

Clay Construction Products: 2003

Issued December 2004

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 6.7 percent to \$1,818.2 million in 2003, from \$1,704.2 million in 2002. The South Atlantic

region accounted for 32.3 percent of the total value of brick shipments in 2003. More specifically, North Carolina accounted for 13.8 percent of the total value of brick shipments for 2003.

Shipments of structural facing tile and ceramic glazed brick decreased 24.2 percent to \$13.6 million in 2003, from \$10.9 million in 2002.

Shipments of clay floor and wall tile decreased 8.2 percent to \$757.4 million in 2003, from \$825.5 million in 2002.

Shipments of vitrified sewer pipe and fittings decreased 1.1 percent to \$49.8 million in 2003, from \$50.4 million in 2002.

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 Ernest Wilson, Jr., 301-763-4736.

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: 1999 to 2003
 [Value in thousands of dollars]

Product code	Product description	Production (quantity)	Shipments	
			Quantity	Value
3271210110	Brick (building or common and face):			
	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
	1999.....	8,552,821	8,931,700	1,631,033
3271210221	Structural facing tile and ceramic glazed brick:			
	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
	1999.....	27,568	26,659	14,586
3271210226	Structural clay tile (except facing):			
	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
	1999.....	46,257	47,156	8,494
3271220000	Clay floor and wall tile:			
	2003.....	617,213 r/	614,850	757,404
	2002.....	622,453	649,480	825,460
	2001.....	589,795	591,080	776,268
	2000.....	671,179	650,483	866,921
	1999.....	624,827	636,242	843,025
3271231000	Vitrified clay sewer pipe and fittings:			
	2003..... r/	134,178 r/	132,410	49,822
	2002.....	159,248	139,086	50,355
	2001.....	148,528	165,161	53,302
	2000.....	158,461	161,214	55,653
	1999.....	177,048	178,558	53,615

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: 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 r/	45,045 r/	46,199 r/	46,480	45,755

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: 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 r/	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 r/	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 r/	196,481
Mountain.....	300,518	76,093	79,689	76,707 r/	68,029
Colorado.....	160,651	41,231	44,344	41,789 r/	33,287
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	139,867 r/	34,862 r/	35,345	34,918 r/	34,742
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	187,078 r/	45,012 r/	50,057 r/	50,481	41,528

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Table 2c. 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 r/	5,148 r/	5,759	5,969 r/	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 r/	27,448	26,819 r/	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 r/	18,312 r/	19,887	20,162 r/	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 r/	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 r/	109,437 r/	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 r/	43,672
Mountain.....	83,793 r/	21,644 r/	22,785	21,083 r/	18,281
Colorado.....	47,971	12,574	13,492	12,324 r/	9,581
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	35,822 r/	9,070 r/	9,293 r/	8,759 r/	8,700
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	85,480 r/	20,226 r/	23,133 r/	23,423	18,698

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Table 3a. Production of Brick, Building or Common, and Facing by Regions and State: 2002
 [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.....	8,469,465	2,129,041	2,278,963	2,182,901	1,878,560
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	80,672	19,268	21,843	19,481	20,080
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	449,122	103,138	133,804	130,857	81,323
East North Central.....	701,587	174,410	180,236	182,223	164,718
Ohio.....	411,952	101,188	106,782	105,936	98,046
Other (Illinois, Indiana, Michigan, and Wisconsin).....	289,635	73,222	73,454	76,287	66,672
West North Central.....	428,414	107,273	115,586	103,887	101,668
Kansas and Missouri.....	139,788	34,514	35,708	34,875	34,691
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	288,626	72,759	79,878	69,012	66,977
South Atlantic.....	3,135,096	792,370	856,612	808,225	677,889
Virginia.....	465,546	119,944	126,534	118,059	101,009
North Carolina.....	1,434,641	359,726	394,353	371,802	308,760
South Carolina.....	485,982	118,872	130,118	126,705	110,287
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	748,927	193,828	205,607	191,659	157,833
East South Central.....	1,537,545	393,261	406,232	392,590	345,462
Alabama.....	718,655	187,528	191,322	179,947	159,858
Other (Kentucky, Mississippi, and Tennessee).....	818,890	205,733	214,910	212,643	185,604
West South Central.....	1,615,282	406,468	423,340	407,154	378,320
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	975,171	242,050	253,390	250,025	229,706
Mountain.....	320,156	81,323	83,781	84,400	70,652
Colorado.....	174,179	44,368	45,368	47,189	37,254
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	145,977	36,955	38,413	37,211	33,398
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	201,591	51,530 r/	57,529	54,084	38,448

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r/Revised by 5 percent or more from

Table 3b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2002
 [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.....	7,986,393	1,870,402	2,219,674	2,176,613	1,719,704
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	72,197	16,165	20,303	20,446	15,283
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	416,999	100,240	118,241	117,210	81,308
East North Central.....	682,846	165,551	198,817	188,997	129,481
Ohio.....	407,320	97,384	118,766	114,249	76,921
Other (Illinois, Indiana, Michigan, and Wisconsin).....	275,526	68,167	80,051	74,748	52,560
West North Central.....	398,656	98,161	113,266	105,961	81,268
Kansas and Missouri.....	124,142	30,988	34,306	31,834	27,014
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	274,514	67,173	78,960	74,127	54,254
South Atlantic.....	2,950,979	669,550	817,261	810,147	654,021
Virginia.....	394,773	88,900	106,949	110,018	88,906
North Carolina.....	1,325,978	302,223	366,770	373,452	283,533
South Carolina.....	482,338	108,768	132,968	130,204	110,398
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	747,890	169,659	210,574	196,473	171,184
East South Central.....	1,510,117	354,293	418,510	407,055	330,259
Alabama.....	720,620	171,931	193,647	190,424	164,618
Other (Kentucky, Mississippi, and Tennessee).....	789,497	182,362	224,863	216,631	165,641
West South Central.....	1,461,817	350,078	395,070	390,002	326,667
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	851,392 r/	195,970 r/	229,072 r/	232,506 r/	193,844
Mountain.....	302,797	71,315 r/	85,472	84,339	61,671
Colorado.....	165,879	39,421	47,505	47,116	31,837
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	136,918	31,894	37,967	37,223	29,834
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	189,985	45,049 r/	52,734	52,456	39,746

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Table 3c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2002
 [Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	1,704,138	390,586	473,930	471,582	368,040
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	20,442	4,601	5,797	5,884	4,160
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	102,497	24,876	28,289	29,103	20,229
East North Central.....	155,620	37,613	45,700	43,477	28,830
Ohio.....	101,797	24,335	29,966	28,577	18,919
Other (Illinois, Indiana, Michigan, and Wisconsin).....	53,823	13,278	15,734	14,900	9,911
West North Central.....	91,685	22,268	25,842	24,833	18,742
Kansas and Missouri.....	24,962	6,276	6,908	6,439	5,339
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	66,723	15,992	18,934	18,394	13,403
South Atlantic.....	558,780	125,253	153,056	155,870	124,601
Virginia.....	82,310	18,729	22,688	22,520	18,373
North Carolina.....	237,757	54,296	65,326	67,344	50,791
South Carolina.....	106,545	23,453	28,967	29,459	24,666
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	132,168	28,775	36,075	36,547	30,771
East South Central.....	251,950	56,466	70,192	69,168	56,124
Alabama.....	121,728	27,642	33,035	32,632	28,419
Other (Kentucky, Mississippi, and Tennessee).....	130,222	28,824	37,157	36,536	27,705
West South Central.....	357,469	80,689	98,648	96,826	81,306
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	204,896	44,148 r/	57,739 r/	56,424 r/	46,585
Mountain.....	83,059	19,434 r/	23,641	23,313	16,671
Colorado.....	46,399	11,125	13,329	13,123	8,822
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	36,660	8,309	10,312	10,190	7,849
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	82,636	19,386 r/	22,765	23,108	17,377

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Table 4a. Production of Clay Construction Products: 2003 and 2002

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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 r/	6,012 r/	6,084 r/	5,607 r/	5,397
3271210226	Structural clay tile (except facing).....	42,324 r/	11,107 r/	13,257	11,422	6,538
3271220000	Clay floor and wall tile.....	617,213	149,782 r/	149,077 r/	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.....	246,999 r/	57,640 r/	60,755 r/	63,959 r/	64,645
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	233,717 r/	59,376 r/	52,715 r/	60,351 r/	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/ 134,178 r/	36,565 r/	37,099	25,755	34,759
2002						
3271210110	Brick, building or common and facing.....	8,469,465	2,129,041	2,278,963	2,182,901	1,878,560
3271210221	Structural facing tile and ceramic glazed brick.....	20,513 r/	4,976 r/	6,414 r/	5,157 r/	3,966
3271210226	Structural clay tile (except facing).....	46,362 r/	11,699	11,259 r/	12,308 r/	11,096
3271220000	Clay floor and wall tile.....	622,453	155,919	143,593	166,050	156,891
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	322,198	76,382	76,888	84,892	84,036
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	162,778	46,369	32,060	44,094	40,255
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.....	159,248	35,126	41,285	45,213	37,624

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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: 2003 and 2002

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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 r/	6,012 r/	6,084 r/	5,607 r/	5,397
3271210226	Structural clay tile (except facing).....	42,324 r/	11,107 r/	13,257	11,422	6,538
3271220000	Clay floor and wall tile.....	617,213	149,782 r/	149,077 r/	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.....	246,999 r/	57,640 r/	60,755 r/	63,959 r/	64,645
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	233,717 r/	59,376 r/	52,715 r/	60,351 r/	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/ 134,178 r/	r/ 36,565 r/	r/ 37,099	25,755	34,759
2002						
3271210110	Brick, building or common and facing.....	8,469,465	2,129,041	2,278,963	2,182,901	1,878,560
3271210221	Structural facing tile and ceramic glazed brick.....	20,513 r/	4,976 r/	6,414 r/	5,157 r/	3,966
3271210226	Structural clay tile (except facing).....	46,362 r/	11,699	11,259 r/	12,308 r/	11,096
3271220000	Clay floor and wall tile.....	622,453	155,919	143,593	166,050	156,891
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	322,198	76,382	76,888	84,892	84,036
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	162,778	46,369	32,060	44,094	40,255
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.....	139,086 r/	24,141 r/	42,854 r/	36,470 r/	35,621

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: 2003 and 2002
 [Value in thousands of dollars]

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
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	r/ 3,021	r/ 3,658	r/ 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.....	757,404	191,068	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.....	316,527	r/ 75,611	r/ 80,006	r/ 79,394	81,516
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	186,819	r/ 53,776	r/ 44,098	r/ 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	r/ 16,007	13,643	9,357
2002						
3271210110	Brick, building or common and facing.....	1,704,138	390,586	473,930	471,582	368,040
3271210221	Structural facing tile and ceramic glazed brick.....	10,948	r/ 2,324	3,605	r/ 2,682	r/ 2,337
3271210226	Structural clay tile (except facing).....	11,202	2,666	r/ 3,011	r/ 2,697	2,828
3271220000	Clay floor and wall tile.....	825,460	188,816	203,388	215,305	217,951
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	387,621	86,531	96,460	98,843	105,787
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	177,473	r/ 41,201	r/ 40,798	r/ 45,328	r/ 50,146
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.....	50,355	8,978	15,687	12,706	12,984

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: 2003 and 2002
 [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/
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....	57,121	757,404	2,688	27,424	4.7	3.6
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	120,120	49,822	1,141	2,619	0.9	5.3
2002							
Brick, building or common and facing 2/.....	1,000 bricks.....	7,986,393	1,704,138	30,547	7,767	0.4	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	22,150	(X)	4,366	(X)	19.7
Clay floor and wall tile 3/.....	1,000 sq meters....	60,339	825,460	3,094	26,547	5.1	3.2
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	126,177	50,355	1,106	2,901	0.9	5.8
Product description	Unit of measure	Imports for consumption		Apparent consumption 6/		Percent imports to apparent consumption	
		Quantity	Value 5/	Quantity	Value 1/	Quantity	Value
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	261,715	2,484,687	79.2	70.6
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	339	500	119,318	47,703	0.3	1.0
2002							
Brick, building or common and facing 2/.....	1,000 bricks.....	27,579	7,916	7,983,425	1,704,287	0.3	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	3,914	(X)	21,698	(X)	18.0
Clay floor and wall tile 3/.....	1,000 sq meters....	159,455	1,357,226	216,700	2,156,139	73.6	62.9
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	200	339	125,271	47,793	0.2	0.7

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 one 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 one 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 to 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: Schedule B export numbers and HTSUSA import numbers are listed in Table 6.

Table 6. Comparison of Schedule B Export Numbers and HTSUSA Import Numbers: 2003

Product description	Export number	Import number
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: 2003 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 (2003).

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.