

Clay Construction Products: 2004

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Summary

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SUMMARY OF FINDINGS. Shipments of brick, building or common and facing, increased 12.0 percent to \$2,037.3 million in 2004, from \$1,818.2 million in 2003. The South Atlantic

region accounted for 34.8 percent of the total value of brick shipments in 2004. More specifically, North Carolina accounted for 14.2 percent of the total value of brick shipments for 2004.

Shipments of structural facing tile and ceramic glazed brick decreased 2.1 percent to \$13.3 million in 2004, from \$13.6 million in 2003.

Shipments of clay floor and wall tile increased 15.7 percent to \$876.7 million in 2004, from \$758.0 million in 2003.

Shipments of vitrified sewer pipe and fittings increased 24.1 percent to \$61.8 million in 2004, from \$49.8 million in 2003.

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

Current Industrial Reports

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Ernest Wilson, Jr., 301-763-4736.
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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: 2000 to 2004
 [Value in thousands of dollars]

Product code	Product description	Production (quantity)	Shipments	
			Quantity	Value
3271210110	Brick (building or common and face):			
	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
	2000.....	9,107,196	8,616,784	1,694,011
3271210221	Structural facing tile and ceramic glazed brick:			
	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
	2000.....	29,246	28,117	13,246
3271210226	Structural clay tile (except facing):			
	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
	2000.....	44,152	47,009	9,065
3271220000	Clay floor and wall tile:			
	2004.....	668,813	695,386	876,738
	2003.....	617,335	r/ 614,955	758,004
	2002.....	622,453	649,480	825,460
	2001.....	589,795	591,080	776,268
	2000.....	671,179	650,483	866,921
3271231000	Vitrified clay sewer pipe and fittings:			
	2004.....	r/ 147,891	r/ 163,595	r/ 61,787
	2003.....	r/ 134,065	145,559	49,822
	2002.....	159,248	139,086	50,355
	2001.....	148,528	165,161	53,302
	2000.....	158,461	161,214	55,653

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 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: 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	15,083
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	514,379	129,964	138,400	133,905	112,110
East North Central.....	778,584	206,876	204,290	193,606	173,812
Ohio.....	435,947	114,519	114,578	109,510	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	r/ 235,924	240,868	r/ 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	r/ 43,511	42,811	r/ 39,944
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	195,137	48,642	r/ 53,700	50,825	r/ 41,970

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

Table 2b. 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	111,866	131,251	125,618	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	r/ 242,423	r/ 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	r/ 40,586
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	205,026	47,045	55,665	57,725	44,591

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

Table 2c. 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	r/ 5,981	r/ 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	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	r/ 20,798	r/ 23,009	r/ 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	r/ 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	r/ 49,983	r/ 50,381	r/ 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	r/ 11,076	r/ 10,708
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	97,795	22,139	26,385	28,065	21,206

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Table 3a. Production of Brick, Building or Common, and Facing by Regions and State: 2003
 [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.....	8,569,926	2,177,704	2,226,293	2,183,561	1,982,368
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	75,794	21,547	20,457	17,049	16,741
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	461,066	111,704	131,935	124,922	92,505
East North Central.....	697,465	185,642	189,002	178,123	144,698
Ohio.....	406,902	98,914	109,841	105,614	92,533
Other (Illinois, Indiana, Michigan, and Wisconsin).....	290,563	86,728	79,161	72,509	52,165
West North Central.....	439,388	105,342	108,816	113,800	111,430
Kansas and Missouri.....	109,943	23,641	24,559	26,332	35,411
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	329,445	81,701	84,257	87,468	76,019
South Atlantic.....	3,106,289	806,996	819,212	783,577	696,504
Virginia.....	449,167	116,137	122,639	113,276	97,115
North Carolina.....	1,372,912	346,441	361,195	347,044	318,232
South Carolina.....	522,349	138,963	134,713	140,975	107,698
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	761,861	205,455	200,665	182,282	173,459
East South Central.....	1,633,584	419,390	421,232	413,873	379,089
Alabama.....	762,181	184,532	199,876	198,625	179,148
Other (Kentucky, Mississippi, and Tennessee).....	871,403	234,858	221,356	215,248	199,941
West South Central.....	1,649,132	402,793	408,374	424,080	413,885
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	997,945	242,842	245,990	258,142	250,971
Mountain.....	323,729	79,245	81,066	81,657	81,761
Colorado.....	179,011	43,018	44,557	45,457	45,979
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	144,718	36,227	36,509	36,200	35,782
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	183,479	45,045	46,199	46,480	45,755

D Withheld to avoid disclosing data for individual companies.

Table 3b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2003
 [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.....	8,519,678	2,204,688	2,334,493	2,245,871	1,734,626
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	74,474	18,655	21,092	21,664	13,063
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	426,489	116,458	126,944	121,341	61,746
East North Central.....	711,065	192,709	211,434	193,082	113,840
Ohio.....	407,074	109,847	122,218	111,770	63,239
Other (Illinois, Indiana, Michigan, and Wisconsin).....	303,991	82,862	89,216	81,312	50,601
West North Central.....	433,338	106,563	119,584	119,538	87,653
Kansas and Missouri.....	121,261	27,071	32,847	32,897	28,446
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	312,077	79,492	86,737	86,641	59,207
South Atlantic.....	3,091,629	807,800	837,672	793,065	653,092
Virginia.....	388,533	101,916	108,901	104,611	73,105
North Carolina.....	1,406,000	363,235	385,497	360,400	296,868
South Carolina.....	525,121	145,874	137,188	130,579	111,480
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	771,975	196,775	206,086	197,475	171,639
East South Central.....	1,670,083	418,942	453,166	441,752	356,223
Alabama.....	810,960	199,533	217,467	211,690	182,270
Other (Kentucky, Mississippi, and Tennessee).....	859,123	219,409	235,699	230,062	173,953
West South Central.....	1,625,004	422,456	434,855	428,241	339,452
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	951,501	253,985	252,691	248,344	196,481
Mountain.....	300,518	76,093	79,689	76,707	68,029
Colorado.....	160,651	41,231	44,344	41,789	33,287
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	139,867	34,862	35,345	34,918	34,742
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	187,078	45,012	50,057	50,481	41,528

D Withheld to avoid disclosing data for individual companies.

Table 3c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2003
 [Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	1,818,204	474,379	514,212	473,440	356,173
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	20,896	5,148	5,759	5,969	4,020
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	104,972	28,809	31,650	29,928	14,585
East North Central.....	166,701	44,714	50,268	45,293	26,426
Ohio.....	105,611	28,430	32,220	28,930	16,031
Other (Illinois, Indiana, Michigan, and Wisconsin).....	61,090	16,284	18,048	16,363	10,395
West North Central.....	98,292	24,022	27,448	26,819	20,003
Kansas and Missouri.....	25,605	5,710	7,561	6,657	5,677
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	72,687	18,312	19,887	20,162	14,326
South Atlantic.....	587,527	156,420	164,230	148,825	118,052
Virginia.....	82,891	22,290	23,167	21,953	15,481
North Carolina.....	250,174	64,781	68,732	64,472	52,189
South Carolina.....	116,154	31,236	32,539	27,991	24,388
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	138,308	38,113	39,792	34,409	25,994
East South Central.....	285,504	73,660	79,502	73,241	59,101
Alabama.....	141,804	36,175	39,184	35,796	30,649
Other (Kentucky, Mississippi, and Tennessee).....	143,700	37,485	40,318	37,445	28,452
West South Central.....	385,039	99,736	109,437	98,859	77,007
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	220,504	58,237	62,283	56,312	43,672
Mountain.....	83,793	21,644	22,785	21,083	18,281
Colorado.....	47,971	12,574	13,492	12,324	9,581
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	35,822	9,070	9,293	8,759	8,700
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	85,480	20,226	23,133	23,423	18,698

D Withheld to avoid disclosing data for individual companies.

Table 4a. Production of Clay Construction Products: 2004 and 2003

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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	r/ 6,028	r/ 7,554	r/ 6,588	r/ 6,234
3271210226	Structural clay tile (except facing).....	36,208	8,843	r/ 9,746	r/ 10,387	r/ 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	76,214	85,421	88,271	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.....	r/ 147,891	r/ 37,606	r/ 36,837	r/ 37,007	r/ 36,441
2003						
3271210110	Brick, building or common and facing.....	8,569,926	2,177,704	2,226,293	2,183,561	1,982,368
3271210221	Structural facing tile and ceramic glazed brick.....	23,100	6,012	6,084	5,607	5,397
3271210226	Structural clay tile (except facing).....	42,324	11,107	13,257	11,422	6,538
3271220000	Clay floor and wall tile.....	617,335	149,904	149,077	160,420	157,934
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	247,117	57,758	60,755	63,959	64,645
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	233,721	59,380	52,715	60,351	61,275
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.....	r/ 134,065	r/ 36,536	r/ 37,071	25,727	34,731

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 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.

Table 4b. Quantity of Shipments of Clay Construction Products: 2004 and 2003

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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 r/	6,242 r/	6,841 r/	5,853 r/	4,757 r/
3271210226	Structural clay tile (except facing).....	40,050 r/	10,379 r/	10,379 r/	9,944 r/	9,348 r/
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	75,628	84,482	86,080	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.....	r/ 163,595 r/	36,687 r/	52,155 r/	37,904 r/	36,849 r/
2003						
3271210110	Brick, building or common and facing.....	8,519,678	2,204,688	2,334,493	2,245,871	1,734,626
3271210221	Structural facing tile and ceramic glazed brick.....	22,605	4,883	6,201 r/	6,632 r/	4,889 r/
3271210226	Structural clay tile (except facing).....	40,330	10,677 r/	11,247 r/	9,246 r/	9,160 r/
3271220000	Clay floor and wall tile.....	r/ 614,955	154,233	151,695	156,151	152,876
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	252,222	59,153	63,370	64,467	65,232
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	226,472 r/	63,264 r/	53,375 r/	55,812 r/	54,021 r/
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.....	145,559	35,379 r/	43,891 r/	38,334 r/	27,955 r/

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 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 4c. Value of Shipments of Clay Construction Products: 2004 and 2003
 [Value in thousands of dollars]

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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	r/ 3,521	r/ 3,746	r/ 3,283	r/ 2,771
3271210226	Structural clay tile (except facing).....	10,665	r/ 2,815	r/ 2,770	r/ 2,681	r/ 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	90,783	95,647	96,084	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.....	r/ 61,787	12,951	r/ 19,575	14,416	r/ 14,845
2003						
3271210110	Brick, building or common and facing.....	1,818,204	474,379	514,212	473,440	356,173
3271210221	Structural facing tile and ceramic glazed brick.....	13,602	3,021	3,658	3,917	3,006
3271210226	Structural clay tile (except facing).....	11,001	2,947	3,118	2,515	2,421
3271220000	Clay floor and wall tile.....	758,004	191,668	r/ 190,297	r/ 190,401	185,638
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	317,123	76,207	80,006	79,394	81,516
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	186,823	53,780	44,098	45,694	43,251
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.....	49,822	10,815	16,007	13,643	9,357

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

Table 5. Shipments, Exports, and Imports of Selected Clay Construction Products: 2004 and 2003
 [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/
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..	64,303	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
2003							
Brick, building or common and facing 2/.....	1,000 bricks.....	8,519,678	1,818,204	46,286	11,735	0.5	0.6
Structural clay tile and ceramic glazed brick....	.....do.....	(X)	24,603	(X)	3,701	(X)	15.0
Clay floor and wall tile 3/.....	1,000 sq meters..	57,131	758,004	2,688	27,424	4.7	3.6
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	132,049	49,822	1,141	2,619	0.9	5.3
Product description	Unit of measure	Imports for consumption		Apparent consumption 6/		Percent imports to apparent consumption	
		Quantity	Value 5/	Quantity	Value 1/	Quantity	Value
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	70.9
Vitrified clay sewer pipe and fittings. 4/.....	Metric tons.....	830	1,658	147,905	60,340	0.6	2.7
2003							
Brick, building or common and facing 2/.....	1,000 bricks.....	20,807	6,711	8,494,199	1,813,180	0.2	0.4
Structural clay tile and ceramic glazed brick....	.....do.....	(X)	5,182	(X)	26,084	(X)	19.9
Clay floor and wall tile 3/.....	1,000 sq meters..	207,282	1,754,707	261,725	2,485,287	79.2	70.6
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	339	500	131,247	47,703	0.3	1.0

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, 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 Export Codes, and HTSUSA Import Codes: 2004

Product description	Export code 1/	Import code 2/
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

1/Sources: 2004 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Harmonized Tariff Schedule of the United States, Annotated (2004).

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.