

Clay Construction Products: 2005

Issued July 2006

Summary

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Current Industrial Reports

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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 4.4

percent to \$2,127.6 million in 2005, from \$2,037.3 million in 2004. The South Atlantic region accounted for 36.0 percent of the total value of brick shipments in 2005. More specifically, North Carolina accounted for 15.3 percent of the total value of brick shipments for 2005.

Shipments of clay floor and wall tile decreased 2.3 percent to \$856.2 million in 2005, from \$876.7 million in 2004.

Shipments of vitrified sewer pipe and fittings increased 16.5 percent to \$72.0 million in 2005, from \$61.8 million in 2004.

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
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Table 1. Production and Shipments of Clay Construction Products: 2001 to 2005
 [Value in thousands of dollars]

Product code	Product description	Production (quantity)	Shipments	
			Quantity	Value
3271210110	Brick (building or common and face):			
	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
	2001.....	8,298,743	7,941,432	1,688,499
3271210221	Structural facing tile and ceramic glazed brick:			
	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
	2001.....	26,020	25,762	13,735
3271210226	Structural clay tile (except facing):			
	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
	2001.....	49,590	49,453	10,574
3271220000	Clay floor and wall tile:			
	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
	2001.....	589,795	591,080	776,268
3271231000	Vitrified clay sewer pipe and fittings:			
	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
	2001.....	148,528	165,161	53,302

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 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: 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 r/	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 r/	447,077 r/	460,498 r/	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 r/	90,626 r/	91,174 r/	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 r/	39,249 r/	39,736 r/	38,007
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	183,722	47,852	48,091 a/	50,209 a/	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 percent 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: 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	r/ 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 r/	92,177	102,414	r/ 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 r/	452,579 r/	467,279 r/	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 r/	89,874 r/	88,934 r/	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 r/	38,112 r/	38,775 r/	37,284
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	189,873 r/	42,920 r/	50,716 a/r/	55,454 a/r/	40,783

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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 percent 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: 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	r/ 29,962	31,612	r/ 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	r/ 23,007	24,741	r/ 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	r/ 10,967	r/ 11,160	r/ 10,661
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	89,489	r/ 21,013	r/ 24,398	a/r/ 26,326	a/r/ 17,752

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Table 3a. Production of Brick, Building or Common, and Facing by Regions and State: 2004
 [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.....	9,291,150	2,365,951	2,396,433	2,365,884	2,162,882
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	74,039	21,612	20,611	16,733 a/	15,083
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	514,379 a/	129,964	138,400	133,905	112,110
East North Central.....	778,584	206,876	204,290	193,606	173,812
Ohio.....	435,947 a/	114,519 a/	114,578 a/	109,510 a/	97,340
Other (Illinois, Indiana, Michigan, and Wisconsin).....	342,637	92,357	89,712	84,096	76,472
West North Central.....	463,404	119,239	117,283	116,599	110,283
Kansas and Missouri.....	114,789	27,953	28,988	29,246	28,602
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	348,615	91,286	88,295	87,353	81,681
South Atlantic.....	3,601,331	916,489	927,790	923,611	833,441
Virginia.....	528,544	127,306	141,167	142,803	117,268
North Carolina.....	1,550,255	398,204	399,109	392,740	360,202
South Carolina.....	575,176	146,823	151,590	147,200	129,563
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	947,356	244,156	235,924	240,868	226,408
East South Central.....	1,650,369	410,907	410,427	420,520	408,515
Alabama.....	744,250	183,746	182,886	190,683	186,935
Other (Kentucky, Mississippi, and Tennessee).....	906,119	227,161	227,541	229,837	221,580
West South Central.....	1,658,782	417,988	430,200	421,496	389,098
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	983,812	250,412	254,032	248,273	231,095
Mountain.....	355,125	94,234	93,732	88,589	78,570
Colorado.....	185,251	50,626	50,221	45,778	38,626
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	169,874	43,608	43,511	42,811	39,944
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	195,137 b/	48,642 b/	53,700 b/	50,825 c/	41,970

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Table 3b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2004
 [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.....	9,388,648	2,273,172	2,547,810	2,511,328	2,056,338
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	76,878	18,528	21,115	21,067	16,168
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	506,062	119,752	153,848	145,407	87,055
East North Central.....	793,173	199,962	230,408	216,701	146,102
Ohio.....	449,268 a/	111,866 a/	131,251 a/	125,618 a/	80,533
Other (Illinois, Indiana, Michigan, and Wisconsin).....	343,905	88,096	99,157	91,083	65,569
West North Central.....	470,823	113,737	130,631	129,907	96,548
Kansas and Missouri.....	116,816	26,957	32,685	30,709	26,465
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	354,007	86,780	97,946	99,198	70,083
South Atlantic.....	3,665,562	895,979	986,327	971,383	811,873
Virginia.....	488,284	128,307	149,279	123,239	87,459
North Carolina.....	1,615,239	408,098	415,693	431,787	359,661
South Carolina.....	626,603	151,153	173,398	173,934	128,118
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	935,436	208,421	247,957	242,423	236,635
East South Central.....	1,644,224	391,169	431,077	426,998	394,980
Alabama.....	748,868	176,749	192,026	196,239	183,854
Other (Kentucky, Mississippi, and Tennessee).....	895,356	214,420	239,051	230,759	211,126
West South Central.....	1,684,981	401,860	448,278	452,977	381,866
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	1,011,739	251,994	267,371	270,674	221,700
Mountain.....	341,919	85,140	90,461	89,163	77,155
Colorado.....	175,496	43,442	48,172	47,313	36,569
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	166,423	41,698	42,289	41,850	40,586
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	205,026 c/	47,045 c/	55,665 b/	57,725 b/	44,591

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Table 3c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2004
 [Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	2,037,293	501,052	542,734	551,550	441,957
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	22,354	5,508	6,044	5,981	4,821
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	126,497	29,592	38,150	36,830	21,925
East North Central.....	191,339	49,103	56,041	52,259	33,936
Ohio.....	120,067	30,615	35,507	33,310 a/	20,635
Other (Illinois, Indiana, Michigan, and Wisconsin).....	71,272	18,488	20,534	18,949	13,301
West North Central.....	108,472	26,430	30,217	29,702	22,123
Kansas and Missouri.....	24,791	5,632	7,208	6,518	5,433
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	83,681	20,798	23,009	23,184	16,690
South Atlantic.....	708,198	173,045	186,559	191,061	157,533
Virginia.....	96,031	23,718	27,611	25,870	18,832
North Carolina.....	290,141	72,943	74,875	77,563	64,760
South Carolina.....	132,022	32,281	34,090	37,247	28,404
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	190,004	44,103	49,983	50,381	45,537
East South Central.....	298,220	72,196	78,349	77,150	70,525
Alabama.....	141,974	35,067	36,886	36,500	33,521
Other (Kentucky, Mississippi, and Tennessee).....	156,246	37,129	41,463	40,650	37,004
West South Central.....	390,294	99,286	95,730	106,129	89,149
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	230,758	61,065	56,783	62,068	50,842
Mountain.....	94,124	23,753	25,259	24,373	20,739
Colorado.....	50,074	12,661	14,085	13,297	10,031
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	44,050	11,092	11,174	11,076	10,708
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	97,795 b/	22,139 b/	26,385 b/	28,065 b/	21,206

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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 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 4a. Production of Clay Construction Products: 2005 and 2004

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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	b/r/ 6,711	b/r/ 7,681	b/ 7,447	b/r/ 7,083
3271210226	Structural clay tile (except facing).....	41,515	r/ 9,939	r/ 10,550	r/ 11,074	r/ 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	r/ 57,439	a/r/ 56,835	r/ 60,900
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	307,207	79,178	r/ 75,079	r/ 78,199	r/ 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
2004						
3271210110	Brick, building or common and facing.....	9,291,150	2,365,951	2,396,433	2,365,884	2,162,882
3271210221	Structural facing tile and ceramic glazed brick.....	26,404	6,028	7,554	6,588	6,234
3271210226	Structural clay tile (except facing).....	36,208	a/ 8,843	a/ 9,746	a/ 10,387	a/ 7,232
3271220000	Clay floor and wall tile.....	668,813	161,240	160,523	172,694	174,356
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	338,660	b/ 76,214	b/ 85,421	b/ 88,271	b/ 88,754
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	181,249	49,965	36,966	46,634	47,684
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.....	147,891	37,606	36,837	37,007	36,441

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Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 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.

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

Table 4b. Quantity of Shipments of Clay Construction Products: 2005 and 2004

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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 b/	8,036 b/r/	8,757 b/	7,600 b/r/	8,189
3271210226	Structural clay tile (except facing).....	47,704 r/	11,989 r/	13,223 r/	11,882 r/	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 r/	54,611 a/r/	54,808 r/	58,490
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	310,544	75,404 r/	73,841 r/	86,262 r/	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
2004						
3271210110	Brick, building or common and facing.....	9,388,648	2,273,172	2,547,810	2,511,328	2,056,338
3271210221	Structural facing tile and ceramic glazed brick.....	23,693	6,242	6,841	5,853	4,757
3271210226	Structural clay tile (except facing).....	40,050 a/	10,379 a/	10,379 a/	9,944 a/	9,348
3271220000	Clay floor and wall tile.....	695,386	166,876	171,790	176,906	179,814
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	332,746 b/	75,628 b/	84,482 b/	86,080 b/	86,556
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	218,970	56,787	51,310	54,217	56,656
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.....	163,595	36,687	52,155	37,904	36,849

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

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 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.

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

Table 4c. Value of Shipments of Clay Construction Products: 2005 and 2004
 [Value in thousands of dollars]

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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	b/r/ 4,990	b/r/ 5,384	b/r/ 4,802	b/r/ 5,156
3271210226	Structural clay tile (except facing).....	12,844	r/ 3,357	r/ 3,715	r/ 3,035	r/ 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	r/ 77,510	a/r/ 79,460	r/ 78,678
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	271,220	68,966	r/ 72,296	r/ 68,817	r/ 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
2004						
3271210110	Brick, building or common and facing.....	2,037,293	501,052	542,734	551,550	441,957
3271210221	Structural facing tile and ceramic glazed brick.....	13,321	3,521	3,746	3,283	2,771
3271210226	Structural clay tile (except facing).....	10,665	b/ 2,815	b/ 2,770	b/ 2,681	b/ 2,399
3271220000	Clay floor and wall tile.....	876,738	217,302	220,001	221,479	217,956
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	378,476	b/ 90,783	b/ 95,647	b/ 96,084	b/ 95,962
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	208,086	55,556	50,650	51,431	50,449
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.....	61,787	12,951	19,575	14,416	14,845

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

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 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.

Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent 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: 2005 and 2004
 [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/
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
2004							
Brick, building or common and facing 2/.....	1,000 bricks.....	9,388,648	2,037,293	75,297	13,189	0.8	0.6
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	23,986	(X)	6,442	(X)	26.9
Clay floor and wall tile 3/.....	1,000 sq meters....	64,603	876,738	3,238	26,884	5.0	3.1
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	148,411	61,787	1,336	3,105	0.9	5.0
Product description	Unit of measure	Imports for consumption		Apparent consumption 6/		Percent imports to apparent consumption	
		Quantity	Value 5/	Quantity	Value 1/	Quantity	Value
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
2004							
Brick, building or common and facing 2/.....	1,000 bricks.....	33,436	10,387	9,346,787	2,034,491	0.4	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	7,555	(X)	25,099	(X)	30.1
Clay floor and wall tile 3/.....	1,000 sq meters....	231,158	2,013,074	292,523	2,862,928	79.0	70.3
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	830	1,658	147,905	60,340	0.6	2.7

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: 2005

Product description	Export code	Import code
Brick, building or common and facing.....	6904.10.0015	6904.10.0020
	6904.10.0090	6904.10.0040
Structural clay tile and ceramic glazed brick.....	6904.90.0000	6904.90.0000
Clay floor and wall tile.....	6907.10.0000	6907.10.0000
	6907.90.0000	6907.90.0010
	6908.10.0000	6907.90.0050
	6908.90.0000	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: 2005 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 (2005).

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.