

Clay Construction Products: 2006

Issued July 2007

Summary

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Current Industrial Reports

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/mcd/>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR)," clicking on "CIRs by Subsector;" then choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (XLS format) to your personal computer.

These data are also available on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: www.stat-usa.gov/. Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

SUMMARY OF FINDINGS. Shipments of brick, building or common and facing, increased 4.5

percent to \$2,222.4 million in 2006, from \$2,127.6 million in 2005. The South Atlantic region accounted for 38.2 percent of the total value of brick shipments in 2006. More specifically, North Carolina accounted for 16.8 percent of the total value of brick shipments for 2006.

Shipments of clay floor and wall tile decreased 2.2 percent to \$837.6 million in 2006, from \$856.2 million in 2005.

Shipments of vitrified sewer pipe and fittings increased 7.9 percent to \$77.7 million in 2006, from \$72.0 million in 2005.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Merima Dulic, 301-763-3437.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673

U S C E N S U S B U R E A U

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Economics and Statistics Administration
U.S. CENSUS BUREAU

Table 1. Production and Shipments of Clay Construction Products: 2002 to 2006
[Value in thousands of dollars]

Product code	Product description	Production (quantity)	Shipments	
			Quantity	Value
3271210110	Brick (building or common and face):			
	2006.....	9,567,549	8,899,597	2,222,371
	2005.....	9,649,581	9,418,759	2,127,620
	2004.....	9,291,150	9,388,648	2,037,293
	2003.....	8,569,926	8,519,678	1,818,204
	2002.....	8,469,465	7,986,393	1,704,138
3271210221	Structural facing tile and ceramic glazed brick:			
	2006.....	27,025	30,103	16,875
	2005.....	28,922	32,582	20,332
	2004.....	26,404	23,693	13,321
	2003.....	23,100	22,605	13,602
	2002.....	20,513	19,236	10,948
3271210226	Structural clay tile (except facing):			
	2006.....	39,390	37,491	12,253
	2005.....	41,515	47,704	12,844
	2004.....	36,208	40,050	10,665
	2003.....	42,324	40,330	11,001
	2002.....	46,362	49,563	11,202
3271220000	Clay floor and wall tile:			
	2006.....	674,485	629,672	837,601
	2005.....	667,181	658,198	856,180
	2004.....	668,813	695,386	876,738
	2003.....	617,335	614,955	758,004
	2002.....	622,453	649,480	825,460
3271231000	Vitrified clay sewer pipe and fittings:			
	2006.....	136,146	167,121	77,691
	2005.....	148,563	193,229	72,031
	2004.....	147,891	163,595	61,787
	2003.....	134,065	145,559	49,822
	2002.....	159,248	139,086	50,355

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe and fittings; and thousands of square feet for clay floor and wall tile.

Table 2a. Production of Brick, Building or Common, and Facing by Regions and State: 2006
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	9,567,549	2,234,797	2,460,313	2,486,030	2,386,409
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	72,455 r/	17,263 r/	16,981 r/	19,103 r/	19,108
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	460,595 a/	104,676 a/	123,641 a/	126,084 a/	106,194
East North Central.....	719,318	151,042	189,060	200,420	178,796
Ohio.....	412,863 a/	92,169 a/	106,846 a/	113,209 a/	100,639
Other (Illinois, Indiana, Michigan, and Wisconsin).....	306,455	58,873	82,214	87,211	78,157
West North Central.....	477,714	112,976	119,400	128,518	116,820
Kansas and Missouri.....	145,952	35,628	36,638	37,158	36,528
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	331,762	77,348	82,762	91,360	80,292
South Atlantic.....	4,021,852	928,094	1,039,536	1,050,284	1,003,938
Virginia.....	474,149	105,197	125,673	118,236	125,043
North Carolina.....	1,872,086	442,705	478,080 a/	491,045	460,256
South Carolina.....	651,248	153,286	170,847	164,107	163,008
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	1,024,369 r/	226,906 r/	264,936 r/	276,896 r/	255,631
East South Central.....	1,668,952	390,089	426,544	428,329	423,990
Alabama.....	713,830	162,059	183,157	183,008	185,606
Other (Kentucky, Mississippi, and Tennessee).....	955,122	228,030	243,387	245,321	238,384
West South Central.....	1,615,661	399,758	407,366	399,841	408,696
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	1,013,532	252,314	253,517	251,192	256,509
Mountain.....	357,685	89,232	89,977	88,754	89,722
Colorado.....	201,620 a/	49,472 a/	50,445 a/	50,913 a/	50,790
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	156,065 r/	39,760	39,532	37,841	38,932
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	173,317 a/	41,667 a/	47,808 b/	44,697 b/	39,145

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.

Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 2b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2006
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total		Fourth quarter		Third quarter		Second quarter		First quarter
United States.....	8,899,597		1,969,796		2,286,889		2,359,788		2,283,124
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	64,116	r/	15,360		16,220		18,350	r/	14,186
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	439,867		103,074		115,123		121,715		99,955
East North Central.....	650,572		138,155		177,301		181,674		153,442
Ohio.....	394,925	a/	87,789	a/	108,124	a/	109,851	a/	89,161
Other (Illinois, Indiana, Michigan, and Wisconsin).....	255,647		50,366		69,177		71,823		64,281
West North Central.....	436,843		101,640		116,140		116,338		102,725
Kansas and Missouri.....	119,818		25,928		32,922		30,590		30,378
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	317,025	r/	75,712		83,218		85,748		72,347
South Atlantic.....	3,756,386		801,535		941,936		1,041,063		971,852
Virginia.....	425,224		87,089		106,300		120,897		110,938
North Carolina.....	1,745,220		374,863		435,545	a/	480,724		454,088
South Carolina.....	618,346		136,132		153,858		168,909		159,447
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	967,596	r/	203,451	r/	246,233	r/	270,533	r/	247,379
East South Central.....	1,562,007		346,372		391,984		418,011		405,640
Alabama.....	683,479		150,610		174,755		182,931		175,183
Other (Kentucky, Mississippi, and Tennessee).....	878,528		195,762		217,229		235,080		230,457
West South Central.....	1,501,204		351,898		399,695		334,858		414,753
Arkansas.....	(D)		(D)		(D)		(D)		(D)
Louisiana.....	(D)		(D)		(D)		(D)		(D)
Oklahoma.....	(D)		(D)		(D)		(D)		(D)
Texas.....	956,890		225,532		256,588		208,439		266,331
Mountain.....	314,149		72,060		81,762		81,740		78,587
Colorado.....	164,514	a/	34,993	a/	43,727	a/	43,575	a/	42,219
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	149,635	r/	37,067		38,035		38,165		36,368
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	174,453	a/	39,702	a/	46,728	a/	46,039	a/	41,984

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Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 2c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2006
[Value in thousands of dollars]

Region and state	Total		Fourth quarter		Third quarter		Second quarter		First quarter
United States.....	2,222,371		506,277		584,969		581,736		549,389
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	21,177	r/	5,155		5,371		5,961	r/	4,690
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	133,798		32,212		35,091		36,757		29,738
East North Central.....	190,919		42,114		51,207		52,155		45,443
Ohio.....	125,954	a/	29,438	a/	34,389	a/	34,969	a/	27,158
Other (Illinois, Indiana, Michigan, and Wisconsin).....	64,965		12,676		16,818		17,186		18,285
West North Central.....	112,393		25,924		30,709		29,839		25,921
Kansas and Missouri.....	28,697		6,442		8,130		7,028		7,097
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	83,696		19,482	r/	22,579		22,811		18,824
South Atlantic.....	848,199		185,484		218,067		233,699		210,949
Virginia.....	96,280		20,000		26,383		28,441		21,456
North Carolina.....	372,778	r/	83,084	r/	96,303	r/	101,574	r/	91,817
South Carolina.....	158,705		35,321		39,633		43,334		40,417
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	220,436	r/	47,079	r/	55,748	r/	60,350	r/	57,259
East South Central.....	326,138		72,182		83,452		85,823		84,681
Alabama.....	146,452		32,507		37,619		38,260		38,066
Other (Kentucky, Mississippi, and Tennessee).....	179,686		39,675		45,833		47,563		46,615
West South Central.....	397,335		99,092		110,366		86,287		101,590
Arkansas.....	(D)		(D)		(D)		(D)		(D)
Louisiana.....	(D)		(D)		(D)		(D)		(D)
Oklahoma.....	(D)		(D)		(D)		(D)		(D)
Texas.....	255,568		65,517		71,785		53,586		64,680
Mountain.....	104,665		24,324		27,147		27,575		25,619
Colorado.....	56,714	a/	12,431	a/	14,942	a/	15,398	a/	13,943
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	47,951	r/	11,893	r/	12,205		12,177	r/	11,676
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	87,747	a/	19,790	r/	23,559	a/	23,640	a/r/	20,758

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Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3a. Production of Brick, Building or Common, and Facing by Regions and State: 2005
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	9,649,581	2,395,760	2,456,074	2,469,646	2,328,101
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	74,261	18,756	18,912	18,590	18,003
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	552,464 a/	127,452	142,685	144,197	138,130
East North Central.....	793,970	195,734	203,854	201,009	193,373
Ohio.....	440,208 a/	109,942 a/	114,954 a/	111,266 a/	104,046
Other (Illinois, Indiana, Michigan, and Wisconsin).....	353,762	85,792	88,900	89,743	89,327
West North Central.....	504,376	130,746	131,962	132,505	109,163
Kansas and Missouri.....	126,567	35,490	32,161	30,262	28,654
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	377,809	95,256	99,801	102,243	80,509
South Atlantic.....	3,871,608	961,475	985,269	989,428	935,436
Virginia.....	528,128	120,280	138,600	141,575	127,673
North Carolina.....	1,790,042	455,002	447,077	460,498	427,465
South Carolina.....	621,005	166,958	165,270	142,763	146,014
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	932,433	219,235	234,322	244,592	234,284
East South Central.....	1,646,986	410,501	421,009	419,064	396,412
Alabama.....	714,426	173,460	186,435	182,804	171,727
Other (Kentucky, Mississippi, and Tennessee).....	932,560	237,041	234,574	236,260	224,685
West South Central.....	1,659,967	412,376	413,666	423,470	410,455
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	1,049,474	259,007	261,996	267,550	260,921
Mountain.....	362,227	90,868	90,626	91,174	89,559
Colorado.....	207,159	52,792	51,377	51,438	51,552
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	155,068	38,076	39,249	39,736	38,007
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	183,722	47,852	48,091 a/	50,209 b/	37,570

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Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2005
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	9,418,759	2,269,500	2,484,992	2,553,918	2,110,349
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	69,742	15,204	19,731	20,800	14,007
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	515,993	121,223	141,614	152,668	100,488
East North Central.....	776,396	183,510	216,209	218,902	157,775
Ohio.....	446,633 a/	108,129 a/	127,189 a/	123,230 a/	88,085
Other (Illinois, Indiana, Michigan, and Wisconsin).....	329,763	75,381	89,020	95,672	69,690
West North Central.....	463,813	113,417	124,074	133,225	93,097
Kansas and Missouri.....	118,926	29,288	31,897	30,811	26,930
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	344,887	84,129	92,177	102,414	66,167
South Atlantic.....	3,743,543	896,467	972,527	1,014,717	859,832
Virginia.....	521,156	117,383	143,530	146,593	113,650
North Carolina.....	1,737,332	422,361	452,579	467,279	395,113
South Carolina.....	572,236	141,696	145,202	145,676	139,662
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	912,819	215,027	231,216	255,169	211,407
East South Central.....	1,625,767	400,606	419,654	420,687	384,820
Alabama.....	708,901	177,339	182,555	178,107	170,900
Other (Kentucky, Mississippi, and Tennessee).....	916,866	223,267	237,099	242,580	213,920
West South Central.....	1,698,716	415,320	450,593	448,531	384,272
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	1,087,510	265,798	295,198	283,175	243,339
Mountain.....	334,916	80,833	89,874	88,934	75,275
Colorado.....	186,657	46,745	51,762	50,159	37,991
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	148,259	34,088	38,112	38,775	37,284
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	189,873	42,920	50,716 a/	55,454 a/	40,783

D Withheld to avoid disclosing data for individual companies.

Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2005
[Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	2,127,620	522,505	564,974	577,324	462,817
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	21,088	4,694	5,855	6,211	4,328
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	133,832	32,670	36,362	39,063	25,737
East North Central.....	199,709	49,121	56,207	56,085	38,296
Ohio.....	127,243	32,444	36,594	35,012 a/	23,193
Other (Illinois, Indiana, Michigan, and Wisconsin).....	72,466	16,677	19,613	21,073	15,103
West North Central.....	111,122	27,712	29,962	31,612	21,836
Kansas and Missouri.....	26,104	6,662	6,955	6,871	5,616
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	85,018	21,050	23,007	24,741	16,220
South Atlantic.....	764,903	186,871	200,852	205,212	171,968
Virginia.....	101,574	23,440	28,011	28,186	21,937
North Carolina.....	325,120	79,918	86,426	86,400	72,376
South Carolina.....	139,724	35,579	35,645	35,413	33,087
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	198,485	47,934	50,770	55,213	44,568
East South Central.....	313,253	79,181	81,530	81,145	71,397
Alabama.....	144,661	37,354	37,809	36,590	32,908
Other (Kentucky, Mississippi, and Tennessee).....	168,592	41,827	43,721	44,555	38,489
West South Central.....	394,590	96,684	103,125	105,271	89,510
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	252,902	61,077	66,874	67,031	57,920
Mountain.....	99,634	24,559	26,683	26,399	21,993
Colorado.....	56,709	14,422	15,716	15,239	11,332
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	42,925	10,137	10,967	11,160	10,661
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	89,489	21,013	24,398 a/	26,326 a/	17,752

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Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 4a. Production of Clay Construction Products: 2006 and 2005

Product code	Product description	Total		Fourth quarter		Third quarter		Second quarter		First quarter
2006										
3271210110	Brick, building or common and facing.....	9,567,549		2,234,797		2,460,313		2,486,030		2,386,409
3271210221	Structural facing tile and ceramic glazed brick.....	27,025	c/	5,409	c/	5,102		(S)	a/	5,441
3271210226	Structural clay tile (except facing).....	39,390	r/	8,100	r/	9,906	r/	11,626	r/	9,758
3271220000	Clay floor and wall tile.....	674,485		156,746		169,136	r/	174,004	r/	174,599
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	188,466		42,137		48,123	r/	45,831	r/	52,375
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	336,511		79,752		83,515		89,027		84,217
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271231000	Vitrified clay sewer pipe and fittings.....	136,146		33,455		33,642	r/	35,879	r/	33,170
2005										
3271210110	Brick, building or common and facing.....	9,649,581		2,395,760		2,456,074		2,469,646		2,328,101
3271210221	Structural facing tile and ceramic glazed brick.....	28,922		6,711		7,681	a/	7,447		7,083
3271210226	Structural clay tile (except facing).....	41,515		9,939		10,550		11,074		9,952
3271220000	Clay floor and wall tile.....	667,181		163,441		164,304		168,294		171,142
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	228,695		53,521		57,439		56,835		60,900
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	307,207		79,178		75,079		78,199		74,751
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271231000	Vitrified clay sewer pipe and fittings.....	148,563	a/	39,140	a/	36,429	a/	37,668	a/	35,326

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. (S) Withheld because estimates did not meet publication standards.

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, and structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe fittings; and thousands of square feet for clay floor and wall tile.

Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 4b. Quantity of Shipments of Clay Construction Products: 2006 and 2005

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2006						
3271210110	Brick, building or common and facing.....	8,899,597	1,969,796	2,286,889	2,359,788	2,283,124
3271210221	Structural facing tile and ceramic glazed brick.....	30,103 c/	7,091 c/	6,143	(S) a/	6,534
3271210226	Structural clay tile (except facing).....	37,491	8,972	9,748	9,348	9,423
3271220000	Clay floor and wall tile.....	629,672	140,843	152,112	r/ 170,605	r/ 166,112
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	163,398	32,710	r/ 40,263	r/ 39,509	r/ 50,916
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	324,463	75,645	77,535	92,401	78,882
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	167,121	33,935	r/ 44,899	r/ 46,218	r/ 42,069
2005						
3271210110	Brick, building or common and facing.....	9,418,759	2,269,500	2,484,992	2,553,918	2,110,349
3271210221	Structural facing tile and ceramic glazed brick.....	32,582	8,036	8,757	7,600	8,189
3271210226	Structural clay tile (except facing).....	47,704	11,989	13,223	11,882	10,610
3271220000	Clay floor and wall tile.....	658,198	156,721	160,450	173,923	167,104
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	218,567	50,658	54,611	a/ 54,808	58,490
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	310,544	75,404	73,841	86,262	75,037
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	193,229 a/	45,720 a/	57,371 a/	50,514 a/	39,624

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. (S) Withheld because estimates did not meet publication standards.

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, and structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe fittings; and thousands of square feet for clay floor and wall tile.

Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 4c. Value of Shipments of Clay Construction Products: 2006 and 2005
[Value in thousands of dollars]

Product code	Product description	Total	Fourth quarter		Third quarter		Second quarter		First quarter	
2006										
3271210110	Brick, building or common and facing.....	2,222,371		506,277		584,969		581,736		549,389
3271210221	Structural facing tile and ceramic glazed brick.....	16,875	c/	3,718	c/	3,418		(S)	b/	3,483
3271210226	Structural clay tile (except facing).....	12,253	r/	2,953	r/	3,195	r/	3,041	r/	3,064
3271220000	Clay floor and wall tile.....	837,601	r/	195,875		210,208		211,784		219,734
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	271,045	a/	63,808	a/	69,496	r/	66,842	a/r/	70,899
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	298,648		70,137		74,360	r/	75,691	r/	78,460
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271231000	Vitrified clay sewer pipe and fittings.....	77,691		16,597	r/	20,895	r/	21,341	r/	18,858
2005										
3271210110	Brick, building or common and facing.....	2,127,620		522,505		564,974		577,324		462,817
3271210221	Structural facing tile and ceramic glazed brick.....	20,332		4,990		5,384		4,802		5,156
3271210226	Structural clay tile (except facing).....	12,844		3,357		3,715		3,035		2,737
3271220000	Clay floor and wall tile.....	856,180		213,467		217,106		215,890		209,717
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	312,385	a/	76,737		77,510	a/	79,460		78,678
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	271,220		68,966		72,296		68,817		61,141
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)		(D)		(D)		(D)		(D)
3271231000	Vitrified clay sewer pipe and fittings.....	72,031	a/	18,049	a/	21,236	a/	18,642	a/	14,104

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. (S) Withheld because estimates did not meet publication standards.

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, and structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe fittings; and thousands of square feet for clay floor and wall tile.

Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 of this item is estimated. c/Over 50 percent of this item is estimated.

Table 5. Shipments, Exports, and Imports of Selected Clay Construction Products: 2006 and 2005
[Value in thousands of dollars]

Product description	Unit of measure	Manufacturers' shipments		Exports of domestic merchandise		Percent exports to manufacturers' shipments	
		Quantity	Value f.o.b. plant	Quantity	Value at port	Quantity	Value 1/
2006							
Brick, building or common and facing 2/.....	1,000 bricks.....	8,899,597	2,222,371	36,421	13,222	0.6	0.6
Structural clay tile and ceramic glazed brick....	.....do.....	(X)	29,128	(X)	17,159	(X)	58.9
Clay floor and wall tile 3/.....	1,000 sq meters....	58,498	837,601	4,190	37,346	7.2	4.5
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	151,610	77,691	944	2,920	0.6	3.8
2005							
Brick, building or common and facing 2/.....	1,000 bricks.....	9,418,759	2,127,620	52,008	13,583	0.6	0.6
Structural clay tile and ceramic glazed brick....	.....do.....	(X)	33,176	(X)	12,208	(X)	36.8
Clay floor and wall tile 3/.....	1,000 sq meters....	61,149	856,180	3,439	31,463	5.6	3.7
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	175,294	72,031	1,105	2,401	0.6	3.3
	Unit of measure	Imports for consumption		Apparent consumption 6/		Percent imports to apparent consumption	
		Quantity	Value 5/	Quantity	Value 1/	Quantity	Value
2006							
Brick, building or common and facing 2/.....	1,000 bricks.....	75,717	23,723	8,938,893	2,232,872	0.8	1.1
Structural clay tile and ceramic glazed brick....	.....do.....	(X)	8,565	(X)	20,534	(X)	41.7
Clay floor and wall tile 3/.....	1,000 sq meters....	253,829	2,365,930	308,137	3,166,185	82.4	74.7
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	309	561	150,975	75,332	0.2	0.7
2005							
Brick, building or common and facing 2/.....	1,000 bricks.....	49,432	14,876	9,416,183	2,128,913	0.5	0.7
Structural clay tile and ceramic glazed brick....	.....do.....	(X)	7,189	(X)	28,157	(X)	25.5
Clay floor and wall tile 3/.....	1,000 sq meters....	245,109	2,257,926	302,819	3,082,643	80.9	73.2
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	477	1,255	174,666	70,885	0.3	1.8

X Not applicable.

1/Value calculations are based on the estimated producers' value of exports.

2/Import and export data include data for floor, paving, and sewer brick; and export data include data for heat insulating building brick: manufacturers' shipments data do not include data for floor, paving, sewer, and heat insulating building brick.

3/A conversion factor of 0.092903 thousands of square meters per 1 thousand square feet was used to convert manufacturers' shipments from thousands of square feet to thousands of square meters.

4/A conversion factor of 0.907185 metric tons per 1 short ton was used to convert manufacturers' shipments from short tons to metric tons. Import and export data include data for guttering, other conduits, other fittings, and other pipe: manufacturers' shipments data do not include data for guttering, other conduits, other fittings, and other pipe.

5/Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States.

6/Apparent consumption is equal to manufacturers' shipments plus imports minus exports.

Note: For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 6.

Table 6. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Exports Codes and HTSUSA Import Codes: 2006

Product description	Export code	Import code
Brick, building or common and facing.....	6904.10.0015 6904.10.0090	6904.10.0020 6904.10.0040
Structural clay tile and ceramic glazed brick.....	6904.90.0000	6904.90.0000
Clay floor and wall tile.....	6907.10.0000 6907.90.0000 6908.10.0000 6908.90.0000	6907.10.0000 6907.90.0010 6907.90.0050 6908.10.1000 6908.10.2000 6908.10.5000 6908.90.0010 6908.90.0050
Vitrified clay sewer pipe and fittings.....	6906.00.0000	6906.00.0000

Sources: 2006 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States; Harmonized Tariff Schedule of the United States, Annotated (2006).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Foodservices
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on clay products have been collected by the Census Bureau since 1947. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.