

# Clay Construction Products: 2001

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## Summary

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**SUMMARY OF FINDINGS.** Shipments of brick, building or common and facing, decreased 0.1 percent to \$1,691.7 million in 2001, from \$1,694.0 million in 2000. The South Atlantic region accounted for 33.2 percent of the total

value of brick shipments in 2001. More specifically, North Carolina accounted for 13.8 percent of the total value of brick shipments in 2001.

Shipments of structural facing tile and ceramic glazed brick increased 3.7 percent to \$13.7 million in 2001, from \$13.2 million in 2000.

Shipments of clay floor and wall tile decreased 10.5 percent to \$776.3 million in 2001, from \$866.9 million in 2000. Shipments of glazed floor and wall tile (except ceramic mosaic tile) decreased 14.9 percent to \$523.3 million in 2001, from \$614.6 million in 2000.

Shipments of vitrified sewer pipe and fittings decreased 20.8 percent to \$44.1 million in 2001, from \$55.7 million in 2000.

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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Table 1. Production and Shipments of Clay Construction Products: 1997 to 2001  
 [Value in thousands of dollars]

Product code	Product description	Production (quantity)	Shipments	
			Quantity	Value
3271210110	Brick (building or common and face):			
	2001.....	8,311,992	7,954,914	1,691,728
	2000.....	9,107,196	8,616,784	1,694,011
	1999.....	8,552,821	8,931,700	1,631,033
	1998.....	8,081,209	8,241,086	1,453,024
	1997.....	7,837,600	7,732,971	1,330,797
3271210221	Structural facing tile and ceramic glazed brick:			
	2001.....	26,020	25,762	13,735
	2000.....	29,246	28,117	13,246
	1999.....	27,568	26,659	14,586
	1998.....	26,166	25,813	15,106
	1997.....	26,830	26,515	14,165
3271210226	Structural clay tile (except facing):			
	2001.....	49,590	49,453	10,574
	2000.....	44,152	47,009	9,065
	1999.....	46,257	47,156	8,494
	1998.....	50,125	49,098	8,641
	1997.....	50,917	49,729	8,545
3271220000	Clay floor and wall tile:			
	2001.....	589,795	591,080	776,268
	2000.....	671,179	650,483	866,921
	1999.....	624,827	636,242	843,025
	1998.....	621,032	636,805	836,897
	1997.....	626,933	618,978	834,166
3271231000	Vitrified clay sewer pipe and fittings:			
	2001.....	160,395	155,992 r/	58,666
	2000.....	158,461	161,214	55,653
	1999.....	177,048	178,558	53,615
	1998.....	164,523	156,189	48,105
	1997.....	162,183	164,983	47,158

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: 2001  
 [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.....	8,311,992	2,016,334	2,142,516	2,125,528	2,027,614
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	77,505	21,433	19,141	17,508	19,423
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	439,344	93,845	115,379	114,967	115,153
East North Central.....	737,034	172,181	183,051	198,490	183,312
Ohio.....	431,880	100,163	113,098	112,761	105,858
Other (Illinois, Indiana, Michigan, and Wisconsin).....	305,154	72,018	69,953	85,729	77,454
West North Central.....	409,240	104,746	109,226	103,447	91,821
Kansas and Missouri.....	135,405	36,850	35,165	34,591	28,799
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	273,835	67,896	74,061	68,856	63,022
South Atlantic.....	3,082,299	752,084	796,197	791,955	742,063
Virginia.....	446,020	107,269	110,995	114,700	113,056
North Carolina.....	1,323,433	326,410	340,157	338,266	318,600
South Carolina.....	504,234	118,286	138,805	137,825	109,318
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	808,612	200,119	206,240	201,164	201,089
East South Central.....	1,487,293	364,939	372,647	371,561	378,146
Alabama.....	695,049	166,892	176,485	179,857	171,815
Other (Kentucky, Mississippi, and Tennessee).....	792,244	198,047	196,162	191,704	206,331
West South Central.....	1,560,652	383,266	407,498	395,067	374,821
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	935,828	226,724	243,074	233,652	232,378
Mountain.....	306,168	71,823	81,940	78,167	74,238
Colorado.....	(D)	(D)	45,713	42,144	41,359
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	(D)	(D)	36,227	36,023	32,879
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	212,457	52,017	57,437	54,366	48,637

D Withheld to avoid disclosing data for individual companies.

**Table 2b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2001**  
 [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.....	7,954,914	1,943,171	2,140,641	2,164,045	1,707,057
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	73,444	19,038	20,358	21,156	12,892
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	420,419	101,386	111,824	120,340	86,869
East North Central.....	676,034	163,799	187,273	193,564	131,398
Ohio.....	402,985	96,375	111,418	115,001	80,191
Other (Illinois, Indiana, Michigan, and Wisconsin).....	273,049	67,424	75,855	78,563	51,207
West North Central.....	368,224	96,967	105,435	97,636	68,186
Kansas and Missouri.....	123,441	31,571	36,301	32,876	22,693
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	244,783	65,396	69,134	64,760	45,493
South Atlantic.....	3,003,765	725,469	779,050	815,906	683,340
Virginia.....	415,785	111,025	104,814	112,427	87,519
North Carolina.....	1,302,779	307,775	338,861	356,865	299,278
South Carolina.....	498,404	121,487	135,040	134,658	107,219
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	786,797	185,182	200,335	211,956	189,324
East South Central.....	1,404,776	343,815	377,650	373,785	309,526
Alabama.....	669,225	160,296	183,936	175,415	149,578
Other (Kentucky, Mississippi, and Tennessee).....	735,551	183,519	193,714	198,370	159,948
West South Central.....	1,512,684	377,244	420,850	404,350	310,240
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	934,296	230,786	253,495	253,535	196,480
Mountain.....	292,442	65,896	83,172	80,388	62,986
Colorado.....	(D)	(D)	47,386	44,625	35,675
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	(D)	(D)	35,786	35,763	27,311
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	203,126	49,557	55,029	56,920	41,620

D Withheld to avoid disclosing data for individual companies.

Table 2c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2001  
 [Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	1,691,728	409,195	462,957	456,432	363,144
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	20,695	5,359	5,699	5,915	3,722
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	102,080	24,955	26,692	29,071	21,362
East North Central.....	149,808	37,017	41,934	42,986	27,871
Ohio.....	96,663	23,750	26,924	27,339	18,650
Other (Illinois, Indiana, Michigan, and Wisconsin).....	53,145	13,267	15,010	15,647	9,221
West North Central.....	81,736	21,783	23,405	21,535	15,013
Kansas and Missouri.....	23,992	6,156	6,911	6,476	4,449
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	57,744	15,627	16,494	15,059	10,564
South Atlantic.....	561,089	133,712	150,001	150,856	126,520
Virginia.....	75,816	19,528	20,861	19,814	15,613
North Carolina.....	232,783	54,980	60,792	64,407	52,604
South Carolina.....	104,175	25,382	28,261	28,131	22,401
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	148,315	33,822	40,087	38,504	35,902
East South Central.....	235,175	56,733	63,788	61,962	52,692
Alabama.....	116,264	27,007	31,650	30,466	27,141
Other (Kentucky, Mississippi, and Tennessee).....	118,911	29,726	32,138	31,496	25,551
West South Central.....	374,583	89,812	104,985	98,737	81,049
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	223,604	52,888	62,128	59,618	48,970
Mountain.....	82,294	18,882	23,468	22,359	17,585
Colorado.....	(D)	(D)	13,412	12,590	10,147
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	(D)	(D)	10,056	9,769	7,438
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	84,268	20,942	22,985	23,011	17,330

D Withheld to avoid disclosing data for individual companies.

Table 3a. Production of Brick, Building or Common, and Facing by Regions and State: 2000  
 [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.....	9,107,196	2,282,493	2,340,369	2,285,672	2,198,662
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	86,541	21,683	21,943	22,096	20,819
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	560,109	145,058	141,427	138,678	134,946
East North Central.....	777,375	197,884	205,253	196,168	178,070
Ohio.....	438,439	114,150	115,467	112,153	96,669
Other (Illinois, Indiana, Michigan, and Wisconsin).....	338,936	83,734	89,786	84,015	81,401
West North Central.....	427,480	102,671	109,544	109,803	105,462
Kansas and Missouri.....	146,976	32,502	37,999	39,359	37,116
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	280,504	70,169	71,545	70,444	68,346
South Atlantic.....	3,394,528	861,836	867,658	860,299	804,735
Virginia.....	532,786	130,222	135,135	137,833	129,596
North Carolina.....	1,456,766	400,133	363,417	354,838	338,378
South Carolina.....	566,126	131,657	152,419	145,102	136,948
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	838,850	199,824	216,687	222,526	199,813
East South Central.....	1,615,975	398,296	416,731	405,051	395,897
Alabama.....	757,901	191,189	194,837	191,499	180,376
Other (Kentucky, Mississippi, and Tennessee).....	858,074	207,107	221,894	213,552	215,521
West South Central.....	1,633,994	403,066	416,264	401,603	413,061
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	956,765	237,684	246,009	234,405	238,667
Mountain.....	348,393	85,706	89,915	86,681	86,091
Colorado.....	194,450	47,896	50,286	47,929	48,339
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	153,943	37,810	39,629	38,752	37,752
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	262,801	66,293	71,634	65,293	59,581

D Withheld to avoid disclosing data for individual companies.

Table 3b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2000  
 [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.....	8,616,784	1,962,786	2,269,238	2,301,239	2,083,521
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	80,671	17,556	21,461	22,767	18,887
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	543,180	125,805	139,865	148,292	129,218
East North Central.....	733,526	162,408	201,885	205,106	164,127
Ohio.....	425,673	95,610	118,363	119,778	91,922
Other (Illinois, Indiana, Michigan, and Wisconsin).....	307,853	66,798	83,522	85,328	72,205
West North Central.....	388,208	80,682	101,844	106,299	99,383
Kansas and Missouri.....	135,412	25,556	36,759	39,662	33,435
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	252,796	55,126	65,085	66,637	65,948
South Atlantic.....	3,195,861	760,201	833,678	848,762	753,220
Virginia.....	464,507	104,363	125,798	125,997	108,349
North Carolina.....	1,383,059	353,764	345,205	363,915	320,175
South Carolina.....	537,230	116,929	145,573	140,578	134,150
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	811,065	185,145	217,102	218,272	190,546
East South Central.....	1,513,095	336,186	395,658	398,325	382,926
Alabama.....	710,726	161,004	186,376	183,769	179,577
Other (Kentucky, Mississippi, and Tennessee).....	802,369	175,182	209,282	214,556	203,349
West South Central.....	1,556,670	344,579	413,987	407,875	390,229
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	930,588	209,941	250,562	240,714	229,371
Mountain.....	344,400	76,405	90,693	93,002	84,300
Colorado.....	190,120	41,747	50,292	51,522	46,559
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	154,280	34,658	40,401	41,480	37,741
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	261,173	58,964	70,167	70,811	61,231

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: 2000  
 [Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	1,694,011	388,676	450,613	454,747	399,975
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	21,304	4,697	5,711	5,967	4,929
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	121,469	27,748	31,378	33,659	28,684
East North Central.....	154,942	34,533	42,950	43,969	33,490
Ohio.....	96,847	21,936	27,051	27,768	20,092
Other (Illinois, Indiana, Michigan, and Wisconsin).....	58,095	12,597	15,899	16,201	13,398
West North Central.....	76,895	16,631	20,385	20,716	19,163
Kansas and Missouri.....	24,409	4,734	6,682	7,120	5,873
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	52,486	11,897	13,703	13,596	13,290
South Atlantic.....	555,960	130,973	147,162	148,502	129,323
Virginia.....	79,584	18,288	21,599	22,033	17,664
North Carolina.....	230,648	56,639	59,128	61,485	53,396
South Carolina.....	105,698	23,615	28,541	27,799	25,743
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	140,030	32,431	37,894	37,185	32,520
East South Central.....	238,189	53,970	63,779	61,976	58,464
Alabama.....	112,510	26,221	31,077	28,321	26,891
Other (Kentucky, Mississippi, and Tennessee).....	125,679	27,749	32,702	33,655	31,573
West South Central.....	347,098	79,613	91,336	91,710	84,439
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	199,413	47,975	52,793	51,922	46,723
Mountain.....	89,700	20,207	23,852	24,337	21,304
Colorado.....	49,587	11,064	13,278	13,492	11,753
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	40,113	9,143	10,574	10,845	9,551
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	88,454	20,304	24,060	23,911	20,179

D Withheld to avoid disclosing data for individual companies.



Table 4a. Production of Clay Construction Products: 2001 and 2000

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2001						
3271210110	Brick, building or common and facing.....	8,311,992	2,016,334	2,142,516	2,125,528	2,027,614
3271210221	Structural facing tile and ceramic glazed brick.....	26,020	5,607	7,310	6,670	6,433
3271210226	Structural clay tile (except facing).....	49,590	11,584	13,549	13,026	11,431
3271220000	Clay floor and wall tile.....	589,795	135,902	130,196	160,324	163,373
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	303,207	70,546	67,254	81,154	84,253
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	155,384	34,111	29,577	45,719	45,977
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.....	160,395	40,719	43,932	42,807	32,937
2000						
3271210110	Brick, building or common and facing.....	9,107,196	2,282,493	2,340,369	2,285,672	2,198,662
3271210221	Structural facing tile and ceramic glazed brick.....	29,246	7,313	6,862	7,339	7,732
3271210226	Structural clay tile (except facing).....	44,152	10,664	11,781	12,163	9,544
3271220000	Clay floor and wall tile.....	671,179	161,592	168,236	171,184	170,167
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	365,497	81,316	91,546	93,689	98,946
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	166,964	46,972	39,314	41,058	39,620
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.....	158,461	38,701	40,881	41,020	37,859

D Withheld to avoid disclosing data for individual companies.

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: 2001 and 2000

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2001						
3271210110	Brick, building or common and facing.....	7,954,914	1,943,171	2,140,641	2,164,045	1,707,057
3271210221	Structural facing tile and ceramic glazed brick.....	25,762	5,370	7,334	6,640	6,418
3271210226	Structural clay tile (except facing).....	49,453	12,795	12,489	12,411	11,758
3271220000	Clay floor and wall tile.....	591,080	141,209	138,757	155,200	155,914
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	301,591	71,597	66,475	79,545	83,974
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	165,829	38,983	40,799	44,912	41,135
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.....	155,992	37,585	47,058	39,610	31,739
2000						
3271210110	Brick, building or common and facing.....	8,616,784	1,962,786	2,269,238	2,301,239	2,083,521
3271210221	Structural facing tile and ceramic glazed brick.....	28,117	6,094	7,400	7,613	7,010
3271210226	Structural clay tile (except facing).....	47,009	12,105	11,965	11,835	11,104
3271220000	Clay floor and wall tile.....	650,483	151,976	166,239	168,081	164,187
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	357,294	79,929	86,971	89,643	100,751
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	160,560	38,986	43,210	40,781	37,583
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.....	161,214	38,429	45,099	45,780	31,906

D Withheld to avoid disclosing data for individual companies.

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: 2001 and 2000  
 [Value in thousands of dollars]

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2001						
3271210110	Brick, building or common and facing.....	1,691,728	409,195	462,957	456,432	363,144
3271210221	Structural facing tile and ceramic glazed brick.....	13,735	3,019	4,000	3,672	3,044
3271210226	Structural clay tile (except facing).....	10,574	2,757	2,657	2,677	2,483
3271220000	Clay floor and wall tile.....	776,268	187,396	181,598	200,723	206,551
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	356,943	85,129	75,817	94,517	101,480
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	166,314	39,325	40,997	43,849	42,143
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/	58,666 r/	14,299 r/	16,242 r/	15,642 r/	12,483
2000						
3271210110	Brick, building or common and facing.....	1,694,011	388,676	450,613	454,747	399,975
3271210221	Structural facing tile and ceramic glazed brick.....	13,246	2,835	3,578	3,571	3,262
3271210226	Structural clay tile (except facing).....	9,065	2,377	2,354	2,291	2,043
3271220000	Clay floor and wall tile.....	866,921	198,968	221,704	225,133	221,116
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	434,060	94,471	103,847	108,810	126,932
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	180,581	44,044	47,958	45,536	43,043
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.....	55,653	13,074	16,354	16,016	10,209

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: 2001 and 2000  
 [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/
2001							
Brick, building or common and facing 2/.....	1,000 bricks.....	7,954,914	1,691,728	30,547	7,767	0.4	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	24,309	(X)	4,366	(X)	18.0
Clay floor and wall tile 3/.....	1,000 sq meters.....	54,913	776,268	3,094	26,547	5.6	3.4
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	141,514	r/ 58,666	1,106	2,901	0.8	4.9
2000							
Brick, building or common and facing 2/.....	1,000 bricks.....	8,616,784	1,694,011	30,712	7,982	0.4	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	22,311	(X)	7,706	(X)	34.5
Clay floor and wall tile 3/.....	1,000 sq meters.....	60,432	866,921	3,362	25,846	5.6	3.0
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	146,251	55,653	1,898	2,657	1.3	4.8
Product description	Unit of measure	Imports for consumption		Apparent consumption 6/		Percent imports to apparent consumption	
		Quantity	Value 5/	Quantity	Value 1/	Quantity	Value
2001							
Brick, building or common and facing 2/.....	1,000 bricks.....	27,579	7,916	7,951,946	1,691,877	0.3	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	3,914	(X)	23,857	(X)	16.4
Clay floor and wall tile 3/.....	1,000 sq meters.....	159,455	1,357,226	211,274	2,106,947	75.5	64.4
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	200	339	120,022	r/ 56,104	0.2	0.6
2000							
Brick, building or common and facing 2/.....	1,000 bricks.....	47,472	10,021	8,633,367	1,696,214	0.5	0.6
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	3,638	(X)	18,243	(X)	19.9
Clay floor and wall tile 3/.....	1,000 sq meters.....	155,118	1,116,931	214,111	1,958,006	72.4	57.0
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	314	410	144,667	53,406	0.2	0.8

r/Revised by 5 percent or more from previously published data. 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: Schedule B export codes and HTSUSA import codes are listed in Table 6.

**Table 6. Comparison of Schedule B Export Codes and HTSUSA Import Codes: 2001**

<b>Product description</b>	<b>Export code 1/</b>	<b>Import code 2/</b>
<b>Brick, building or common and facing.....</b>	<b>6904.10.0015</b>	<b>6904.10.0020</b>
	<b>6904.10.0090</b>	<b>6904.10.0040</b>
<b>Structural clay tile and ceramic glazed brick.....</b>	<b>6904.90.0000</b>	<b>6904.90.0000</b>
<b>Clay floor and wall tile.....</b>	<b>6907.10.0000</b>	<b>6907.10.0000</b>
	<b>6907.90.0000</b>	<b>6907.90.0010</b>
	<b>6908.10.0000</b>	<b>6907.90.0050</b>
	<b>6908.90.0000</b>	<b>6908.10.1000</b>
		<b>6908.10.2000</b>
		<b>6908.10.5000</b>
		<b>6908.90.0010</b> <b>6908.90.0050</b>
<b>Vitrified clay sewer pipe and fittings.....</b>	<b>6906.00.0000</b>	<b>6906.00.0000</b>

1/Source: 2001 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 (2001).

# Appendix.

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

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### 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 Food Services
- 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.)

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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.

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**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.