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Census of Manufactures

MC87-I-32B

INDUSTRY SERIES

Cement and Structural Clay Products

Industries 3241, 3251, 3253, 3255, and
3259

Issued May 1990



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In 1982, the coverage ratio was 97 percent. The products primary to industry 3253, no matter in what industry they were produced, appear in table 6a and aggregate to \$624.6 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the ceramic wall and floor tile industry amounted to \$261.9 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 7 percent of total value of shipments.

INDUSTRY 3255, CLAY REFRACTORIES

This industry is made up of establishments primarily engaged in manufacturing clay firebrick and other heat resisting clay products. Establishments primarily engaged in manufacturing nonclay refractories and all graphite refractories, whether of carbon bond or ceramic bond, are classified in industry 3297. Products of this industry also are collected in the Current Industrial Report MA-32C, Refractories.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 3255, Clay Refractories, had employment of 6.4 thousand. The employment figure was 16 percent below the 7.6 thousand reported in 1982. The leading States in employment in 1987 were Missouri, Pennsylvania, Ohio, and Georgia, accounting for 68 percent of the industry's employment. This represents a shift from 1982 when Missouri, Pennsylvania, Ohio, and California accounted for 68 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$788.2 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3255 shipped \$660.5 million of products considered primary to the industry, \$42.4 million of secondary products, and had \$85.3 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio was 92 percent.

Establishments in this industry also accounted for 89 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio).

In 1982, the coverage ratio was 94 percent. The products primary to industry 3255, no matter in what industry they were produced, appear in table 6a and aggregate to \$744.5 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the clay refractories industry amounted to \$387.5 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of total value of shipments.

INDUSTRY 3259, STRUCTURAL CLAY PRODUCTS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing clay sewer pipe and structural clay products, not elsewhere classified. Products of this industry also are collected in the Current Industrial Report M32D, Clay Construction Products.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 3259, Structural Clay Products, N.E.C., had employment of 2.1 thousand. The employment figure was 9 percent below the 2.3 thousand reported in 1982. The leading States in employment in 1987 were California and Ohio. These same States were the leaders in 1982.

The total value of shipments for establishments classified in this industry was \$155.2 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 3259 shipped \$147.9 million of products considered primary to the industry, \$1.6 million of secondary products, and had \$5.8 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 99 percent (specialization ratio). In 1982, the specialization ratio was 98 percent.

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio also was 96 percent. The products primary to industry 3259, no matter in what industry they were produced, appear in table 6a and aggregate to \$153.8 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

Table 1a. Historical Statistics for the Industry: 1987 and Earlier Years

(1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Year ¹	All establishments ²			All employees		Production workers			Value added by manufacture ⁶ (million dollars)	Cost of materials ⁷ (million dollars)	Value of shipments ⁸ (million dollars)	New capital expenditures ⁹ (million dollars)	End-of-year inventories ¹⁰ (million dollars)	Ratios	
	Companies ² (no.)	Total (no.)	With 20 employ-ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						Specialization ¹¹ (per-cent)	Coverage ¹² (per-cent)
INDUSTRY 3241, CEMENT, HYDRAULIC															
1987 Census	122	215	140	19.2	601.7	14.5	30.2	425.3	2 288.3	1 999.8	4 321.6	167.2	723.7	99	99
1988 ASM	(NA)	(NA)	(NA)	19.7	622.6	14.9	31.2	446.0	2 153.1	2 017.1	4 220.1	169.3	773.6	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	21.2	845.4	15.9	32.2	457.1	2 220.8	2 031.5	4 222.1	196.3	825.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	22.6	858.0	17.4	33.4	478.3	2 218.1	1 966.5	4 182.9	348.7	812.5	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	23.1	639.6	17.8	35.2	475.2	1 914.6	1 761.8	3 683.1	201.3	801.6	(NA)	(NA)
1982 Census	119	237	160	24.6	636.4	19.1	36.5	473.6	1 815.7	1 752.6	3 542.0	421.9	800.0	98	99
1981 ASM	(NA)	(NA)	(NA)	28.1	687.6	22.3	43.9	532.0	1 971.8	1 814.2	3 715.4	411.3	715.3	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	30.4	698.5	24.2	48.4	543.4	2 119.4	1 891.5	3 962.6	410.2	684.3	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	30.4	644.7	24.5	50.2	510.3	2 111.4	1 865.1	4 017.1	282.2	590.1	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	28.7	558.9	22.0	48.9	433.5	1 261.9	1 619.3	3 604.3	352.3	466.6	(NA)	(NA)
1977 Census	84	201	160	27.8	485.1	22.2	44.4	380.0	1 671.5	1 343.0	3 042.3	296.6	484.8	99	99
1976 ASM	(NA)	(NA)	(NA)	28.1	445.3	22.3	44.2	343.3	1 461.3	1 163.5	2 603.8	201.0	484.7	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	28.7	411.3	22.6	45.1	315.5	1 332.9	1 034.6	2 334.3	355.2	435.2	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	31.0	411.4	24.9	50.5	320.3	1 374.3	983.1	2 285.2	266.8	410.1	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	29.7	376.2	23.9	49.0	294.3	1 224.3	737.6	1 987.7	222.6	240.0	(NA)	(NA)
1972 Census	75	198	171	30.0	348.2	24.3	49.7	275.2	1 153.5	655.4	1 791.2	179.5	239.3	99	99
INDUSTRY 3251, BRICK AND STRUCTURAL CLAY TILE															
1987 Census	167	266	204	16.6	311.5	13.4	27.8	224.3	771.9	480.2	1 254.0	56.4	240.3	98	99
1986 ASM	(NA)	(NA)	(NA)	19.1	348.5	15.4	31.9	249.7	796.1	533.4	1 347.7	*43.8	260.5	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	18.0	319.7	14.7	30.2	230.4	674.7	531.0	1 207.3	*77.9	267.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	16.9	272.5	13.9	28.2	205.3	534.2	473.5	1 015.4	*60.6	243.0	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	15.4	229.9	11.7	24.5	162.6	456.6	378.5	838.7	*49.7	224.3	(NA)	(NA)
1982 Census	195	294	185	12.5	185.4	9.9	19.7	130.1	338.6	295.7	657.3	25.7	213.5	98	99
1981 ASM	(NA)	(NA)	(NA)	17.0	228.0	13.5	26.4	162.5	425.2	347.4	738.6	68.5	225.2	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	20.2	245.8	15.7	31.2	183.5	491.2	375.2	822.5	78.6	193.6	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	22.9	255.9	18.5	36.9	198.2	552.2	399.7	915.9	78.4	140.6	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	21.6	227.4	18.2	36.7	171.0	521.5	352.1	877.1	59.9	117.8	(NA)	(NA)
1977 Census	253	352	262	20.5	197.3	17.0	34.0	149.2	467.9	299.8	777.7	49.8	93.2	97	99
1976 ASM	(NA)	(NA)	(NA)	20.2	176.6	16.6	32.3	130.8	378.4	262.6	630.9	19.0	112.6	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	19.5	160.0	16.1	32.5	116.9	302.1	219.5	519.0	28.6	99.4	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	23.4	184.5	19.7	40.4	140.9	323.3	229.2	547.8	42.8	92.1	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	24.0	175.1	20.3	41.6	136.4	340.7	191.8	528.1	35.7	57.4	(NA)	(NA)
1972 Census	314	417	302	24.1	168.4	20.4	42.2	128.5	336.4	170.5	513.0	38.6	53.0	98	99
INDUSTRY 3253, CERAMIC WALL AND FLOOR TILE															
1987 Census	95	114	51	9.5	182.8	7.7	15.6	134.6	463.1	261.9	717.4	33.2	128.6	99+	99
1986 ASM	(NA)	(NA)	(NA)	9.8	175.2	7.8	16.0	129.0	442.1	239.4	665.9	*51.3	127.3	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	8.7	153.6	7.2	15.1	117.8	354.4	204.7	568.8	*28.2	96.6	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	8.5	144.4	7.1	14.7	111.6	373.7	190.8	553.5	*84.2	102.4	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	8.2	127.2	6.8	14.4	96.9	302.9	169.0	470.8	13.0	80.3	(NA)	(NA)
1982 Census	77	97	52	7.5	114.2	6.1	12.3	80.2	256.1	149.7	406.9	7.7	77.4	100	97
1981 ASM	(NA)	(NA)	(NA)	8.9	117.5	7.3	14.8	89.0	292.6	160.2	437.9	14.2	76.6	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	8.7	105.8	7.2	14.9	80.2	249.2	143.0	384.5	19.4	56.8	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	8.7	99.7	7.2	14.9	75.9	213.7	135.8	341.1	20.1	49.6	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	7.6	81.6	6.3	13.1	60.6	181.9	106.9	292.8	13.8	40.1	(NA)	(NA)
1977 Census	61	79	48	7.8	78.3	6.3	12.8	56.4	155.4	98.7	252.5	6.6	42.1	99	95
1976 ASM	(NA)	(NA)	(NA)	8.7	80.6	7.0	14.2	57.1	151.9	91.6	244.8	12.8	44.1	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	8.3	69.1	6.5	13.1	49.3	133.0	78.6	210.8	4.3	43.8	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	9.2	70.2	7.4	15.1	51.7	131.7	78.5	208.0	16.2	41.8	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	8.2	60.0	6.8	13.7	44.5	118.6	69.6	190.5	8.0	35.1	(NA)	(NA)
1972 Census	64	83	56	8.3	58.5	6.8	14.0	43.4	112.3	65.8	175.8	7.6	33.0	98	96
INDUSTRY 3255, CLAY REFRACTORIES															
1987 Census	111	153	82	6.4	150.2	4.7	9.3	99.4	405.1	387.5	788.2	11.7	162.1	94	89
1986 ASM	(NA)	(NA)	(NA)	6.9	160.4	5.0	9.7	108.7	425.9	412.6	843.5	*15.8	178.0	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	7.1	166.6	5.3	10.4	118.8	400.8	397.5	803.0	22.1	176.2	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	7.9	176.6	6.1	12.0	130.0	421.0	438.2	868.6	22.0	197.8	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	6.9	147.1	5.1	10.0	103.9	398.0	358.5	745.5	*12.0	197.8	(NA)	(NA)
1982 Census	104	159	103	7.6	155.2	5.8	10.4	109.3	316.5	339.0	670.3	21.2	191.3	92	94
1981 ASM	(NA)	(NA)	(NA)	9.9	199.6	7.7	15.0	145.0	455.7	410.6	864.2	36.1	152.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	10.3	183.6	7.7	14.4	132.0	398.7	363.1	761.6	31.5	152.6	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	12.1	191.5	9.7	17.5	144.8	395.6	364.7	776.9	29.4	131.7	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	11.8	171.8	9.3	19.1	126.9	361.8	364.6	717.3	23.1	129.8	(NA)	(NA)
1977 Census	98	167	104	11.3	146.8	8.6	17.6	106.5	308.4	296.8	607.2	20.0	126.4	89	95
1976 ASM	(NA)	(NA)	(NA)	11.4	127.5	8.7	18.4	92.9	278.5	246.5	526.6	15.2	130.7	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	12.5	126.5	9.6	18.1	90.9	280.6	217.8	500.2	21.7	131.0	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	12.3	120.4	9.8	19.4	87.8	204.8	209.4	491.1	12.0	109.8	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	11.1	102.8	8.9	17.8	75.6	236.9	147.3	361.5	11.9	87.8	(NA)	(NA)
1972 Census	86	156	101	11.2	100.5	8.5	16.6	66.3	202.1	131.3	336.0	10.6	83.2	87	92
INDUSTRY 3259, STRUCTURAL CLAY PRODUCTS, N.E.C.															
1987 Census	58	67	29	2.1	44.9	1.7	3.6	32.2	99.9	53.5	155.2	3.9	38.6	99	96
1986 ASM	(NA)	(NA)	(NA)	2.3	45.4	1.8	3.7	32.0	97.5	66.2	163.8	3.0	43.8	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	2.2	42.4	1.7	3.7	30.3	87.6	60.2	152.5	*4.7	42.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	2.7	47.0	2.2	4.5	36.4	91.6	70.8	158.4	*2.3	43.0	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	2.2	36.2	1.7	3.6	29.0	87.8	54.7	139.7	*9	37.7	(NA)	(NA)
1982 Census	67	78	31	2.3	35.7	1.8	3.6	27.4	77.9	53.8	133.6	2.3	38.9	96	96
1981 ASM	(NA)	(NA)	(NA)	3.2	47.7	2.6	5.1	36.3	81.5	67.8	144.7	.7	41.9	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	4.2	58.6	3.5	7.0	44.2	102.6	78.5	174.0	2.6	41.0	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	5.2	67.4	4.3	8.5	52.1	118.7	87.4	203.4	4.6	42.4		

Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years—Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
INDUSTRY 3253, CERAMIC WALL AND FLOOR TILE—Con.									
1977 Census	10 038	81	2 032	4.41	39	70	19 923	50	12.14
1976 ASM	9 264	80	2 029	4.02	37	70	17 460	53	10.70
1975 ASM	8 325	78	2 015	3.76	37	70	16 024	52	10.15
1974 ASM	7 830	80	2 041	3.42	38	71	14 315	53	8.72
1973 ASM	7 317	83	2 015	3.25	37	68	14 463	51	8.66
1972 Census	7 048	82	2 059	3.10	37	71	13 530	52	8.02
INDUSTRY 3255, CLAY REFRACTORIES									
1987 Census	23 469	73	1 979	10.69	49	68	63 297	37	43.56
1986 ASM	23 246	72	1 940	11.21	49	68	61 725	38	43.91
1985 ASM	23 492	75	1 962	11.42	50	70	56 451	42	38.54
1984 ASM	22 354	77	1 967	10.83	50	71	53 291	42	35.08
1983 ASM	21 318	74	1 961	10.39	48	68	57 681	37	39.80
1982 Census	20 421	74	1 857	10.51	51	74	41 645	49	30.43
1981 ASM	20 161	78	1 848	9.67	48	71	46 030	44	30.38
1980 ASM	17 825	75	1 870	9.17	48	72	38 709	46	27.69
1979 ASM	15 826	80	1 804	8.27	50	74	32 694	48	22.61
1978 ASM	14 558	79	2 054	8.64	51	75	30 661	47	18.94
1977 Census	12 991	78	2 000	8.05	49	73	27 292	48	17.52
1976 ASM	11 184	78	1 885	5.66	47	71	24 430	46	16.88
1975 ASM	10 120	77	1 885	5.02	44	69	22 448	45	15.50
1974 ASM	9 788	80	1 980	4.53	43	67	23 967	41	15.20
1973 ASM	9 261	80	2 000	4.25	39	66	21 342	43	13.31
1972 Census	8 973	76	1 953	3.99	39	69	18 045	50	12.17
INDUSTRY 3259, STRUCTURAL CLAY PRODUCTS, N.E.C.									
1987 Census	21 381	81	2 118	8.94	34	63	47 571	45	27.75
1986 ASM	19 739	78	2 058	8.65	40	68	42 391	47	26.35
1985 ASM	19 272	77	2 176	8.19	39	67	39 818	48	23.68
1984 ASM	17 407	81	2 045	8.09	45	74	33 926	51	20.36
1983 ASM	16 454	77	2 118	8.06	39	65	39 909	41	24.39
1982 Census	15 521	78	2 000	7.61	40	67	33 870	48	21.64
1981 ASM	14 906	81	1 962	7.12	47	80	25 469	59	15.98
1980 ASM	13 952	83	2 000	6.31	44	78	24 429	57	14.66
1979 ASM	12 961	83	1 977	6.13	43	76	22 827	57	13.96
1978 ASM	12 727	82	2 000	6.17	44	74	25 091	51	15.33
1977 Census	11 636	82	1 878	5.42	42	72	22 927	51	14.17
1976 ASM	9 353	82	2 000	4.16	37	69	18 631	50	11.42
1975 ASM	8 687	81	2 019	3.91	35	66	18 500	47	11.28
1974 ASM	7 945	82	2 068	3.48	38	69	15 770	50	9.26
1973 ASM	8 390	85	1 957	3.85	37	72	15 280	55	9.15
1972 Census	7 804	83	1 985	3.67	35	70	14 610	53	8.87

Note: For qualifications of data, see footnotes on table 1a.

Table 2. Industry Statistics for Selected States: 1987 and 1982

[Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1987										1982		
	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
	Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 3241, CEMENT, HYDRAULIC													
United States	215	140	19.2	601.7	14.5	30.2	425.3	2 286.3	1 999.8	4 321.8	167.2	24.6	1 815.7
Alabama	7	7	.7	20.6	.6	1.1	15.8	92.0	93.7	189.5	9.6	1.0	119.5
Arizona	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Arkansas	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
California	21	12	2.3	78.2	1.8	3.8	54.6	354.2	269.1	621.2	16.5	3.3	232.5
Colorado	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Florida	8	6	.5	14.6	.4	.8	9.0	73.3	106.3	178.8	1.8	.8	41.0
Georgia	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Illinois	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	31.4
Indiana	5	5	.8	24.0	.6	1.1	16.9	93.2	65.3	160.6	5.6	.7	41.1
Iowa	5	4	.5	13.9	.3	.7	8.8	56.8	42.8	102.0	(D)	.7	43.7
Kansas	5	5	.7	21.8	.5	1.0	15.7	45.5	39.6	84.7	4.1	.8	50.3
Kentucky	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Maryland	5	3	.4	14.1	.4	.8	12.2	55.8	46.6	103.2	3.7	BB	(D)
Michigan	7	5	.9	27.7	.7	1.5	20.6	159.6	111.4	273.3	9.0	1.2	91.4
Missouri	8	6	.9	29.4	.7	1.3	19.8	125.9	114.1	243.5	13.4	.9	58.0

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1987											1982		
	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)	
	Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
INDUSTRY 3259, STRUCTURAL CLAY PRODUCTS, N.E.C.														
United States	E2	67	29	2.1	44.9	1.7	3.6	32.2	99.9	53.5	155.2	3.9	2.3	77.9
California	-	14	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	20.4
Ohio	E1	14	8	.6	14.3	.5	1.1	10.4	28.8	15.1	44.6	(D)	.6	19.1

Note: For qualifications of data, see footnotes on table 1a.

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 3a. Summary Statistics for the Industry: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Cement, hydraulic (SIC 3241)	Brick and structural clay tile (SIC 3251)	Ceramic wall and floor tile (SIC 3253)	Clay refractories (SIC 3255)	Structural clay products, n.e.c. (SIC 3259)
Companies	122	167	95	111	58
All establishments	215	266	114	153	67
With 1 to 19 employees	75	62	63	71	38
With 20 to 99 employees	47	159	23	74	21
With 100 employees or more	93	45	28	8	8
Employment and labor costs:					
Employees	19.2	16.6	9.5	6.4	2.1
Compensation, total	758.2	371.4	218.2	197.2	56.6
Annual payroll	601.7	311.5	182.8	150.2	44.9
Fringe benefits	156.5	59.9	35.5	47.1	11.7
Social Security and other legally required payments	81.6	33.8	17.1	17.2	5.6
Employer payments and other programs	94.9	28.0	18.4	29.9	6.1
Production workers:					
Average for year	14.5	13.1	7.7	4.7	1.7
March	14.4	13.4	7.5	4.5	1.5
May	14.5	13.5	7.7	4.7	1.7
August	14.8	13.6	7.7	4.7	1.7
November	14.1	13.4	7.7	4.8	1.8
Hours	30.2	27.8	15.6	9.3	3.6
January to March	7.5	6.6	3.8	2.2	.8
April to June	7.8	7.0	3.9	2.3	.9
July to September	7.7	7.1	3.9	2.4	.9
October to December	7.3	7.0	3.9	2.4	1.0
Wages	425.3	224.3	134.6	99.4	32.2
Value added by manufacture	2 286.3	771.9	463.1	405.1	99.9
Cost of materials ¹	1 999.8	480.2	261.9	367.5	53.5
Materials, parts, containers, etc., consumed ²	879.4	228.3	152.0	301.4	23.7
Resales	152.8	74.1	(D)	(D)	4.5
Fuels	461.4	123.0	26.5	28.2	19.5
Purchased electricity	430.0	46.7	13.1	14.1	5.0
Contract work	76.3	8.2	(D)	(D)	.8
Quantity of electric energy used for heat and power:					
Purchased	9 759.0	981.8	265.0	282.9	87.2
Generated less sold	434.5	-	-	(D)	-
Total value of shipments	4 321.8	1 243.0	717.4	788.2	155.2
Primary products	4 051.9	1 154.3	615.7	660.5	147.9
Secondary products	59.9	22.4	.3	42.4	1.6
Miscellaneous receipts, total	210.0	88.3	101.4	85.3	5.8
Value of resales	192.8	84.3	(D)	(D)	4.8
Contract receipts	-	(Z)	(D)	(D)	(D)
Other miscellaneous receipts	17.2	3.9	(D)	2.3	(D)

See footnotes at end of table.