316	54	22
Delaware	4,869	4,634	7,463	7,328	6,969	9,887	9,067
District of Columbia	--	--	--	--	--	--	--
Florida	17	163	635	166	237	383	145
Georgia	1,745	536	2,327	783	836	875	775
Hawaii	--	--	--	--	--	--	--
Idaho	510	386	250	995	746	1,044	499
Illinois, excluding Chicago	--	98	267	1,313	1,701	2,285	1,525
Illinois, Chicago metropolitan	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Iowa	457	917	4,341	9,439	15,471	19,083	4,725
Kansas	541	853	2,103	2,057	1,924	3,299	2,806
Kentucky	--	--	--	76	--	--	--
Louisiana	6,812	7,987	5,335	6,339	8,073	3,861	2,008
Maine	--	--	--	--	--	--	--
Maryland	24	23	232	593	111	435	598
Massachusetts	635	938	1,895	1,461	1,702	2,107	1,913
Michigan	504	45	1,005	2,596	12,817	28,966	20,198
Minnesota	220	613	24	24	704	1,369	1,246
Mississippi	6,091	5,899	7,316	5,738	6,649	7,156	5,327
Missouri	423	761	950	998	847	1,874	1,552
Montana	3,572	5,212	3,220	514	682	711	536
Nebraska	1,825	2,957	12,154	18,323	24,670	57,170	44,210
Nevada	1,591	1,764	2,918	3,379	4,149	5,486	4,506
New Hampshire	--	--	--	--	--	47	--
New Jersey	976	1,117	907	904	1,050	749	1,057
New Mexico	171	316	217	94	23	317	265
New York, eastern	583	1,309	1,572	2,164	2,158	1,410	2,213
New York, western	225	67	135	103	601	666	469
New York, metropolitan	167	154	566	54	461	1,017	679
North Carolina	118	283	375	1,101	1,080	1,524	1,512
North Dakota	--	--	--	--	93	213	283
Ohio	108	384	67	432	422	485	1,698
Oklahoma	3,828	6,337	6,678	6,883	7,652	11,127	4,039
Oregon	670	1,672	2,269	2,932	2,629	3,269	1,747
Pennsylvania, eastern	3,213	3,392	9,789	12,169	13,897	15,241	18,102
Pennsylvania, western	22	44	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
South Carolina	1,521	1,528	1,336	1,447	1,358	1,749	1,930
South Dakota	--	--	--	--	--	23	--
Tennessee	3,712	3,799	4,709	4,655	3,912	7,902	5,893
Texas, northern	484	1,281	1,666	4,061	3,370	4,891	5,515
Texas, southern	284	1,021	1,907	475	1,442	1,181	1,168
Utah	1,924	2,006	2,078	2,036	2,322	2,126	2,025
Vermont	527	439	774	--	185	1,051	208
Virginia	630	865	1,028	1,318	1,010	899	251
Washington	1,664	4,243	3,659	5,894	7,631	12,050	9,683
West Virginia	--	--	89	305	298	753	552
Wisconsin	1,060	644	2,308	3,175	3,848	5,488	3,557
Wyoming	72	48	24	--	--	--	--
Puerto Rico	19,869	24,490	24,711	23,724	23,024	21,306	18,529
Foreign countries <sup>4</sup>	4,622	4,907	4,484	1,989	9,463	4,140	940
Total shipments <sup>5</sup>	81,309	97,260	129,228	147,023	184,932	253,053	189,142

See footnotes at end of table.



TABLE 2B—Continued  
 BLENDED CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2,3</sup>

(Metric tons)

Destination	2016						January–December
	August	September	October	November	December		
Alabama	1,133	1,879	1,698	1,412	1,094	14,961	
Alaska	816	793	--	--	--	3,784	
Arizona	1,388	1,246	1,229	1,424	1,232	17,666	
Arkansas	--	--	--	--	--	183	
California, northern	1,070	973	856	777	565	7,998	
California, southern	--	--	--	--	--	--	
Colorado	950	760	907	689	501	18,646	
Connecticut	22	--	23	14	--	4,135	
Delaware	11,856	8,119	9,629	8,370	7,145	95,336	
District of Columbia	--	--	--	--	--	--	
Florida	--	72	108	--	88	2,014	
Georgia	834	616	708	1,162	1,251	12,446	
Hawaii	--	--	--	--	--	--	
Idaho	1,185	754	123	24	49	6,565	
Illinois, excluding Chicago	2,840	4,274	1,536	1,247	1,340	18,426	
Illinois, Chicago metropolitan	--	--	--	--	--	--	
Indiana	--	--	--	--	2,150	2,150	
Iowa	18,299	17,025	18,836	11,850	2,228	122,670	
Kansas	3,843	3,732	3,347	2,999	1,417	28,920	
Kentucky	--	--	--	--	--	76	
Louisiana	3,580	4,049	2,497	1,441	1,820	53,801	
Maine	--	--	--	--	--	--	
Maryland	951	448	214	303	1,409	5,341	
Massachusetts	3,706	2,811	3,709	2,836	1,884	25,598	
Michigan	22,932	8,815	9,510	3,809	750	111,948	
Minnesota	1,370	1,181	953	343	196	8,244	
Mississippi	6,471	6,989	7,247	7,861	2,842	75,584	
Missouri	1,904	4,150	2,439	2,213	725	18,836	
Montana	606	560	475	376	73	16,538	
Nebraska	51,139	47,036	32,798	21,205	5,575	319,062	
Nevada	5,312	4,665	4,169	3,222	2,103	43,264	
New Hampshire	--	28	--	--	--	75	
New Jersey	1,005	932	842	866	536	10,942	
New Mexico	318	267	328	346	330	2,992	
New York, eastern	1,540	2,282	1,652	1,058	702	18,644	
New York, western	809	303	612	355	491	4,837	
New York, metropolitan	790	297	1,038	847	255	6,324	
North Carolina	1,467	751	767	674	363	10,015	
North Dakota	616	286	24	--	--	1,514	
Ohio	1,355	1,008	958	870	522	8,309	
Oklahoma	7,782	4,672	5,813	3,516	2,743	71,070	
Oregon	1,342	1,506	999	1,495	543	21,074	
Pennsylvania, eastern	18,185	13,669	13,571	12,953	6,394	140,575	
Pennsylvania, western	--	1,281	24	--	724	2,094	
Rhode Island	--	--	--	--	--	--	
South Carolina	1,940	1,197	936	1,099	1,516	17,559	
South Dakota	47	94	--	--	--	164	
Tennessee	8,019	10,271	6,984	8,374	4,229	72,460	
Texas, northern	5,383	6,546	6,064	7,018	5,206	51,485	
Texas, southern	627	2,246	2,989	1,177	2,836	17,354	
Utah	2,264	4,848	3,809	1,994	1,849	29,282	
Vermont	630	1,588	660	122	128	6,312	
Virginia	264	233	348	634	1,150	8,630	
Washington	11,109	10,704	5,357	5,717	2,591	80,302	
West Virginia	797	596	559	310	732	4,990	
Wisconsin	7,222	5,936	3,410	969	999	38,616	
Wyoming	--	--	--	--	--	144	
Puerto Rico	19,527	19,715	19,385	16,620	18,680	249,580	
Foreign countries <sup>4</sup>	3,660	656	953	748	3,000	39,564	
Total shipments <sup>5</sup>	238,906	212,857	181,092	141,339	92,957	1,949,098	

-- Zero.

<sup>1</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>2</sup>Includes imported cement and cement manufactured from imported clinker.

<sup>3</sup>Blended cement defined per ASTM standard C595.

<sup>4</sup>Includes U.S. possessions and territories.

<sup>5</sup>Data may not add to totals shown because of independent rounding.

TABLE 2C  
MASONRY CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2015						
	January	February	March	April	May	June	July
Alabama	5,381	4,794	5,660	4,027	6,407	7,007	6,715
Alaska	--	--	--	--	--	--	--
Arizona	1,752	1,599	1,716	1,930	2,109	2,611	2,368
Arkansas	3,376	2,338	3,200	3,840	3,344	4,149	3,937
California, northern	3,068	3,231	3,832	2,943	3,158	3,296	2,543
California, southern	12,241	13,142	23,457	8,968	10,695	16,258	17,049
Colorado	439	248	400	514	451	463	529
Connecticut	384	297	693	1,202	1,702	1,627	1,715
Delaware	245	180	427	434	463	456	480
District of Columbia	--	--	--	--	--	--	--
Florida	30,803	29,958	34,305	35,216	32,809	36,634	35,740
Georgia	10,837	8,514	12,133	11,893	12,481	13,297	12,573
Hawaii	139	134	143	141	137	175	210
Idaho	--	22	22	--	--	22	21
Illinois, excluding Chicago	288	258	591	714	766	811	743
Illinois, Chicago metropolitan	812	594	1,295	1,746	1,679	2,255	1,916
Indiana	1,891	1,665	2,175	3,284	3,012	3,402	3,087
Iowa	--	--	5	27	18	73	29
Kansas	308	264	457	297	335	439	323
Kentucky	3,263	1,823	3,191	4,218	4,834	5,159	4,192
Louisiana	4,111	3,174	3,901	3,737	4,051	4,447	4,745
Maine	15	19	78	118	65	97	121
Maryland	1,862	1,366	2,554	3,559	3,281	3,356	3,250
Massachusetts	305	109	333	1,106	990	927	1,004
Michigan	1,868	1,769	3,355	5,264	5,067	5,967	5,708
Minnesota	147	227	109	586	532	506	498
Mississippi	2,637	2,089	2,348	2,976	3,071	3,676	3,122
Missouri	861	511	870	1,157	976	1,123	1,010
Montana	40	--	--	146	--	63	--
Nebraska	--	--	51	51	--	51	46
Nevada	1,048	333	528	647	587	378	540
New Hampshire	183	82	391	538	753	599	893
New Jersey	1,817 <sup>r</sup>	876 <sup>r</sup>	2,976 <sup>r</sup>	4,710	5,005	4,421	4,744
New Mexico	17	188	180	239	145	272	242
New York, eastern	208	181	366	767	874	846	1,007
New York, western	426	336	687	1,110	874	947	1,169
New York, metropolitan	1,835 <sup>r</sup>	922 <sup>r</sup>	3,482 <sup>r</sup>	5,133 <sup>r</sup>	5,843 <sup>r</sup>	5,981 <sup>r</sup>	5,801 <sup>r</sup>
North Carolina	10,146	7,252	13,205	13,569	13,982	14,592	14,081
North Dakota	--	--	--	--	--	--	--
Ohio	3,328	2,278	5,035	6,752	7,221	7,080	7,615
Oklahoma	1,513	2,125	2,488	2,060	1,503	1,753	1,933
Oregon	5	6	7	14	21	12	7
Pennsylvania, eastern	1,704 <sup>r</sup>	1,170 <sup>r</sup>	2,499 <sup>r</sup>	3,114 <sup>r</sup>	3,738 <sup>r</sup>	3,796 <sup>r</sup>	3,964 <sup>r</sup>
Pennsylvania, western	1,153	759	1,816	2,570	2,547	2,649	3,015
Rhode Island	51	7	26	83	77	83	113
South Carolina	5,202	4,467	5,633	6,311	6,411	6,644	6,681
South Dakota	--	--	--	--	--	--	--
Tennessee	8,529	6,488	9,105	11,796	12,852	13,272	12,543
Texas, northern	8,346	8,910	10,526	10,983	10,638	9,747	11,279
Texas, southern	15,565	16,091	14,277	18,011	15,900	18,537	20,320
Utah	7	5	8	--	--	--	--
Vermont	27	14	14	61	44	25	39
Virginia	4,705	2,963	5,857	7,361	6,785	7,492	7,372
Washington	--	--	24	27	--	--	--
West Virginia	447	269	759	750	1,107	956	842
Wisconsin	283	524	800	1,200	1,412	1,285	1,280
Wyoming	--	--	--	--	--	--	--
Puerto Rico	--	--	--	--	--	--	--
Foreign countries <sup>3</sup>	45	11	15	25	148	10	54
Total shipments <sup>4</sup>	153,662 <sup>r</sup>	134,583 <sup>r</sup>	188,004 <sup>r</sup>	197,928 <sup>r</sup>	200,900 <sup>r</sup>	219,725 <sup>r</sup>	219,210 <sup>r</sup>

See footnotes at end of table.

TABLE 2C—Continued  
MASONRY CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2015					
	August	September	October	November	December	January–December
Alabama	6,357	5,865	6,940	5,304	6,176	70,633
Alaska	--	--	--	--	--	--
Arizona	2,430	2,526	2,571	2,269	2,243	26,124
Arkansas	4,524	3,730	4,475	2,903	3,776	43,592
California, northern	2,262	2,339	1,628	1,794	1,833	31,926
California, southern	16,412	17,194	11,402	10,963	14,822	172,603
Colorado	568	499	584	423	164	5,282
Connecticut	1,631	1,403	1,482	983	1,131	14,251
Delaware	425	521	412	344	430	4,816
District of Columbia	--	--	9	--	6	15
Florida	33,219	35,585	38,818	33,658	35,426	412,172
Georgia	12,353	13,035	12,243	9,368	12,391	141,118
Hawaii	116	119	139	122	134	1,710
Idaho	--	--	--	--	--	86
Illinois, excluding Chicago	674	2,784	759	511	533	9,431
Illinois, Chicago metropolitan	1,853	2,010	2,406	1,607	1,246	19,420
Indiana	3,272	3,610	3,696	2,375	2,606	34,075
Iowa	3	32	27	--	769	983
Kansas	428	437	449	353	250	4,340
Kentucky	5,476	6,970	4,418	4,450	4,471	52,463
Louisiana	4,374	4,528	4,501	3,524	3,644	48,737
Maine	86	95	85	65	54	899
Maryland	3,290	3,374	2,978	2,658	2,484	34,012
Massachusetts	914	828	985	775	855	9,131
Michigan	4,675	6,661	5,745	4,102	4,051	54,232
Minnesota	514	532	499	416	357	4,923
Mississippi	3,173	3,610	3,291	2,456	2,697	35,146
Missouri	953	1,110	1,233	903	832	11,538
Montana	17	62	--	18	--	346
Nebraska	--	51	--	51	--	300
Nevada	418	313	222	118	315	5,447
New Hampshire	880	764	1,037	762	568	7,449
New Jersey	4,343	4,555	4,276	4,002	3,355	45,080 <sup>r</sup>
New Mexico	297	206	206	179	178	2,349
New York, eastern	902	824	963	442	503	7,883
New York, western	1,174	1,151	919	779	673	10,246
New York, metropolitan	5,632 <sup>r</sup>	4,997 <sup>r</sup>	5,249 <sup>r</sup>	2,938 <sup>r</sup>	2,581 <sup>r</sup>	50,394 <sup>r</sup>
North Carolina	13,659	14,342	11,837	9,543	11,526	147,734
North Dakota	--	18	--	--	--	18
Ohio	7,789	7,463	7,966	6,251	5,419	74,196
Oklahoma	1,910	2,414	3,557	2,743	2,316	26,316
Oregon	6	5	5	11	3	101
Pennsylvania, eastern	3,848 <sup>r</sup>	3,672 <sup>r</sup>	3,621 <sup>r</sup>	4,551 <sup>r</sup>	5,712 <sup>r</sup>	41,389 <sup>r</sup>
Pennsylvania, western	2,781	2,746	2,604	2,049	1,863	26,553
Rhode Island	58	79	47	37	40	702
South Carolina	5,846	5,652	4,819	4,288	5,117	67,071
South Dakota	--	--	--	--	--	--
Tennessee	11,692	10,847	11,272	9,490	10,468	128,355
Texas, northern	11,662	9,659	10,001	7,646	7,967	117,363
Texas, southern	18,170	18,619	18,791	15,875	16,989	207,145
Utah	--	--	--	--	--	21
Vermont	44	67	62	24	44	465
Virginia	6,954	6,750	6,019	5,291	5,373	72,922
Washington	--	34	--	--	--	85
West Virginia	1,082	951	810	566	480	9,020
Wisconsin	1,151	1,343	1,354	779	301	11,714
Wyoming	--	--	--	--	--	--
Puerto Rico	--	--	--	--	--	--
Foreign countries <sup>3</sup>	25	35	6	6	15	398
Total shipments <sup>4</sup>	210,324 <sup>r</sup>	217,015 <sup>r</sup>	207,420 <sup>r</sup>	170,765 <sup>r</sup>	185,187 <sup>r</sup>	2,304,723 <sup>r</sup>

See footnotes at end of table.

TABLE 2C—Continued  
MASONRY CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2016						
	January	February	March	April	May	June	July
Alabama	5,348	6,214	7,253	7,077	7,570	7,600	6,350
Alaska	--	--	--	--	--	--	--
Arizona	2,052	2,115	2,276	2,244	2,117	2,244	1,830
Arkansas	3,623	3,504	4,203	4,318	4,208	4,521	4,416
California, northern	1,041	1,717	1,780	1,930	1,825	2,166	2,949
California, southern	13,082	14,593	22,590	12,781	13,356	17,567	14,363
Colorado	385	372	514	288	523	635	526
Connecticut	388	410	1,427	959	1,269	1,537	1,666
Delaware	225	280	412	447	315	539	402
District of Columbia	--	--	--	--	--	--	21
Florida	34,724	35,542	43,330	38,423	34,544	38,610	37,138
Georgia	10,190	11,771	15,095	14,358	13,279	14,617	12,250
Hawaii	135	111	145	108	143	128	98
Idaho	--	--	--	--	--	--	--
Illinois, excluding Chicago	400	529	853	762	731	680	626
Illinois, Chicago metropolitan	757	926	1,713	1,714	1,854	2,178	1,474
Indiana	1,523	2,035	3,060	2,799	3,103	3,326	2,784
Iowa	15	291	20	--	9	34	5
Kansas	249	359	536	300	268	409	249
Kentucky	2,559	3,280	5,086	5,088	4,586	5,510	4,509
Louisiana	3,972	4,011	4,354	3,719	4,247	4,230	3,699
Maine	21	33	86	54	122	39	35
Maryland	1,805	1,509	3,000	2,759	2,642	3,131	2,668
Massachusetts	414	417	974	1,034	1,009	978	933
Michigan	2,170	2,720	4,146	4,537	5,255	5,412	5,943
Minnesota	90	48	40	77	114	115	74
Mississippi	2,550	2,791	3,288	2,950	3,467	3,787	3,482
Missouri	685	961	1,240	1,119	943	1,110	666
Montana	36	27	41	23	101	85	--
Nebraska	50	--	--	73	--	54	--
Nevada	203	218	319	524	436	469	369
New Hampshire	312	112	766	446	942	555	469
New Jersey	1,997	2,035	4,293	3,712 <sup>r</sup>	3,620 <sup>r</sup>	4,006 <sup>r</sup>	3,346 <sup>r</sup>
New Mexico	132	190	290	253	154	254	282
New York, eastern	353	234	717	640	490	607	652
New York, western	422	320	898	858	929	1,065	858
New York, metropolitan	1,253 <sup>r</sup>	1,306 <sup>r</sup>	3,764 <sup>r</sup>	4,315	4,487 <sup>r</sup>	4,910 <sup>r</sup>	4,560
North Carolina	9,681	11,125	17,080	14,792	13,341	16,381	14,485
North Dakota	--	23	23	23	66	90	44
Ohio	3,368	3,480	6,164	6,631	6,913	7,716	6,384
Oklahoma	3,321	3,235	4,029	2,406	2,689	3,091	2,199
Oregon	3	6	12	--	21	9	21
Pennsylvania, eastern	3,608 <sup>r</sup>	4,347 <sup>r</sup>	5,271 <sup>r</sup>	3,191 <sup>r</sup>	3,429 <sup>r</sup>	4,429 <sup>r</sup>	3,952 <sup>r</sup>
Pennsylvania, western	888	1,162	2,262	2,380	2,332	2,540	2,336
Rhode Island	22	23	69	61	52	57	83
South Carolina	4,911	5,516	7,081	6,237	6,202	6,860	6,024
South Dakota	--	--	--	--	--	--	--
Tennessee	8,307	9,652	12,997	13,538	12,083	13,992	11,505
Texas, northern	9,388	9,415	10,287	9,232	9,666	10,094	9,579
Texas, southern	17,376	18,966	19,008	18,557	17,627	19,170	17,859
Utah	--	--	--	--	--	--	--
Vermont	19	3	58	33	48	64	59
Virginia	3,992	4,508	6,988	6,217	5,530	7,201	6,114
Washington	--	--	--	--	--	--	--
West Virginia	281	300	745	821	765	831	875
Wisconsin	483	276	827	956	1,259	1,136	1,079
Wyoming	--	--	--	--	--	--	--
Puerto Rico	--	--	--	--	--	--	--
Foreign countries <sup>3</sup>	--	25	25	--	--	54	11
Total shipments <sup>4</sup>	158,809 <sup>r</sup>	173,040 <sup>r</sup>	231,432 <sup>r</sup>	205,763 <sup>r</sup>	200,684 <sup>r</sup>	226,825 <sup>r</sup>	202,300 <sup>r</sup>

See footnotes at end of table.

TABLE 2C—Continued  
MASONRY CEMENT SHIPMENTS, BY DESTINATION, JANUARY 2015–DECEMBER 2016<sup>1,2</sup>

(Metric tons)

Destination	2016						January–December
	August	September	October	November	December		
Alabama	7,372	6,794	7,312	6,639	5,015		80,544
Alaska	--	--	--	--	--		--
Arizona	2,073	1,775	2,068	1,833	1,908		24,537
Arkansas	4,465	4,282	4,082	4,137	3,747		49,506
California, northern	3,220	2,810	3,032	2,727	2,061		27,259
California, southern	15,704	16,565	16,125	13,582	13,283		183,592
Colorado	598	610	422	435	292		5,601
Connecticut	1,836	1,355	1,494	1,034	620		13,995
Delaware	549	315	375	404	243		4,505
District of Columbia	--	--	--	--	862		883
Florida	34,672	35,683	35,262	37,645	37,469		443,041
Georgia	14,154	12,965	13,545	12,942	10,148		155,315
Hawaii	144	113	140	166	72		1,503
Idaho	--	--	--	--	--		--
Illinois, excluding Chicago	668	722	812	546	738		8,068
Illinois, Chicago metropolitan	1,746	1,608	2,071	1,840	1,857		19,738
Indiana	3,279	3,252	3,305	2,792	2,395		33,653
Iowa	--	23	13	--	--		410
Kansas	358	401	380	542	292		4,345
Kentucky	5,162	5,355	5,077	5,204	3,467		54,883
Louisiana	3,418	3,861	3,951	3,826	3,354		46,641
Maine	48	32	35	44	18		567
Maryland	3,183	2,712	3,016	3,088	2,653		32,166
Massachusetts	1,025	850	928	728	414		9,703
Michigan	5,649	5,534	5,181	4,749	2,873		54,169
Minnesota	142	107	95	27	33		963
Mississippi	3,667	3,316	3,854	3,218	2,532		38,901
Missouri	839	917	991	799	709		10,980
Montana	17	--	--	58	--		388
Nebraska	54	--	51	8	--		291
Nevada	607	354	431	498	322		4,751
New Hampshire	594	591	552	497	358		6,194
New Jersey	3,275 <sup>r</sup>	2,891 <sup>r</sup>	3,042 <sup>r</sup>	2,512 <sup>r</sup>	1,777		36,505
New Mexico	240	216	212	200	159		2,583
New York, eastern	601	1,369	665	468	332		7,127
New York, western	1,080	2,485	831	700	514		10,962
New York, metropolitan	5,061	2,388 <sup>r</sup>	4,530 <sup>r</sup>	2,473 <sup>r</sup>	2,319		41,366
North Carolina	15,281	13,705	13,280	14,040	11,005		164,194
North Dakota	149	112	68	46	22		666
Ohio	7,339	6,824	7,080	5,929	5,294		73,122
Oklahoma	2,828	2,844	3,863	2,833	1,608		34,945
Oregon	6	14	8	--	--		100
Pennsylvania, eastern	4,804 <sup>r</sup>	4,005 <sup>r</sup>	5,011 <sup>r</sup>	5,911 <sup>r</sup>	3,388		51,347
Pennsylvania, western	2,382	3,815	2,353	1,982	3,539		27,971
Rhode Island	61	48	56	31	36		599
South Carolina	6,453	6,207	5,853	6,466	5,222		73,030
South Dakota	--	--	--	--	--		--
Tennessee	13,590	12,924	12,981	12,489	9,267		143,324
Texas, northern	10,024	10,947	10,052	8,998	9,719		117,401
Texas, southern	17,969	18,401	18,680	16,880	15,381		215,874
Utah	--	--	--	--	--		--
Vermont	96	16	113	11	46		566
Virginia	7,078	5,663	6,060	6,290	6,568		72,208
Washington	30	--	--	--	--		30
West Virginia	891	826	894	924	650		8,803
Wisconsin	1,474	1,172	851	725	247		10,484
Wyoming	--	--	--	--	--		--
Puerto Rico	--	--	--	--	--		--
Foreign countries <sup>3</sup>	25	--	22	22	5		191
Total shipments <sup>4</sup>	215,982 <sup>r</sup>	209,776 <sup>r</sup>	211,105 <sup>r</sup>	199,939 <sup>r</sup>	174,833		2,410,488

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>2</sup>Includes imported cement and cement manufactured from imported clinker.

<sup>3</sup>Includes U.S. possessions and territories.

<sup>4</sup>Data may not add to totals shown because of independent rounding.

TABLE 3  
SHIPMENTS OF PORTLAND PLUS BLENDED CEMENT BY DESTINATION FOR DECEMBER (2011–2016)<sup>1</sup>

(Thousand metric tons)

Destination	2011	2012	2013	2014	2015	5-Year average	2016	Percent rate of change to current year from	
								2015	5-Year average
Alabama	69	56	62	70	74	66	71	-3.9	7.7
Alaska	7	7	7	9	7	7	5	-23.0	-26.3
Arizona	95	122	132	139	159 <sup>2</sup>	129	161	1.7	24.8
Arkansas	56	54	52	69	63	59	57	-9.0	-2.4
California, northern	180	148	222	165	224	188	245	9.7	30.7
California, southern	342	304	386	358	489	376	451	-7.8	19.9
Colorado	70	93	113	147	122	109	137	12.5	26.2
Connecticut	43	34	33	38	49	39	36	-26.8	-9.1
Delaware	11	11	12	12	18	13	14	-24.2	7.7
District of Columbia	16	18	14	13	24	17	16	-31.7	-3.7
Florida	264	297	415	442	503	384	517	2.8	34.6
Georgia	121	110	130	185	205	150	194	-5.4	29.0
Hawaii	22	20	24	27	35	26	22	-36.8	-14.2
Idaho	16	19	16	27	21	20	18	-17.0	-9.7
Illinois, excluding Chicago	81	70	59	89	84	76	68	-18.7	-10.6
Illinois, Chicago metropolitan	58	62	56	100	132	82	92	-30.6	12.5
Indiana	94	78	69	144	126	102	103	-18.1	0.9
Iowa	52	61	55	80	92	68	62	-31.8	-7.9
Kansas	69	69	73	82	87	76	73	-16.7	-4.3
Kentucky	63	55	54	82	87	68	77	-11.4	12.7
Louisiana	146	139	151	170	191	159	125	-34.4	-21.3
Maine	14	9	8	11	15	11	12	-21.4	2.7
Maryland	74	75	74	85	99	81	84	-14.8	3.7
Massachusetts	67	55	54	71	84	66	73	-12.7	10.8
Michigan	74	67	61	110	116	86	86	-25.4	0.9
Minnesota	45	48	45	63	70	54	60	-15.0	9.9
Mississippi	50	46	50	59	51	51	47	-6.6	-7.3
Missouri	91	91	74	109	126	98	115	-8.6	17.1
Montana	11	12	9	15	14	12	8	-41.6	-35.2
Nebraska	42	50	45	59	63	52	50	-20.2	-3.2
Nevada	70	62	71	90	86 <sup>2</sup>	76	101	17.0	33.1
New Hampshire	14	10	10	13	15	13	12	-23.8	-7.2
New Jersey	89	81	93	115	121	100	109	-10.0	9.1
New Mexico	33	37	39	44	31	37	35	13.0	-4.0
New York, eastern	38	28	28	33	50	35	31	-37.0	-11.1
New York, western	40	30	31	34	42	35	32	-23.6	-10.0
New York, metropolitan	102	79	76	110	142	102	131	-8.1	28.5
North Carolina	129	126	132	157	157	140	170	8.9	21.7
North Dakota	26	33	24	34	29	29	10	-64.9	-64.8
Ohio	152	129	135	204	216	167	165	-23.7	-1.6
Oklahoma	117	101	102	136	118	115	118	-0.6	2.3
Oregon	33	34	38	43	44	38	48	7.9	25.5
Pennsylvania, eastern	99	86	82	104	120	98	100	-16.5	2.0
Pennsylvania, western	75	51	49	85	75	67	56	-24.7	-15.8
Rhode Island	11	8	6	9	10	9	10	-0.8	9.2
South Carolina	66	76	82	96	112	86	105	-6.7	21.2
South Dakota	16	15	11	17	24	16	13	-48.3	-23.5
Tennessee	84	80	87	104	114	94	107	-5.8	14.4
Texas, northern	337	379	376	521	459	415	513	11.8	23.9
Texas, southern	431	517	604	681	674	581	571	-15.3	-1.8
Utah	66	59	52	87	72	67	81	12.4	19.9
Vermont	7	4	5	5	8	6	5	-38.9	-13.0
Virginia	116	108	102	120	131	115	133	1.9	15.5
Washington	86	86	90	111	104	95	107	2.2	11.7
West Virginia	33	28	28	36	25	30	26	6.2	-11.8
Wisconsin	57	64	49	80	86	67	76	-11.6	13.1
Wyoming	17	18	16	21	16	17	11	-32.6	-39.0
Puerto Rico	72	55	52	49	43	54	48	10.7	-12.1
Foreign countries	81	75	73	74	54	71	33	-38.7	-53.8
Total <sup>3</sup>	4,837	4,735	5,092	6,244	6,605 <sup>2</sup>	5,503	6,037	-8.6	9.7

<sup>1</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>2</sup>Revised compared with last year's version of this table.

<sup>3</sup>Data may not add to totals shown because of independent rounding.

TABLE 4  
CLINKER PRODUCTION, BY DISTRICT, JANUARY 2015–DECEMBER 2016<sup>1</sup>

(Metric tons)

District	2015						
	January	February	March	April	May	June	July
<b>New England and Middle Atlantic:</b>							
Maine and New York	85,442	10,550	87,298	157,681	149,253	172,773	129,788
Pennsylvania	200,212	44,875	276,938	343,979	374,966	327,602	337,050
District subtotal <sup>2</sup>	285,654	55,424	364,237	501,661	524,219	500,375	466,838
<b>East North Central:</b>							
Illinois	72,837	86,818	97,318	59,305	128,105	109,885	145,757
Indiana	183,705	166,840	133,644	154,606	249,972	243,131	233,216
Michigan	216,047	238,378	219,326	242,226	290,451	289,056	303,526
Ohio	73,462	20,702	62,387	77,718	87,728	85,871	84,706
District subtotal <sup>2</sup>	546,051	512,738	512,676	533,855	756,256	727,942	767,205
<b>West North Central:</b>							
Iowa, Nebraska, South Dakota	278,120	157,100	185,740	234,361	255,921	256,232	199,514
Kansas	141,369	--	160,545	208,342	183,000	169,441	186,572
Missouri	643,331	531,445	545,550	604,262	585,853	817,291	767,208
District subtotal <sup>2</sup>	1,062,821	688,545	891,835	1,046,966	1,024,773	1,242,964	1,153,294
<b>South Atlantic:</b>							
Florida	278,235	424,407	476,558	346,807	496,025	466,884	457,228
Georgia, Maryland, Virginia, West Virginia	347,989	239,041	256,580	500,303	527,201	494,217	482,532
Puerto Rico	10,829	58,483	20,872	92,265	38,601	28,582	74,077
South Carolina	255,076	269,829	54,287	299,405	255,333	299,406	270,777
District subtotal <sup>2</sup>	892,128	991,761	808,296	1,238,780	1,317,159	1,289,088	1,284,615
<b>East South Central:</b>							
Alabama, Kentucky, Tennessee	495,217	204,733	560,902	556,609	536,586	624,974	556,127
<b>West South Central:</b>							
Arkansas and Oklahoma	124,584	192,952	128,546	180,988	163,801	209,159	229,796
Texas, northern	360,821	268,275	291,756	298,379	376,094	393,185	317,519
Texas, southern	447,818	511,417	479,803	400,478	435,300	445,107	494,311
District subtotal <sup>2</sup>	933,223	972,644	900,105	879,845	975,196	1,047,450	1,041,626
<b>Mountain and Pacific:</b>							
Arizona and New Mexico	204,207	93,758	106,131	171,785	240,728	210,304	157,991
California	579,702	594,954	776,013	815,115	795,933	769,571	857,542
Colorado and Wyoming	228,180	206,866	226,331	143,356	221,791	292,671	287,071
Montana, Nevada, Oregon, Utah							
Washington	251,796	243,734	346,852	226,690	322,109	337,847	342,757
District subtotal <sup>2</sup>	1,263,886	1,139,313	1,455,327	1,356,946	1,580,561	1,610,393	1,645,361
<b>Grand total<sup>2</sup></b>	<b>5,478,980</b>	<b>4,565,158</b>	<b>5,493,378</b>	<b>6,114,662</b>	<b>6,714,750</b>	<b>7,043,187</b>	<b>6,915,067</b>

See footnotes at end of table.

TABLE 4—Continued  
CLINKER PRODUCTION, BY DISTRICT, JANUARY 2015–DECEMBER 2016<sup>1</sup>

(Metric tons)

District	2015					
	August	September	October	November	December	January–December
<b>New England and Middle Atlantic:</b>						
Maine and New York	155,610	129,041	136,458	142,954	156,544	1,513,393
Pennsylvania	354,678	298,927	364,240	335,559	315,954	3,574,981
District subtotal <sup>2</sup>	510,289	427,968	500,698	478,513	472,498	5,088,374
<b>East North Central:</b>						
Illinois	142,364	136,401	153,303	178,864	140,033	1,450,990
Indiana	207,666	210,993	238,587	242,374	238,738	2,503,473
Michigan	304,329	315,621	292,577	295,854	284,495	3,291,886
Ohio	83,762	86,239	90,978	72,063	78,951	904,567
District subtotal <sup>2</sup>	738,121	749,253	775,445	789,155	742,218	8,150,916
<b>West North Central:</b>						
Iowa, Nebraska, South Dakota	278,001	252,430	285,311	255,381	280,823	2,918,934
Kansas	218,385	173,698	156,237	184,385	167,260	1,949,235
Missouri	619,549	728,093	588,475	715,629	833,701	7,980,389
District subtotal <sup>2</sup>	1,115,936	1,154,221	1,030,023	1,155,395	1,281,783	12,848,557
<b>South Atlantic:</b>						
Florida	441,648	421,430	485,251	442,147	506,089	5,242,707
Georgia, Maryland, Virginia, West Virginia	493,848	495,840	520,360	471,381	553,118	5,382,410
Puerto Rico	64,257	--	27,294	32,632	87,366	535,258
South Carolina	141,546	301,994	210,134	273,971	207,470	2,839,227
District subtotal <sup>2</sup>	1,141,299	1,219,264	1,243,038	1,220,131	1,354,043	13,999,603
<b>East South Central:</b>						
Alabama, Kentucky, Tennessee	667,514	552,425	658,870	532,737	580,057	6,526,751
<b>West South Central:</b>						
Arkansas and Oklahoma	226,775	173,594	220,427	211,722	186,059	2,248,404
Texas, northern	480,217	348,886	309,868	392,608	438,423	4,276,033
Texas, southern	553,180	459,292	485,670	471,100	447,779	5,631,255
District subtotal <sup>2</sup>	1,260,172	981,773	1,015,965	1,075,431	1,072,262	12,155,692
<b>Mountain and Pacific:</b>						
Arizona and New Mexico	211,522	194,135	225,552	167,635	206,974	2,190,723
California	731,045	807,596	815,500	796,212	660,565	8,999,749
Colorado and Wyoming	283,496	295,115	267,132	247,584	274,066	2,973,660
Montana, Nevada, Oregon, Utah						
Washington	346,570	325,334	353,554	301,683	270,406	3,669,332
District subtotal <sup>2</sup>	1,572,633	1,622,179	1,661,739	1,513,114	1,412,012	17,833,464
Grand total <sup>2</sup>	7,005,964	6,707,083	6,885,779	6,764,476	6,914,873	76,603,356

See footnotes at end of table.



TABLE 4—Continued  
CLINKER PRODUCTION, BY DISTRICT, JANUARY 2015–DECEMBER 2016<sup>1</sup>

(Metric tons)

District	2016						
	January	February	March	April	May	June	July
<b>New England and Middle Atlantic:</b>							
Maine and New York	88,653	70,125	102,941	106,124	71,967	69,811	83,144
Pennsylvania	195,741	149,031	260,146	310,973	407,732	330,909	282,751
District subtotal <sup>2</sup>	284,393	219,157	363,087	417,097	479,699	400,720	365,894
<b>East North Central:</b>							
Illinois	105,425	105,095	141,862	110,065	139,134	148,728	171,957
Indiana	112,714	192,225	171,145	221,192	231,288	231,367	307,325 <sup>3</sup>
Michigan	253,533	267,884	286,860	190,625	300,150	292,636	274,150
Ohio	51,972	36,526	78,883	79,547	93,107	77,044	(3)
District subtotal <sup>2</sup>	523,644	601,729	678,750	601,429	763,679	749,775	753,432
<b>West North Central:</b>							
Iowa, Nebraska, South Dakota	234,289	190,285	259,198	187,181	298,497	274,540	260,198
Kansas	137,143	129,707	123,149	190,815	214,970	159,782	157,407
Missouri	365,121	624,957	543,227	562,514	480,068	806,111	800,234
District subtotal <sup>2</sup>	736,553	944,949	925,574	940,510	993,534	1,240,434	1,217,840
<b>South Atlantic:</b>							
Florida	281,918	435,293	523,931	564,243	490,480	429,639	460,266
Georgia, Maryland, Virginia, West Virginia	327,343	173,478	416,406	479,822	473,898	547,006	482,323
Puerto Rico	--	45,591	53,438	70,979	31,928	63,940	55,833
South Carolina	216,190	101,663	258,887	277,999	288,732	198,843	267,639
District subtotal <sup>2</sup>	825,451	756,025	1,252,662	1,393,042	1,285,038	1,239,429	1,266,060
<b>East South Central:</b>							
Alabama, Kentucky, Tennessee	552,073	356,115	378,714	561,919	631,447	632,428	573,960
<b>West South Central:</b>							
Arkansas and Oklahoma	219,068	220,026	202,808	106,669	231,534	232,853	213,494
Texas, northern	391,305	383,737	351,780	318,860	462,359	275,677	439,523
Texas, southern	451,618	466,446	533,115	368,590	440,786	472,866	484,070
District subtotal <sup>2</sup>	1,061,991	1,070,209	1,087,703	794,119	1,134,679	981,395	1,137,087
<b>Mountain and Pacific:</b>							
Arizona and New Mexico	117,931	112,710	161,610	164,518	165,841	228,841	171,784
California	717,836	667,257	675,550	648,092	889,073	847,461	792,586
Colorado and Wyoming	182,782	184,940	145,562	228,813	255,778	280,236	298,477
Montana, Nevada, Oregon, Utah							
Washington	221,540	168,137	357,497	272,945	368,309	341,174	308,551
District subtotal <sup>2</sup>	1,240,090	1,133,044	1,340,220	1,314,368	1,679,001	1,697,712	1,571,398
Grand total <sup>2</sup>	5,224,194	5,081,229	6,026,710	6,022,484	6,967,078	6,941,893	6,885,670

See footnotes at end of table.

TABLE 4—Continued  
CLINKER PRODUCTION, BY DISTRICT, JANUARY 2015–DECEMBER 2016<sup>1</sup>

(Metric tons)

District	2016					
	August	September	October	November	December	January–December
<b>New England and Middle Atlantic:</b>						
Maine and New York	97,172	71,848	93,372	80,279	73,770	1,009,205
Pennsylvania	351,592	350,374	356,096	253,852	194,688	3,443,886
District subtotal <sup>2</sup>	448,764	422,222	449,468	334,131	268,458	4,453,091
<b>East North Central:</b>						
Illinois	150,732	137,803	125,778	148,177	90,882	1,575,637
Indiana	312,162 <sup>3</sup>	297,616 <sup>3</sup>	298,968 <sup>3</sup>	294,849 <sup>3</sup>	286,103 <sup>3</sup>	3,374,032 <sup>3</sup>
Michigan	267,874	274,884	241,318	273,241	265,722	3,188,877
Ohio	(3)	(3)	(3)	(3)	(3)	(3)
District subtotal <sup>2</sup>	730,767	710,303	666,063	716,267	642,707	8,138,546
<b>West North Central:</b>						
Iowa, Nebraska, South Dakota	271,210	273,025	257,653	264,773	237,723	3,008,573
Kansas	178,500	197,491	211,566	158,989	189,689	2,049,208
Missouri	835,601	665,035	819,689	803,627 <sup>r</sup>	401,649	7,707,832
District subtotal <sup>2</sup>	1,285,312	1,135,551	1,288,908	1,227,389 <sup>r</sup>	829,061	12,765,613
<b>South Atlantic:</b>						
Florida	523,287	386,140	508,626	464,610	464,469	5,532,901
Georgia, Maryland, Virginia, West Virginia	481,819	468,564	531,008	460,228	451,977	5,293,872
Puerto Rico	7,700	3,969	7,762	--	--	341,141
South Carolina	240,976	229,881	209,446	241,750	237,996	2,770,001
District subtotal <sup>2</sup>	1,253,781	1,088,553	1,256,842	1,166,588	1,154,442	13,937,915
<b>East South Central:</b>						
Alabama, Kentucky, Tennessee	639,633	523,007	564,951	551,276	562,857	6,528,380
<b>West South Central:</b>						
Arkansas and Oklahoma	213,084	208,103	222,593	199,983 <sup>r</sup>	143,654	2,413,868
Texas, northern	471,872	425,810	396,538	429,916	414,312	4,761,689
Texas, southern	422,923	473,832	523,077	477,742	411,160	5,526,225
District subtotal <sup>2</sup>	1,107,880	1,107,745	1,142,209	1,107,640 <sup>r</sup>	969,126	12,701,782
<b>Mountain and Pacific:</b>						
Arizona and New Mexico	151,280	224,262	214,967	96,414	126,485	1,936,644
California	809,086	707,627	722,391	830,253	623,712	8,930,923
Colorado and Wyoming	268,268	270,578	234,147	287,745	88,401	2,725,728
Montana, Nevada, Oregon, Utah						
Washington	326,494	301,133	347,952	281,954	253,945	3,549,631
District subtotal <sup>2</sup>	1,555,129	1,503,599	1,519,457	1,496,366	1,092,543	17,142,926
Grand total <sup>2</sup>	7,021,265	6,490,979	6,887,896	6,599,657 <sup>r</sup>	5,519,194	75,668,254

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are unrounded but are believed to be accurate to no more than three significant digits.

<sup>2</sup>Data may not add to totals shown because of independent rounding.

<sup>3</sup>Beginning with July 2016, data for Indiana and Ohio have been combined to avoid disclosing proprietary data.

TABLE 5  
HYDRAULIC CEMENT AND CLINKER IMPORTED FOR CONSUMPTION IN THE UNITED STATES BY CUSTOMS DISTRICT AND COUNTRY, DECEMBER 2016<sup>1</sup>

(Metric tons, unless otherwise specified)

Customs district	Canada	China	Croatia	Egypt	France	Greece	Japan	Korea, Republic of
Anchorage, AK	651	--	--	--	--	--	--	--
Baltimore, MD	--	986	--	--	--	--	--	--
Boston, MA	--	--	--	--	--	14,430	--	--
Buffalo, NY	43,624	--	--	--	--	--	--	--
Charleston, SC	--	--	--	--	--	--	--	--
Chicago, IL	--	--	--	--	17	--	16	--
Cleveland, OH	36,487	--	--	--	--	--	--	33
Columbia-Snake, ID OR WA	9,370	--	--	--	--	--	--	--
Dallas-Fort Worth, TX	--	--	--	--	--	--	--	--
Detroit, MI <sup>3</sup>	96,939	--	--	--	--	--	--	--
El Paso, TX <sup>4</sup>	--	--	--	--	--	--	--	--
Great Falls, MT	279	--	--	--	--	--	--	--
Honolulu, HI	--	--	--	--	--	--	--	--
Houston-Galveston, TX	--	44,420	--	1,975	--	43,218	--	--
Laredo, TX	--	--	--	--	--	--	--	--
Los Angeles, CA	--	3,780	--	816	--	--	148	--
Miami, FL	--	--	--	1,904	--	--	--	--
Minneapolis, MN	--	--	--	--	--	--	--	--
Mobile, AL	--	--	--	--	--	--	--	--
New Orleans, LA	--	1,754	--	--	--	--	--	--
New York City, NY	--	--	--	--	--	79,000	57	--
Norfolk, VA	--	500	--	--	11,971	--	--	--
Ogdensburg, NY	24,409	--	--	--	--	--	--	--
Pembina, ND	6,752	--	--	--	--	--	--	--
Philadelphia, PA	--	74	382	408	--	43,000	--	--
Portland, ME	600	--	--	--	--	--	--	--
Providence, RI	--	--	--	--	--	--	--	--
San Diego, CA	--	--	--	--	--	--	--	--
San Francisco, CA	--	26,264	--	816	--	--	--	--
San Juan, PR	--	20	--	--	--	--	--	--
Savannah, GA	--	--	--	1,088	--	--	--	--
Seattle, WA <sup>3</sup>	43,913	30,907	--	--	--	--	--	--
St. Albans, VT	10,045	--	--	--	--	--	--	--
St. Louis, MO	--	--	--	--	--	--	--	--
Tampa, FL	--	--	--	--	--	32,010	--	--
Virgin Islands	--	--	--	--	--	--	--	--
Total:								
Quantity <sup>3,4</sup>	273,069	108,705	382	7,007	11,988	211,658	221	33
Value <sup>3,4,7</sup>	\$22,156,165	\$7,841,403	\$161,057	\$1,132,678	\$4,355,152	\$11,117,727	\$146,836	\$42,323

See footnotes at end of table.

TABLE 5—Continued  
 HYDRAULIC CEMENT AND CLINKER IMPORTED FOR CONSUMPTION IN THE UNITED STATES BY CUSTOMS DISTRICT AND COUNTRY, DECEMBER 2016<sup>1</sup>

(Metric tons, unless otherwise specified)

Customs district	Mexico	Netherlands	Poland	Portugal	Spain	Taiwan	Thailand	Turkey <sup>2</sup>	United Kingdom
Anchorage, AK	--	--	--	--	--	--	--	--	--
Baltimore, MD	--	--	--	--	--	--	--	--	--
Boston, MA	--	--	--	--	--	--	--	--	--
Buffalo, NY	--	--	--	--	--	--	--	--	--
Charleston, SC	--	--	--	--	--	--	--	--	--
Chicago, IL	--	--	--	--	--	--	--	--	--
Cleveland, OH	--	94	21	--	--	--	--	--	--
Columbia-Snake, ID OR WA	--	--	--	--	--	--	--	--	--
Dallas-Fort Worth, TX	--	--	--	--	--	--	--	--	--
Detroit, MI <sup>3</sup>	--	19	--	--	--	--	--	--	--
El Paso, TX <sup>4</sup>	7,919	--	--	--	--	--	--	--	--
Great Falls, MT	--	--	--	--	--	--	--	--	--
Honolulu, HI	--	--	--	--	--	39,000	--	--	--
Houston-Galveston, TX	--	--	19	--	34,040	--	--	50,127	--
Laredo, TX	12,272	--	--	--	--	--	--	--	--
Los Angeles, CA	--	--	--	--	1	--	397	1,355	--
Miami, FL	3,096	--	--	--	18,695	--	209	1,343	--
Minneapolis, MN	--	--	--	--	--	--	--	--	--
Mobile, AL	--	--	--	--	--	--	--	--	--
New Orleans, LA	--	--	--	--	--	--	--	--	--
New York City, NY	--	--	--	--	77	--	--	70,284	--
Norfolk, VA	--	--	--	--	--	--	--	--	19
Ogdensburg, NY	--	--	--	--	--	--	--	--	--
Pembina, ND	--	--	--	--	--	--	--	--	--
Philadelphia, PA	--	58	--	--	--	--	--	--	--
Portland, ME	--	--	--	--	--	--	--	--	--
Providence, RI	--	--	--	--	--	--	--	--	--
San Diego, CA	5,994	--	--	--	--	--	--	--	--
San Francisco, CA	--	--	--	--	--	--	--	--	--
San Juan, PR	1,083	--	--	30	33,001	--	--	--	--
Savannah, GA	--	--	--	--	192	--	--	--	--
Seattle, WA <sup>3</sup>	--	--	--	--	--	--	--	27	--
St. Albans, VT	--	--	--	--	--	--	--	--	--
St. Louis, MO	--	18	--	--	--	--	--	--	--
Tampa, FL	--	--	--	--	--	--	--	--	--
Virgin Islands	--	--	--	--	--	--	--	--	--
Total:									
Quantity <sup>3,4</sup>	30,364	189	40	30	86,006	39,000	606	123,136	19
Value <sup>3,4,7</sup>	\$3,865,902	\$205,276	\$64,803	\$7,686	\$5,839,055	\$2,882,100	\$118,727	\$6,651,388	\$10,279

See footnotes at end of table.

TABLE 5—Continued  
HYDRAULIC CEMENT AND CLINKER IMPORTED FOR CONSUMPTION IN THE UNITED STATES  
BY CUSTOMS DISTRICT AND COUNTRY, DECEMBER 2016<sup>1</sup>

(Metric tons, unless otherwise specified)

Customs district	December		Country	January–December	
	total	January–December		Quantity	Value <sup>7</sup>
Anchorage, AK	651	115,468	Bulgaria	155,464	\$9,409,908
Baltimore, MD	986	50,123	Canada <sup>3</sup>	4,553,719	375,190,200
Boston, MA	14,430	129,283	China	1,739,802	118,418,514
Buffalo, NY	43,624	619,185	Croatia	20,099	9,671,111
Charleston, SC	--	11,201	Denmark	159,144	26,629,691
Chicago, IL	33	2,062	Dominican Republic	14	11,494
Cleveland, OH	36,635	687,024	Egypt	87,233	12,663,586
Columbia-Snake, ID OR WA	9,370	582,004	France	106,968	38,398,574
Dallas-Fort Worth, TX	--	3	Germany	3,016	363,871
Detroit, MI <sup>5</sup>	96,958	1,288,188	Greece	2,467,310	147,310,670
El Paso, TX <sup>4</sup>	7,919	122,160	India	260	64,994
Great Falls, MT	279	22,409	Indonesia	1	5,258
Honolulu, HI	39,000	344,920	Italy <sup>5</sup>	77,480	2,245,474
Houston-Galveston, TX	173,799	1,824,924	Japan	1,001	749,948
Laredo, TX	12,272	162,496	Korea, Republic of	758,757	44,854,480
Los Angeles, CA	6,497	72,967	Malta <sup>2</sup>	12,128	1,753,768
Miami, FL	25,247	516,222	Mexico <sup>4</sup>	479,649	53,078,971
Minneapolis, MN	--	78,840	Netherlands	2,726	3,073,762
Mobile, AL	--	203,398	Norway	7,679	685,444
New Orleans, LA	1,754	48,043	Philippines	2	4,168
New York City, NY	149,418	1,742,606	Poland	208	207,803
Norfolk, VA	12,490	308,576	Portugal	40,992	4,581,449
Ogdensburg, NY	24,409	401,353	South Africa	16	23,261
Pembina, ND	6,752	238,066	Spain <sup>6</sup>	617,932	45,592,806
Philadelphia, PA	43,922	507,502 <sup>5,6</sup>	Sweden	322,499	23,135,808
Portland, ME	600	14,842	Taiwan	344,920	25,489,588
Providence, RI	--	430,229	Thailand	17,526	2,681,707
San Diego, CA	5,994	98,989	Trinidad and Tobago	2,700	318,400
San Francisco, CA	27,080	723,312	Turkey <sup>2</sup>	1,597,444	94,584,326
San Juan, PR	34,134	191,494	United Kingdom	2,145	1,528,670
Savannah, GA	1,280	154,635	Total <sup>3,4,5,6</sup>	13,578,834	1,042,727,704
Seattle, WA <sup>3</sup>	74,847	1,294,704			
St. Albans, VT	10,045	204,919			
St. Louis, MO	18	352			
Tampa, FL	32,010	383,635			
Virgin Islands	--	2,700			
Total:					
Quantity <sup>3,4</sup>	892,453	13,578,834 <sup>5,6</sup>			
Value <sup>3,4,7</sup>	\$66,598,557	\$1,042,727,704 <sup>5,6</sup>			

-- Zero.

<sup>1</sup>Includes white cement and clinker.

<sup>2</sup>Although imports are reported from Malta, Malta has no cement plants; the import source is thought to be Turkey.

<sup>3</sup>Data for the Detroit and Seattle districts for imports from Canada are thought to be underrepresented with respect to clinker.

<sup>4</sup>Data for the El Paso district for imports from Mexico are believed to be underrepresented with respect to cement.

<sup>5</sup>Data include imports in May of 61,493 metric tons, valued at \$930,096 (c.i.f.), of "clinker" from Italy that are thought to be granulated blast furnace slag misregistered by the importer under HTS code 2523.10 instead of under code 2618.00.

<sup>6</sup>Data include imports in April of 58,707 metric tons, valued at \$971,053 (c.i.f.), of "clinker" from Spain that are thought to be granulated blast furnace slag misregistered by the importer under HTS code 2523.10 instead of under code 2618.00.

<sup>7</sup>Value = c.i.f. (cost, insurance, and freight).

Source: U.S. Census Bureau.

TABLE 6  
WHITE CEMENT IMPORTED FOR CONSUMPTION IN THE UNITED STATES BY CUSTOMS DISTRICT  
AND COUNTRY, DECEMBER 2016<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Customs district	Canada	China	Egypt	Mexico	Portugal	Spain	Thailand	Turkey
Baltimore, MD	--	--	--	--	--	--	--	--
Boston, MA	--	--	--	--	--	--	--	--
Buffalo, NY	2,552	--	--	--	--	--	--	--
Charleston, SC	--	--	--	--	--	--	--	--
Cleveland, OH	--	--	--	--	--	--	--	--
Dallas-Fort Worth, TX	--	--	--	--	--	--	--	--
Detroit, MI	16,102	--	--	--	--	--	--	--
El Paso, TX	--	--	--	1,113	--	--	--	--
Houston-Galveston, TX	--	--	1,975	--	--	--	--	1,627
Laredo, TX	--	--	--	12,272	--	--	--	--
Los Angeles, CA	--	3,780	816	--	--	--	397	1,355
Miami, FL	--	--	1,904	--	--	12,585	209	1,343
New York City, NY	--	--	--	--	--	--	--	134
Ogdensburg, NY	23	--	--	--	--	--	--	--
Norfolk, VA	--	--	--	--	--	--	--	--
Philadelphia, PA	--	74	408	--	--	--	--	--
San Diego, CA	--	--	--	5,994	--	--	--	--
San Francisco, CA	--	264	816	--	--	--	--	--
San Juan, PR	--	--	--	1,083	30	--	--	--
Savannah, GA	--	--	1,088	--	--	--	--	--
Seattle, WA	--	--	--	--	--	--	--	27
St. Albans, VT	--	--	--	--	--	--	--	--
Tampa, FL	--	--	--	--	--	--	--	--
Total:								
Quantity	18,677	4,118	7,007	20,462	30	12,585	606	4,486
Value <sup>3</sup>	\$2,436,620	\$627,580	\$1,132,678	\$2,278,146	\$7,686	\$1,702,274	\$118,727	\$791,398

See footnotes at end of table.

TABLE 6—Continued  
 WHITE CEMENT IMPORTED FOR CONSUMPTION IN THE UNITED STATES  
 BY CUSTOMS DISTRICT AND COUNTRY, DECEMBER 2016<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Customs district	December		January–December	
	total	January–December	Quantity	Value <sup>3</sup>
Baltimore, MD	--	82	Canada	342,633 \$45,099,030
Boston, MA	--	10	China	45,702 6,666,968
Buffalo, NY	2,552	95,425	Denmark	159,144 26,629,691
Charleston, SC	--	11,100	Egypt	86,553 12,565,036
Cleveland, OH	--	1	Germany	755 6,764
Dallas-Fort Worth, TX	--	3	Indonesia	1 5,258
Detroit, MI	16,102	247,168	Italy	74 32,896
El Paso, TX	1,113	24,291	Japan	68 11,627
Houston–Galveston, TX	3,602	106,398	Korea, Republic of	1 5,633
Laredo, TX	12,272	162,465	Malta	6,503 1,006,268
Los Angeles, CA	6,348	71,942	Mexico	329,056 34,235,714
Miami, FL	16,041	181,648	Norway	7,679 685,444
New York City, NY	134	44,348	Portugal	7,288 1,248,847
Norfolk, VA	--	864	Spain	114,978 15,480,182
Ogdensburg, NY	23	23	Thailand	17,526 2,681,707
Philadelphia, PA	482	13,156	Turkey	156,800 20,596,496
San Diego, CA	5,994	98,987	Total	1,274,761 166,957,561
San Francisco, CA	1,080	28,456		
San Juan, PR	1,113	20,995		
Savannah, GA	1,088	8,058		
Seattle, WA	27	347		
St. Albans, VT	--	22		
Tampa, FL	--	158,972		
Total:				
Quantity	67,971	1,274,761		
Value <sup>3</sup>	\$9,095,109	\$166,957,561		

-- Zero.

<sup>1</sup>Data included in table 5.

<sup>2</sup>Imports calculating to less than about \$100 per metric ton likely are, or include, gray portland cement that was misregistered by the importer under the white cement tariff code.

<sup>3</sup>Value = c.i.f. (cost, insurance, and freight).

Source: U.S. Census Bureau.

TABLE 7  
CLINKER IMPORTED FOR CONSUMPTION IN THE UNITED STATES BY CUSTOMS DISTRICT AND COUNTRY, DECEMBER 2016<sup>1</sup>

(Metric tons, unless otherwise specified)

Customs district	Canada	China	Spain	Turkey	December	January–December	Country	January–December	
					total			Quantity	Value <sup>2</sup>
Baltimore, MD	--	810	--	--	810	48,772	Canada <sup>3</sup>	672,153	\$31,151,350
Buffalo, NY	--	--	--	--	--	75	China	3,874	583,311
Cleveland, OH	--	--	--	--	--	2	Croatia	17	10,329
Detroit, MI <sup>3</sup>	64,157	--	--	--	64,157	665,803	France	2	7,114
Houston-Galveston, TX	--	--	--	--	--	260	Greece	111,600	4,837,552
Los Angeles, CA	--	--	--	--	--	1	India	260	64,994
Mobile, AL	--	--	--	--	--	85	Italy <sup>4</sup>	61,494	932,271
New Orleans, LA	--	454	--	--	454	1,160	Spain <sup>5</sup>	160,778	6,080,360
New York City, NY	--	--	--	70,150	70,150	648,909	Turkey	675,309	26,265,025
Ogdensburg, NY	--	--	--	--	--	57	Total <sup>4,5</sup>	1,685,487	69,932,306
Pembina, ND	--	--	--	--	--	519			
Philadelphia, PA	--	--	--	--	--	167,900 <sup>4,5</sup>			
San Juan, PR	--	--	33,001	--	33,001	69,721			
Savannah, GA	--	--	--	--	--	76,368			
Seattle, WA	430	--	--	--	430	5,838			
St. Louis, MO	--	--	--	--	--	17			
Total:									
Quantity	64,587	1,264	33,001	70,150	169,002	1,685,487			
Value <sup>2</sup>	\$2,959,142	\$127,129	\$1,824,952	\$2,683,240	\$7,594,463	\$69,932,306			

-- Zero.

<sup>1</sup>Data are included in table 5.

<sup>2</sup>Value = c.i.f. (cost, insurance, and freight).

<sup>3</sup>Data for the Detroit district for imports from Canada are thought to be underrepresented with respect to clinker.

<sup>4</sup>Data include imports in May of 61,493 metric tons, valued at \$930,096 (c.i.f.), of "clinker" from Italy that are thought to be granulated blast furnace slag misregistered by the importer under HTS code 2523.10 instead of under code 2618.00.

<sup>5</sup>Data include imports in April of 58,707 metric tons, valued at \$971,053 (c.i.f.), of "clinker" from Spain that are thought to be granulated blast furnace slag misregistered by the importer under HTS code 2523.10 instead of under code 2618.00.

Source: U.S. Census Bureau.