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**MISCELLANEOUS SERIES**

**BUILDING PERMITS IN THE  
PRINCIPAL CITIES OF THE  
UNITED STATES IN 1929**



**OCTOBER, 1930**

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# BULLETIN OF THE U. S. BUREAU OF LABOR STATISTICS

No. 524

WASHINGTON

OCTOBER, 1930

## BUILDING PERMITS IN THE PRINCIPAL CITIES OF THE UNITED STATES IN 1929<sup>1</sup>

### Introduction and Summary

**B**UILDING permit reports covering the year 1929 were obtained by the Bureau of Labor Statistics from 311 of the 319 cities in the United States having a population of 25,000 or over. This is the tenth annual report of the bureau on this subject. It was necessary to send agents of the bureau to only eight of the cities to compile reports, all of the other cities having replied to questionnaires sent by mail. In collecting the reports for 1922 agents of the bureau had to visit about one-third of the cities to compile the data from local records. This proportion was reduced to 7½ per cent of the cities in 1927, to 6.1 per cent in 1928, and to 2.6 per cent in 1929. Thus, it will be seen that the local building officials, fully alive to the value of these figures, are lending their hearty assistance to the bureau. The States of Illinois, Massachusetts, New Jersey, New York, and Pennsylvania, through their departments of labor, are also cooperating with the Bureau of Labor Statistics in the collection of these statistics.

Beginning with September, 1929, the bureau has been collecting and publishing monthly information on building permits issued in cities of the United States having a population of 25,000 or over. These data are published each month in the *Labor Review* and in pamphlet form.

In studying the following tables it should be borne in mind that the costs shown refer to the cost of the building only. No land costs are included. The costs are estimated by the builder at the time of applying for his permit to build and are recorded on the application.

Table 1 shows the total number of new buildings and the estimated cost of each of the different kinds of new buildings for which permits were issued in the 311 cities from which reports were received for the year 1929, the per cent that each kind forms of the total number, the per cent that the cost of each kind forms of the total cost, and the average cost per building.

<sup>1</sup> Earlier reports concerning building permits issued in the United States are published in Bulletins Nos. 295, 313, 347, 368, 397, 424, 449, 469, and 500.

TABLE 1.—Number and cost of new buildings as stated by permits issued in 311 cities during calendar year 1929, by kind of building

Kind of building	New buildings for which permits were issued				
	Number of buildings	Per cent of grand total	Estimated cost		
			Amount	Per cent of grand total	Average per building
<b>RESIDENTIAL BUILDINGS</b>					
1-family dwellings.....	104,798	34.1	\$516,296,221	19.4	\$4,927
2-family dwellings.....	12,990	4.2	98,988,741	3.7	7,621
1-family and 2-family dwellings with stores combined.....	1,507	.5	14,354,773	.5	9,595
Multifamily dwellings.....	6,662	2.2	490,957,201	18.4	73,695
Multifamily dwellings with stores combined.....	559	.2	34,826,898	1.3	62,302
Hotels.....	275	.1	284,604,413	10.7	1,034,925
Lodging houses.....	23	( <sup>1</sup> )	428,569	( <sup>1</sup> )	18,633
All others.....	138	( <sup>1</sup> )	37,011,151	1.4	268,197
<b>Total.....</b>	<b>126,952</b>	<b>41.3</b>	<b>1,477,477,877</b>	<b>55.4</b>	<b>11,638</b>
<b>NONRESIDENTIAL BUILDINGS</b>					
Amusement buildings.....	748	0.2	43,215,396	1.6	57,775
Churches.....	855	.3	40,881,577	1.5	47,815
Factories and workshops.....	3,927	1.3	141,620,127	5.3	36,063
Public garages.....	4,071	1.3	49,198,147	1.8	12,085
Private garages.....	135,637	4.2	48,637,185	1.8	359
Service stations.....	4,207	1.4	19,928,471	.7	4,737
Institutions.....	274	.1	75,702,762	2.8	276,287
Office buildings.....	1,136	.4	240,950,146	9.0	21,210
Public buildings.....	327	.1	87,553,812	3.3	26,775
Public works and utilities.....	629	.2	45,443,758	1.7	72,248
Schools and libraries.....	753	.2	128,897,346	4.8	171,178
Sheds.....	10,649	3.5	4,456,039	.2	418
Stables and barns.....	324	.1	998,941	( <sup>1</sup> )	2,991
Stores and warehouses.....	12,038	3.9	254,102,850	9.6	21,108
All other.....	4,535	1.5	9,124,061	.3	2,012
<b>Total.....</b>	<b>180,110</b>	<b>58.7</b>	<b>1,190,680,617</b>	<b>44.6</b>	<b>6,611</b>
<b>Grand total.....</b>	<b>307,062</b>	<b>100.0</b>	<b>2,668,158,494</b>	<b>100.0</b>	<b>8,689</b>

<sup>1</sup> Less than one-tenth of 1 per cent.

Permits were issued in these 311 cities for 307,062 new buildings at an estimated cost of \$2,668,158,494. Of the total number of buildings 126,952, or 41.3 per cent, were residential buildings and 180,110, or 58.7 per cent, nonresidential buildings.

Among the residential buildings 1-family dwellings were the most numerous. These single-family dwellings in 1929 comprised 34.1 per cent of the total number of new buildings for which permits were issued during 1929 in these 311 cities. Permits were issued, however, for more private garages than for 1-family dwellings, the 135,637 buildings to be used for the housing of automobiles being 44.2 per cent of the total number of new buildings. Stores and warehouses were the next most numerous class of nonresidential buildings. There were 855 churches and 748 amusement buildings among the new buildings for which permits were issued.

Residential buildings accounted for 55.4 per cent of the total estimated cost of the new buildings for which permits were issued in these 311 cities, and nonresidential buildings, 44.6 per cent. Permits issued in 310 cities in 1928 showed 61.8 per cent of the estimated expenditures for residential buildings and 38.2 per cent for nonresidential buildings.

The two classes of apartment houses accounted for 19.7 per cent of the total expenditure for new buildings in 1929, while 1-family dwellings accounted for 19.4 per cent. Hotels, which made up only one-tenth of 1 per cent of the number of new buildings, accounted for 10.7 per cent of the estimated costs.

Among nonresidential buildings the largest expenditure was for stores and warehouses, which made up 9.6 per cent of the estimated cost of all new buildings. Office buildings accounted for 9 per cent of the total estimated expenditure for all new buildings. The estimated cost of all the church buildings for which permits were issued in these cities was \$40,881,577, compared with \$43,215,396 for amusement buildings.

Institutional buildings, schools and libraries, public buildings, public works and utilities are built for the most part from public funds. These classes of buildings accounted for an expenditure of \$337,597,678 during 1929. This was 12.6 per cent of the total expenditures during the year.

The average cost of all new buildings for which permits were issued during 1929 was \$8,689. The average cost of the residential buildings was \$11,638. One-family dwellings averaged \$4,927, compared with \$4,922 in the 310 cities reporting for 1928. The 275 hotels for which permits were issued in the 311 cities reporting for 1929 averaged \$1,034,925 each. This was by far the most expensive class of building. The high average cost of hotels was largely accounted for by the costly hotels in New York. Plans were filed for 125 hotels in New York City at a cost of \$251,495,000, an average cost of over \$2,000,000 per building. Apartment houses averaged \$73,695 per building.

The average cost of the nonresidential buildings for which permits were issued in these 311 cities during 1929 was \$6,611. However, if we deduct the private garages and sheds from the total the average cost of the remaining nonresidential buildings was \$33,633. The average cost per building in the nonresidential group ranged from \$359 in the case of private garages to \$276,287 in the case of institutional buildings. Schools and libraries were the only other class of nonresidential buildings to average over \$100,000.

### Families Provided For

TABLE 2 shows the number and per cent of families provided for by each of the different kinds of dwellings for which permits were issued in 309 identical cities during the calendar years 1928 and 1929.

TABLE 2.—*Number and per cent of families to be housed in new dwellings for which permits were issued in 309 identical cities during the calendar years 1928 and 1929, by kind of dwelling*

Kind of dwelling	Number of new buildings for which permits were issued		Families provided			
			Number		Per cent	
	1928	1929	1928	1929	1928	1929
1-family dwellings.....	145,262	104,237	145,262	104,237	36.4	41.3
2-family dwellings.....	19,963	12,985	39,926	25,970	10.0	10.3
1-family and 2-family dwellings with stores combined.....	2,624	1,499	4,282	2,340	1.1	.9
Multifamily dwellings.....	12,070	6,657	190,346	111,845	47.6	44.4
Multifamily dwellings with stores combined.....	1,528	559	19,780	7,727	4.9	3.1
Total.....	181,447	125,937	399,596	252,119	100.0	100.0

In the 309 cities from which reports were received for both 1928 and 1929 dwelling places were provided for 252,119 families in 1929, compared with 399,596 during 1928. This is a decrease of 147,477, or 37 per cent, in the family accommodations provided by permits issued during 1929 as compared with 1928.

One-family dwellings provided for 145,262 families, or 36.4 per cent of the total number provided with dwelling accommodations under permits issued during 1928. During 1929, permits were issued for 104,237 one-family dwellings, which provided for 41.3 per cent of the total number of families cared for. Multifamily dwellings and multifamily dwellings with stores provided for 52.5 per cent of the total number of families accommodated in the new buildings for which permits were issued during 1928, but only 47.5 per cent of the total number of families during 1929. The percentage of families housed in 2-family dwellings rose from 10 per cent during 1928 to 10.3 per cent during 1929.

The apartment houses for which permits were issued during 1928 had accommodations for 15.5 families per building, while those for which permits were issued during 1929 provided for 16.6 families per building.

Table 3 shows the number and percentage distribution of families provided for in the different kinds of dwellings in the 257 identical cities from which reports were received each year from 1921 to 1929, inclusive.

TABLE 3.—*Number and per cent of families provided for in the different kinds of dwellings in 257 identical cities, 1921 to 1929, inclusive*

Year	Number of families provided for in—				Per cent of families provided for in—		
	1-family dwellings	2-family dwellings <sup>1</sup>	Multi-family dwellings <sup>2</sup>	All classes of dwellings	1-family dwellings	2-family dwellings <sup>1</sup>	Multi-family dwellings <sup>2</sup>
1921.....	130, 873	38, 858	54, 814	224, 545	58. 3	17. 3	24. 4
1922.....	179, 364	80, 252	117, 689	377, 305	47. 5	21. 3	31. 2
1923.....	207, 632	96, 344	149, 697	453, 673	45. 8	21. 2	33. 0
1924.....	210, 818	95, 019	137, 082	442, 919	47. 6	21. 5	30. 9
1925.....	226, 159	86, 145	178, 918	491, 222	46. 0	17. 5	36. 4
1926.....	188, 074	64, 298	209, 842	462, 214	40. 7	13. 9	45. 4
1927.....	155, 512	54, 320	196, 263	406, 095	38. 3	13. 4	48. 3
1928.....	136, 907	43, 098	208, 673	388, 678	35. 2	11. 1	53. 7
1929.....	98, 202	27, 372	118, 623	244, 197	40. 2	11. 2	48. 6

<sup>1</sup>Includes 1-family and 2-family dwellings with stores combined.

<sup>2</sup>Includes multifamily dwellings with stores combined.

For the first time since 1924 the percentage of families housed in multifamily dwellings is less than during the previous year, according to permits issued in 257 identical cities. During 1928, 53.7 per cent of the families provided for in the new dwellings for which permits were issued that year were in apartment houses, while in 1929 the percentage planned for in apartment houses fell to 48.6. This percentage is still higher, however, than for any other year except 1928. In 1921 the percentage of families provided for in apartment houses was 24.4. There has been an increase in this percentage each year over the previous year except for 1924 and 1929.

In contrast, 1-family dwellings showed an increase in percentage of total families provided for—the first time since 1924. In 1921, 58.3 per cent of the new family dwelling units for which permits were issued that year were in 1-family dwellings. This percentage decreased in 1922 and 1923, rose slightly in 1924, and then decreased each year until a low point of 35.2 per cent was reached in 1928. During 1929 the permits issued in these 257 cities show that 40.2 per cent of the new family housing units are in 1-family dwellings.

Two-family dwellings provided for 11.2 per cent of the new dwelling units in 1929. This compares with 17.3 per cent in 1921, and with a high of 21.5 per cent in 1924, and a low of 11.1 per cent in 1928.



Although the percentage of families provided for in 1-family dwellings increased appreciably in comparison with 1928, the actual number of families provided for in this class of dwelling was less than for any year since the compilation of these records. Only 98,202 families were provided with dwelling places during 1929, while during 1925, the peak year, 226,159 families were provided for in new 1-family dwellings.

There were fewer families provided for in 2-family dwellings during 1929 than during any year from 1921 to 1928.

The 118,623 families provided for in apartment houses is the lowest number of families provided for in this class of dwelling in these 257 cities since 1922. In 1926 dwelling units were provided in apartment houses for 209,842 families.

Only 244,197 families were provided for in all classes of dwellings during 1929. This is the lowest number provided for in any year since 1921. In 1921 dwelling places were provided in new buildings for 224,545 families. During 1925 there were 491,222 housing units provided in these 257 cities.

### Building Trend 1928 and 1929

TABLE 4 shows the number and cost of the different kinds of buildings for the 309 identical cities from which reports were received in 1928 and 1929, and the per cent of increase or decrease in the number and in the cost in 1929 as compared with 1928.

TABLE 4.—Number and cost of new buildings for which permits were issued in 309 identical cities during the calendar year 1928 and 1929, by kind of building

Kind of building	New buildings for which permits were issued				Per cent of increase (+) or decrease (-) in 1929 compared with 1928	
	1928		1929		Number	Cost
	Number	Cost	Number	Cost		
<b>RESIDENTIAL BUILDINGS</b>						
1-family dwellings.....	145,262	\$715,134,047	104,237	\$514,856,514	-28.2	-28.0
2-family dwellings.....	19,963	153,157,386	12,985	98,983,741	-35.0	-35.4
1-family and 2-family dwellings with stores combined.....	2,624	26,701,412	1,499	14,335,473	-42.9	-46.3
Multifamily dwellings.....	12,070	776,520,458	6,657	490,919,701	-44.8	-36.8
Multifamily dwellings with stores combined.....	1,528	90,754,524	559	34,826,808	-63.4	-61.6
Hotels.....	235	114,928,650	274	284,204,413	+16.6	+147.3
Lodging houses.....	37	780,576	23	428,569	-37.8	-45.1
All other.....	208	35,557,169	138	37,011,151	-33.7	+4.1
<b>Total residential buildings.....</b>	<b>181,927</b>	<b>1,913,534,222</b>	<b>126,372</b>	<b>1,475,566,370</b>	<b>-30.5</b>	<b>-22.9</b>
<b>NONRESIDENTIAL BUILDINGS</b>						
Amusement buildings.....	948	84,684,800	746	42,714,596	-21.3	-49.6
Churches.....	1,009	49,059,444	852	40,852,077	-15.6	-16.7
Factories and workshops.....	3,965	152,617,634	3,924	141,599,827	-1.0	-7.2
Public garages.....	3,839	70,690,689	4,063	49,170,962	+5.8	-30.4
Private garages.....	156,306	55,120,904	135,177	48,599,686	-13.5	-11.8
Service stations.....	4,511	14,888,382	4,187	19,886,265	-7.2	+33.6
Institutions.....	304	65,080,263	272	75,652,762	-10.5	+16.2
Office buildings.....	1,353	256,101,159	1,130	240,044,732	-16.5	-6.0
Public buildings.....	243	29,378,349	325	87,518,812	+33.7	+179.9
Public works and utilities.....	617	38,690,950	626	44,843,758	+21.1	+15.9
Schools and libraries.....	847	143,032,876	739	127,872,046	-12.8	-10.6
Sheds.....	11,718	4,891,477	10,621	4,447,784	-9.4	-9.1
Stables and barns.....	359	582,703	319	968,141	-11.2	+66.1
Stores and warehouses.....	13,098	211,875,365	11,993	253,596,940	-8.4	+19.8
All other.....	4,137	7,706,629	4,524	9,123,090	+9.4	+18.4
<b>Total nonresidential buildings.....</b>	<b>203,154</b>	<b>1,184,401,634</b>	<b>179,498</b>	<b>1,187,791,478</b>	<b>-11.6</b>	<b>+0.3</b>
<b>Grand total.....</b>	<b>385,081</b>	<b>3,097,935,856</b>	<b>305,870</b>	<b>2,663,357,848</b>	<b>-20.6</b>	<b>-14.5</b>

In the 309 cities reporting for both 1928 and 1929 there was a decrease of 14.5 per cent in the estimated cost of new buildings and a decrease of 20.6 per cent in the number of new buildings for which permits were issued in 1929, compared with those issued in 1928.

The decrease in estimated expenditures was caused by the large decrease in contemplated expenditures for residential buildings, as there was a slight increase in expenditures for nonresidential buildings.

Residential buildings decreased 30.5 per cent in number and 22.9 per cent in estimated costs. All classes of residential buildings except hotels showed a decrease in the number of buildings. There was an increase of 16.6 per cent in the number of hotel buildings for which permits were issued in 1929 compared with 1928. The decreases in the number of residential buildings ranged from 28.2 for 1-family dwellings to 63.4 for apartment houses with stores combined.

There was an increase in estimated expenditure for "other residential buildings" (which includes clubs and association buildings with bedrooms) and for hotels. The increase for "other residential" was 4.1 per cent and for hotels 147.3 per cent.

While there was a decrease of 11.6 per cent in the number of non-residential buildings for which permits were issued, there was an increase of three-tenths of 1 per cent in the estimated expenditures for this class of building.

Eleven kinds of nonresidential buildings showed a decrease in the number of buildings and four showed an increase, comparing 1929 permits with 1928 permits. The increases ranged from 5.8 per cent in the case of public garages to 33.7 per cent in the case of public buildings. The decreases ranged from 1 per cent for factories and workshops to 21.3 per cent for amusement buildings.

In estimated expenditures for the different classes of nonresidential buildings there was an increase in seven cases and a decrease in eight cases. The increases ranged from 15.9 per cent in expenditures for public works and utilities to 179.9 per cent in expenditures for public buildings.

This great increase in estimated expenditures for public buildings illustrates how public funds may be used to stimulate building in times when appropriations for other classes of buildings are decreasing.

### Per Capita Expenditure for Building

TABLE 5 shows the total and the per capita expenditures for new buildings, new housekeeping dwellings, repairs and additions, and for all kinds of buildings in each of the 311 cities for which reports were received for the calendar year 1929; the total number of families provided for and the ratio of families provided for to each 10,000 of population in these 311 cities; and the total expenditure for all classes of buildings for 309 cities in 1928.

In the 311 cities from which reports as to per capita expenditure were received for 1929 there was an expenditure of \$3,035,681,481 for building operations of all kinds, compared with \$3,423,584,461 in the 309 cities reporting for 1928. Of the total amount for which permits were issued in 1929, repairs and alterations accounted for \$367,522,987.

The population of the 311 cities which reported for 1929 was 44,940,049, according to the estimate of the Bureau of the Census as

of July 1, 1928. This is the latest estimate made. The per capita expenditure for all building operations in these 311 cities was \$67.55, made up of \$59.37 for new buildings and \$8.18 for repairs. Of the amount spent for new buildings, \$25.71 was for housekeeping dwellings.

The five leading cities in per capita expenditure were White Plains, N. Y., \$250.70; Houston, Tex., \$176.61; Yonkers, N. Y., \$176.14; Long Beach, Calif., \$173.17; and Evanston, Ill., \$172.19. All of these cities except Houston are medium-sized suburban cities.

Following is a list of the five leading cities in total estimated costs for the years 1920 to 1929, inclusive. In the 10 years for which data are shown only six cities have appeared in this yearly list of the five leading cities. New York, Chicago, Detroit, and Los Angeles have been among the leading five each year. Philadelphia has appeared in the list each year except in 1920 and 1921, when it was displaced by Cleveland.

New York is the only city among the leading five where the 1929 estimated costs were greater than the 1928 estimated costs.

*List of the five leading cities in total expenditure, 1920 to 1929, inclusive*

1920		1925	
New York.....	\$277, 695, 337	New York.....	\$1, 020, 604, 713
Chicago.....	84, 602, 650	Chicago.....	373, 803, 571
Detroit.....	77, 737, 215	Detroit.....	180, 132, 528
Cleveland.....	64, 198, 600	Philadelphia.....	171, 034, 280
Los Angeles.....	60, 023, 600	Los Angeles.....	152, 646, 436
1921		1926	
New York.....	442, 285, 248	New York.....	1, 039, 670, 572
Chicago.....	133, 027, 910	Chicago.....	376, 808, 480
Cleveland.....	86, 680, 023	Detroit.....	183, 721, 443
Los Angeles.....	82, 761, 386	Philadelphia.....	140, 093, 075
Detroit.....	58, 086, 053	Los Angeles.....	123, 006, 215
1922		1927	
New York.....	645, 176, 481	New York.....	880, 333, 455
Chicago.....	229, 853, 125	Chicago.....	365, 065, 042
Los Angeles.....	121, 206, 787	Detroit.....	145, 555, 647
Philadelphia.....	114, 190, 525	Los Angeles.....	123, 027, 139
Detroit.....	93, 614, 593	Philadelphia.....	117, 590, 650
1923		1928	
New York.....	789, 265, 335	New York.....	916, 671, 855
Chicago.....	334, 164, 404	Chicago.....	323, 509, 048
Los Angeles.....	200, 133, 181	Detroit.....	129, 260, 285
Detroit.....	129, 719, 831	Philadelphia.....	112, 225, 865
Philadelphia.....	128, 227, 405	Los Angeles.....	101, 678, 768
1924		1929	
New York.....	836, 043, 604	New York.....	942, 297, 219
Chicago.....	308, 911, 159	Chicago.....	210, 797, 640
Detroit.....	160, 547, 723	Philadelphia.....	104, 405, 545
Los Angeles.....	150, 147, 516	Detroit.....	100, 567, 497
Philadelphia.....	141, 402, 655	Los Angeles.....	93, 020, 160

During 1929 permits issued for new dwellings showed that homes were to be provided for 252,726 families, which is at the rate of 56.2 to each 10,000 of population.

Following is a list of the five leading home-building cities in proportion to population for each of the years 1921 to 1929, inclusive.

The figures show the number of families provided for per 10,000 of population according to the latest estimates available each year, as prepared by the Bureau of the Census. Long Beach is the only city included in the 1928 list which is also in the 1929 list.

It will be noted that Irvington, N. J., which was the last of the five in 1928, provided for more homes in proportion to its population than any of the five leading cities in 1929 except Long Beach.

1921		1925	
Long Beach, Calif.....	631.9	Miami, Fla. <sup>1</sup> .....	1,342.0
Los Angeles, Calif.....	320.9	San Diego, Calif.....	392.0
Pasadena, Calif.....	251.7	Tampa, Fla.....	379.3
Shreveport, La.....	249.8	Irvington, N. J.....	374.6
Lakewood, Ohio.....	191.3	Los Angeles, Calif. <sup>2</sup> .....	331.0
1922		1926	
Long Beach, Calif.....	1,081.0	St. Petersburg, Fla.....	700.3
Los Angeles, Calif.....	441.6	Mount Vernon, N. Y.....	644.7
Lakewood, Ohio.....	358.9	Irvington, N. J.....	398.6
Miami, Fla.....	268.1	White Plains, N. Y.....	367.2
East Cleveland, Ohio.....	267.6	San Diego, Calif.....	339.5
1923		1927	
Long Beach, Calif.....	1,038.1	Irvington, N. J.....	740.5
Los Angeles, Calif.....	657.4	White Plains, N. Y.....	419.5
Miami, Fla.....	611.1	Mount Vernon, N. Y.....	414.8
Irvington, N. J.....	432.1	Yonkers, N. Y.....	349.0
Lakewood, Ohio.....	381.5	East Orange, N. J.....	338.1
1924		1928	
Miami, Fla. <sup>1</sup> .....	2,248.9	Yonkers, N. Y.....	347.6
Irvington, N. J.....	501.2	Mount Vernon, N. Y.....	299.1
Los Angeles, Calif. <sup>2</sup> .....	448.3	White Plains, N. Y.....	298.3
San Diego, Calif.....	378.0	Long Beach, Calif.....	297.4
Long Beach, Calif.....	347.6	Irvington, N. J.....	295.4
1929			
Long Beach, Calif.....	306.9		
Phoenix, Ariz.....	236.3		
Houston, Tex.....	211.6		
Pontiac, Mich.....	208.8		
Wichita, Kans.....	159.1		

<sup>1</sup> The ratio of families provided for in Miami in 1924 was based on the population as estimated by the Census Bureau for that year. In the light of the actual census taken by State enumeration in 1925, it would seem that the estimate for 1924 was below the actual population for that year, hence the ratio here shown for 1924 is probably higher than the actual population in that year would warrant.

<sup>2</sup> Population not estimated in 1924 or 1925; 1923 estimate used.



TABLE 5.—Total and per capita expenditures for new buildings and for

City and State	Expenditure for new buildings 1929	Expenditure for repairs and additions 1929	Total expenditures		Expenditure for new house-keeping dwellings only, 1929
			1929	1928	
Akron, Ohio.....	\$20,776,927	\$862,716	\$21,639,643	\$19,485,096	\$10,092,658
Alameda, Calif.....	1,281,220	123,196	1,404,416	2,131,396	1,120,335
Albany, N. Y.....	7,120,678	1,914,312	9,034,990	14,893,525	3,584,100
Allentown, Pa.....	4,082,265	427,389	4,509,654	5,935,040	2,300,200
Alton, Ill.....	653,120	265,776	918,896	1,044,455	411,928
Altoona, Pa.....	1,625,638	358,277	1,983,915	3,360,907	869,435
Amsterdam, N. Y.....	955,032	96,400	1,051,432	683,675	408,182
Anderson, Ind.....	1,392,084	348,214	1,740,298	2,452,833	677,400
Asheville, N. C.....	1,970,916	265,372	2,236,288	3,095,110	428,650
Ashtabula, Ohio.....	571,559	79,200	650,759	513,872	77,650
Atlanta, Ga.....	9,304,051	3,259,804	12,563,855	27,394,779	4,355,853
Atlantic City, N. J.....	6,371,149	1,111,989	7,483,138	7,410,842	346,726
Auburn, N. Y.....	1,164,654	325,773	1,490,427	515,596	263,670
Augusta, Ga.....	836,307	300,354	1,136,661	1,550,944	555,532
Aurora, Ill.....	1,844,436	392,885	2,237,321	2,950,472	991,172
Austin, Tex.....	4,343,261	133,852	4,477,113	(*)	1,272,610
Baltimore, Md.....	24,954,100	8,220,800	33,174,900	33,945,350	12,937,200
Bangor, Me.....	566,875	30,890	597,765	625,610	173,300
Baton Rouge, La.....	457,385	125,171	582,556	(*)	238,897
Battle Creek, Mich.....	2,880,975	121,160	3,002,135	2,871,312	674,950
Bay City, Mich.....	618,126	690,845	1,308,971	1,844,896	256,700
Bayonne, N. J.....	917,445	189,685	1,107,130	1,995,365	163,500
Beaumont, Tex.....	1,798,514	783,132	2,581,646	4,326,769	1,235,734
Belleville, Ill.....	985,520	7,325	992,845	1,021,621	610,633
Bellingham, Wash.....	1,583,050	194,268	1,777,318	1,872,318	298,475
Berkeley, Calif.....	5,703,939	665,161	6,369,100	6,076,626	2,051,300
Bethlehem, Pa.....	2,104,052	801,140	2,905,192	3,843,006	1,188,775
Binghamton, N. Y.....	2,936,297	1,051,612	3,987,909	3,456,393	725,000
Birmingham, Ala.....	7,115,130	1,118,795	8,233,925	14,224,577	1,750,750
Bloomfield, N. J.....	3,329,187	369,360	3,698,547	4,540,600	2,496,700
Bloomington, Ill.....	1,032,300	86,000	1,118,300	1,352,800	823,000
Boston, Mass.....	43,222,865	10,611,606	53,834,471	55,698,557	14,629,712
Bridgeport, Conn.....	3,832,183	410,139	4,242,322	3,526,622	2,267,610
Brockton, Mass.....	1,182,653	279,881	1,462,534	1,725,858	513,200
Burlington, Mass.....	4,265,980	755,613	5,021,603	6,291,422	3,676,480
Buffalo, N. Y.....	22,802,515	1,324,985	24,127,500	24,401,983	6,290,920
Burlington, Iowa.....	360,705	210,562	571,267	443,771	164,800
Butler, Pa.....	419,375	40,320	459,695	388,836	160,600
Butte, Mont.....	338,292	109,180	447,472	366,440	-----
Cambridge, Mass.....	10,430,640	1,735,200	12,165,840	8,083,723	3,698,100
Camden, N. J.....	5,436,033	727,758	6,163,791	7,428,055	1,034,800
Canton, Ohio.....	3,127,957	328,240	3,456,197	3,662,318	1,764,465
Cedar Rapids, Iowa.....	2,328,837	577,132	2,905,969	2,438,230	580,664
Central Falls, R. I.....	674,475	51,922	726,397	303,345	202,900
Charleston, S. C.....	449,877	220,927	670,804	506,635	266,900
Charleston, W. Va.....	1,711,131	529,855	2,240,986	2,873,180	788,935
Charlotte, N. C.....	3,111,267	617,578	3,728,845	7,458,264	1,964,486
Chattanooga, Tenn.....	1,473,719	787,147	2,260,866	4,703,486	702,827
Chelsea, Mass.....	683,065	119,156	802,221	1,163,715	163,000
Chester, Pa.....	809,060	280,350	1,089,410	1,746,542	435,450
Chicago, Ill.....	203,681,325	7,116,315	210,797,640	323,509,048	87,004,750
Chicopee, Mass.....	1,321,475	120,350	1,441,825	1,275,565	310,850
Cicero, Ill.....	3,248,097	361,321	3,609,418	3,860,080	2,022,200
Cincinnati, Ohio.....	28,306,405	2,730,660	31,037,065	35,458,730	12,898,160
Clarksburg, W. Va.....	441,905	56,050	497,955	1,189,385	229,700
Cleveland, Ohio.....	27,982,125	9,800,375	37,782,500	56,158,525	11,628,800
Clifton, N. J.....	2,379,570	85,895	2,465,465	3,542,055	1,710,600
Colorado Springs, Colo.....	2,755,802	274,224	3,030,026	1,821,495	345,875
Columbia, S. C.....	1,060,490	194,215	1,254,705	1,609,775	667,575
Columbus, Ga.....	750,619	204,392	955,011	1,154,002	575,060
Columbus, Ohio.....	9,148,100	1,464,950	10,613,050	16,237,250	6,058,650
Council Bluffs, Iowa.....	469,750	204,300	674,050	810,250	247,000
Covington, Ky.....	1,248,400	231,025	1,479,425	1,591,750	446,500
Cranston, R. I.....	2,566,818	82,490	2,649,308	3,710,249	2,147,000
Cumberland, Md.....	462,758	87,742	550,500	999,548	1,123,482
Dallas, Tex.....	7,461,643	2,198,017	9,659,660	8,088,999	2,753,798
Danville, Ill.....	775,457	354,519	1,129,976	915,348	439,250
Davenport, Iowa.....	1,967,703	374,053	2,341,756	1,349,741	767,651
Dayton, Ohio.....	4,476,327	1,866,348	6,342,675	10,358,378	947,677
Decatur, Ill.....	3,647,465	242,750	3,890,215	4,169,345	1,127,950

\* Not estimated by Census Bureau.

† Estimated as of July 1, 1928.

‡ State census Jan. 1, 1925.

repairs, and families provided for in 311 cities in the calendar year 1929

City and State	Estimated population July 1, 1928	Families provided for		Per capita expenditure 1929				Per capita expenditure for house-keeping dwellings only, 1929
		Number	Ratio per 10,000	For new buildings	For repairs and additions	Total	Rank of City	
Akron, Ohio	(1)	2,171						
Alameda, Calif.	* 32,400	404	124.7	\$39.54	\$3.80	\$43.35	125	\$34.58
Albany, N. Y.	120,400	385	32.0	59.14	15.90	75.04	42	29.77
Allentown, Pa.	99,400	397	39.9	41.07	4.30	45.37	114	23.14
Alton, Ill.	* 26,797	105	39.2	24.37	9.92	34.29	178	15.37
Altoona, Pa.	69,100	191	27.6	23.53	5.18	28.71	204	12.58
Amsterdam, N. Y.	36,200	52	14.4	26.38	2.66	29.05	203	11.28
Anderson, Ind.	* 34,600	215	62.1	40.23	10.06	50.30	102	19.58
Asheville, N. C.	* 32,000	120	37.5	61.59	8.29	69.88	49	13.40
Ashtabula, Ohio	* 25,500	16	6.3	22.41	3.11	25.52	222	3.05
Atlanta, Ga.	255,100	1,389	54.4	36.47	12.78	49.25	104	17.08
Atlantic City, N. J.	54,700	52	9.5	116.47	20.33	136.80	8	63.39
Auburn, N. Y.	* 35,677	50	14.0	32.65	9.13	41.78	134	7.39
Augusta, Ga.	56,700	207	36.5	14.75	5.30	20.05	245	9.80
Aurora, Ill.	47,100	192	40.8	39.16	8.34	47.50	107	21.04
Austin, Tex.	* 45,133	545	120.8	96.23	2.97	99.20	25	28.20
Baltimore, Md.	830,400	3,022	36.4	30.05	9.90	39.95	146	15.58
Bangor, Me.	* 26,800	36	13.4	21.15	1.15	22.30	233	6.47
Baton Rouge, La.	* 27,832	62	22.3	16.43	4.50	20.93	239	8.58
Battle Creek, Mich.	47,200	169	35.8	61.03	2.57	63.60	67	14.30
Bay City, Mich.	49,600	63	12.7	12.46	13.93	26.39	218	5.18
Bayonne, N. J.	95,300	58	6.1	9.63	1.99	11.62	276	1.72
Beaumont, Tex.	56,300	437	77.6	31.95	13.91	45.86	111	21.95
Belleville, Ill.	* 26,969	127	47.1	36.54	0.27	36.81	159	22.64
Bellingham, Wash.	* 26,300	126	47.9	60.19	7.39	67.58	58	11.35
Berkeley, Calif.	71,000	587	82.7	80.34	9.37	89.71	35	28.89
Bethlehem, Pa.	67,600	201	29.7	31.13	11.85	42.98	127	17.59
Binghamton, N. Y.	74,800	169	22.6	39.26	14.06	53.31	90	9.69
Birmingham, Ala.	222,400	686	30.8	31.99	5.03	37.02	158	7.87
Bloomfield, N. J.	(1)	476						
Bloomington, Ill.	* 30,700	114	37.1	33.63	2.80	36.43	164	26.81
Boston, Mass.	799,200	3,327	41.6	54.08	13.28	67.36	59	18.31
Bridgeport, Conn.	* 143,535	541	37.7	26.70	2.86	29.56	198	15.80
Brockton, Mass.	* 65,343	97	14.8	18.16	4.28	22.45	232	7.85
Brookline, Mass.	45,700	362	79.2	93.35	16.53	109.88	17	80.45
Buffalo, N. Y.	555,800	1,769	31.8	41.03	2.38	43.41	124	11.32
Burlington, Iowa	* 27,100	52	19.2	13.31	7.77	21.08	238	6.08
Butler, Pa.	* 25,230	31	12.3	16.62	1.60	18.22	250	6.72
Butte, Mont.	43,600	0	0	7.76	2.50	10.26	281	0
Cambridge, Mass.	125,800	788	62.6	82.91	13.79	96.71	29	29.40
Camden, N. J.	135,400	320	23.6	40.15	5.37	45.52	112	7.64
Canton, Ohio	116,800	331	28.3	26.78	2.81	29.59	197	15.11
Cedar Rapids, Iowa	58,200	113	19.4	40.01	9.92	49.93	103	9.98
Central Falls, R. I.	* 25,700	60	23.3	26.24	2.02	28.26	205	7.89
Charleston, S. C.	75,900	97	12.8	5.93	2.91	8.84	284	3.52
Charleston, W. Va.	55,200	262	47.5	31.00	9.60	40.60	142	14.29
Charlotte, N. C.	82,100	500	60.9	37.90	7.52	45.42	113	23.93
Chattanooga, Tenn.	73,500	324	44.1	20.05	10.71	30.76	193	9.56
Chelsea, Mass.	49,800	36	7.2	13.72	2.39	16.11	258	3.27
Chester, Pa.	74,200	98	13.2	10.90	3.91	14.82	264	5.87
Chicago, Ill.	3,157,400	18,837	59.7	64.51	2.25	66.76	62	27.56
Chicopee, Mass.	45,400	80	17.6	29.11	2.65	31.76	190	6.85
Cicero, Ill.	71,600	328	45.8	45.36	5.05	50.41	101	28.24
Cincinnati, Ohio	413,700	2,077	50.2	68.42	6.60	75.02	43	31.18
Clarksburg, W. Va.	* 30,900	66	21.4	14.30	1.81	16.12	257	7.43
Cleveland, Ohio	1,010,300	2,143	21.2	27.70	9.70	37.40	155	11.51
Clifton, N. J.	* 36,200	359	99.2	65.73	2.37	68.11	54	47.25
Colorado Springs, Colo.	(1)	65						
Columbia, S. C.	50,600	230	45.5	20.96	3.84	24.80	225	13.79
Columbus, Ga.	46,600	276	59.2	16.11	4.39	20.49	242	12.34
Columbus, Ohio	299,000	1,211	40.5	30.60	4.90	35.50	169	20.26
Council Bluffs, Iowa	42,300	79	18.7	11.11	4.83	15.93	260	5.84
Covington, Ky.	59,000	159	26.9	21.16	3.92	25.07	223	7.57
Cranston, R. I.	37,500	448	119.5	68.45	2.20	70.65	48	57.25
Cumberland, Md.	* 34,400	63	18.3	13.45	2.55	16.00	259	9.08
Dallas, Tex.	217,800	1,145	52.6	34.26	10.09	44.35	118	12.64
Danville, Ill.	38,800	115	29.6	19.99	9.14	29.12	202	11.32
Davenport, Iowa	* 52,469	166	31.6	37.50	7.13	44.63	117	14.63
Dayton, Ohio	184,500	212	11.5	24.26	10.12	34.38	174	5.14
Decatur, Ill.	57,100	212	37.1	63.88	4.25	68.13	53	19.75

\* Data not collected.

\* Special census.

\* Estimate of July 1, 1925.

TABLE 5.—Total and per capita expenditures for new buildings and for repairs,

City and State	Expenditure for new buildings 1929	Expenditure for repairs and additions 1929	Total expenditures		Expenditure for new house-keeping dwellings only, 1929
			1929	1928	
Denver, Colo.....	\$14,636,100	\$1,940,150	\$16,576,250	\$16,770,750	\$6,087,850
Des Moines, Iowa.....	3,254,476	827,152	4,081,628	4,509,980	1,672,850
Detroit, Mich.....	85,028,309	15,539,188	100,567,497	129,260,285	51,741,509
Dubuque, Iowa.....	840,142	93,568	933,710	877,386	209,933
Duluth, Minn.....	2,879,746	805,983	3,685,729	3,289,404	684,845
Durham, N. C.....	1,618,399	244,614	1,863,013	9,905,838	819,056
East Chicago, Ind.....	5,151,206	156,132	5,307,338	3,481,904	870,902
East Cleveland, Ohio.....	1,574,476	83,877	1,658,353	1,789,252	358,500
Easton, Pa.....	1,696,341	308,410	2,004,751	733,008	108,368
East Orange, N. J.....	5,463,728	481,962	5,945,690	7,632,385	2,889,500
East Providence, R. I.....	2,613,578	291,131	2,904,709	3,090,101	1,112,792
East St. Louis, Ill.....	2,200,343	191,511	2,391,854	2,706,934	1,246,105
Elgin, Ill.....	1,149,148	231,211	1,380,359	2,369,646	711,385
Elizabeth, N. J.....	4,094,700	-----	4,094,700	5,503,600	2,085,000
Elkhart, Ind.....	830,616	230,021	1,060,637	1,063,889	426,050
Elmira, N. Y.....	1,145,333	373,364	1,518,697	1,905,717	557,435
El Paso, Tex.....	4,000,446	324,405	4,324,851	2,144,225	1,952,824
Erie, Pa.....	3,726,856	2,704,182	6,431,038	4,763,688	1,679,209
Evanston, Ill.....	7,331,950	864,350	8,196,300	13,178,225	3,320,000
Evansville, Ind.....	4,094,775	325,885	4,420,660	5,110,814	1,996,900
Everett, Mass.....	815,330	309,202	1,124,532	1,760,759	305,800
Everett, Wash.....	610,665	597,270	1,207,935	1,186,590	258,740
Fall River, Mass.....	556,477	235,779	792,256	2,835,644	204,150
Fitchburg, Mass.....	311,016	235,344	546,360	822,350	190,600
Flint, Mich.....	12,743,955	1,940,538	14,684,493	14,422,729	8,192,621
Fond du Lac, Wis.....	647,102	147,945	795,047	579,130	175,180
Fort Wayne, Ind.....	5,793,761	1,245,531	7,039,292	5,011,124	2,865,708
Fort Worth, Tex.....	10,270,117	991,929	11,262,046	11,543,787	4,546,476
Fresno, Calif.....	1,164,443	534,330	1,698,773	1,661,565	680,825
Galveston, Tex.....	3,273,342	339,820	3,613,162	2,676,808	1,196,152
Gary Ind.....	2,526,970	619,365	3,146,335	6,041,150	1,168,400
Grand Rapids, Mich.....	5,011,560	1,075,425	6,086,985	8,186,755	2,166,100
Great Falls, Mont.....	3,205,532	251,130	3,456,662	2,659,482	1,005,652
Green Bay, Wis.....	3,033,707	295,118	3,328,825	1,991,861	1,358,410
Greensboro, N. C.....	2,693,443	440,422	3,133,865	5,048,295	961,064
Greenville, S. C.....	957,855	213,248	1,171,103	1,440,143	475,975
Greenwich, Conn.....	6,239,601	602,040	6,841,641	6,604,380	5,185,640
Hagerstown, Md.....	684,876	72,070	756,946	677,234	409,825
Hamilton, Ohio.....	1,745,758	665,594	2,411,352	2,063,033	1,010,094
Hammond, Ind.....	3,748,150	406,150	4,154,300	6,527,280	1,294,800
Hamtramck, Mich.....	593,200	472,415	1,065,615	1,344,975	36,500
Harrisburg, Pa.....	7,034,130	923,400	7,957,530	5,594,775	765,000
Hartford, Conn.....	12,249,797	3,894,557	16,144,354	11,278,443	1,459,800
Haverhill, Mass.....	226,285	164,355	390,640	554,065	130,800
Hazleton, Pa.....	297,902	150,345	448,247	1,195,010	114,728
Highland Park, Mich.....	2,037,515	289,855	2,327,370	2,603,277	995,500
Hoboken, N. J.....	338,400	409,477	747,877	564,963	33,500
Holyoke, Mass.....	729,225	527,070	1,256,295	1,261,100	346,000
Houston, Tex.....	28,595,040	538,214	29,133,254	35,309,503	13,587,172
Huntington, W. Va.....	1,413,300	42,060	1,455,360	981,600	163,900
Hutchinson, Kans.....	1,512,897	73,585	1,586,482	1,269,112	524,480
Indianapolis, Ind.....	13,184,957	1,653,626	14,843,583	21,967,386	7,033,895
Irvington, N. J.....	1,961,673	172,570	2,134,243	6,639,294	804,850
Jackson, Mich.....	2,713,170	778,873	3,492,043	2,097,068	1,059,850
Jacksonville, Fla.....	3,630,792	949,345	4,580,137	7,660,159	1,615,700
Jamestown, N. Y.....	1,586,185	341,018	1,927,203	1,846,870	861,250
Jersey City, N. J.....	13,445,226	1,139,578	14,584,804	13,876,244	4,623,380
Johnstown, Pa.....	468,814	213,527	682,341	1,095,094	265,550
Joliet, Ill.....	2,918,360	415,322	3,333,682	3,081,620	1,455,800
Joplin, Mo.....	567,925	77,255	645,180	1,403,739	197,250
Kalamazoo, Mich.....	2,031,693	377,892	2,409,585	2,034,864	667,390
Kansas City, Kans.....	1,764,671	79,740	1,844,411	1,651,277	658,350
Kansas City, Mo.....	13,936,600	907,950	14,844,550	15,541,275	7,026,800
Kearny, N. J.....	3,761,334	86,194	3,847,528	6,261,590	1,024,200
Kenosha, Wis.....	3,684,900	892,174	4,577,074	3,726,404	2,128,878

<sup>1</sup> Not estimated by Census Bureau.<sup>2</sup> Estimated as of July 1, 1926.



and families provided for in 311 cities in the calendar year 1929—Continued

City and State	Estimated population July 1, 1928	Families provided for		Per capita expenditure 1929				Per capita expenditure for housing dwellings only, 1929
		Number	Ratio per 10,000	For new buildings	For repairs and additions	Total	Rank of City	
Denver, Colo.....	294,200	1,608	54.7	\$49.75	\$6.59	\$56.34	85	\$20.69
Des Moines, Iowa.....	151,900	348	22.9	21.43	5.45	26.87	215	11.01
Detroit, Mich.....	1,378,900	12,151	88.1	61.66	11.27	72.93	46	37.52
Dubuque, Iowa.....	42,300	68	16.1	17.50	2.21	19.71	247	4.96
Duluth, Minn.....	116,800	115	9.8	24.66	6.90	31.56	191	5.86
Durham, N. C.....	47,600	205	43.1	34.00	5.14	39.14	147	17.21
East Chicago, Ind.....	50,800	84	16.5	101.40	3.07	104.47	20	17.14
East Cleveland, Ohio.....	39,400	30	7.6	39.96	2.13	42.09	131	9.10
Easton, Pa.....	38,400	18	4.7	44.18	8.03	52.21	96	2.82
East Orange, N. J.....	65,000	500	76.9	84.06	7.41	91.47	34	44.45
East Providence, R. I.....	27,100	219	80.8	96.44	10.74	107.18	19	41.06
East St. Louis, Ill.....	74,000	379	51.2	29.73	2.59	32.32	187	16.84
Elgin, Ill.....	36,000	144	40.0	31.92	6.42	38.34	150	19.76
Elizabeth, N. J.....	(1)	514	.....	.....	.....	.....	.....	.....
Elkhart, Ind.....	(1)	107	.....	.....	.....	.....	.....	.....
Elmira, N. Y.....	50,000	72	14.4	22.91	7.47	30.37	194	11.15
El Paso, Tex.....	117,800	691	58.7	33.96	2.75	36.71	161	16.58
Erie, Pa.....	(1)	393	.....	.....	.....	.....	.....	.....
Evanston, Ill.....	47,600	386	81.1	154.03	18.16	172.19	5	69.75
Evansville, Ind.....	98,100	458	46.7	41.74	3.32	45.06	115	20.36
Everett, Mass.....	43,300	81	18.7	18.83	7.14	25.97	221	7.06
Everett, Wash.....	29,303	123	42.0	20.84	20.38	41.23	140	8.83
Fall River, Mass.....	134,300	48	3.6	4.14	1.76	5.90	290	1.52
Fitchburg, Mass.....	45,200	33	7.3	6.88	5.21	12.09	273	4.22
Flint, Mich.....	148,800	2,076	139.5	85.64	13.04	98.69	27	55.06
Fond du Lac, Wis.....	26,500	47	17.7	24.42	5.58	30.00	195	6.61
Fort Wayne, Ind.....	105,300	578	54.9	55.02	11.83	66.85	60	27.21
Fort Worth, Tex.....	170,600	1,262	74.0	60.20	5.81	66.01	63	26.65
Fresno, Calif.....	64,000	187	29.2	18.19	8.35	26.54	216	10.64
Galveston, Tex.....	50,600	350	69.2	64.69	6.72	71.41	47	23.64
Gary, Ind.....	89,100	375	42.1	28.36	6.95	35.31	171	13.11
Grand Rapids, Mich.....	164,200	589	35.9	30.52	6.55	37.07	157	13.19
Great Falls, Mont.....	30,900	293	94.8	103.74	8.13	111.87	16	32.55
Green Bay, Wis.....	36,100	185	51.2	84.04	8.18	92.21	32	37.63
Greensboro, N. C.....	51,900	268	51.6	51.90	8.49	60.38	77	18.52
Greenville, S. C.....	28,100	97	34.5	34.09	7.59	41.68	135	16.94
Greenwich, Conn.....	(1)	282	.....	.....	.....	.....	.....	.....
Hagerstown, Md.....	32,000	90	28.1	21.40	2.25	23.65	229	12.81
Hamilton, Ohio.....	44,200	261	59.0	39.50	15.06	54.56	87	22.85
Hammond, Ind.....	56,000	312	55.7	66.93	7.25	74.18	45	23.12
Hamtramck, Mich.....	99,800	8	8	5.94	4.73	10.68	279	3.37
Harrisburg, Pa.....	86,900	140	16.1	80.95	10.63	91.57	33	8.80
Hartford, Conn.....	172,300	281	16.3	71.10	22.60	93.70	31	8.47
Haverhill, Mass.....	49,232	45	9.1	4.60	3.34	7.94	286	2.66
Hazleton, Pa.....	38,300	18	4.7	7.78	3.93	11.70	275	3.00
Highland Park, Mich.....	86,400	250	28.9	23.58	3.35	26.94	214	11.52
Hoboken, N. J.....	(1)	4	.....	.....	.....	.....	.....	.....
Holyoke, Mass.....	60,400	52	8.6	12.07	8.73	20.80	241	5.73
Houston, Tex.....	164,954	3,490	211.6	173.35	3.26	176.61	2	82.37
Huntington, W. Va.....	68,600	49	7.1	20.60	.61	21.22	236	2.39
Hutchinson, Kans.....	(1)	148	.....	.....	.....	.....	.....	.....
Indianapolis, Ind.....	382,100	1,760	46.1	34.51	4.34	38.85	149	18.40
Irvington, N. J.....	34,600	170	49.1	56.70	4.99	61.68	74	23.26
Jackson, Mich.....	63,700	218	34.2	42.59	12.23	54.82	86	16.64
Jacksonville, Fla.....	140,700	638	45.3	25.81	6.75	32.55	186	11.48
Jamestown, N. Y.....	46,000	206	44.8	34.48	7.41	41.90	132	18.72
Jersey City, N. J.....	324,700	1,388	42.7	41.41	3.51	44.92	116	14.24
Johnstown, Pa.....	73,700	46	6.2	6.36	2.90	9.26	282	3.60
Joliet, Ill.....	41,900	188	44.9	69.65	9.91	79.56	40	34.74
Joplin, Mo.....	(1)	63	.....	.....	.....	.....	.....	.....
Kalamazoo, Mich.....	56,400	160	28.4	36.02	6.70	42.72	128	11.83
Kansas City, Kans.....	118,300	271	22.9	14.92	.67	15.59	261	5.57
Kansas City, Mo.....	391,000	2,234	57.1	35.64	2.32	37.97	153	17.97
Kearny, N. J.....	32,100	261	81.3	117.18	2.69	119.86	11	31.91
Kenosha, Wis.....	56,500	296	52.4	65.22	15.79	81.01	39	37.68

\* State census Jan. 1, 1925.

\* Estimate of July 1, 1925.

TABLE 5.—Total and per capita expenditures for new buildings and for repairs,

City and State	Expenditure for new buildings 1929	Expenditure for repairs and additions 1929	Total expenditures		Expenditure for new house-keeping dwellings only, 1929
			1929	1928	
Kingston, N. Y.	\$569,620	\$565,844	\$1,135,464	\$1,736,790	\$290,500
Knoxville, Tenn.	5,323,385	175,467	5,498,852	7,114,537	1,991,975
Kokomo, Ind.	1,128,046	219,845	1,347,891	526,666	228,100
Lakewood, Ohio.	1,731,390	98,990	1,830,380	4,622,096	1,109,800
Lancaster, Pa.	1,514,558	467,138	1,981,696	2,389,075	745,950
Lansing, Mich.	8,190,269	547,625	8,737,894	5,204,347	2,687,183
Lawrence, Mass.	455,056	399,440	854,496	602,635	69,500
Lebanon, Pa.	700,000	92,000	792,000	660,325	100,000
Lewiston, Me.	386,300	80,000	466,300	990,000	192,000
Lexington, Ky.	1,664,124	451,428	2,115,552	1,617,418	364,930
Lima, Ohio.	176,725	254,390	431,115	454,434	19,500
Lincoln, Nebr.	2,329,358	230,740	2,560,098	3,643,349	1,381,350
Little Rock, Ark.	2,626,958	641,259	3,268,217	4,260,108	1,406,457
Long Beach, Calif.	17,427,240	616,575	18,043,815	16,307,825	8,553,430
Lorain, Ohio.	693,461	204,660	898,121	1,177,374	622,800
Los Angeles, Calif.	80,819,231	12,200,929	93,020,160	101,678,768	45,396,991
Louisville, Ky.	11,056,000	2,148,910	13,204,910	18,120,075	5,110,600
Lowell, Mass.	298,550	405,025	703,575	941,750	146,425
Lynchburg, Va.	818,535	184,242	1,002,777	1,093,083	337,655
Lynn, Mass.	2,885,578	1,056,321	3,941,899	3,786,804	1,740,800
McKeesport, Pa.	1,305,993	368,215	1,674,208	2,184,985	1,021,270
Macon, Ga.	601,902	385,723	987,625	2,349,689	285,040
Madison, Wis.	4,286,327	688,156	4,974,483	7,630,114	2,209,550
Malden, Mass.	1,668,212	225,736	1,893,948	2,892,944	1,260,400
Manchester, N. H.	884,714	356,539	1,241,253	1,058,719	396,035
Mansfield, Ohio.	863,153	253,802	1,116,955	1,808,874	659,830
Marion, Ind.	226,190	76,110	302,300	1,307,160	90,050
Marion, Ohio.	491,680	15,490	507,170	1,140,285	190,450
Medford, Mass.	2,831,685	651,810	3,483,495	4,514,833	2,243,000
Memphis, Tenn.	6,664,897	1,396,649	8,061,546	14,283,039	4,248,865
Meriden, Conn.	1,073,610	204,670	1,278,280	1,268,721	607,600
Miami, Fla.	2,754,848	860,168	3,615,016	1,946,063	672,920
Milwaukee, Wis.	32,284,424	5,662,819	37,947,243	35,406,381	14,943,575
Minneapolis, Minn.	16,490,360	4,469,775	20,960,135	23,267,725	6,223,010
Mobile, Ala.	1,484,465	182,423	1,666,888	3,345,818	644,722
Moline, Ill.	1,838,764	385,755	2,224,519	1,659,775	857,300
Montclair, N. J.	2,576,159	793,812	3,369,971	4,643,288	2,242,130
Montgomery, Ala.	2,346,390	422,209	2,768,599	3,288,918	1,293,070
Mount Vernon, N. Y.	4,545,630	1,633,613	6,179,243	14,262,449	2,558,200
Muncie, Ind.	1,596,704	464,463	2,061,167	2,874,148	903,292
Muskegon, Mich.	2,071,315	404,089	2,475,404	1,810,335	575,035
Muskogee, Okla.	353,731	72,430	426,161	565,585	100,050
Nashville, Tenn.	4,656,212	1,038,833	5,695,045	5,564,643	2,247,497
Newark, N. J.	23,920,724	4,917,496	28,838,220	34,285,153	3,726,480
Newark, Ohio.	654,565	22,995	677,560	1,066,916	312,400
New Bedford, Mass.	563,180	225,375	788,555	1,095,375	116,400
New Britain, Conn.	789,373	316,426	1,105,799	3,532,117	627,800
New Brunswick, N. J.	1,385,003	175,616	1,560,619	2,184,065	787,768
Newburgh, N. Y.	852,220	250,127	1,102,347	1,237,967	337,700
New Castle, Pa.	993,885	115,900	1,109,785	1,466,240	364,450
New Haven, Conn.	11,593,120	1,169,126	12,762,246	8,798,394	1,392,300
New London, Conn.	1,333,458	277,700	1,611,158	2,188,652	832,900
New Orleans, La.	9,987,930	1,982,920	11,970,850	12,627,678	2,679,574
Newport, Ky.	259,775	30,975	290,750	426,950	163,400
Newport, R. I.	1,436,230	210,745	1,646,975	680,065	644,700
Newport News, Va.	456,561	313,066	769,627	819,305	189,523
New Rochelle, N. Y.	6,662,276	922,663	7,584,939	11,233,318	4,629,800
Newton, Mass.	6,150,671	706,374	6,857,045	10,802,078	5,635,350
New York City, N. Y.	864,363,206	77,934,013	942,297,219	916,671,855	344,128,175
Niagara Falls, N. Y.	4,366,555	703,737	5,070,292	4,869,478	1,672,674
Norfolk, Va.	2,183,121	547,085	2,730,206	3,839,743	1,062,875
Norristown, Pa.	1,581,804	298,255	1,880,059	1,294,965	545,530
Norwalk, Conn.	3,121,710	408,035	3,529,745	4,781,703	1,872,600
Oakland, Calif.	12,461,007	1,935,181	14,396,188	19,537,165	6,194,212
Oak Park, Ill.	5,490,080	230,815	5,720,895	9,290,495	2,750,060
Ogden, Utah.	511,195	189,500	700,695	1,348,225	191,700
Oklahoma City, Okla.	20,478,055	2,022,575	22,500,630	13,521,998	10,251,795
Oklmulgee, Okla.	84,200	57,750	141,950	252,965	10,000
Omaha, Nebr.	3,742,872	1,838,625	5,581,497	9,050,410	1,924,200

<sup>1</sup> Not estimated by Census Bureau.

<sup>2</sup> Estimated as of July 1, 1926.

and families provided for in 311 cities in the calendar year 1929—Continued

City and State	Estimated population July 1, 1928	Families provided for		Per capita expenditure 1929				Per capita expenditure for house-keeping dwellings only, 1929
		Number	Ratio per 10,000	For new buildings	For repairs and additions	Total	Rank of City	
Kingston, N. Y.	28,400	53	18.7	\$20.06	\$19.92	\$39.98	145	\$10.23
Knoxville, Tenn.	105,400	472	44.8	50.51	1.66	52.17	98	18.90
Kokomo, Ind.	40,400	75	18.6	27.92	5.44	33.36	183	5.65
Lakewood, Ohio.	65,000	203	31.2	26.64	1.62	28.16	207	17.07
Lancaster, Pa.	58,300	156	26.8	25.98	8.01	33.99	180	12.80
Lansing, Mich.	79,600	537	67.5	102.89	6.88	109.77	18	33.76
Lawrence, Mass.	93,500	22	2.4	4.87	4.27	9.14	283	.74
Lebanon, Pa.	25,300	19	7.5	27.67	3.64	31.30	192	3.95
Lewiston, Me.	36,600	49	13.4	10.55	2.19	12.74	272	5.25
Lexington, Ky.	48,700	133	27.3	34.17	9.27	43.44	123	7.49
Lima, Ohio.	49,700	6	1.2	3.56	5.12	8.67	285	.39
Lincoln, Nebr.	71,100	346	48.7	32.76	3.25	36.01	167	19.43
Little Rock, Ark.	79,200	356	44.9	33.17	8.10	41.27	138	17.76
Long Beach, Calif.	104,200	3,198	306.9	167.25	5.92	173.17	4	82.09
Lorain, Ohio.	44,900	170	37.9	15.44	4.56	20.00	246	13.87
Los Angeles, Calif.	(1)	15,234						
Louisville, Ky.	329,400	1,427	43.3	33.56	6.52	40.09	144	15.51
Lowell, Mass.	110,296	37	3.4	2.71	3.67	6.38	289	1.33
Lynchburg, Va.	38,600	92	23.8	21.21	4.77	25.98	220	8.75
Lynn, Mass.	105,500	475	45.0	27.35	10.01	37.36	156	16.50
McKeesport, Pa.	50,400	174	34.5	25.91	7.31	33.22	185	20.26
Macon, Ga.	61,200	73	11.9	9.84	6.30	16.14	256	4.66
Madison, Wis.	50,500	499	98.8	84.88	13.63	98.50	28	43.75
Malden, Mass.	53,400	332	62.2	31.24	4.23	35.47	170	23.60
Manchester, N. H.	85,700	100	11.7	10.32	4.16	14.48	266	4.62
Mansfield, Ohio.	32,500	115	35.4	26.56	7.81	34.37	176	20.30
Marion, Ind.	(1)	38						
Marion, Ohio.	33,400	69	20.7	14.72	0.46	15.18	263	5.70
Medford, Mass.	52,900	438	82.8	53.53	12.32	65.85	64	42.40
Memphis, Tenn.	190,200	1,246	65.5	35.04	7.34	42.38	130	22.34
Meriden, Conn.	37,100	120	32.3	28.94	5.62	34.56	173	16.38
Miami, Fla.	156,700	112	7.1	17.58	5.49	23.07	231	4.29
Milwaukee, Wis.	544,200	3,848	70.7	59.32	10.41	69.73	50	27.46
Minneapolis, Minn.	455,900	1,570	34.4	36.17	9.80	45.98	110	13.65
Mobile, Ala.	69,600	239	43.0	21.33	2.62	23.95	228	9.28
Moline, Ill.	35,600	163	45.8	51.65	10.84	62.49	71	24.08
Montclair, N. J.	33,700	165	49.0	76.44	23.56	100.00	24	66.53
Montgomery, Ala.	63,100	488	77.3	37.19	6.69	43.88	120	20.49
Mount Vernon, N. Y.	54,700	325	59.4	83.10	29.86	112.97	14	46.77
Muncie, Ind.	46,800	319	68.2	34.12	9.92	44.04	119	19.30
Muskegon, Mich.	46,600	161	33.7	44.45	8.67	53.12	92	12.84
Muskogee, Okla.	33,200	46	13.9	10.65	2.18	12.84	271	3.01
Nashville, Tenn.	139,600	781	55.9	33.35	7.44	40.80	141	16.10
Newark, N. J.	473,600	693	14.6	50.51	10.33	60.89	76	7.87
Newark, Ohio.	30,600	97	31.7	21.39	0.75	22.14	234	10.21
New Bedford, Mass.	119,539	18	1.5	4.71	1.89	6.60	288	0.97
New Britain, Conn.	72,800	130	17.9	10.84	4.35	15.19	262	8.62
New Brunswick, N. J.	40,800	195	47.8	33.95	4.30	38.25	151	19.31
Newburgh, N. Y.	30,400	57	18.8	28.03	8.23	36.26	166	11.11
New Castle, Pa.	52,500	65	12.4	18.93	2.21	21.14	237	6.94
New Haven, Conn.	187,900	276	14.7	61.70	6.22	67.92	56	7.41
New London, Conn.	29,700	112	37.7	44.90	9.35	54.25	88	28.04
New Orleans, La.	429,400	1,060	24.7	23.26	4.62	27.88	210	6.24
Newport, Ky.	(1)	35						
Newport, R. I.	27,757	62	22.3	51.74	7.59	59.33	80	23.22
Newport News, Va.	53,300	67	12.6	8.57	5.87	14.44	267	3.56
New Rochelle, N. Y.	48,800	355	72.7	136.52	18.91	155.43	7	94.87
Newton, Mass.	67,300	568	99.1	107.34	12.33	119.67	12	98.35
New York City, N. Y.	6,017,500	58,320	96.9	143.64	12.95	156.59	6	57.19
Niagara Falls, N. Y.	68,300	320	46.9	63.94	10.30	74.24	44	24.49
Norfolk, Va.	184,200	233	12.6	11.85	2.97	14.82	265	5.77
Norristown, Pa.	36,200	103	28.5	43.70	8.24	51.94	99	15.07
Norwalk, Conn.	30,100	262	87.0	103.71	13.56	117.27	13	62.21
Oakland, Calif.	274,100	1,904	69.5	45.46	7.06	52.52	95	22.60
Oak Park, Ill.	57,700	310	53.7	95.15	4.00	99.15	26	47.66
Ogden, Utah.	39,100	74	18.9	13.07	4.85	17.92	254	4.90
Oklahoma City, Okla.	(1)	3,023						
Okmulgee, Okla.	(1)	1						
Omaha, Nebr.	222,800	461	20.7	16.80	8.25	25.05	224	8.63

\* State census Jan. 1, 1928.

† Estimate of July 1, 1927.

TABLE 5.—Total and per capita expenditures for new buildings and for repairs,

City and State	Expenditure for new buildings 1929	Expenditure for repairs and additions 1929	Total expenditures		Expenditure for new house-keeping dwellings only, 1929
			1929	1928	
Orange, N. J.	\$1,952,382	\$413,715	\$2,366,097	\$3,106,499	\$735,000
Oshkosh, Wis.	565,775	214,869	780,644	852,846	430,025
Ottumwa, Iowa	650,150	67,375	717,525	393,775	222,500
Paducah, Ky.	224,170	120,890	345,060	608,605	181,145
Pasadena, Calif.	5,488,235	1,498,469	6,986,704	5,949,553	3,193,677
Passaic, N. J.	4,383,240	486,509	4,869,749	3,061,518	679,750
Paterson, N. J.	3,732,899	1,138,710	4,871,609	7,356,691	1,527,500
Pawtucket, R. I.	1,702,170	292,755	1,994,925	2,822,589	1,368,125
Peoria, Ill.	3,135,068	468,592	3,603,660	3,951,260	1,809,083
Perth Amboy, N. J.	1,282,366	388,760	1,671,126	1,367,359	325,525
Petersburg, Va.	380,829	69,324	1,450,153	568,628	148,545
Philadelphia, Pa.	95,254,090	9,151,455	104,405,545	112,225,865	32,875,685
Phoenix, Ariz.	4,819,182	415,595	5,234,777	5,976,662	2,324,152
Pittsburgh, Pa.	28,509,741	7,129,126	35,638,867	39,373,532	11,084,650
Pittsfield, Mass.	2,615,275	788,405	3,403,680	1,813,130	1,169,100
Plainfield, N. J.	1,587,164	422,859	2,010,023	3,464,771	954,756
Pontiac, Mich.	5,740,217	478,698	6,218,915	13,115,226	3,481,182
Port Arthur, Tex.	1,491,432	487,147	1,978,579	1,881,236	142,553
Port Huron, Mich.	257,410	66,440	323,850	461,175	105,875
Portland, Me.	1,307,686	825,502	2,133,188	2,738,886	738,692
Portland, Oreg.	12,665,835	2,837,845	15,503,680	21,275,970	6,576,645
Portsmouth, Ohio	623,012	95,084	718,096	1,247,085	352,150
Portsmouth, Va.	233,302	174,075	407,377	688,531	161,700
Poughkeepsie, N. Y.	1,367,925	254,263	1,622,188	1,664,820	663,850
Providence, R. I.	11,720,750	3,222,745	14,943,495	16,003,519	5,184,200
Pueblo, Colo.	1,122,338	450,117	1,572,455	1,466,812	481,900
Quincy, Ill.	765,605	66,145	831,750	1,276,957	371,400
Quincy, Mass.	3,416,247	800,295	4,216,542	6,870,012	2,420,650
Racine, Wis.	4,303,543	479,234	4,782,777	4,417,489	3,091,711
Reading, Pa.	5,118,842	991,724	6,110,566	3,808,320	1,452,075
Revere, Mass.	537,935	192,440	730,375	1,227,142	417,000
Richmond, Ind.	778,489	284,763	1,063,252	940,723	554,300
Richmond, Va.	7,921,475	1,224,750	9,146,255	8,844,881	2,528,964
Roanoke, Va.	1,984,279	235,550	2,219,829	3,279,423	1,140,337
Rochester, N. Y.	11,205,232	2,098,029	13,303,261	17,620,798	2,802,063
Rockford, Ill.	4,262,182	821,260	5,083,442	5,736,642	2,367,200
Rock Island, Ill.	800,339	2,111,311	2,911,650	1,583,244	616,100
Sacramento, Calif.	3,665,615	715,774	4,381,389	5,524,332	2,445,604
Saginaw, Mich.	2,650,100	470,672	3,120,772	4,349,585	1,498,680
St. Joseph, Mo.	856,146	548,299	1,404,445	2,004,618	472,850
St. Louis, Mo.	22,103,607	4,970,062	27,073,669	42,828,495	12,423,740
St. Paul, Minn.	7,086,686	2,278,589	9,365,275	8,699,513	2,309,212
St. Petersburg, Fla.	930,200	515,700	1,445,900	1,846,100	273,200
Salem, Mass.	1,281,740	603,468	1,885,208	1,719,685	608,850
Salt Lake City, Utah	4,673,398	1,017,193	5,690,591	5,277,404	2,575,310
San Antonio, Tex.	16,405,173	1,665,177	18,070,350	18,300,359	5,695,257
San Diego, Calif.	10,660,675	754,158	11,414,833	12,150,138	4,708,917
San Francisco, Calif.	28,757,442	4,668,875	33,426,317	37,504,438	13,868,201
San Jose, Calif.	2,125,035	303,150	2,428,185	2,541,300	1,174,265
Savannah, Ga.	979,270	142,742	1,122,012	2,137,134	668,050
Schenectady, N. Y.	2,846,725	584,125	3,430,850	3,428,480	1,683,100
Scranton, Pa.	2,007,074	940,190	2,947,264	4,632,243	569,440
Seattle, Wash.	23,248,000	6,853,450	29,101,450	34,806,975	11,487,910
Sheboygan, Wis.	1,152,365	315,633	1,467,998	2,108,719	686,600
Shreveport, La.	2,576,422	958,959	3,535,381	4,846,425	1,462,358
Sioux City, Iowa	2,740,253	390,115	3,130,368	2,170,440	942,300
Sioux Falls, S. Dak.	1,593,500	359,440	1,952,940	2,004,725	673,600
Somerville, Mass.	2,772,331	303,823	3,076,154	1,424,197	991,500
South Bend, Ind.	6,609,370	405,335	7,014,705	6,363,185	2,884,080
Spokane, Wash.	3,098,326	1,049,534	4,147,860	5,736,778	1,536,720
Springfield, Ill.	2,734,108	377,898	3,112,006	3,739,153	928,805
Springfield, Mass.	3,937,543	1,157,506	5,095,049	5,976,799	1,942,500
Springfield, Mo.	1,226,641	297,880	1,524,521	1,615,655	606,751
Springfield, Ohio	1,595,110	155,311	1,750,421	1,556,767	819,410
Stamford, Conn.	3,956,623	548,325	4,504,948	5,195,278	2,038,400
Steubenville, Ohio.	1,088,975	97,025	1,186,000	1,193,410	709,450
Stockton, Calif.	1,035,380	396,708	1,432,088	1,774,866	469,250
Superior, Wis.	890,598	292,666	1,183,264	1,852,152	505,115
Syracuse, N. Y.	8,853,967	2,412,738	11,266,705	13,220,429	4,553,500

\* Not estimated by Census Bureau.

† Estimated as of July 1, 1928.

and families provided for in 311 cities in the calendar year 1929—Continued

City and State	Estimated population July 1, 1928	Families provided for		Per capita expenditure 1929				Per capita expenditure for house-keeping dwellings only, 1929
		Number	Ratio per 10,000	For new buildings	For repairs and additions	Total	Rank of City	
Orange, N. J.	36,500	136	37.3	\$53.49	\$11.33	\$64.82	65	\$20.18
Oshkosh, Wis.	33,200	115	34.6	17.94	6.47	23.51	230	12.95
Ottumwa, Iowa	27,400	41	15.0	23.73	2.46	26.19	219	8.12
Paducah, Ky.	26,100	91	34.9	8.59	4.63	13.22	270	6.94
Pasadena, Calif.	62,100	401	64.6	88.38	24.13	112.51	15	51.45
Passaic, N. J.	71,800	115	16.0	61.06	6.78	67.82	57	9.47
Patterson, N. J.	144,900	435	30.0	25.76	7.86	33.62	182	10.54
Pawtucket, R. I.	73,100	318	43.5	23.29	4.00	27.29	213	13.72
Peoria, Ill.	84,500	366	43.3	37.10	5.55	42.65	129	21.41
Perth Amboy, N. J.	50,100	66	13.2	25.60	7.76	33.36	184	6.50
Petersburg, Va.	37,800	47	12.4	10.07	1.83	11.91	274	3.93
Philadelphia, Pa.	2,064,200	7,093	34.4	46.15	4.43	50.58	100	15.93
Phoenix, Ariz.	42,100	995	236.3	114.47	9.87	124.34	9	55.21
Pittsburgh, Pa.	673,800	2,153	32.0	42.31	10.53	52.83	94	16.42
Pittsfield, Mass.	50,000	211	42.2	52.31	15.77	68.07	55	23.38
Plainfield, N. J.	232,500	123	39.4	48.84	13.01	61.85	73	29.38
Pontiac, Mich.	61,500	1,284	208.8	93.34	7.78	101.12	23	56.60
Port Arthur, Tex.	33,000	58	17.6	45.19	14.76	59.96	79	4.32
Port Huron, Mich.	30,700	54	17.6	8.38	2.16	10.55	280	3.45
Portland, Me.	78,600	172	21.9	16.64	10.50	27.14	212	9.40
Portland, Oreg.	(1)	1,586						
Portsmouth, Ohio	41,200	98	23.8	15.12	2.31	17.43	253	8.55
Portsmouth, Va.	61,600	66	10.7	3.70	2.83	6.61	287	2.63
Poughkeepsie, N. Y.	39,100	68	17.4	34.99	6.50	41.49	136	16.98
Providence, R. I.	286,300	842	29.4	40.94	11.26	52.20	97	18.11
Pueblo, Colo.	44,200	193	43.7	25.39	10.18	35.53	168	10.90
Quincy, Ill.	39,800	87	21.9	19.24	1.66	20.90	240	9.33
Quincy, Mass.	67,600	550	81.4	50.54	11.84	62.37	72	35.81
Racine, Wis.	74,400	653	87.8	57.84	6.44	64.28	66	41.56
Reading, Pa.	115,400	253	21.9	44.36	8.59	52.95	93	12.58
Revere, Mass.	36,000	95	26.4	14.94	5.35	20.29	244	11.58
Richmond, Ind.	31,000	138	44.5	25.11	9.19	34.30	177	17.88
Richmond, Va.	194,400	590	30.3	40.75	6.30	47.05	108	13.01
Roanoke, Va.	64,600	320	49.5	30.72	3.65	34.36	175	17.65
Rochester, N. Y.	328,200	496	15.1	34.14	6.39	40.53	143	8.54
Rockford, Ill.	82,800	621	75.0	51.48	9.92	61.39	75	28.59
Rock Island, Ill.	42,700	200	46.8	18.74	49.45	68.19	52	14.43
Sacramento, Calif.	75,700	643	91.5	48.42	9.46	57.88	82	32.31
Saginaw, Mich.	75,600	501	66.3	35.05	6.23	41.28	137	19.82
St. Joseph, Mo.	78,500	205	26.1	10.91	6.98	17.89	251	6.02
St. Louis, Mo.	848,100	4,364	51.5	26.06	5.86	31.92	189	14.65
St. Paul, Minn.	250,100	591	23.6	28.34	9.11	37.45	154	11.23
St. Petersburg, Fla.	53,300	67	12.6	17.45	9.68	27.13	213	5.22
Salem, Mass.	43,000	115	26.7	29.81	14.03	43.84	121	14.16
Salt Lake City, Utah	138,000	699	50.7	33.87	7.37	41.24	139	18.66
San Antonio, Tex.	218,100	2,233	102.4	75.22	7.63	82.85	37	26.11
San Diego, Calif.	119,700	1,318	110.1	89.06	6.30	95.36	30	39.34
San Francisco, Calif.	585,300	3,518	60.1	49.13	7.98	57.11	83	23.69
San Jose, Calif.	45,500	335	73.6	46.70	6.66	53.37	89	25.80
Savannah, Ga.	99,900	195	19.5	9.80	1.43	11.23	277	6.69
Schenectady, N. Y.	93,300	278	29.8	30.51	6.26	36.77	160	18.04
Scranton, Pa.	144,700	137	9.5	13.87	6.50	20.37	243	3.94
Seattle, Wash.	383,200	3,289	85.8	58.06	17.88	75.94	41	29.98
Sheboygan, Wis.	35,100	127	36.2	32.83	8.99	41.82	133	19.56
Shreveport, La.	81,300	543	66.8	31.69	11.80	43.49	122	17.99
Sioux City, Iowa	80,000	308	38.5	34.25	4.88	39.13	148	11.78
Sioux Falls, S. Dak.	31,200	171	54.8	51.07	11.52	62.59	69	21.75
Somerville, Mass.	102,700	286	27.8	26.99	2.96	29.95	196	9.65
South Bend, Ind.	86,100	661	76.8	76.76	4.71	81.47	38	33.50
Spokane, Wash.	109,100	419	38.4	28.40	9.62	38.02	152	14.09
Springfield, Ill.	67,200	229	34.1	40.69	5.62	46.31	109	13.82
Springfield, Mass.	149,800	466	31.1	26.29	7.73	34.01	179	12.97
Springfield, Mo.	51,700	218	42.2	23.73	5.76	29.49	191	11.74
Springfield, Ohio	73,000	244	33.4	21.85	2.13	23.98	226	11.22
Stamford, Conn.	43,800	315	71.9	90.33	12.52	102.85	21	46.54
Steubenville, Ohio	32,600	181	55.5	33.40	2.98	36.38	165	21.76
Stockton, Calif.	51,000	151	29.6	20.30	7.78	28.08	208	9.20
Superior, Wis.	(1)	134						
Syracuse, N. Y.	199,300	793	39.8	44.43	12.11	56.53	84	22.85

1 Estimate of July 1, 1927.

TABLE 5.—Total and per capita expenditures for new buildings and for repairs,

City and State	Expenditure for new buildings 1929	Expenditure for repairs and additions 1929	Total expenditures		Expenditure for new house-keeping dwellings only, 1929
			1929	1928	
Tacoma, Wash.....	\$3, 444, 795	\$608, 255	\$4, 053, 050	\$4, 660, 415	\$1, 480, 000
Tampa, Fla.....	1, 312, 833	545, 587	1, 858, 420	3, 617, 054	345, 195
Taunton, Mass.....	447, 996	124, 906	572, 902	882, 497	156, 850
Terre Haute, Ind.....	501, 874	297, 455	799, 329	973, 487	269, 400
Toledo, Ohio.....	11, 471, 511	2, 035, 729	13, 507, 240	17, 346, 195	4, 792, 150
Topeka, Kans.....	1, 566, 007	185, 460	1, 751, 467	1, 991, 514	803, 800
Trenton, N. J.....	2, 892, 273	782, 731	3, 675, 004	4, 105, 921	655, 014
Troy, N. Y.....	1, 658, 204	379, 063	2, 037, 267	1, 323, 664	681, 520
Tucson, Ariz.....	3, 034, 299	382, 247	3, 416, 546	2, 895, 391	1, 088, 987
Tulsa, Okla.....	11, 255, 488	501, 147	11, 756, 635	13, 411, 051	5, 617, 097
Union City, N. J.....	588, 215	266, 908	855, 123	1, 120, 756	415, 900
Utica, N. Y.....	1, 819, 975	677, 160	2, 497, 135	3, 916, 970	715, 200
Vallejo, Calif.....	327, 969	131, 052	459, 021	441, 847	166, 130
Waco, Tex.....	2, 284, 063	415, 962	2, 700, 025	2, 291, 339	890, 837
Waltham, Mass.....	2, 172, 270	167, 885	2, 340, 155	2, 477, 055	1, 022, 800
Warren, Ohio.....	1, 885, 440	282, 760	2, 168, 200	1, 811, 620	1, 352, 845
Washington, D. C.....	52, 544, 331	3, 533, 588	56, 127, 919	53, 974, 979	20, 777, 645
Waterbury, Conn.....	2, 411, 950	586, 800	2, 998, 750	3, 488, 300	1, 253, 500
Waterloo, Iowa.....	1, 688, 285	285, 764	1, 974, 049	2, 722, 194	1, 021, 825
Watertown, Mass.....	1, 636, 305	128, 335	1, 764, 640	2, 824, 095	1, 134, 400
Watertown, N. Y.....	953, 405	136, 197	1, 089, 602	1, 152, 449	302, 800
West New York, N. J.....	646, 300	231, 335	877, 635	1, 628, 385	294, 350
Wheeling, W. Va.....	908, 131	859, 888	1, 768, 019	1, 967, 488	445, 950
White Plains, N. Y.....	6, 540, 740	654, 227	7, 194, 967	12, 632, 296	3, 186, 635
Wichita, Kans.....	8, 072, 287	579, 295	8, 651, 582	7, 974, 221	4, 771, 605
Wichita Falls, Tex.....	1, 023, 332	314, 005	1, 337, 337	1, 911, 412	494, 885
Wilkes-Barre, Pa.....	2, 602, 380	622, 243	3, 224, 623	3, 896, 345	249, 695
Wilksburg, Pa.....	1, 080, 710	254, 385	1, 335, 095	1, 915, 561	945, 755
Williamsport, Pa.....	884, 423	399, 142	1, 283, 565	2, 080, 940	456, 466
Wilmington, Del.....	4, 690, 098	1, 452, 567	6, 142, 665	5, 577, 109	2, 253, 335
Wilmington, N. C.....	525, 353	157, 250	682, 600	745, 500	314, 000
Winston-Salem, N. C.....	4, 036, 092	904, 075	5, 000, 167	8, 531, 028	1, 253, 695
Woonsocket, R. I.....	899, 445	149, 905	1, 049, 350	918, 543	89, 950
Worcester, Mass.....	4, 523, 974	2, 726, 991	7, 250, 965	7, 260, 320	2, 131, 900
Yonkers, N. Y.....	19, 765, 893	1, 600, 156	21, 366, 049	35, 618, 824	11, 850, 877
York, Pa.....	864, 821	593, 648	1, 458, 469	2, 065, 049	443, 525
Youngstown, Ohio.....	5, 482, 497	411, 823	5, 894, 320	8, 637, 675	2, 580, 325
Zanesville, Ohio.....	452, 824	125, 356	578, 180	548, 064	323, 160
Total.....	2, 668, 158, 494	367, 522, 987	3, 035, 681, 481	3, 423, 584, 461	1, 155, 528, 963

<sup>1</sup> Not estimated by Census Bureau.

and families provided for in 311 cities in the calendar year 1929—Continued

City and State	Estimated population July 1, 1928	Families provided for		Per capita expenditure 1929				Per capita expenditure for house-keeping dwellings only, 1929
		Number	Ratio per 10,000	For new buildings	For repairs and additions	Total	Rank of City	
Tacoma, Wash.....	110,500	51.5	46.6	\$31.17	\$5.50	\$36.68	163	\$13.39
Tampa, Fla.....	113,400	18.3	16.6	11.58	4.81	16.39	255	3.04
Taunton, Mass.....	40,600	3.8	9.4	11.03	3.08	14.11	268	3.86
Terre Haute, Ind.....	73,500	7.8	10.6	6.83	4.05	10.88	278	3.67
Toledo, Ohio.....	313,200	1,310	41.8	36.63	6.50	43.13	126	15.30
Topeka, Kans.....	62,800	191	30.4	24.94	2.95	27.89	209	12.80
Trenton, N. J.....	139,000	87	6.3	20.81	5.63	26.44	217	4.71
Troy, N. J.....	72,300	111	15.4	22.94	5.24	28.18	206	9.43
Tucson, Ariz.....	127,500	340	123.6	110.33	13.90	124.23	10	39.60
Tulsa, Okla.....	170,500	4,646	96.5	66.01	2.94	68.95	51	32.94
Union City, N. J.....	64,400	125	19.4	9.13	4.14	13.28	269	6.46
Utica, N. Y.....	104,200	111	10.7	17.47	6.50	23.96	227	6.86
Vallejo, Calif.....	(1)	48						
Waco, Tex.....	46,600	214	45.9	49.01	8.93	57.94	81	19.12
Waltham, Mass.....	37,100	205	55.3	58.55	4.53	63.08	68	27.57
Warren, Ohio.....	136,100	269	74.5	52.23	7.83	60.06	78	37.47
Washington, D. C.....	552,000	3,223	58.4	95.19	6.49	101.68	22	37.64
Waterbury, Conn.....	(1)	262						
Waterloo, Iowa.....	37,100	357	96.2	45.51	7.70	53.21	91	27.54
Watertown, Mass.....	126,400	221	83.7	61.98	4.86	66.84	61	42.97
Watertown, N. Y.....	33,700	52	15.4	28.29	4.04	32.33	188	8.99
West New York, N. J.....	141,000	82	20.0	15.76	5.64	21.41	235	7.18
Wheeling, W. Va.....	(1)	72						
White Plains, N. Y.....	128,700	3,145	120.2	227.90	22.80	250.70	1	111.03
Wichita, Kans.....	99,300	1,580	159.1	81.29	5.83	87.13	36	48.05
Wichita Falls, Tex.....	(1)	109						
Wilkes-Barre, Pa.....	91,900	70	7.6	28.32	6.77	35.09	172	2.72
Wilksburg, Pa.....	28,000	199	71.1	38.60	9.09	47.68	106	33.78
Williamsport, Pa.....	44,000	103	23.4	20.10	9.07	29.17	201	10.37
Wilmington, Del.....	128,500	383	29.8	36.50	11.30	47.80	105	17.54
Wilmington, N. C.....	39,100	74	18.9	13.44	4.02	17.46	252	8.03
Winston-Salem, N. C.....	80,000	317	39.6	51.20	11.30	62.50	70	15.67
Woonsocket, R. I.....	53,400	23	4.3	16.84	2.81	19.65	248	1.68
Worcester, Mass.....	197,600	379	19.2	22.89	13.80	36.70	162	10.79
Yonkers, N. Y.....	121,300	1,508	149.1	162.95	13.19	176.14	3	97.70
York, Pa.....	49,900	87	17.4	17.33	11.90	29.23	200	8.89
Youngstown, Ohio.....	174,200	525	30.1	31.47	2.36	33.84	181	14.81
Zanesville, Ohio.....	130,600	103	33.7	14.80	4.10	18.89	249	10.56
Total.....	44,940,049	212,726	56.2	59.37	8.18	67.55		25.71

\* Estimated as of July 1, 1929.

## Expenditure for Building Operations in Representative Cities, 1921 to 1929

**E**ACH year since 1921 the Bureau of Labor Statistics has collected data concerning building permits issued in cities of the United States having a population of over 25,000. Data are available from 257 identical cities for each year, 1921 to 1929, inclusive. Comparable figures for these years are presented in this article.

The estimated costs shown in Table 6 are for the cost of the building only. No land costs are included. The costs are as shown by permits issued within the corporate limits of the cities. Building operations in suburban territory are of importance in some districts but data for such territory are not available. Table 6 shows the estimated expenditures for new residential buildings, new non-residential buildings, and total new buildings; the estimated population as of July 1 each year; the number of families provided for; the ratio of families provided for to each 10,000 of population; the index number of each of these items; and the index number of families provided for weighted by population.

**TABLE 6.**—*Estimated expenditure for each class of new buildings, families provided for and ratio to population, and index numbers thereof, in 257 identical cities, 1921 to 1929*

Year	New residential buildings		New nonresidential buildings		Total new buildings	
	Estimated expenditure	Index number	Estimated expenditure	Index number	Estimated expenditure	Index number
1921	\$937,352,739	100.0	\$635,775,199	100.0	\$1,573,127,938	100.0
1922	1,612,352,921	172.0	876,276,713	137.8	2,488,629,634	158.2
1923	2,000,936,900	213.5	1,070,596,718	168.4	3,071,533,618	195.3
1924	2,070,276,772	220.9	1,137,631,030	178.9	3,207,907,802	203.9
1925	2,461,546,270	262.6	1,343,830,884	211.4	3,805,427,154	241.9
1926	2,255,994,627	240.7	1,300,840,876	204.6	3,556,835,503	226.1
1927	1,906,033,260	203.3	1,231,735,870	193.7	3,137,769,130	199.5
1928	1,859,429,751	198.4	1,135,549,986	178.6	2,994,979,737	190.4
1929	1,433,111,774	152.9	1,146,953,101	180.4	2,580,069,875	164.0

  

Year	Population		Families provided for			
	As estimated by Census Bureau	Index number	Number	Index number	Ratio to each 10,000 of population	Index number weighted by population
1921	36,575,118	100.0	424,545	100.0	61.4	100.0
1922	37,511,516	102.6	377,305	168.0	100.6	163.7
1923	38,447,913	105.1	453,673	202.0	118.0	192.2
1924	39,384,311	107.7	442,919	197.3	112.5	183.4
1925	40,320,708	110.2	491,222	218.8	121.8	198.4
1926	41,257,106	112.8	462,214	205.8	112.0	182.4
1927	42,058,897	115.0	406,095	180.9	96.6	157.3
1928	42,767,125	116.9	438,678	173.1	90.9	148.1
1929	43,665,235	119.4	444,197	108.8	55.9	91.1

In 1921, \$937,352,739 was expended for new residential buildings according to permits issued in these 257 cities. There was an increase each year in expenditures for this class of building until a peak of \$2,461,546,270 was reached in 1925, when the index number of expenditures for residential buildings stood at 262.6. Since 1925 there has been a steady decrease in expenditures for residential buildings. During 1929 permits issued in these 257 cities showed an estimated expenditure for residential buildings of \$1,433,111,774, which was less than the expenditure for this class of building in any year since 1921. The index number of residential buildings for 1929 was 152.9.

Expenditures for new nonresidential buildings in these 257 cities during 1921 were \$635,775,199. The peak expenditure for this class of



building was also reached in 1925, when permits issued showed the estimated cost of new nonresidential buildings to be \$1,343,880,884. The index number of expenditures for nonresidential buildings during this peak year was 211.4, or 51.2 points less than the peak index number for residential building. The estimated expenditures for nonresidential buildings followed the same trend as for residential buildings through 1928, when a low point of 178.6 was reached. There was a slight upturn in expenditures for nonresidential buildings in 1929, however. The estimated cost of the new buildings in this class for which permits were issued in the calendar year 1929 was \$1,146,958,101 and the index number showed an increase of 1.8 points over the index number for 1928. The 1929 expenditures for nonresidential buildings were higher than the expenditures for this class of dwelling in any year previous to 1925.

Expenditures for all new buildings reached a peak of \$3,805,427,154 in 1925 and have been gradually decreasing each year since that time. The estimated cost of new construction for which permits were issued in 1929 in these 257 cities was \$2,580,069,875. The estimated population of these cities was 36,575,118 in 1921, but by 1929 had risen to 43,665,235, an increase of 19.4 per cent.

The number of families provided for in new dwellings in these cities also reached a peak in 1925, when 491,222 families were provided with dwelling places in the new dwellings for which permits were issued during that year. There has been a gradual decline in new family dwelling units since that date, the number of families provided for during 1929 being 244,197, which is less than half the number provided for during 1925. In 1921, 61.4 families were provided for to each 10,000 of population. By 1925 this ratio had risen to 121.8 families. In 1929, however, the ratio of families provided for reached the low point of the 9 years under discussion, only 55.9 families per 10,000 of population being provided with dwelling places in new buildings. The index number of families provided for weighted by population, reached a peak of 198.4 in 1925 and declined to 91.1 in 1929.

#### Average Estimated Cost of Dwellings per Family

TABLE 7 shows the average cost per family unit each year, 1921 to 1929, of housing accommodations of each type for which permits were issued in the 257 identical cities from which reports were received. The costs from which these averages were computed are the costs of the building as stated by the prospective builder at the time when he applied for his permit to build. There may be a profit or loss between the cost to the builder and the cost to the home purchaser.

TABLE 7.—Average cost of new dwellings<sup>1</sup> per family in 257 identical cities, 1921 to 1929

Year	Average cost of new dwellings per family				Index numbers of cost of dwellings per family			
	One-family dwellings	Two-family dwellings <sup>2</sup>	Multifamily dwellings <sup>3</sup>	All classes of dwellings	One-family dwellings	Two-family dwellings <sup>2</sup>	Multifamily dwellings <sup>3</sup>	All classes of dwellings
1921.....	\$3, 972	\$3, 762	\$4, 019	\$3, 947	100. 0	100. 0	100. 0	100. 0
1922.....	4, 134	3, 801	3, 880	4, 005	104. 1	101. 0	96. 5	101. 5
1923.....	4, 203	4, 159	4, 001	4, 127	105. 8	110. 6	99. 6	104. 6
1924.....	4, 317	4, 336	4, 413	4, 352	108. 7	115. 3	109. 9	110. 3
1925.....	4, 618	4, 421	4, 289	4, 464	116. 3	117. 5	106. 7	113. 1
1926.....	4, 725	4, 480	4, 095	4, 422	119. 0	119. 1	101. 9	112. 0
1927.....	4, 830	4, 368	4, 170	4, 449	121. 6	116. 1	103. 8	112. 7
1928.....	4, 937	4, 064	4, 120	4, 407	124. 3	108. 0	102. 7	111. 7
1929.....	4, 915	4, 020	4, 407	4, 566	123. 7	106. 9	109. 5	115. 7

<sup>1</sup> Includes only cost of the buildings.

<sup>2</sup> Includes one-family and two-family dwellings with stores

<sup>3</sup> Includes multifamily dwellings with stores.

The average cost of one-family dwellings for which permits were issued in these 257 cities in 1921 was \$3,972. There was an increase in the average cost of these single-family dwellings each year until 1928, when a peak cost of \$4,937 per building was reached. There was a slight decline in the cost of these dwellings in 1929, the expenditure per building being \$4,915. Two-family dwellings reached the peak cost in 1926 when the average cost per family was \$4,480. There has been a slight decline each year since that date, the 1929 cost being \$4,020 per family. The cost of family units in apartment houses has varied more than in either of the other two classes of dwellings. The per family cost of dwelling units in apartment houses was \$4,019 in 1921. There was a slump to \$3,880 in 1922, a rise in 1923, another rise in 1924 to a peak cost of \$4,418, a decline in cost for the next two years, a slight rise in 1927, a slight decrease in 1928, and a rise to \$4,402 in 1929, this cost being higher than that for any year except 1924.

The average cost per dwelling, all types of housing combined, was \$3,947 in 1921. There was an increase in this average cost each year until 1925, when the cost stood at \$4,464. The succeeding years have shown some variation, but 1929 showed the highest cost of any of the nine years under discussion. The average cost of dwelling places per family during 1929 was \$4,566, which was 15.7 per cent higher than during the year 1921, and 2.6 points higher than during 1925.

The Bureau of Labor Statistics collects monthly the wholesale prices of building material and from such figures computes index numbers. Retail prices as paid by builders are not available but it is believed that the trend of retail prices follows closely the trend of wholesale prices. The index number as shown in Table 8 for wages in the building trades are wage rates for union labor only. In many cities the building trades are highly organized, while in others there is much nonunion labor. Although the bureau has no data concerning wages of nonunion labor in the building trades, it is thought that the trend of wages of nonunion labor tends to follow the same trend as that of union labor.

The index number of wholesale prices in the building trades reached a peak of 111.6 in 1923. It decreased each year thereafter until a low point of 95.8 was reached in 1927. There was a slight increase in 1928 and another increase (to 99.7) in 1929. The index number of union wage rates in the building trades reached a low point of 93.4 in 1922 and has been climbing steadily ever since, reaching 130.6 in 1929. That is to say, the union wage rates in the building trades were 30.6 per cent higher than in 1921.

TABLE 8.—*Index numbers of wholesale prices of building material and of union wage rates in the building trades, 1921 to 1929*

Year	Wholesale prices of building material	Union wage rates per hour in the building trades	Year	Wholesale prices of building material	Union wage rates per hour in the building trades
1921.....	100.0	100.0	1926.....	102.7	124.0
1922.....	99.9	93.4	1927.....	95.8	123.5
1923.....	111.6	103.6	1928.....	96.2	129.0
1924.....	105.0	112.2	1929.....	99.7	130.6
1925.....	104.4	116.3			

## Apartment House Construction in American Cities, 1929

**D**URING 1929 there was a slight decrease in the percentage of homes provided for in apartment houses as compared with the percentage provided for in this class of dwellings during 1928. Reports collected by the Bureau of Labor Statistics are available for 257 identical cities of 25,000 population or over, continuously since 1921, showing the number of families provided for and the class of dwellings with which they were provided. This information is shown in Table 9.

A multifamily dwelling is a dwelling accommodating three or more families. The term is equivalent to the more generally used appellation, apartment house or tenement house. In 1929, 244,197 families were provided for in all classes of dwellings in these 257 cities. This compares with 388,678 provided for in 1928. According to permits issued in these cities, 48.6 per cent of the families provided for in 1929 were accommodated in apartment houses, 40.2 per cent in 1-family dwellings, and 11.2 per cent in 2-family dwellings. In 1928, 53.7 per cent were provided for in apartment houses, 35.2 per cent in 1-family dwellings, and 11.1 per cent in 2-family dwellings.

TABLE 9.—Per cent of families provided for in the different kinds of dwellings in 257 identical cities, 1921 to 1929

Year	Number of families provided for in all classes of dwellings	Per cent of families provided for in—			Year	Number of families provided for in all classes of dwellings	Per cent of families provided for in—		
		1-family dwellings	2-family dwellings <sup>1</sup>	Multi-family dwellings <sup>2</sup>			1-family dwellings	2-family dwellings <sup>1</sup>	Multi-family dwellings <sup>2</sup>
1921.....	224, 545	58. 3	17. 3	24. 4	1926.....	462, 214	40. 7	13. 9	45. 4
1922.....	377, 305	47. 5	21. 3	31. 2	1927.....	406, 095	38. 3	13. 4	48. 3
1923.....	453, 673	45. 8	21. 2	33. 0	1928.....	388, 678	35. 2	11. 1	53. 7
1924.....	442, 919	47. 6	21. 5	30. 9	1929.....	244, 197	40. 2	11. 2	48. 6
1925.....	491, 222	46. 0	17. 5	36. 4					

<sup>1</sup> Includes 1-family and 2-family dwellings with stores combined.

<sup>2</sup> Includes multifamily dwellings with stores combined.

During each of the last four years more families have been provided for in apartment houses than in 1-family dwellings in these cities. If this ratio keeps up the time may come in most of the larger cities of the United States when the majority of families will be living in apartment houses.<sup>1</sup>

### Comparison of Conditions in Cities of Over 500,000

IN THE 14 cities of the United States having a population of 500,000 and over, 64.4 per cent of the new family dwelling units for which permits were issued during the calendar year 1929 were in apartment houses, 25.3 per cent in 1-family dwellings, and 10.3 per cent in 2-family dwellings. Dwelling accommodations were provided for 139,007 families during this year. During the calendar year 1928, dwelling places were provided for 232,681 families, of which 67.2 per cent were provided for in apartment houses, 22.1 in 1-family dwellings, and 10.7 in 2-family dwellings.

In New York City 58,320 families were provided for during the year 1929. Of this number, 83 per cent were provided for in apartment houses and only 10.8 per cent in 1-family dwellings. In the

<sup>1</sup> This change in the type of building is causing some change in the building trades employed, with a larger proportion of structural ironworkers and bricklayers. Further, it probably has some effect on the sale of articles usually found in one type of building and not in another.

Borough of Manhattan 99.9 per cent of the 18,067 families provided for were to live in apartment houses. In contrast, in the Borough of Richmond 61.6 per cent of the new family dwelling units were provided in 1-family, and only 16.3 per cent in multifamily dwellings. Chicago ranked next to New York in the percentage of new family dwelling units provided for in apartment houses, as 77.9 per cent of the 18,837 families provided for in 1929 were to dwell in apartment houses.

Baltimore continues to be the outstanding city in the erection of 1-family dwellings. In the Maryland metropolis 3,022 families were provided for in 1929 and 92.7 per cent were to live in 1-family dwellings. Pittsburgh, Philadelphia, and Cleveland are the only other cities in this group which provided more than half of their new family dwelling units in single-family dwellings. In every city in the group except Baltimore fewer families were provided for in 1929 than in 1928.

Buffalo, Detroit, Milwaukee, and Boston erected large numbers of 2-family dwellings. In Buffalo more new housing units were provided for in 2-family dwellings than in either one-family dwellings or apartment houses.

TABLE 10.—Per cent of families provided for by the different types of dwellings in cities having a population of 500,000 or over in 1921, 1928, and 1929

City, State, and year	Total number of families provided for	Per cent of families provided for in—			City, State, and year	Total number of families provided for	Per cent of families provided for in—			
		1-family dwellings	2-family dwellings <sup>1</sup>	Multifamily dwellings <sup>2</sup>			1-family dwellings	2-family dwellings <sup>1</sup>	Multifamily dwellings <sup>2</sup>	
Baltimore, Md.:										
1921.....	2,176	85.0	4.5	10.5	New York City,					
1928.....	2,884	86.4		13.6	N. Y.—Con.					
1929.....	3,022	92.7	.1	9.2	Brooklyn:					
Boston, Mass.:					1921.....	16,636	24.1	44.0	31.9	
1921.....	878	15.5	30.5	54.0	1928.....	28,938	9.1	12.5	78.4	
1928.....	6,805	9.5	28.0	62.5	1929.....	11,224	9.7	12.2	78.1	
1929.....	3,327	15.1	24.4	60.5	Manhattan:					
Buffalo, N. Y.:					1921.....	4,837	.7	3.7	95.5	
1921.....	2,405	51.6	48.0	.4	1928.....	15,983	.1	1	99.9	
1928.....	3,181	22.1	44.5	33.4	1929.....	18,067	( <sup>3</sup> )	( <sup>3</sup> )	99.9	
1929.....	1,769	18.9	51.5	29.6	Queens:					
Chicago, Ill.:					1921.....	13,256	60.0	24.4	15.6	
1921.....	12,252	37.9	17.6	44.6	1928.....	28,797	29.4	9.8	60.8	
1928.....	34,447	12.2	7.1	80.7	1929.....	13,861	27.2	10.4	62.4	
1929.....	18,837	14.9	7.2	77.9	Richmond:					
Cleveland, Ohio:					1921.....	2,594	100.0			
1921.....	4,084	35.5	40.5	24.0	1928.....	2,037	60.3	16.4	23.3	
1928.....	3,167	42.8	21.7	35.5	1929.....	1,190	61.6	22.1	16.3	
1929.....	2,143	54.3	19.4	26.3	Philadelphia, Pa.:					
Detroit, Mich.:					1921.....	2,406	93.3		6.7	
1921.....	6,743	46.9	17.9	35.2	1928.....	10,576	69.2	7.3	23.4	
1928.....	15,929	42.7	28.4	28.9	1929.....	7,098	57.1	3.2	39.7	
1929.....	12,151	48.8	26.5	24.7	Pittsburgh, Pa.:					
Los Angeles, Calif.:					1921.....	1,335	59.3	26.8	13.9	
1921.....	19,572	68.0	16.9	15.2	1928.....	2,544	62.4	10.2	27.4	
1928.....	21,081	31.3	10.0	58.8	1929.....	2,153	60.1	9.5	30.4	
1929.....	15,234	34.8	11.7	53.5	St. Louis, Mo.:					
Milwaukee, Wis.:					1921.....	2,072	49.0	24.1	26.8	
1921.....	2,212	44.9	38.2	16.9	1928.....	7,190	23.4	18.7	57.9	
1928.....	4,965	19.7	22.3	58.0	1929.....	4,364	28.5	12.1	59.4	
1929.....	3,848	24.3	26.0	49.7	San Francisco, Calif.:					
New York City,					1921.....	2,683	37.6	17.0	45.4	
N. Y.:					1928.....	6,084	36.2	5.7	58.1	
1921.....	51,360	31.6	24.2	44.2	1929.....	3,518	35.1	5.9	59.0	
1928.....	109,523	12.4	7.2	80.3	Washington, D. C.:					
1929.....	58,320	10.8	6.2	83.0	1921.....	2,195	75.4		24.6	
The Bronx:					1928.....	4,305	30.4	.7	68.9	
1921.....	14,037	11.7	11.9	76.4	1929.....	3,223	42.3	.7	57.0	
1928.....	33,768	3.8	3.4	92.8	Total (14 cities):					
1929.....	13,978	4.9	3.0	91.2	1921.....	112,373	44.2	21.7	34.0	
					1928.....	232,681	22.1	10.7	67.2	
					1929.....	139,007	25.3	10.3	64.4	

<sup>1</sup> Includes 1-family and 2-family dwellings with stores.

<sup>2</sup> Less than one-tenth of 1 per cent.

<sup>3</sup> Includes multifamily dwellings with stores.

Comparison of Conditions in Cities Under 500,000

In Table 11 are shown cities having a population of over 25,000 and under 500,000 which provided for 200 or more families in either 1928 or 1929. The table shows data for 1921, 1928, and 1929 where the information is available for those three years. When such data are not available for 1921 they are shown for the earliest year for which information was collected. A few of the smaller cities which have reached a population of 25,000 since 1921 are shown for 1928 and 1929 only. Most of the cities having a population of under 100,000 provided more of their new family dwelling units in 1-family dwellings than in either of the other classes of dwellings. There are, however, notable exceptions. In Highland Park, Mich., for instance, 99.6 per cent of the families provided for during the calendar year 1929 were to be domiciled in apartment houses. Mount Vernon, N. Y., Brookline, Mass., and Elizabeth, N. J., also provided for the majority of the new family dwelling units in this class of dwellings. Thirty-two cities having a population of 25,000 but less than 500,000 provided for over 90 per cent of the new family dwelling units in 1-family dwellings. Large numbers of 2-family dwellings were erected in Bethlehem, Pa., Bayonne, N. J., East Chicago, Ind., Everett, Mass., Kearny, N. J., New Orleans, La., and Watertown, Mass.

TABLE 11.—Per cent of families provided for by the different types of dwellings in cities having a population of over 25,000 and under 500,000 in 1921, 1928, and 1929

City, State, and year	Total number of families provided for	Per cent of families provided for in—			City, State, and year	Total number of families provided for	Per cent of families provided for in—		
		1-family dwellings	2-family dwellings <sup>1</sup>	Multifamily dwellings <sup>2</sup>			1-family dwellings	2-family dwellings <sup>1</sup>	Multifamily dwellings <sup>2</sup>
<b>Akron, Ohio:</b>					<b>Augusta, Ga.:</b>				
1921	234	100.0			1921	342	96.2	2.6	1.2
1928	2,557	80.2	5.9	13.8	1928	318	81.4	9.7	8.8
1929	2,171	80.2	6.3	13.5	1929	207	93.2	6.8	
<b>Alameda, Calif.:</b>					<b>Aurora, Ill.:</b>				
1921	152	88.2	11.8		1921	126	100.0		
1928	504	33.7	.8	65.5	1928	301	87.7	1.3	11.0
1929	404	28.2	.5	71.3	1929	192	92.7	3.1	4.2
<b>Albany, N. Y.:</b>					<b>Bayonne, N. J.:</b>				
1921	302	59.3	39.7	1.0	1921	274	56.9	28.1	15.0
1928	615	48.8	28.9	22.3	1928	436	.7	19.0	80.3
1929	385	48.3	13.5	38.2	1929	58	3.5	44.8	51.7
<b>Allentown, Pa.:</b>					<b>Beaumont, Tex.:</b>				
1921	102	90.2	2.0	7.8	1928	540	100.0		
1928	556	86.7	1.3	12.1	1929	437	100.0		
1929	397	94.2	5.8		<b>Bellingham, Wash.:</b>				
<b>Anderson, Ind.:</b>					1921	264	94.3		5.7
1921	37	100.0			1928	126	100.0		
1928	268	92.5	1.5	6.0	<b>Berkeley, Calif.:</b>				
1929	215	86.1	.9	13.0	1921	706	77.6	1.7	20.7
<b>Asheville, N. C.:</b>					1928	1,330	28.0	1.7	70.3
1921	374	97.1	2.1	.8	1929	587	51.4		48.6
1928	370	69.7	2.2	28.1	<b>Bethlehem, Pa.:</b>				
1929	120	76.7		23.3	1921	82	96.3	3.7	
<b>Atlanta, Ga.:</b>					1928	223	43.5	41.7	14.8
1921	1,614	78.1	3.3	18.6	1929	201	45.8	49.2	5.0
1928	3,170	41.6	14.2	44.2	<b>Binghamton, N. Y.:</b>				
1929	1,389	52.1	22.2	25.7	1921	327	55.7	30.6	13.8
<b>Austin, Tex.:</b>					1928	306	34.6	30.7	34.6
1929	545	91.7	3.7	4.6	1929	169	34.3	30.8	34.9

<sup>1</sup>Includes 1-family and 2-family dwellings with stores.  
<sup>2</sup>Includes multifamily dwellings with stores.

TABLE 11.—Per cent of families provided for by the different types of dwellings in cities having a population of over 25,000 and under 500,000 in 1921, 1928, and 1929—Continued.

City, State, and year	Total number of families provided for	Per cent of families provided for in—			City, State, and year	Total number of families provided for	Per cent of families provided for in—			
		1-family dwellings	2-family dwellings	Multifamily dwellings			1-family dwellings	2-family dwellings	Multifamily dwellings	
Birmingham, Ala.:										
1921	1,659	93.7	0.5	5.7	Cranston, R. I.:					
1928	2,589	70.2	.8	29.0	1921	154	72.7	27.3	-----	
1929	686	74.5	.7	24.8	1928	559	77.3	12.9	9.8	
Bloomfield, N. J.:					1929	448	86.6	13.4	-----	
1921	675	42.7	29.2	28.1	Dallas, Tex.:					
1928	476	53.8	8.4	37.8	1921	2,846	80.8	5.6	13.6	
Bridgport, Conn.:					1928	1,199	58.7	29.0	12.3	
1921	404	35.6	32.7	31.7	1929	1,145	43.8	27.9	28.3	
1928	388	44.6	27.3	28.1	Dayton, Ohio:					
1929	541	32.3	24.8	42.9	1921	546	96.0	2.2	1.8	
Brookline, Mass.:					1928	732	40.7	11.7	47.5	
1921	118	22.0	54.2	23.7	1929	212	56.6	11.3	32.1	
1928	556	21.2	14.4	64.4	Decatur, Ill.:					
1929	362	25.1	12.2	62.7	1921	335	82.7	13.7	3.6	
Cambridge, Mass.:					1928	339	97.6	-----	2.4	
1921	43	7.0	93.0	-----	1929	212	99.1	.9	-----	
1928	863	5.3	26.7	68.0	Denver, Colo.:					
1929	788	2.8	8.9	88.3	1921	1,624	87.8	4.8	7.4	
Camden, N. J.:					1928	1,869	60.8	3.9	35.4	
1921	145	100.0	-----	-----	1929	1,608	46.6	4.5	48.9	
1928	350	87.7	12.3	-----	Des Moines, Iowa:					
1929	320	78.8	21.2	-----	1921	758	87.1	7.1	5.8	
Canton, Ohio:					1928	406	83.0	1.5	15.5	
1921	403	86.1	1.0	12.9	1929	348	83.0	2.9	14.1	
1928	374	80.6	1.6	8.8	Durham, N. C.:					
1929	331	91.5	1.2	7.3	1921	464	86.2	3.4	10.3	
Charleston, W. Va.:					1928	205	85.9	6.8	7.3	
1921	712	77.7	6.0	16.4	1929	205	85.9	6.8	7.3	
1928	258	83.7	7.0	9.3	East Chicago, Ind.:					
1929	262	69.9	15.6	14.5	1921	168	57.1	31.0	11.9	
Charlotte, N. C.:					1928	204	28.9	19.6	51.5	
1921	322	93.2	3.1	3.7	1929	94	56.0	44.0	-----	
1928	237	47.9	13.7	38.3	East Orange, N. J.:					
1929	500	72.4	12.8	14.8	1921	376	26.6	38.6	34.8	
Chattanooga, Tenn.:					1928	968	3.9	8.7	87.4	
1921	226	65.9	5.8	28.3	1929	500	5.0	12.4	82.6	
1928	611	50.9	6.4	42.7	East Providence, R. I.:					
1929	324	59.3	18.5	22.2	1921	271	78.2	20.7	1.1	
Chester, Pa.:					1928	219	78.1	19.2	2.7	
1921	47	91.5	8.5	-----	1929	271	78.2	20.7	1.1	
1928	243	92.6	-----	7.4	East St. Louis, Ill.:					
1929	98	95.9	4.1	-----	1921	260	93.8	-----	6.2	
Cicero, Ill.:					1928	501	73.3	9.8	17.0	
1921	453	57.8	40.8	1.3	1929	379	78.6	18.2	3.2	
1928	464	23.3	12.9	63.8	Elgin, Ill.:					
1929	328	29.9	20.7	49.4	1921	67	52.2	20.9	26.9	
Cincinnati, Ohio:					1928	207	93.7	2.9	3.4	
1921	1,161	92.9	1.3	5.8	1929	144	95.8	-----	4.2	
1928	3,559	51.2	10.1	38.8	Elizabeth, N. J.:					
1929	2,077	59.9	14.5	25.6	1921	514	28.0	66.4	5.6	
Clifton, N. J.:					1928	1,002	14.3	12.5	73.3	
1921	540	39.8	58.2	2.0	1929	514	23.9	18.9	57.2	
1928	547	43.9	26.9	29.3	El Paso, Tex.:					
1929	359	59.1	27.3	13.6	1921	310	71.0	4.5	24.5	
Columbia, S. C.:					1928	691	55.8	12.9	31.3	
1921	272	82.4	14.7	2.9	1929	393	72.5	19.1	8.4	
1928	230	92.2	7.8	-----	Evanston, Ill.:					
1929	276	97.1	1.5	1.4	1921	415	74.0	5.8	20.2	
Columbus, Ga.:					1928	945	20.7	3.7	75.6	
1921	88	68.2	-----	31.8	1929	386	31.3	2.6	66.1	
1928	321	100.0	-----	-----	Evansville, Ind.:					
1929	276	97.1	-----	-----	1921	509	84.3	2.4	13.4	
Columbus, Ohio:					1928	420	91.2	5.2	3.6	
1921	1,317	65.8	31.7	2.5	1929	458	84.3	5.4	10.3	
1928	2,477	58.1	12.1	29.9	Everett, Mass.:					
1929	1,211	62.4	8.7	28.9	1921	15	46.7	53.3	-----	
Covington, Ky.:					1928	283	11.3	35.3	53.4	
1921	198	95.5	2.5	2.0	1929	81	28.4	51.9	19.7	
1928	314	54.8	34.7	10.5						
1929	159	66.1	18.2	15.7						

TABLE 11.—Per cent of families provided for by the different types of dwellings in cities having a population of over 25,000 and under 500,000 in 1921, 1928, and 1929—Continued.

City, State, and year	Total number of families provided for	Per cent of families provided for in—			City, State, and year	Total number of families provided for	Per cent of families provided for in—		
		1-family dwellings	2-family dwellings	Multifamily dwellings			1-family dwellings	2-family dwellings	Multifamily dwellings
<b>Flint, Mich.:</b>					<b>Jacksonville, Fla.:</b>				
1921	348	61.8	33.0	5.2	1921	747	75.8	9.9	14.3
1928	2,221	75.7	16.7	7.6	1928	1,658	60.1	17.2	22.6
1929	2,076	73.9	18.4	7.7	1929	1,638	67.4	14.6	18.0
<b>Fort Wayne, Ind.:</b>					<b>Jamestown, N. Y.:</b>				
1921	586	81.4	14.2	4.4	1921	161	94.4	3.7	1.9
1928	407	98.5	.2	1.2	1928	169	94.7	5.3	-----
1929	578	93.6	1.0	5.4	1929	206	76.7	7.8	15.5
<b>Fort Worth, Tex.:</b>					<b>Jersey City, N. J.:</b>				
1921	909	96.7	-----	3.3	1921	970	4.4	46.3	49.3
1928	1,758	73.9	5.1	21.0	1928	2,155	.4	12.9	86.6
1929	1,262	76.1	12.7	11.2	1929	1,388	.6	12.8	86.6
<b>Galveston, Tex.:</b>					<b>Kansas City, Kans.:</b>				
1921	103	96.1	-----	3.9	1921	395	100.0	-----	-----
1928	369	86.2	4.1	9.8	1928	321	89.4	-----	10.6
1929	350	88.0	2.6	9.4	1929	271	95.6	-----	4.4
<b>Gary, Ind.:</b>					<b>Kansas City, Mo.:</b>				
1921	494	59.1	.4	40.5	1921	2,578	70.1	1.7	28.2
1928	890	67.4	9.2	23.4	1928	1,969	49.0	3.8	47.2
1929	375	45.3	42.4	12.3	1929	2,234	37.1	2.1	60.8
<b>Grand Rapids, Mich.:</b>					<b>Kearny, N. J.:</b>				
1921	630	94.9	2.5	2.5	1921	205	52.7	35.6	11.7
1928	895	93.5	6.5	-----	1928	857	15.3	34.1	50.6
1929	589	90.7	3.7	5.6	1929	261	24.5	54.8	20.7
<b>Great Falls, Mont.:</b>					<b>Kenosha, Wis.:</b>				
1928	260	52.7	6.5	40.8	1921	128	82.8	14.1	3.1
1929	293	53.6	19.1	27.3	1928	295	90.2	7.5	2.4
<b>Greensboro, N. C.:</b>					1929	296	69.6	14.5	15.9
1928	446	90.1	5.4	4.5	<b>Knoxville, Tenn.:</b>				
1929	268	75.7	6.0	18.3	1921	489	98.8	1.2	-----
<b>Greenwich, Conn.:</b>					1928	940	77.2	6.4	16.4
1928	344	68.9	13.1	18.0	1929	472	94.9	.9	4.2
1929	282	88.7	9.9	1.4	<b>Lakewood, Ohio:</b>				
<b>Hamilton, Ohio:</b>					1921	877	26.3	72.3	1.4
1921	192	100.0	-----	-----	1928	537	15.8	11.5	72.6
1928	410	99.0	-----	1.0	1929	203	25.6	31.5	42.9
1929	261	100.0	-----	-----	<b>Lansing, Mich.:</b>				
<b>Hammond, Ind.:</b>					1921	492	93.7	3.9	2.4
1921	288	87.8	12.2	-----	1928	443	99.1	.9	-----
1928	698	67.6	6.4	25.9	1929	537	99.3	.7	-----
1929	312	83.0	5.1	11.9	<b>Lincoln, Nebr.:</b>				
<b>Harrisburg, Pa.:</b>					1921	241	97.5	-----	2.5
1921	179	48.6	44.7	6.7	1928	497	62.6	-----	37.4
1928	206	97.6	2.4	-----	1929	346	71.7	-----	28.3
1929	140	98.6	1.4	-----	<b>Little Rock, Ark.:</b>				
<b>Hartford, Conn.:</b>					1921	749	96.0	1.3	2.7
1921	717	7.8	39.9	52.3	1928	527	76.5	-----	23.5
1928	1,363	8.0	12.8	79.2	1929	356	77.2	.3	22.5
1929	281	19.2	20.7	60.1	<b>Long Beach, Calif.:</b>				
<b>Highland Park, Mich.:</b>					1921	3,882	33.2	7.3	59.5
1921	250	13.2	15.2	71.6	1928	3,099	41.9	14.9	43.2
1928	117	2.6	1.7	95.7	1929	3,198	39.9	17.7	42.4
1929	250	.4	-----	99.6	<b>Lorain, Ohio:</b>				
<b>Houston, Tex.:</b>					1921	146	87.7	6.8	5.5
1921	2,572	88.9	3.4	7.7	1928	227	100.0	-----	-----
1928	4,463	63.5	21.7	14.8	1929	170	97.6	-----	2.4
1929	3,490	65.8	24.4	9.8	<b>Louisville, Ky.:</b>				
<b>Indianapolis, Ind.:</b>					1921	677	88.9	-----	11.1
1921	2,565	56.1	21.4	22.5	1928	1,542	54.9	10.6	34.5
1928	2,511	52.0	14.3	33.7	1929	1,427	34.7	32.1	33.2
1929	1,760	59.8	20.7	19.5	<b>Lynn, Mass.:</b>				
<b>Irvington, N. J.:</b>					1921	140	57.1	12.9	30.0
1921	389	38.8	39.3	21.9	1928	501	26.9	24.0	49.1
1928	1,022	3.9	11.2	84.9	1929	475	25.1	9.9	65.0
1929	170	20.0	29.4	50.6	<b>McKeesport, Pa.:</b>				
<b>Jackson, Mich.:</b>					1921	127	89.0	11.0	-----
1921	108	87.0	3.7	9.3	1928	203	82.3	11.8	5.9
1928	250	93.6	6.4	-----	1929	174	74.7	19.0	6.3
1929	218	83.0	10.1	6.9					

TABLE 11.—Per cent of families provided for by the different types of dwellings in cities having a population of over 25,000 and under 500,000 in 1921, 1928, and 1929—Continued.

City, State, and year	Total number of families provided for	Per cent of families provided for in—			City, State, and year	Total number of families provided for	Per cent of families provided for in—		
		1-family dwellings	2-family dwellings	Multifamily dwellings			1-family dwellings	2-family dwellings	Multifamily dwellings
Macon, Ga.:					New Rochelle, N. Y.:				
1921	162	95.1	-----	4.9	1921	247	74.9	17.8	7.3
1928	321	98.1	-----	1.9	1928	1,205	22.9	2.3	74.8
1929	73	100.0	-----	-----	1929	355	54.7	4.5	40.8
Madison, Wis.:					Newton, Mass.:				
1921	283	73.5	12.7	13.8	1921	249	83.5	15.3	1.2
1928	542	74.5	8.7	16.8	1928	939	61.2	-----	-----
1929	499	45.3	4.0	50.7	1929	568	72.2	27.8	-----
Malden, Mass.:					Niagara Falls, N. Y.:				
1921	94	40.4	27.7	31.9	1921	286	56.3	37.1	6.6
1928	718	18.4	12.0	69.6	1928	506	69.2	22.9	7.9
1929	332	26.2	13.3	60.5	1929	320	69.1	24.7	6.2
Medford, Mass.:					Norfolk, Va.:				
1921	256	46.1	48.0	5.9	1921	419	69.2	17.2	13.6
1928	745	48.3	37.3	14.4	1928	634	43.8	.9	55.2
1929	438	60.0	22.2	17.8	1929	233	89.7	.9	9.4
Memphis, Tenn.:					Norwalk, Conn.:				
1921	1,245	75.3	2.4	22.2	1921	72	83.3	16.7	-----
1928	1,887	41.4	19.1	39.5	1928	358	69.3	13.1	17.6
1929	1,246	60.3	14.3	25.4	1929	262	86.6	11.1	2.3
Minneapolis, Minn.:					Oakland, Calif.:				
1921	3,574	75.9	5.2	18.9	1921	2,681	77.9	4.3	17.8
1928	2,240	57.1	11.6	31.3	1928	2,430	41.6	2.2	56.1
1929	1,570	52.3	14.6	33.1	1929	1,904	36.2	1.6	62.2
Mobile, Ala.:					Oak Park, Ill.:				
1928	638	92.3	1.3	6.4	1921	720	70.3	4.7	25.0
1929	299	100.0	-----	-----	1928	745	25.9	.7	73.4
Montclair, N. J.:					1929	310	25.5	.3	74.2
1921	276	65.9	9.4	24.7	Oklahoma City, Okla.:				
1928	323	54.2	17.3	28.5	1921	1,724	83.8	2.2	13.9
1929	165	83.0	17.0	-----	1928	2,637	76.9	6.4	16.7
Montgomery, Ala.:					1929	3,023	51.2	19.6	29.2
1928	726	91.2	.8	8.0	Omaha, Nebr.:				
1929	488	95.9	.8	3.3	1921	1,298	76.1	.6	23.3
Mount Vernon, N. Y.:					1928	412	82.3	4.4	13.3
1921	246	66.3	16.3	17.4	1929	461	64.9	4.3	30.8
1928	1,636	18.5	4.5	77.0	Orange, N. J.:				
1929	325	33.2	12.0	54.8	1921	55	25.5	52.7	21.8
Muncie, Ind.:					1928	281	6.8	24.2	69.0
1921	64	75.0	12.5	12.5	1929	136	7.4	5.1	87.5
1928	371	90.8	.3	8.9	Pasadena, Calif.:				
1929	319	96.6	2.5	0.9	1921	1,262	85.9	2.2	11.9
Nashville, Tenn.:					1928	600	58.3	10.5	31.2
1921	470	89.8	-----	10.2	1929	401	83.1	4.2	12.7
1928	753	71.3	11.2	17.5	Passaic, N. J.:				
1929	781	59.7	3.7	36.6	1921	426	16.4	60.1	23.5
Newark, N. J.:					1928	351	18.8	11.1	70.1
1921	1,393	19.1	49.1	31.8	1929	115	40.9	19.1	40.0
1928	3,288	2.3	12.9	84.8	Paterson, N. J.:				
1929	693	19.0	22.4	58.6	1921	587	39.2	54.5	6.3
New Britain, Conn.:					1928	748	23.4	20.9	55.7
1921	215	20.0	38.1	41.9	1929	435	26.0	36.1	37.9
1928	327	39.1	33.0	27.8	Pawtucket, R. I.:				
1929	130	62.3	30.8	6.9	1921	277	45.8	32.5	21.7
New Brunswick, N. J.:					1928	455	63.5	29.9	6.6
1921	129	25.6	71.3	3.1	1929	318	67.6	27.4	5.0
1928	210	48.6	12.4	39.0	Peoria, Ill.:				
1929	195	20.5	19.0	60.5	1921	300	82.0	12.7	5.3
New Haven, Conn.:					1928	437	82.4	.7	16.9
1921	444	21.2	40.1	38.7	1929	566	91.5	1.7	6.8
1928	546	23.3	8.4	68.3	Phoenix, Ariz.:				
1929	276	43.1	7.6	49.3	1921	407	73.9	-----	26.1
New London, Conn.:					1928	748	69.5	17.6	12.8
1921	218	46.8	21.1	32.1	1929	995	50.4	26.1	23.5
1928	112	82.1	11.6	6.3	Pittsfield, Mass.:				
New Orleans, La.:					1921	43	95.3	4.7	-----
1921	2,335	41.8	47.2	11.0	1928	211	65.9	15.2	19.0
1928	2,107	20.7	72.9	6.3	1929	211	88.2	10.4	1.4
1929	1,060	34.9	54.0	11.1					



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		1-family dwellings	2-family dwellings	Multifamily dwellings			1-family dwellings	2-family dwellings	Multifamily dwellings
Plainfield, N. J.:					St. Joseph, Mo.:				
1921	135	100.0			1921	7	100.0		
1928	311	73.6	14.5	11.9	1928	98	64.3		35.7
1929	128	86.0	10.9	3.1	1929	205	53.7		46.3
Pontiac, Mich.:					St. Paul, Minn.:				
1921	60	96.7	3.3		1921	2,194	78.6	4.6	16.8
1928	1,735	69.2	7.7	23.1	1928	773	86.3	6.7	7.0
1929	1,284	63.3	7.6	29.1	1929	591	78.0	6.6	15.4
Port Arthur, Tex.:					Salt Lake City, Utah:				
1928	210	100.0			1921	826	90.0	3.8	6.2
1929	58		31.0	69.0	1928	731	52.7	15.0	32.3
Portland, Me.:					1929	699	59.5	7.4	33.1
1921	207	78.3	.5	21.3	San Antonio, Tex.:				
1928	261	62.1	2.7	35.2	1921	1,718	95.5		4.5
1929	172	72.7	3.5	23.8	1928	2,784	70.8	6.1	23.1
Portland, Oreg.:					1929	2,233	76.4	11.5	12.1
1921	3,136	91.4	2.6	6.1	San Diego, Calif.:				
1928	2,321	69.1	3.4	27.6	1921	1,450	88.6	.3	11.1
1929	1,586	59.3	1.0	39.7	1928	2,146	73.6	3.7	22.7
Providence, R. I.:					1929	1,318	74.0	6.4	19.6
1921	566	33.9	51.2	14.8	San Jose, Calif.:				
1928	1,134	42.2	31.7	26.1	1921	300	83.7	3.6	12.7
1929	842	43.5	30.3	26.2	1928	370	67.0	5.9	27.0
Pueblo, Colo.:					1929	335	70.7	1.8	27.5
1921	288	98.6		1.4	Savannah, Ga.:				
1928	372	90.0	17.5	3.5	1921	347	81.0		19.0
1929	193	90.2	9.8		1928	430	59.1	15.8	25.1
Quincy, Mass.:					1929	195	68.2	11.3	20.5
1921	404	57.2	34.4	8.4	Schenectady, N. Y.:				
1928	977	46.4	14.3	39.3	1921	193	70.0	30.0	
1929	550	52.4	6.0	41.6	1928	269	89.2	9.7	1.1
Racine, Wis.:					1929	278	87.8	7.2	5.0
1921	169	77.5	15.4	7.1	Scranton, Pa.:				
1928	681	43.2	33.2	23.6	1921	75	81.3	18.7	
1929	653	38.4	41.2	20.4	1928	292	51.7	13.7	34.6
Reading, Pa.:					1929	137	67.2	21.9	10.9
1922	333	56.2	27.0	16.8	Seattle, Wash.:				
1928	263	97.3	2.7		1921	1,961	90.5		9.5
1929	253	89.3	4.0	6.7	1928	4,658	50.1	.6	49.4
Revere, Mass.:					1929	3,289	51.8	.7	47.5
1921	152	69.7	30.3		Shreveport, La.:				
1928	247	53.8	38.1	8.1	1921	1,157	100.0		
1929	95	72.6	27.4		1928	713	70.5	11.5	18.0
Richmond, Va.:					1929	543	76.4	11.4	12.2
1921	741	78.1		21.9	Sioux City, Iowa.:				
1928	764	63.4	9.4	27.2	1921	638	90.4	5.0	4.5
1929	590	63.4	10.5	26.1	1928	282	69.9	3.5	26.6
Roanoke, Va.:					1929	308	50.0		60.0
1921	351	100.0			Sioux Falls, S. Dak.:				
1928	364	56.0	13.7	30.2	1921	303	100.0		
1929	320	38.8	5.0	56.2	1928	211	71.6	28.4	
Rochester, N. Y.:					1929	171	76.6	4.7	18.7
1921	1,319	72.1	17.1	10.8	Somerville, Mass.:				
1928	1,862	46.1	6.8	47.2	1921	204	5.4	75.5	19.1
1929	496	87.5	3.4	9.1	1928	199	1.0	64.3	34.7
Rockford, Ill.:					1929	286	5.2	24.5	70.3
1921	351	68.7	16.5	14.8	South Bend, Ind.:				
1928	779	54.6	17.5	28.0	1921	665	8.0	13.8	8.1
1929	621	59.3	24.0	16.7	1928	579	95.9	2.1	2.1
Rock Island, Ill.:					1929	661	90.2	.4	9.4
1921	94	92.6	7.4	0.0	Spokane, Wash.:				
1928	146	78.1		21.9	1921	438	98.7		1.3
1929	200	87.0		13.0	1928	574	82.8	1.4	15.9
Sacramento, Calif.:					1929	419	83.5	1.0	15.5
1921	737	84.0	4.6	11.4	Springfield, Ill.:				
1928	917	74.4	12.3	13.3	1921	210	76.7	6.7	16.6
1929	693	55.8	16.5	27.7	1928	352	81.0	2.8	16.2
Saginaw, Mich.:					1929	229	78.2	3.5	18.3
1921	251	96.8	1.6	1.6	Springfield, Mass.:				
1928	577	90.5	2.6	6.9	1921	827	59.9	30.0	10.2
1929	501	97.6	1.6	0.8	1928	647	63.8	13.9	22.3
					1929	466	62.7	9.0	28.3

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		1-family dwellings	2-family dwellings	Multifamily dwellings			1-family dwellings	2-family dwellings	Multifamily dwellings
<b>Springfield, Mo.:</b>					<b>Waltham, Mass.:</b>				
1921	305	87.9	1.6	10.5	1921	137	92.7	4.4	2.9
1929	218	95.4	.9	3.7	1928	362	43.9	25.4	25.7
<b>Springfield, Ohio:</b>					1929	205	51.2	29.3	19.5
1921	253	90.9	9.1	-----	<b>Warren, Ohio:</b>				
1928	315	79.7	15.2	5.1	1921	171	94.7	5.3	-----
1929	244	79.5	13.9	6.6	1928	306	95.4	2.6	2.0
<b>Stamford, Conn.:</b>					1929	269	90.3	5.2	4.5
1921	190	50.5	34.7	14.7	<b>Waterbury, Conn.:</b>				
1928	331	60.4	27.8	11.8	1921	271	43.2	22.9	33.9
1929	315	46.7	39.3	14.0	1928	504	44.6	19.0	36.3
<b>Stockton, Calif.:</b>					1929	262	60.3	26.0	13.7
1921	624	66.8	-----	33.2	<b>Waterloo, Iowa:</b>				
1928	226	86.3	4.4	9.3	1928	270	98.5	-----	1.5
1929	151	53.0	6.0	41.0	1929	357	81.5	-----	18.5
<b>Syracuse, N. Y.:</b>					<b>Watertown, Mass.:</b>				
1921	627	55.5	38.8	5.7	1928	454	17.6	82.4	-----
1928	1,561	53.1	14.8	32.1	1929	221	31.2	68.8	-----
1929	793	73.4	21.1	5.5	<b>White Plains, N. Y.:</b>				
<b>Tacoma, Wash.:</b>					1928	856	34.8	1.9	63.3
1921	843	93.1	-----	6.9	1929	345	53.9	1.2	44.9
1928	822	65.9	-----	34.1	<b>Wichita, Kans.:</b>				
1929	515	62.1	-----	37.9	1921	1,336	93.2	2.8	4.0
<b>Tampa, Fla.:</b>					1928	1,207	73.1	7.4	19.6
1921	422	89.3	5.2	5.5	1929	1,580	66.8	8.4	24.8
1928	647	93.0	1.7	5.3	<b>Wichita Falls, Tex.:</b>				
1929	188	96.3	3.7	-----	1928	222	89.2	5.4	5.4
<b>Toledo, Ohio:</b>					1929	109	85.3	-----	14.7
1921	600	80.3	15.7	4.0	<b>Wilmington, Del.:</b>				
1928	1,698	68.0	10.5	21.4	1921	66	71.2	7.6	21.2
1929	1,310	62.1	11.2	26.7	1928	365	88.5	.8	10.7
<b>Topeka, Kans.:</b>					1929	383	63.2	7.0	29.8
1921	188	84.0	-----	16.0	<b>Winston-Salem, N. C.:</b>				
1928	304	75.7	.7	23.7	1921	356	94.1	.6	5.3
1929	191	81.2	3.1	15.7	1928	965	63.8	5.9	30.3
<b>Trenton, N. J.:</b>					1929	317	73.5	6.3	20.2
1921	317	89.3	-----	10.7	<b>Worcester, Mass.:</b>				
1928	223	77.6	-----	22.4	1921	715	67.0	17.8	15.2
1929	87	72.4	-----	27.6	1928	474	68.4	16.5	15.2
<b>Tucson, Ariz.:</b>					1929	379	73.4	13.7	12.9
1921	336	91.7	6.0	2.4	<b>Yonkers, N. Y.:</b>				
1929	340	82.4	4.1	13.5	1921	433	76.0	-----	24.0
<b>Tulsa, Okla.:</b>					1928	4,216	14.8	4.9	80.3
1921	1,138	77.5	5.1	17.4	1929	1,808	20.2	6.1	73.7
1928	2,187	48.0	21.8	30.3	<b>Youngstown, Ohio:</b>				
1929	1,646	51.5	17.1	31.4	1921	724	62.2	20.7	17.1
<b>Utica, N. Y.:</b>					1928	929	83.6	10.2	6.1
1921	478	43.3	56.7	-----	1929	525	84.0	15.2	0.8
1928	342	59.9	8.2	31.9					
1929	111	96.4	3.6	-----					

## General Table

**G**ENERAL TABLE A, pages 32 to 109, shows detailed information for 311 cities in 1929 and 309 cities in 1928. The table is divided into three parts.

Part 1 relates to new residential buildings, giving the number and cost of each kind of dwelling, the number of families provided with dwelling places in new buildings, and the ratio of families provided for to each 10,000 of population in each city from which data were received for both 1928 and 1929.

Part 2 gives the number and cost of new nonresidential buildings for each city from which reports were received.

Part 3 shows the number and cost of additions, alterations, and repairs to old buildings, the number and cost of installations, and the grand total of all buildings both new and old.

The number of installation permits and their construction costs were obtained whenever such permits were issued by the building inspector. In a number of cities, however, these permits were issued by offices other than that of the building inspector, and no data were collected in such cities.

In 1928, permits were issued for 70,728 installations to cost \$38,366,967 compared with 108,458 installations at an estimated cost of \$48,131,567 in 1929.

The bureau attempted to classify additions, alterations, and repairs under the headings, repairs, etc., to housekeeping dwellings, nonhousekeeping dwellings, and to nonresidential buildings. Many of the cities which reported by mail, however, grouped all repairs under the heading, total repairs.

In the 311 cities which reported for 1929, permits were issued for 276,276 repairs to old buildings. The cost of these repairs was estimated to be \$367,522,987. In 1928, permits were issued for 277,848 repairs at an estimated cost of \$324,039,903.

The total estimated expenditure for the 583,338 building operations (including new buildings and repairs to old buildings), for which permits were issued in 311 cities in 1929, was \$3,035,681,481. In 1928, permits were issued for 662,929 building operations in 309 cities at an estimated cost of \$3,421,975,795.

**TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings**

**PART 1.—NEW RESIDENTIAL BUILDINGS**

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
Akron, Ohio	1928	2,041	\$10,348,998	2,051	76	\$635,750	152				71	\$1,179,400	354			
	1929	1,742	8,515,158	1,742	68	536,500	136				40	1,041,000	293			
Alameda, Calif.	1928	170	886,317	170	2	10,500	4				11	532,407	330			
	1929	114	531,835	114	1	4,500	2				11	584,000	288			
Albany, N. Y.	1928	300	4,516,700	300	89	2,078,500	178				12	765,000	121	1	\$100,000	16
	1929	186	2,314,100	186	26	427,000	52				13	843,000	147			
Allentown, Pa.	1928	482	2,779,300	482				5	\$46,200	7	4	116,500	35	3	223,000	32
	1929	374	2,237,700	374				22	62,500	23						
Alton, Ill.	1928	156	544,224	156	4	12,500	8	2	11,000	3						
	1929	100	401,828	100	1	5,000	2				1	5,100	3			
Altoona, Pa.	1928	149	904,390	149	1	4,500	2	4	21,200	4						
	1929	173	794,450	173	4	25,000	8	3	29,985	6				1	20,000	4
Amsterdam, N. Y.	1928	18	149,100	18	11	83,500	22	1	10,000	2						
	1929	50	397,182	50	1	11,000	2									
Anderson, Ind.	1928	248	824,550	248	1	6,500	2	1	12,500	2	3	38,000	16			
	1929	185	574,400	185	1	6,500	2				4	96,500	28			
Asheville, N. C.	1928	258	1,178,750	258				4	25,000	8	15	495,550	94	1	50,000	10
	1929	92	379,400	92							6	49,250	28			
Ashtabula, Ohio	1928	20	150,250	20												
	1929	16	77,650	16												
Atlanta, Ga.	1928	1,319	5,607,700	1,319	220	939,089	440	9	18,300	10	149	3,400,900	1,398	1	2,500	3
	1929	723	3,101,943	723	151	530,810	302	7	16,400	7	41	706,700	357			
Atlantic City, N. J.	1928	37	151,265	37	5	21,000	10	1	16,000	1	1	55,000	6	1	16,000	3
	1929	14	82,226	14	3	30,000	6	1	8,000	1	2	195,000	18	2	31,500	13
Auburn, N. Y.	1928	31	159,125	31												
	1929	40	218,470	40	5	45,200	10									
Augusta, Ga.	1928	259	643,094	259	13	42,250	26	4	10,300	5	1	120,000	28			
	1929	193	529,032	193	7	26,500	14									
Aurora, Ill.	1928	264	1,426,549	264	1	9,000	2	1	16,000	2	1	110,000	33			
	1929	178	935,172	178	3	31,000	6							2	25,000	8
Austin, Tex.	1929	500	1,202,610	500	5	15,000	10	7	17,500	10	5	37,500	25			
Baltimore, Md.	1928	2,491	10,750,000	2,491							10	1,910,000	393			
	1929	2,801	11,880,200	2,801	1	7,000	2				3	1,050,000	219			

Bangor, Me.....	1928	33	117, 550	33	1	7, 000	2	3	12, 000	3								
	1929	32	160, 800	32					12, 500	4								
Baton Rouge, La.....	1929	61	237, 097	61					1, 800	1								
Battle Creek, Mich.....	1928	163	669, 750	163	5	43, 000	10									1	40, 000	4
	1929	164	647, 950	164	1	11, 000	2				1	16, 000	3					
Bay City, Mich.....	1928	54	209, 200	54							1	20, 000	3					
	1929	63	256, 700	63														
Bayonne, N. J.....	1928	3	20, 000	3	39	257, 500	78	3	16, 000	5	21	557, 000	306	8	118, 000	44		
	1929	2	12, 000	2	12	73, 500	24	2	23, 000	2	2	48, 000	29	1	7, 000	1		
Beaumont, Tex.....	1928	540	1, 486, 841	540														
	1929	437	1, 235, 734	437														
Belleville, Ill.....	1928	136	666, 000	136														
	1929	114	555, 433	114	4	30, 500	8	3	24, 700	5								
Bellingham, Wash.....	1928	249	629, 000	249							2	45, 000	15					
	1929	126	286, 475	126														
Berkeley, Calif.....	1928	372	1, 883, 701	372	9	52, 000	18	3	26, 500	5	68	2, 067, 350	911	1	68, 000	24		
	1929	302	1, 402, 600	302							16	648, 700	285					
Bethlehem, Pa.....	1928	97	777, 000	97	41	478, 500	82	7	63, 500	11	4	57, 000	17	1	45, 000	16		
	1929	92	672, 475	92	46	425, 300	92	4	58, 000	7	3	33, 000	10					
Binghamton, N. Y.....	1928	106	608, 881	106	47	357, 540	94				13	268, 000	106					
	1929	58	351, 800	58	26	221, 200	52				7	152, 000	59					
Birmingham, Ala.....	1928	1, 818	5, 675, 004	1, 818	4	10, 500	8		45, 200	12	83	1, 499, 631	751					
	1929	511	1, 467, 250	511	1	3, 500	2	3	8, 500	3	18	271, 500	170					
Bloomfield, N. J.....	1928	288	1, 656, 000	288	94	922, 000	188	5	75, 000	9	16	562, 000	155	2	155, 000	35		
	1929	256	1, 588, 700	256	19	186, 000	38	1	8, 000	2	33	714, 000	180					
Bloomington, Ill.....	1928	85	561, 000	85							1	40, 000	5					
	1929	110	803, 000	110	2	20, 000	4											
Boston, Mass.....	1928	647	3, 877, 400	647	952	8, 163, 200	1, 904	2	22, 000	3	558	14, 504, 950	4, 251					
	1929	503	2, 922, 512	503	404	3, 410, 900	806	2	71, 000	2	153	8, 225, 300	2, 014					
Bridgeport, Conn.....	1928	173	1, 043, 300	173	53	441, 100	106				19	255, 600	57					
	1929	175	1, 147, 910	175	64	561, 600	128	4	39, 000	6	36	519, 200	232	4	205, 000	52		
Brockton, Mass.....	1928	131	695, 950	131	5	37, 000	10											
	1929	93	496, 200	93	2	17, 000	4											
Brookline, Mass.....	1928	118	2, 127, 100	118	40	491, 500	80				63	2, 446, 500	358					
	1929	91	1, 949, 400	91	22	237, 080	44				39	1, 490, 000	227					
Buffalo, N. Y.....	1928	704	3, 330, 075	704	676	2, 969, 025	1, 352	36	487, 500	63	52	3, 282, 500	896	47	681, 850	166		
	1929	334	2, 261, 500	334	434	1, 892, 620	868	27	263, 000	44	37	1, 732, 300	488	11	141, 500	35		
Burlington, Iowa.....	1928	53	177, 500	53	1	600	2											
	1929	52	164, 800	52														
Butler, Pa.....	1928	40	258, 300	40														
	1929	28	161, 100	28														
Butte, Mont.....	1928	7	11, 500	7				2	8, 500	3								
	1929																	
Cambridge, Mass.....	1928	46	461, 500	46	115	898, 800	230				17	2, 221, 000	587					
	1929	22	261, 500	22	35	303, 600	70				16	3, 133, 000	696					
Camden, N. J.....	1928	307	1, 070, 650	307	13	34, 800	26	10	59, 500	17								
	1929	252	843, 100	252	28	115, 000	56	8	76, 700	12								
Canton, Ohio.....	1928	335	1, 878, 550	335	3	21, 300	6				2	31, 000	9	1	250, 000	24		
	1929	303	1, 675, 965	303	2	17, 500	4				3	71, 000	24					
Cedar Rapids, Iowa.....	1928	151	653, 940	151							3	35, 000	6					
	1929	109	568, 664	109							1	12, 000	4					

GENERAL TABLE

**TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued**

**PART 1.—NEW RESIDENTIAL BUILDINGS—Continued**

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
Central Falls, R. I.	1928	3	\$12,000	3	19	\$73,000	38				1	\$7,000	3			
	1929	7	34,700	7	15	98,000	30				5	38,200	16	2	\$37,000	7
Charleston, S. C.	1928	45	158,800	45				1	\$1,500	1						
	1929	91	259,825	91				5	7,075	6						
Charleston, W. Va.	1928	216	731,500	216	8	25,500	16	2	7,000	2	8	96,000	24			
	1929	183	561,435	183	18	134,500	36	3	19,000	5	7	74,000	38			
Charlotte, N. C.	1928	302	1,471,786	302	81	305,110	162	5	34,800	8	72	1,270,370	466	2	51,000	8
	1929	593	2,770,740	593	32	248,450	64				13	204,250	68	1	40,000	6
Chattanooga, Tenn.	1928	311	1,128,075	311	17	39,500	34	5	17,600	5	23	637,700	250	2	45,000	11
	1929	192	539,727	192	29	52,300	58	2	10,000	2	8	90,800	64	1	10,000	8
Chelsea, Mass.	1928	11	50,500	11	64	512,500	128				1	10,000	3			
	1929	7	59,000	7	6	44,000	12				2	60,000	17			
Chester, Pa.	1928	225	930,000	225							3	70,000	18			
	1929	94	418,450	94	2	17,000	4									
Chicago, Ill.	1928	4,209	26,597,300	4,209	1,090	11,635,900	2,180	192	2,786,500	252	1,537	111,734,200	23,247	318	21,996,000	4,559
	1929	2,804	19,369,150	2,804	619	8,291,600	1,238	101	1,311,300	126	807	50,535,500	12,919	114	7,497,200	1,750
Chicopee, Mass.	1928	71	254,300	71	14	104,000	28							1	10,000	3
	1929	66	251,350	66	3	22,500	6				2	37,000	8			
Cicero, Ill.	1928	108	813,800	108	29	354,800	58	1	20,000	2	10	492,000	138	20	857,000	160
	1929	98	750,200	98	29	352,500	58	7	110,500	10	9	391,200	98	16	417,800	64
Cincinnati, Ohio.	1928	1,821	13,927,985	1,821	179	1,888,750	358				82	5,781,000	1,377	1	30,500	3
	1929	1,243	9,676,860	1,243	151	980,800	302				31	2,280,500	532			
Clarksburg, Va.	1928	58	254,350	58	2	22,500	4	20	80,385	36						
	1929	47	195,800	47				10	23,900	15	1	10,000	4			
Cleveland, Ohio.	1928	1,354	8,298,100	1,354	311	3,219,500	622	37	224,000	66	65	4,080,000	1,050	19	425,500	75
	1929	1,163	6,542,300	1,163	196	2,045,500	392	14	156,000	23	21	2,779,000	546	4	103,000	19
Clifton, N. J.	1928	240	1,357,650	240	67	469,500	134	8	125,500	13	15	509,000	145	1	75,000	15
	1929	212	1,157,700	212	47	340,900	94	3	29,000	4	2	79,000	24	4	104,000	25
Colorado Springs, Colo.	1928	86	296,440	86							1	44,000	9			
	1929	65	345,375	65												
Columbia, S. C.	1928	224	914,000	224	20	150,000	40				2	44,000	8			
	1929	212	643,475	212	9	54,100	18									

Columbus, Ga.	1928	321	700,724	321														
	1929	268	555,760	268	2	4,800	4											
Columbus, Ohio	1928	1,438	7,382,100	1,438	147	1,184,200	294											
	1929	756	4,292,150	756	51	451,000	102	4	29,500	5	86	2,336,500	625	17	601,000	115		
Council Bluffs, Iowa	1928	75	234,400	75														
	1929	67	234,000	67														
Covington, Ky.	1928	172	584,000	172	48	261,200	96											
	1929	105	335,500	105	11	48,500	22	11	53,000	13	7	18,000	16					
Cranston, R. I.	1928	432	2,164,900	432	36	288,300	72	4	28,500	7	3	55,000	33					
	1929	388	1,924,900	388	30	222,100	60							1	11,000	5		
Cumberland, Md.	1928	64	271,810	64	1	11,000	2											
	1929	59	272,360	59	1	8,425	2	1	1,200	1								
Dallas, Tex.	1928	704	1,804,009	704	174	1,015,665	348	2	31,697	2								
	1929	501	1,365,675	501	160	797,623	320											
Danville, Ill.	1928	137	518,086	137														
	1929	115	439,250	115														
Davenport, Iowa	1928	132	588,250	132	1	9,400	2											
	1929	158	741,651	158	2	11,000	4	2	22,000	2	1	16,000	4					
Dayton, Ohio	1928	298	1,333,188	298	43	254,300	86											
	1929	120	619,617	120	12	88,560	24											
Decatur, Ill.	1928	331	1,935,500	331														
	1929	210	1,121,300	210	1	6,650	2											
Denver, Colo.	1928	1,136	5,869,200	1,136	36	275,000	72											
	1929	749	3,877,850	749	36	263,500	72											
Des Moines, Iowa	1928	337	1,564,328	337	3	23,000	6											
	1929	289	1,489,350	289	5	29,000	10											
Detroit, Mich.	1928	6,794	35,841,184	6,794	2,242	15,368,447	4,484	30	459,500	40	350	12,740,280	4,252	89	2,638,695	359		
	1929	5,926	31,391,841	5,926	1,577	11,294,124	3,154	43	627,100	67	279	7,440,733	2,806	56	987,711	198		
Dubuque, Iowa	1928	54	219,500	54														
	1929	56	192,933	56														
Duluth, Minn.	1928	177	874,650	177	3	23,000	6	1	5,000	1								
	1929	107	656,845	107	2	18,000	4											
Durham, N. C.	1928	400	1,340,035	400	8	63,400	16											
	1929	176	600,687	176	7	31,150	14											
East Chicago, Ind.	1928	59	281,750	59	14	143,850	28	8	75,350	12	12	222,500	60	10	227,400	45		
	1929	47	259,102	47	16	547,150	32	5	64,650	5								
East Cleveland, Ohio	1928	14	143,700	14	1	9,500	2											
	1929	30	358,500	30														
Easton, Pa.	1928	16	149,425	16	4	53,060	8											
	1929	16	98,950	16														
East Orange, N. J.	1928	38	311,650	38	38	327,060	76	4	44,500	8	37	3,808,000	813	2	140,660	33		
	1929	25	166,800	25	29	262,500	58	2	23,000	4	20	2,367,200	398	1	70,000	15		
East Providence, R. I.	1928	212	1,227,725	212	25	207,300	50	4	32,000	6	1	11,000	3					
	1929	171	917,192	171	21	175,360	42											
East St. Louis, Ill.	1928	367	1,391,980	367	23	131,400	46	2	24,400	3	13	260,600	81	1	35,500	4		
	1929	298	1,000,455	298	30	154,000	60	8	48,950	9	3	42,700	12					
Elgin, Ill.	1928	194	1,015,070	194	3	18,500	6											
	1929	138	666,385	138														
Elizabeth, N. J.	1928	143	1,130,000	143	51	415,000	102	8	104,000	23	111	1,616,000	671	8	186,000	63		
	1929	123	916,000	123	43	331,000	86	6	56,000	11	65	766,000	279	3	76,000	15		
Elkhart, Ind.	1928	140	490,261	140														
	1929	107	426,050	107														

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART I.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
Elmira, N. Y.	1928	102	\$556,100	102						1	\$75,000	18				
	1929	67	534,135	67	2	\$17,300	4	1	\$6,000	1						
El Paso, Tex.	1928	220	790,441	220	7	29,010	14			14	80,975	76				
	1929	386	1,464,924	386	40	183,300	80	4	12,700	9	255,900	190	2	\$36,000	26	
Erie, Pa.	1928	320	1,754,100	320	28	228,100	56	9	96,300	13	1	26,000	8			
	1929	235	1,412,509	235	36	183,700	72	3	17,000	3	2	66,000	33			
Evanston, Ill.	1928	196	2,711,000	196	17	244,000	34	1	16,000	1	39	3,688,000	526	9	1,055,000	188
	1929	121	1,529,000	121	5	72,000	10	14	1,579,000	243	2	140,000	12			
Evansville, Ind.	1928	383	1,392,550	383	6	31,000	12	7	36,700	10	3	16,000	9	1	12,000	6
	1929	386	1,788,900	386	12	76,000	24	1	2,000	1	2	130,000	47			
Everett, Mass.	1928	32	222,600	32	50	344,500	100				9	410,500	151			
	1929	23	110,300	23	21	161,000	42				4	34,500	16			
Everett, Wash.	1928	107	222,300	107							3	40,000	16			
	1929	73	176,240	73	4	32,500	8				1	50,000	42			
Fall River, Mass.	1928	81	353,420	81	8	67,100	16	1	3,000	1	3	34,000	9	1	11,500	3
	1929	37	157,150	37	4	38,500	8				1	8,500	3			
Fitchburg, Mass.	1928	19	85,800	19	2	9,700	4	1	15,000	2						
	1929	31	184,600	31	1	6,000	2									
Flint, Mich.	1928	1,682	7,014,241	1,682	176	1,031,832	352	15	90,940	18	15	248,631	133	6	109,500	36
	1929	1,534	6,521,591	1,534	183	1,112,150	366	12	113,496	17	36	405,384	147	1	40,000	12
Fond du Lac, Wis.	1928	55	193,000	55										1	10,000	4
	1929	47	175,180	47												
Fort Wayne, Ind.	1928	401	2,107,815	401				1	3,000	1				1	18,000	5
	1929	541	2,758,703	541	3	17,000	6				1	90,000	31			
Fort Worth, Tex.	1928	1,299	5,201,037	1,299	32	184,768	64	15	117,483	25	43	766,947	316	17	132,160	54
	1929	960	3,667,221	960	62	358,375	124	22	102,665	37	30	363,215	127	4	55,000	14
Fresno, Calif.	1928	118	415,645	118				2	15,000	4	2	50,000	24			
	1929	145	559,325	145				8			8	121,500	42			
Galveston, Tex.	1928	318	1,022,459	318	1	4,850	2	9	33,477	13	6	53,000	25	3	22,900	11
	1929	303	1,064,652	303	2	14,500	4	5	22,000	5	2	85,000	24	1	10,000	9
Gary, Ind.	1928	600	2,795,995	600	33	153,780	66	10	106,000	16	43	529,800	172	12	116,000	36
	1929	170	779,000	170	71	180,200	142	5	72,700	17	12	136,500	46			





TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
Johnstown, Pa.	1928	46	\$250,250	46	9	\$69,500	18	5	\$15,400	5	1	\$10,000	4			
	1929	28	168,550	28	4	25,000	8	10	72,000	10						
Joliet, Ill.	1928	148	1,178,400	148	2	35,500	4	1	44,000	2	2	130,000	18	1	\$25,000	8
	1929	154	1,187,400	154	17	268,400	34									
Joplin, Mo.	1928	99	367,200	99							3	224,000	52			
	1929	51	168,750	51	1	8,500	2	1	20,000	10						
Kalamazoo, Mich.	1928	148	591,025	148	1	4,500	2				3	30,000	12	1	15,000	3
	1929	118	549,390	118	3	27,000	6				6	91,000	36			
Kansas City, Kans.	1928	287	578,620	287							4	59,000	30	1	11,000	4
	1929	259	588,350	259							2	70,000	12			
Kansas City, Mo.	1928	965	4,594,700	965	37	323,500	74				41	2,701,000	927	1	10,000	3
	1929	830	3,542,300	830	19	124,500	38	5	40,000	8	43	3,220,000	1,308	1	100,000	10
Kearny, N. J.	1928	131	718,500	131	144	991,000	288	2	32,000	4	20	1,135,500	421	3	68,000	53
	1929	64	397,500	64	70	478,700	140	2	25,000	3	5	123,000	54			
Kenosha, Wis.	1928	266	2,248,418	266	8	77,660	16	5	114,500	6	2	44,000	7			
	1929	206	1,575,628	206	18	149,000	36	7	103,250	7	3	51,000	15	2	250,000	32
Kingston, N. Y.	1928	114	626,050	114	3	32,000	6				1	25,000	6			
	1929	51	281,000	51	1	9,500	2									
Knoxville, Tenn.	1928	726	2,497,141	726	30	163,600	60	1			20	526,800	154			
	1929	448	1,830,575	448	1	2,400	2	1	6,000	2	6	153,000	20			
Kokomo, Ind.	1928	40	195,262	40							2	155,000	42			
	1929	55	173,300	55	7	50,000	14				1	4,800	6			
Lakewood, Ohio	1928	85	920,600	85	31	397,800	62				12	775,000	370	5	79,000	20
	1929	52	447,300	52	32	262,500	64				7	400,000	57			
Lancaster, Pa.	1928	154	839,050	154												
	1929	156	745,950	156												
Lansing, Mich.	1928	439	1,986,800	439	2	18,000	4									
	1929	533	2,661,183	533				2	25,000	4						
Lawrence, Mass.	1928	8	53,200	8	1	14,000	2				4	37,000	22			
	1929	7	37,500	7	1	8,000	2	1	3,000	1	2	21,000	12			
Lebanon, Pa.	1928	19	101,000	19												
	1929	19	100,000	19												

Lewiston, Me.....	1928	19	62,000	19	2	21,000	4	1	7,000	2	5	58,000	52				
	1929	34	120,000	34	3	45,000	6				1	27,000	9				
Lexington, Ky.....	1928	104	573,400	104													
	1929	93	230,255	93							9	134,675	40				
Lima, Ohio.....	1928	13	68,100	13	3	18,000	6										
	1929	6	19,500	6													
Lincoln, Nebr.....	1928	311	1,491,712	311							9	310,000	186				
	1929	248	1,197,350	248							6	134,000	98				
Little Rock, Ark.....	1928	403	1,724,985	403							24	354,152	124				
	1929	275	1,163,282	275				1	3,000	1	19	240,175	80				
Long Beach, Calif.....	1928	1,297	4,134,840	1,297	225	1,157,335	450	8	43,350	13	174	2,931,840	1,278	16	364,150	61	
	1929	1,275	4,271,780	1,275	274	1,433,250	548	14	97,300	18	183	2,692,400	1,318	8	98,500	39	
Lorain, Ohio.....	1928	227	815,140	227													
	1929	166	609,800	166							1	13,000	4				
Los Angeles, Calif.....	1928	6,593	25,487,401	6,593	1,051	7,220,809	2,102				1,106	28,268,917	12,386				
	1929	5,301	21,177,333	5,301	888	6,587,298	1,776				908	17,632,360	8,157				
Louisville, Ky.....	1928	847	4,669,550	847	57	576,800	114	33	184,750	49	114	2,518,100	439	9	301,100	93	
	1929	495	2,406,450	495	183	1,241,660	366	59	397,990	92	70	807,000	401	11	257,500	73	
Lowell, Mass.....	1928	48	165,600	48	1	5,000	2										
	1929	35	139,425	35				1	7,000	2							
Lynchburg, Va.....	1928	114	499,710	114													
	1929	84	298,025	84				7	39,630	8							
Lynn, Mass.....	1928	135	701,850	135	60	492,900	120				17	703,750	246				
	1929	119	625,000	119	22	185,300	44	2	16,500	3	13	914,000	309				
McKeesport, Pa.....	1928	167	808,235	167	7	71,500	14	7	58,800	10	1	35,000	8	1	7,000	4	
	1929	130	790,585	130	9	100,650	18	14	69,635	15	2	44,000	8	1	17,000	3	
Macon, Ga.....	1928	315	1,233,170	315							1	15,000	6				
	1929	73	285,040	73													
Madison, Wis.....	1928	404	4,028,000	404	17	188,800	34	7	111,900	13	8	187,500	56	4	150,000	35	
	1929	226	1,227,550	226	10	91,000	20				8	761,060	237	3	130,000	16	
Malden, Mass.....	1928	132	717,150	132	43	335,100	86				14	1,255,660	500				
	1929	87	470,100	87	22	178,300	44				8	612,000	201				
Manchester, N. H.....	1928	92	262,325	92	12	77,300	24										
	1929	82	337,335	82	9	58,700	18										
Mansfield, Ohio.....	1928	123	624,500	123	1	11,500	2	1	27,000	2							
	1929	113	654,830	113	1	5,000	2										
Marion, Ind.....	1928	71	168,000	71	12	34,000	24	1	4,000	1	16	176,000	62				
	1929	38	90,050	38													
Marion, Ohio.....	1928	160	425,900	160	2	6,000	4				2	8,000	8				
	1929	69	190,450	69													
Medford, Mass.....	1928	360	2,239,450	360	139	1,050,000	278				5	400,000	107				
	1929	263	1,600,900	263	48	322,100	96	1	5,000	1	3	315,000	78				
Memphis, Tenn.....	1928	782	3,239,080	782	180	809,550	360				83	2,051,460	745				
	1929	752	2,792,565	752	89	656,800	178				40	799,500	316				
Meriden, Conn.....	1928	121	622,700	121	4	27,000	8	1	10,000	2	2	18,500	6				
	1929	105	549,900	105	7	50,000	14	1	7,700	1							
Miami, Fla.....	1928	121	557,855	121													
	1929	105	637,420	105													
Milwaukee, Wis.....	1928	979	5,742,220	979	531	4,294,950	1,062	30	410,200	43	166	6,840,899	2,454	1	35,000	3	
	1929	936	5,197,300	936	484	3,756,750	968	24	303,800	32	113	4,709,952	1,710	54	35,600	6	
	1928	1,278	5,655,670	1,278	130	852,850	260				74	1,869,400	702	24	1,871,000	427	
	1929	821	3,832,855	821	115	687,255	230				48	1,702,900	519		977,700	202	

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
Mobile, Ala.....	1928	589	\$1,547,956	589	4	\$23,500	8				3	\$119,000	41			
	1929	299	644,722	299												
Moline, Ill.....	1928	108	543,084	108				1	\$10,000	1						
	1929	130	663,300	130							3	194,000	33			
Montclair, N. J.....	1928	175	2,862,619	175	28	246,705	56				1	24,000	3	2	\$540,000	89
	1929	137	2,095,400	137	12	119,500	24	4	27,230	4						
Montgomery, Ala.....	1928	662	877,355	662	3	18,000	6				12	128,000	58			
	1929	468	1,247,070	468	2	6,000	4				1	40,000	16			
Mount Vernon, N. Y..	1928	302	3,475,335	302	37	539,600	74				32	5,453,500	1,053	7	1,523,500	207
	1929	108	1,386,700	108	19	327,500	38	1	12,000	1	6	832,000	178			
Muncie, Ind.....	1928	337	1,016,650	337				1	5,135	1	2	113,100	33			
	1929	308	878,205	308	4	18,467	8				1	6,620	3			
Muskegon, Mich.....	1928	104	318,010	104												
	1929	157	457,660	157							4	117,375	40			
Muskogee, Okla.....	1928	102	297,850	102	3	9,500	6				1	7,000	8			
	1929	44	95,050	44												
Nashville, Tenn.....	1928	537	1,164,124	537	42	123,450	84				20	608,500	128	1	20,000	4
	1929	466	1,413,079	466	14	60,418	28	1	2,000	1	5	772,000	286			
Newark, N. J.....	1928	77	673,923	77	181	2,185,070	362	34	584,990	62	245	11,956,580	2,563	20	1,255,000	224
	1929	132	965,700	132	61	688,680	122	23	236,600	33	94	1,682,500	378	7	153,000	28
Newark, Ohio.....	1928	108	338,300	108							1	15,000	8			
	1929	89	297,400	89												
New Bedford, Mass....	1928	36	252,800	36	3	28,300	6									
	1929	18	116,400	18												
New Britain, Conn....	1928	128	1,025,450	128	54	382,500	108				19	280,060	76	1	75,000	15
	1929	81	583,000	81	20	15,800	40				3	29,000	9			
New Brunswick, N. J..	1928	102	418,625	102	11	81,500	22	4	32,800	4	13	210,500	74	2	64,500	8
	1929	40	255,750	40	15	111,968	30	4	68,050	7	4	352,000	118			
Newburgh, N. Y.....	1928	62	380,300	62	6	49,500	12									
	1929	51	311,200	51	1	12,000	2				1	14,500	4			
New Castle, Pa.....	1928	133	839,125	133				5	99,700	10						
	1929	63	356,450	63	1	8,000	2									

New Haven, Conn.	1928	127	908,800	127	19	168,600	38	5	45,000	8	34	1,093,000	370	1	12,000	3
	1929	119	889,200	119	7	68,000	14	4	35,400	7	20	399,700	136			
New London, Conn.	1928	102	732,400	102	23	239,000	46				12	373,000	66	2	59,000	14
	1929	92	722,500	92	5	60,400	10	3	22,000	3	1	14,000	4	1	14,000	3
New Orleans, La.	1928	437	1,745,805	437	688	2,057,010	1,376	92	937,688	161	33	451,640	110	7	113,770	23
	1929	370	1,272,389	370	224	736,608	448	88	463,477	124	18	184,000	98	4	23,100	20
Newport, Ky.	1928	41	178,800	41	1	6,500	2									
	1929	29	135,900	29	2	14,500	4	1	13,000	2						
Newport, R. I.	1928	59	301,300	59	1	8,000	2									
	1929	60	636,700	60	1	8,000	2									
Newport News, Va.	1928	73	294,703	73							1	52,500	28			
	1929	55	164,523	55							1	25,000	12			
New Rochelle, N. Y.	1928	276	4,223,650	276	14	149,000	28				14	2,377,800	553	14	1,889,000	348
	1929	194	3,731,800	194	8	105,000	16				4	327,000	94	4	466,000	51
Newton, Mass.	1928	575	7,026,620	575	182	1,960,100	364									
	1929	410	4,874,100	410	79	761,250	158									
New York City, N. Y.:																
The Bronx	1928	1,271	8,949,000	1,271	537	5,749,635	1,074	42	626,000	76	783	115,621,200	27,720	102	16,912,050	3,627
	1929	680	5,231,900	680	258	3,093,300	516	16	251,250	24	322	50,496,700	11,962	20	4,041,000	796
Brooklyn	1928	2,631	17,909,150	2,631	1,270	12,281,400	2,540	540	7,019,500	1,080	1,031	74,458,400	19,311	277	13,225,500	3,376
	1929	1,092	7,659,200	1,092	452	4,282,700	904	234	3,214,700	468	312	31,942,000	7,435	57	6,338,000	1,325
Manhattan	1928	12	731,000	12	4	131,000	8				229	123,860,000	15,968			
	1929	4	505,000	4	2	45,000	4				224	163,065,000	18,059			
Queens	1928	8,477	47,311,810	8,477	903	7,379,500	1,806	585	5,255,100	1,013	775	55,234,150	16,295	70	5,093,100	1,206
	1929	3,767	21,203,110	3,767	546	4,891,700	1,092	228	1,991,300	348	249	27,526,500	7,897	27	3,066,500	757
Richmond	1928	1,229	5,557,609	1,229	126	911,500	252	55	498,000	82	18	1,599,000	434	5	162,000	40
	1929	733	3,723,190	733	90	665,050	180	51	366,075	83	9	529,000	194			
Niagara Falls, N. Y.	1928	350	1,856,983	350	53	342,695	106	8	75,100	10	5	144,800	34	1	28,000	6
	1929	221	1,255,474	221	38	230,700	76	3	48,500	3	1	38,000	6	1	100,000	14
Norfolk, Va.	1928	278	1,071,950	278	3	13,700	6				27	865,000	339	1	34,000	11
	1929	209	988,375	209	1	5,700	2				2	68,800	22			
Norristown, Pa.	1928	82	531,000	82	7	43,000	14									
	1929	101	536,530	101				1	9,000	2						
Norwalk, Conn.	1928	248	1,840,483	248	21	200,200	42	3	46,000	5	8	285,000	63			
	1929	227	1,664,600	227	11	116,000	22	5	59,000	7	2	33,000	6			
Oakland, Calif.	1928	1,012	4,122,993	1,012	22	117,750	44	10	43,900	10	82	3,737,800	1,323	2	85,000	41
	1929	690	2,977,527	690	12	66,700	24	6	63,000	6	66	3,057,700	1,173	2	29,285	11
Oak Park, Ill.	1928	193	2,577,955	193	1	8,000	2	2	36,500	3	26	2,243,000	475	6	400,000	72
	1929	79	1,104,060	79				1	12,500	1	14	1,493,500	212	2	140,000	18
Ogden, Utah	1928	139	435,300	139	2	6,000	4				1	35,000	14			
	1929	72	186,700	72	1	5,000	2									
Oklahoma City, Okla.	1928	2,029	7,071,259	2,029	81	447,700	162	3	35,700	6	62	1,043,350	411	7	111,500	29
	1929	1,549	6,408,845	1,549	295	1,690,800	590	3	4,150	3	103	1,969,000	812	13	178,000	69
Okmulgee, Okla.	1928	7	27,050	7	4	18,500	8									
	1929	1	10,000	1												
Omaha, Nebr.	1928	339	1,838,750	339	9	149,200	18				7	270,000	55			
	1929	299	1,452,700	299	10	86,500	20				8	385,000	142			
Orange, N. J.	1928	19	216,900	19	33	311,500	66	2	20,000	2	11	758,000	194			
	1929	10	163,000	10	3	39,000	6	1	18,000	1	4	489,000	115	1	26,000	4
Oshkosh, Wis.	1928	150	535,366	150	2	1,200	4	1	2,500	1						
	1929	112	415,825	112	1	5,200	2	1	9,000	1						
Ottumwa, Iowa	1928	38	204,800	38												
	1929	41	222,500	41												

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
Paducah, Ky.	1928	84	\$186,735	84	1	\$2,000	2				2	\$14,000	8			
	1929	89	178,145	89	1	3,000	2									
Pasadena, Calif.	1928	350	2,774,358	350	31	142,867	62	1	\$6,500	1	24	405,204	179	1	\$19,000	8
	1929	333	2,877,690	333	8	52,400	16	1	5,500	1	11	232,250	43	1	25,837	8
Passaic, N. J.	1928	66	468,150	66	15	168,500	30	5	70,000	9	10	975,000	225	1	85,000	21
	1929	47	357,750	47	11	109,000	22				2	165,000	36	1	48,000	10
Paterson, N. J.	1928	175	764,900	175	67	448,313	134	16	160,300	22	70	1,175,000	408	2	32,000	9
	1929	113	566,500	113	69	455,200	138	14	128,800	19	12	330,000	133	7	47,000	32
Pawtucket, R. I.	1928	289	1,318,550	289	66	482,800	132	3	27,500	4	1	10,000	4	2	85,000	26
	1929	215	1,048,675	215	43	261,850	86	1	4,500	1	4	35,100	12	1	18,000	4
Peoria, Ill.	1928	360	1,973,500	360	1	10,000	2	1	5,000	1	7	194,000	74			
	1929	335	1,604,083	335	3	30,000	6				5	95,000	22	1	20,000	3
Perth Amboy, N. J.	1928	52	245,677	52	8	84,780	16	7	41,625	11	2	60,000	25			
	1929	36	154,790	36	10	69,780	20	6	90,275	7	1	10,680	3			
Petersburg, Va.	1928	40	179,750	40	2	2,400	4							1	5,500	4
	1929	42	128,545	42	2	19,000	4	1	1,000	1						
Philadelphia, Pa.	1928	7,321	31,255,670	7,321	280	1,709,350	560	172	1,190,110	215	43	13,821,960	1,990	38	3,455,490	400
	1929	4,054	17,151,635	4,054	113	1,632,050	226				77	14,092,000	2,818			
Phoenix, Ariz.	1928	520	1,674,357	520	66	300,565	132				12	172,000	96			
	1929	501	1,581,587	501	97	344,015	194	33	48,325	66	39	350,225	234			
Pittsburgh, Pa.	1928	1,588	9,929,044	1,588	118	1,151,325	236	18	140,600	23	35	1,817,000	614	11	233,000	83
	1929	1,294	7,776,050	1,294	96	791,900	192	10	81,000	13	28	1,993,700	561	6	422,000	93
Pittsfield, Mass.	1928	139	824,000	139	16	143,200	32				1	150,000	40			
	1929	186	1,065,600	186	11	91,500	22				1	12,000	3			
Plainfield, N. J.	1928	229	1,769,479	229	22	161,400	44	1	1,900	1	4	134,000	37			
	1929	110	880,256	110	6	55,500	12	1	13,000	2				1	6,000	4
Pontiac, Mich.	1928	1,201	3,907,465	1,201	67	496,600	134				39	1,397,300	400			
	1929	812	2,185,102	812	49	282,000	98				30	1,014,080	374			
Port Arthur, Tex.	1928	210	457,877	210												
	1929				9	27,353	18				8	115,200	40			
Port Huron, Mich.	1928	69	184,050	69				1	6,500	2						
	1929	53	100,375	53				1	5,500	1						

Portland, Me.	1928	162	721,550	162	2	10,000	4	3	9,800	3	5	305,000	92			
	1929	125	541,692	125	3	17,000	6				1	125,000	31	2	55,000	10
Portland, Ore.	1928	1,603	7,149,585	1,603	39	294,500	78				46	2,313,200	620	3	150,000	20
	1929	940	4,647,995	940	8	36,150	16				26	1,617,500	548	4	275,000	82
Portsmouth, Ohio.	1928	161	595,450	161				2	6,900	2	2	13,000	6			
	1929	94	348,950	94	1	500	2	2	2,700	2						
Portsmouth, Va.	1928	71	206,055	71	1	6,000	2				1	30,000	12			
	1929	48	137,800	48	1	6,000	2				2	17,900	16			
Poughkeepsie, N. Y.	1928	57	563,050	57	4	38,500	8				5	44,000	16	2	46,000	15
	1929	58	625,350	58	3	25,500	6				1	13,000	4			
Providence, R. I.	1928	478	4,202,600	478	173	1,657,000	346	11	131,000	14	39	1,105,000	281	3	55,000	15
	1929	366	2,933,900	366	111	990,400	222	18	210,400	33	23	909,500	188	2	140,000	33
Pueblo, Colo.	1928	294	732,425	294	32	138,200	64	1	4,500	1	4	36,700	13			
	1929	174	415,900	174	9	56,000	18	1	10,000	1						
Quincy, Ill.	1928	131	517,775	131	1	12,000	2									
	1929	82	347,400	82				1	12,000	1	1	12,000	4			
Quincy, Mass.	1928	453	2,136,900	453	70	514,700	140				63	1,044,000	384			
	1929	288	1,637,150	288	15	113,300	30	2	21,000	3	36	649,200	229			
Racine, Wis.	1928	294	1,071,568	294	111	846,125	222	2	23,000	4	11	406,500	128	4	162,000	33
	1929	251	1,515,686	251	131	1,033,725	262	6	98,700	7	18	443,600	133			
Reading, Pa.	1928	256	1,455,650	256	1	10,000	2	5	42,000	5						
	1929	226	1,317,075	226					50,000	10						
Revere, Mass.	1928	173	522,745	173	47	364,800	94				2	55,000	20			
	1929	69	312,800	69	13	104,200	26									
Richmond, Ind.	1928	153	598,342	153												
	1929	138	554,300	138												
Richmond, Va.	1928	484	2,428,501	484	36	206,665	72				13	990,000	208			
	1929	374	1,880,100	374	31	268,364	62				8	380,500	154			
Roanoke, Va.	1928	204	903,832	204	25	119,500	50				11	346,250	110			
	1929	124	574,087	124	8	56,000	16									
Rochester, N. Y.	1928	858	4,983,570	858	56	467,400	112	9	107,650	14	28	2,065,500	767	13	510,250	180
	1929	434	2,592,363	434	7	89,400	14	2	16,300	3				15	336,539	111
Rockford, Ill.	1928	425	1,789,500	425	68	422,000	132	4	26,000	4	43	484,000	218	3	124,000	45
	1929	368	1,582,200	368	70	444,500	140	6	71,500	9	26	260,000	104			
Rock Island, Ill.	1928	114	399,500	114							4	54,000	32			
	1929	174	564,100	174							3	52,000	26			
Sacramento, Calif.	1928	682	2,806,322	682	58	275,050	112	1	4,700	1	11	216,900	122			
	1929	387	1,677,104	387	56	296,500	112	1	9,500	2	8	256,000	138	4	206,500	54
Saginaw, Mich.	1928	522	1,353,066	522	6	32,500	12	3	22,500	3				1	61,050	40
	1929	489	1,385,680	489				8	104,000	8						
St. Joseph, Mo.	1928	63	304,200	63							1	9,000	4			
	1929	110	317,850	110							3	70,000	35			
St. Louis, Mo.	1928	1,682	6,000,340	1,682	648	4,017,340	1,296	32	327,100	48	504	7,780,200	3,764	37	1,104,000	400
	1929	1,242	4,948,190	1,242	255	1,631,250	510	10	101,500	18	272	5,158,800	2,382	14	584,000	212
St. Paul, Minn.	1928	667	4,028,118	667	26	258,600	62				4	210,600	46	2	31,920	8
	1929	461	2,350,332	461	18	172,680	36	3	59,400	3	6	226,800	91			
St. Petersburg, Fla.	1928	170	824,100	170				1	4,000	2						
	1929	65	276,200	65	1	2,000	2									
Salem, Mass.	1928	49	332,000	49	24	280,500	48				4	114,500	23			
	1929	48	317,350	48	23	186,500	46				2	105,000	21			
Salt Lake City, Utah	1928	385	1,542,010	385	55	140,400	110				9	615,000	236			
	1929	416	1,748,560	416	28	109,750	52				10	717,000	231			

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Housekeeping dwellings														
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined		
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families
San Antonio, Tex.	1928	1,972	\$7,169,571	1,972	85	\$567,595	170				61	\$924,390	642			
	1929	1,706	4,355,469	1,706	124	688,763	248	8	\$21,525	8	46	562,625	219	6	566,875	52
San Diego, Calif.	1928	1,579	5,847,376	1,579	37	134,175	74	3	11,000	5	55	994,300	410	14	260,250	78
	1929	975	3,918,392	975	27	118,500	54	15	135,700	30	45	518,325	256	1	18,000	3
San Francisco, Calif.	1928	2,204	9,933,034	2,204	165	1,308,945	330	7	71,500	14	221	8,381,185	3,476	5	250,000	60
	1929	1,236	6,063,211	1,236	94	796,490	183	11	104,500	18	119	6,904,000	2,076			
San Jose, Calif.	1928	248	947,780	248	6	29,500	12	8	73,580	10	6	230,150	94	2	20,000	6
	1929	237	947,265	237	3	18,500	6				5	199,500	89			
Savannah, Ga.	1928	254	805,375	254	34	278,250	68				29	346,040	108			
	1929	133	490,550	133	11	76,500	22				13	101,000	40			
Schenectady, N. Y.	1928	240	1,540,900	240	4	40,000	8	11	65,600	18	1	23,000	3			
	1929	244	1,507,400	244	6	53,500	12	6	67,200	8	1	55,000	14			
Scranton, Pa.	1928	151	652,385	151	17	119,710	34	3	17,000	6	6	787,000	83	6	56,400	18
	1929	92	411,340	92	15	96,100	30				3	62,000	15			
Seattle, Wash.	1928	2,332	8,082,900	2,332	13	78,450	26				143	8,672,000	2,300			
	1929	1,703	5,971,710	1,703	11	37,200	22				81	5,479,000	1,564			
Sheboygan, Wis.	1928	155	903,600	155	14	104,600	28	2	16,200	2				1	13,000	8
	1929	116	644,200	116	5	32,200	10	1	10,200	1						
Shreveport, La.	1928	503	1,519,397	503	41	195,785	82				22	324,732	128			
	1929	415	1,144,599	415	31	116,502	62				13	201,257	66			
Sioux City, Iowa	1928	197	753,750	197	5	19,000	10				7	286,000	75			
	1929	154	582,300	154							4	360,000	154			
Sioux Falls, S. Dak.	1928	151	676,480	151	30	182,440	60									
	1929	131	565,975	131	4	35,625	8				4	77,000	32			
Somerville, Mass.	1928	2	5,800	2	64	547,500	123				2	280,000	66	1	28,000	3
	1929	15	78,000	15	35	274,500	70				12	639,000	201			
South Bend, Ind.	1928	555	2,851,350	555	4	25,000	8				3	36,000	12			
	1929	596	2,690,080	596				4	39,000	4	2	155,000	56	1	12,000	6
Spokane, Wash.	1928	475	1,853,875	475				8	27,150	8	5	363,000	91			
	1929	350	1,298,420	350	1	5,000	2	2	8,300	2	1	225,000	65			
Springfield, Ill.	1928	285	1,520,800	285	5	35,600	10				5	373,500	57			
	1929	179	727,605	179	3	25,700	6	1	13,500	2	6	162,000	42			



Springfield, Mass.....	1928	413	1,920,650	413	45	272,400	90				8	425,000	118	3	158,000	20	
	1929	292	1,398,300	292	21	134,200	42				4	410,000	132				
Springfield, Mo.....	1928	268	621,775	268	1	4,000	2				1	40,000	32				
	1929	208	568,751	208	1	8,000	2		2	11,500	3	30,000	8				
Springfield, Ohio.....	1928	251	828,950	251	24	113,600	48				1	45,000	16				
	1929	194	674,110	194	16	82,800	32	2		14,500	2	48,000	16				
Stamford, Conn.....	1928	200	1,614,250	200	44	453,300	88	2		34,500	4	127,500	36	1	15,000	3	
	1929	147	1,194,400	147	62	685,000	124				3	129,000	32	1	30,000	12	
Steubenville, Ohio.....	1928	155	550,000	155	3	18,000	6	12		77,000	14	63,000	16				
	1929	144	576,950	144	6	47,500	12				2	85,000	25				
Stockton, Calif.....	1923	195	707,230	195	4	20,350	8	2		9,800	2	71,800	21				
	1929	80	330,150	80	4	12,800	8	1		2,500	1	98,300	58	1	25,000	4	
Superior, Wis.....	1923	138	551,850	136													
	1929	105	398,615	105				3		14,500	5	92,000	24				
Syracuse, N. Y.....	1923	829	4,977,000	829	99	847,090	198	23		181,200	33	1,385,000	360	10	609,000	132	
	1929	582	3,652,800	582	80	683,200	160	4		52,500	7	150,000	37	2	30,000	7	
Tacoma, Wash.....	1923	542	1,539,000	542							7	970,000	254	2	37,000	26	
	1929	320	930,000	320							4	475,000	182	1	75,000	13	
Tampa, Fla.....	1928	602	1,495,880	602					11	47,700	11	78,700	34				
	1929	181	323,395	181				7		21,800	7						
Taunton, Mass.....	1923	50	190,800	50	5	24,500	10										
	1929	32	137,350	32	3	19,500	6										
Terre Haute, Ind.....	1923	113	338,050	113													
	1929	76	261,400	76	1	8,000	2										
Toledo, Ohio.....	1923	1,155	4,902,450	1,155	76	552,125	152	23		93,750	27	11	227,800	78	5	832,000	286
	1929	813	3,480,230	813	69	439,300	133	9		60,000	9	33	303,570	188	10	529,000	162
Topeka, Kans.....	1923	230	861,550	230	1	9,000	2					8	236,000	63	1	51,000	9
	1929	155	628,300	155	2	10,500	4	1		21,030	2	6	144,000	30			
Trenton, N. J.....	1923	173	973,600	173								4	150,000	41	2	48,500	9
	1929	63	500,014	63								3	155,000	24			
Troy, N. Y.....	1923	104	593,650	104	21	152,800	42					2	40,300	11			
	1929	99	634,020	99	6	47,500	12										
Tucson, Ariz.....	1928	303	998,832	308	5	38,052	10	6		42,513	10	2	23,575	8			
	1929	230	937,337	230	5	21,150	10	3		5,500	4	3	80,000	32	1	45,000	14
Tulsa, Okla.....	1923	1,049	4,659,100	1,049	233	1,035,100	476					44	1,765,600	641	1	93,000	21
	1929	847	3,957,847	847	141	688,250	282					43	971,000	517			
Union City, N. J.....	1923	3	18,500	3	4	45,000	8					1	17,800	4	5	245,000	69
	1929	1	6,400	1	2	17,500	4	2		20,000	4	4	217,000	112	1	125,000	4
Utica, N. Y.....	1923	205	1,401,100	205	13	103,000	26	2		18,000	2	3	615,000	109			
	1929	107	697,200	107	2	18,000	4										
Vallejo, Calif.....	1923	43	182,950	43													
	1929	48	166,130	48													
Waco, Tex.....	1928	171	608,003	171								1	23,000	6			
	1929	214	890,837	214													
Waltham, Mass.....	1923	177	1,003,100	177	46	421,700	92					12	154,000	51	6	165,500	42
	1929	105	635,800	105	30	282,000	60					10	105,000	40			
Warren, Ohio.....	1923	232	1,023,030	232	2	22,800	4	2		14,000	4	2	20,000	6			
	1929	243	1,246,445	243	7	44,700	14					1	15,000	4	2	26,700	8
Washington, D. C.....	1923	1,307	11,316,850	1,307	15	92,000	30					57	15,392,500	2,592	3	2,800,000	376
	1929	1,395	11,007,145	1,395	11	71,500	11					42	7,199,000	1,478	4	2,500,000	358
Waterbury, Conn.....	1928	225	1,071,500	225	48	375,500	96					25	422,500	153	9	94,000	30
	1929	158	786,500	158	34	273,000	68					14	194,000	36			

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Housekeeping dwellings																
		1-family dwellings			2-family dwellings			1-family and 2-family dwellings with stores combined			Multifamily dwellings			Multifamily dwellings with stores combined				
		Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families	Number	Cost	Families		
Waterloo, Iowa	1928	266	\$844,700	266														
	1929	291	835,825	291									10	\$186,000	66	1	\$4,000	4
Watertown, Mass.	1928	80	568,600	80	187	\$1,678,200	374											
	1929	69	469,400	69	76	665,000	152											
Watertown, N. Y.	1928	51	275,800	51	1	3,000	2											
	1929	50	297,800	50	1	5,000	2											
West New York, N. J.	1928	2	20,500	2	7	57,000	14	5	\$60,000	7	6	419,500	142		1	20,000	5	
	1929	2	9,800	2	7	72,000	14	11	112,550	22	1	100,000	44					
Wheeling, W. Va.	1928	87	549,280	87														
	1929	68	430,950	68														
White Plains, N. Y.	1928	298	3,573,700	298	6	63,500	12	2	32,400	4	22	2,220,000	442		5	471,000	100	
	1929	186	2,336,635	186	2	38,000	4				3	617,000	125		2	195,000	30	
Wichita, Kans.	1928	882	3,076,615	882	44	300,500	88	1	5,000	1	28	547,500	216		3	47,000	20	
	1929	1,056	3,668,855	1,056	66	392,500	132				45	710,250	392					
Wichita Falls, Tex.	1928	198	835,788	198	6	28,000	12				3	37,000	12					
	1929	93	434,885	93							2	60,000	16					
Wilkes-Barre, Pa.	1928	91	397,215	91	21	168,425	42				5	187,000	41					
	1929	52	177,495	52	5	34,800	10	1	12,600	1	1	12,000	4	1	12,800	3		
Wilkesburg, Pa.	1928	90	1,009,095	90														
	1929	85	480,755	85	20	151,000	40	6	56,500	12	8	143,500	40	2	114,000	22		
Williamsport, Pa.	1928	108	549,390	108	21	141,500	42	10	26,000	10	3	13,200	9					
	1929	61	356,191	61	17	91,300	34	6	8,975	8								
Wilmington, Del.	1928	323	2,133,163	323				3	20,300	3	2	126,000	33	1	28,000	6		
	1929	242	1,557,835	242	13	109,000	26	1	3,500	1	5	583,000	114					
Wilmington, N. C.	1928	52	195,000	52	6	27,000	12											
	1929	54	260,500	54	6	32,000	12	4	21,500	8								
Winston-Salem, N. C.	1928	616	2,842,385	616	25	103,950	50	6	30,300	7	67	463,725	256	6	157,000	36		
	1929	233	1,020,495	233	10	28,600	20				9	204,600	64					
Woonsocket, R. I.	1928	36	164,800	36	6	41,000	12				64	65,500	31					
	1929	23	89,950	23														
Worcester, Mass.	1928	324	1,930,635	324	39	327,400	78				15	251,500	72					
	1929	278	1,762,600	278	26	214,000	52				16	155,300	49					

Yonkers, N. Y.....	1928	622	6,983,910	622	104	1,205,800	208				136	21,074,500	3,306	4	339,000	80
	1929	365	4,256,877	365	55	587,200	110				43	6,307,000	1,228	7	700,000	105
York, Pa.....	1928	144	575,300	144												
	1929	85	436,325	85	1	7,200	2									
Youngstown, Ohio.....	1928	777	4,389,835	777	33	252,400	66	20	196,700	29	3	205,000	57			
	1929	441	2,234,375	441	35	273,700	70	9	62,250	10	1	10,000	4			
Zanesville, Ohio.....	1928	128	346,285	128	3	21,500	6				1	5,000	4			
	1929	93	294,160	93	5	29,000	10									
<b>Total:</b>																
309 cities.....	1928	145,262	715,134,047	145,262	19,963	153,157,386	39,926	2,624	26,701,412	4,282	12,070	776,520,458	190,346	1,528	90,754,524	19,780
311 cities.....	1929	104,798	516,296,221	104,798	12,990	98,998,741	25,980	1,507	14,354,773	2,351	6,662	490,957,201	111,910	559	34,826,808	7,727

**TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued**

**PART 1.—NEW RESIDENTIAL BUILDINGS—Continued**

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings	
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost
							Number	Cost	Number	Cost	Number	Cost		
Akron, Ohio.....	1928	2,557	208,435	(1)	122.7				1	\$5,000	1	\$300,000	2,200	\$12,469,148
	1929	2,171			101.2								1,850	10,092,658
Alameda, Calif.....	1928	504	28,806	(1)	175.0		1	\$40,000					184	1,469,224
	1929	404			140.2								125	1,120,335
Albany, N. Y.....	1928	615	113,344	120,400	54.3	51.1					2	475,000	404	7,935,200
	1929	385			34.0	32.0							225	3,584,100
Allentown, Pa.....	1928	556	73,502	99,400	75.6	55.9	1	230,000					495	3,395,000
	1929	397			51.0	39.9							396	2,300,200
Alton, Ill.....	1928	167	21,682	(1)	67.7								102	567,724
	1929	105			42.5								102	411,928
Altoona, Pa.....	1928	155	60,331	69,100	25.7	22.4					2	27,061	159	957,151
	1929	191			31.7	27.6							181	869,435
Amsterdam, N. Y.....	1928	42	33,525	36,200	12.5	11.6							30	242,600
	1929	52			15.5	14.4							51	408,182
Anderson, Ind.....	1928	268	29,767	(1)	90.0								253	881,560
	1929	215			72.2		1	400,000					191	1,077,400
Asheville, N. C.....	1928	370	28,507	(1)	129.8								278	1,749,300
	1929	129			42.1		1	80,000					99	518,650
Ashtabula, Ohio.....	1928	20	22,082	(1)	7.2								20	150,250
	1929	16			9.1								16	77,650
Atlanta, Ga.....	1928	3,170	200,616	255,100	158.0	124.3							1,698	9,968,489
	1929	1,389			69.2	54.4	5	190,000					927	4,545,853
Atlantic City, N. J.....	1928	57	50,707	54,700	11.2	10.4	3	4,244,750	3	42,000			51	4,546,015
	1929	52			10.3	9.5	9	5,309,259	3	90,000			34	5,745,985
Auburn, N. Y.....	1928	31	36,192	(1)	8.6								31	159,125
	1929	50			13.8						1	28,000	46	291,670
Augusta, Ga.....	1928	318	52,548	56,700	60.5	56.1							278	962,184
	1929	207			39.4	36.5					1	146,540	201	609,462
Aurora, Ill.....	1928	301	36,397	47,100	82.7	63.9							267	1,561,549
	1929	192			52.8	40.8							183	991,172
Austin, Tex.....	1929	545	34,876	45,133	156.3	120.8	1	400,000					518	1,672,610

Baltimore, Md.	1928	2,884	733,826	830,400	39.3	34.7	2	2,450,000			4	331,000	2,507	15,441,000
	1929	3,022			41.2	36.4					2	365,000	2,807	13,302,200
Bangor, Me.	1928	38	25,978	(1)	14.6								37	136,550
	1929	36			13.9						1	75,000	36	248,300
Baton Rouge, La.	1928	62	21,782	(1)	28.5								62	238,897
Battle Creek, Mich.	1928	177	36,164	47,200	48.9	37.5							169	752,750
	1929	169			46.7	35.8	1	200,000					167	874,950
Bay City, Mich.	1928	57	47,554	49,600	12.0	11.5							55	229,200
	1929	63			13.2	12.7							63	256,700
Bayonne, N. J.	1928	436	76,754	95,300	56.8	45.8							74	968,500
	1929	58			7.6	6.1							19	163,500
Beaumont, Tex.	1928	540	40,422	56,300	133.6	95.9	1	639,000			1	187,636	542	2,313,477
	1929	437			108.1	77.6							437	1,235,734
Belleville, Ill.	1928	136	24,823	(1)	54.8								136	666,000
	1929	127			51.2								121	610,633
Bellingham, Wash.	1928	264	25,585	(1)	103.2		1	550,000					252	1,224,000
	1929	126			49.2		3	930,000					129	1,228,475
Berkeley, Calif.	1928	1,330	56,063	71,000	237.2	187.3	1	150,000			6	543,000	460	4,800,551
	1929	587			104.7	82.7	3	1,350,350			1	52,775	322	3,454,425
Bethlehem, Pa.	1928	223	50,358	67,600	44.3	33.0	1	15,000			1	53,000	152	1,489,000
	1929	201			39.9	29.7							145	1,188,775
Binghamton, N. Y.	1928	306	66,800	74,800	45.8	40.9							166	1,264,421
	1929	169			25.3	22.6							91	725,000
Birmingham, Ala.	1928	2,589	178,806	222,400	144.8	116.4	1	25,000					1,913	7,155,335
	1929	686			38.4	30.8					1	1,500	534	1,752,250
Bloomfield, N. J.	1928	675	22,019	(1)	396.6								405	3,370,000
	1929	476			216.2								309	2,496,700
Bloomington, Ill.	1928	90	28,725	(1)	31.3								86	601,000
	1929	114			39.7								112	823,000
Boston, Mass.	1928	6,805	748,060	799,200	91.0	85.1					1	80,000	2,160	26,947,550
	1929	3,327			44.5	41.6	1	500,000			5	4,060,735	1,068	19,190,447
Bridgeport, Conn.	1928	388	143,535	(1)	27.0						1	18,000	250	1,963,000
	1929	541			37.7								279	2,287,610
Brockton, Mass.	1928	141	66,254	(1)	21.3								136	732,950
	1929	97			14.6								95	513,200
Brookline, Mass.	1928	556	37,748	45,700	147.3	121.7							221	5,065,100
	1929	362			95.9	79.2							152	3,676,480
Buffalo, N. Y.	1928	3,181	506,775	555,800	62.8	57.2					1	60,000	1,516	10,810,950
	1929	1,769			34.9	31.8							843	6,290,920
Burlington, Iowa	1928	55	24,057	(1)	22.9								54	178,100
	1929	52			21.6								52	164,800
Butler, Pa.	1928	40	23,778	(1)	16.8								40	258,300
	1929	31			13.0								30	169,600
Butte, Mont.	1928	7	41,611	43,600	1.7	1.6							7	11,500
	1929						6	100,615					6	100,615
Cambridge, Mass.	1928	863	109,694	125,800	73.7	68.6							178	3,581,300
	1929	738			71.3	62.6							76	7,238,100
Camden, N. J.	1928	350	116,309	135,400	30.1	25.8					3	3,540,000	330	1,164,950
	1929	320			27.5	23.6							288	1,034,800
Canton, Ohio	1928	374	87,091	116,800	43.9	32.0							341	2,180,850
	1929	331			38.0	28.3	1	400,000					309	2,164,465

<sup>1</sup>Population not estimated by Census Bureau.

**TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued**

**PART 1.—NEW RESIDENTIAL BUILDINGS—Continued**

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings	
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost
							Number	Cost	Number	Cost	Number	Cost		
Cedar Rapids, Iowa	1928	157	45,566	58,200	34.5	27.0						152	\$688,940	
	1929	113			24.8	19.4						110	580,664	
Central Falls, R. I.	1928	44	24,174	( <sup>1</sup> )	18.2							23	92,000	
	1929	60			24.8							29	202,900	
Charleston, S. C.	1928	46	67,957	75,900	6.8	6.1						46	160,300	
	1929	97			14.3	12.8						96	266,900	
Charleston, W. Va.	1928	258	39,607	55,200	65.1	46.7	1	\$424,500			1	\$26,400	236	1,310,900
	1929	262			66.1	47.5							211	788,935
Charlotte, N. C.	1928	1,237	46,338	82,100	267.0	150.7	1	170,000			1	40,000	755	4,642,020
	1929	500			107.9	60.9							408	1,964,488
Chattanooga, Tenn.	1928	611	57,895	78,500	105.5	83.1							358	1,862,875
	1929	324			56.0	44.1					1	135,000	233	837,827
Chelsea, Mass.	1928	142	43,187	49,800	32.9	28.5							76	573,000
	1929	36			8.3	7.2							15	163,000
Chester, Pa.	1928	243	58,030	74,200	41.9	32.7					1	15,000	229	1,015,000
	1929	98			16.9	13.2					1	25,000	97	480,450
Chicago, Ill.	1928	34,447	2,701,705	3,157,400	127.5	109.1	41	13,432,000	3	\$112,000	37	3,379,600	7,427	191,673,500
	1929	18,837			69.7	59.7	28	4,144,000		12,500	1	16,000	4,475	91,177,250
Chicopee, Mass.	1928	102	36,214	45,400	28.2	22.5					2	68,000	88	436,300
	1929	80			22.1	17.6							71	310,850
Cicero, Ill.	1928	464	44,995	71,600	103.1	64.8							168	2,537,600
	1929	328			72.9	45.8							159	2,022,200
Cincinnati, Ohio.	1928	3,559	401,247	413,700	88.7	86.0					3	1,115,000	2,086	22,743,235
	1929	2,077			51.8	50.2					1	150,000	1,426	13,048,160
Clarksburg, W. Va.	1928	98	27,869	( <sup>1</sup> )	35.2		1	50,000					81	407,235
	1929	66			23.7								58	229,700
Cleveland, Ohio.	1928	3,167	796,841	1,010,300	39.7	31.3	4	475,600			1	1,400,000	1,791	18,122,700
	1929	2,143			26.9	21.2					3	326,000	1,401	11,954,800
Clifton, N. J.	1928	547	26,470	( <sup>1</sup> )	206.6								331	2,539,650
	1929	359			135.6								268	1,710,600
Colorado Springs, Colo.	1928	95	30,105	( <sup>1</sup> )	31.6								87	340,440
	1929	65			21.6								65	345,876



TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

## PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings	
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost
							Number	Cost	Number	Cost	Number	Cost		
Elizabeth, N. J.	1928	1,002	95,783	(1)	104.6								321	\$3,451,000
	1929	514			53.7								240	2,085,000
Elkhart, Ind.	1928	155	24,277	(1)	63.8								141	590,261
	1929	107			44.1								107	426,050
Elmira, N. Y.	1928	120	45,393	50,000	26.4	24.0	1	\$600,000	1	\$75,000			105	1,306,100
	1929	72			15.9	14.4							70	557,435
El Paso, Tex.	1928	310	77,560	117,800	40.0	26.3	1	80,000					242	980,426
	1929	691			89.1	58.7	1	625,000					458	2,577,824
Erie, Pa.	1928	397	93,372	(1)	42.5						2	\$99,000	360	2,203,500
	1929	393			42.1								326	1,679,209
Evanston, Ill.	1928	945	37,234	47,600	253.8	198.5	1	185,000					263	7,899,000
	1929	386			103.7	81.1					6	1,390,000	148	4,710,000
Evansville, Ind.	1928	420	85,264	98,100	49.3	42.8							400	1,488,250
	1929	458			53.7	46.7							401	1,996,900
Everett, Mass.	1928	283	40,120	43,300	70.5	65.4							91	977,600
	1929	81			20.2	18.7							48	305,800
Everett, Wash.	1928	123	27,644	(1)	44.5								110	262,300
	1929	123			44.5								78	258,740
Fall River, Mass.	1928	110	120,485	134,300	9.1	8.2					1	75,216	95	544,236
	1929	48			4.0	3.6							42	204,150
Fitchburg, Mass.	1928	25	41,029	45,200	6.1	5.5							22	110,500
	1929	33			8.0	7.3							32	190,600
Flint, Mich.	1928	2,221	91,599	148,800	242.5	149.3	1	91,800					1,895	8,586,944
	1929	2,076			226.7	139.5					1	9,744	1,767	8,202,365
Fond du Lac, Wis.	1928	59	23,427	(1)	25.2								56	203,000
	1929	47			20.1								47	175,180
Fort Wayne, Ind.	1928	407	86,549	105,300	47.0	38.7	1	185,000					404	2,313,815
	1929	578			66.8	54.9					1	40,000	546	2,905,708
Fort Worth, Tex.	1928	1,758	106,482	170,700	165.1	103.0	2	2,300,000	8	81,076	1	8,500	1,417	8,792,021
	1929	1,262			118.5	74.0					1		1,078	4,546,476
Fresno, Calif.	1928	146	45,086	64,000	32.4	22.8							122	480,645
	1929	187			41.5	29.2							153	680,825



Galveston, Tex.	1928	369	44,255	50,600	83.4	72.9	1	400,000					338	1,546,686
	1929	350			79.1	69.2							318	1,196,152
Gary, Ind.	1928	890	55,378	89,100	160.7	99.9			1	28,000			699	3,729,575
	1929	375			67.7	42.1							258	1,188,400
Grand Rapids, Mich.	1928	895	137,634	164,200	65.0	54.5	1	135,000					867	3,719,100
	1929	589			42.8	35.9							551	2,166,100
Great Falls, Mont.	1928	290	24,121	(1)	107.8								155	789,830
	1929	293			121.5								205	1,005,652
Green Bay, Wis.	1928	186	31,017	36,100	60.0	51.5							176	834,180
	1929	185			59.6	51.2							159	1,358,410
Greensboro, N. C.	1928	446	19,861	51,900	224.6	85.9							418	2,030,865
	1929	268			134.9	51.6							218	961,064
Greenville, S. C.	1928	193	23,127	(1)	83.5		1	30,000					178	759,547
	1929	97			41.9								93	475,975
Greenwich, Conn.	1928	344	22,123	(1)	155.5								266	4,559,300
	1929	282			127.5					1	4,000		266	5,159,640
Hagerstown, Md.	1928	82	28,064	(1)	29.2								65	300,510
	1929	90			32.1								79	409,825
Hamilton, Ohio	1928	410	39,675	44,200	103.3	92.8							407	1,538,487
	1929	261			65.8	59.0							261	1,010,094
Hammond, Ind.	1928	698	36,004	56,000	193.9	124.6							515	2,759,700
	1929	312			86.7	55.7							275	1,294,800
Hamtramck, Mich.	1928	89	48,615	99,800	18.3	8.9							64	404,200
	1929	8			1.6	.8			1	10,000			6	46,500
Harrisburg, Pa.	1928	206	75,917	86,900	27.1	23.7							205	1,214,500
	1929	140			18.4	16.1	1	600,000					140	1,365,000
Hartford, Conn.	1928	1,363	138,036	172,300	98.7	79.1						1	278	4,693,289
	1929	281			20.4	16.3							101	1,459,800
Haverhill, Mass.	1928	68	53,884	(1)	12.6								59	271,400
	1929	45			8.4								41	130,800
Hazleton, Pa.	1928	57	32,277	38,300	17.7	14.9							41	343,264
	1929	18			5.6	4.7							15	114,728
Highland Park, Mich.	1928	117	46,499	86,400	25.2	13.5							7	364,500
	1929	250			53.8	28.9							5	995,500
Hoboken, N. J.	1928	5	68,166	(1)	.7								4	70,500
	1929	4			.6								2	33,500
Holyoke, Mass.	1928	86	60,203	60,400	14.3	14.2							50	492,800
	1929	52			8.6	8.6							24	346,000
Houston, Tex.	1928	4,463	138,276	(1)	322.8		3	270,000	1	12,000			3,440	18,088,385
	1929	3,490			252.4				1	15,000			2,789	13,602,172
Huntington, W. Va.	1928	87	50,177	68,600	17.3	12.7							62	467,900
	1929	49			9.8	7.1							45	163,900
Hutchinson, Kans.	1928	146	23,298	(1)	62.7								131	467,270
	1929	148			63.5		1	175,000					145	699,480
Indianapolis, Ind.	1928	2,511	314,194	382,100	79.9	65.7			4	1,030,000			1,524	11,254,100
	1929	1,760			56.0	46.1							1,261	7,035,895
Irvington, N. J.	1928	1,022	25,480	(1)	401.1							1	207	5,141,800
	1929	170			66.7								81	804,850
Jackson, Mich.	1928	250	48,374	63,700	51.7	39.2							242	1,107,450
	1929	218			45.1	34.2							194	1,059,850

<sup>1</sup> Population not estimated by Census Bureau.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

## PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings		
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost	
							Number	Cost	Number	Cost	Number	Cost			
Jacksonville, Fla.	1928	1,658	91,558	140,700	181.1	117.8								1,215	\$5,263,115
	1929	638			69.7	45.3								499	1,615,700
Jamestown, N. Y.	1928	169	38,917	46,060	43.4	36.7								165	855,000
	1929	206			52.9	44.8								167	961,250
Jersey City, N. J.	1928	2,155	298,103	324,700	72.3	66.4		1	\$22,000					259	7,671,000
	1929	1,388			46.6	42.7								135	4,623,380
Johnstown, Pa.	1928	73	67,327	73,700	10.8	9.9								61	345,150
	1929	46			6.8	6.2								42	205,550
Joliet, Ill.	1928	180	38,442	41,900	46.8	43.0								154	1,412,900
	1929	188			48.9	44.9					1	\$7,000		172	1,462,800
Joplin, Mo.	1928	151	29,902	(1)	50.5		1	\$341,200						103	932,400
	1929	63			21.1									53	197,250
Kalamazoo, Mich.	1928	165	48,487	56,400	34.0	29.3								153	640,525
	1929	100			33.0	28.4								127	667,390
Kansas City, Kans.	1928	321	101,177	118,300	31.7	27.1			1	7,000				293	655,620
	1929	271			26.8	22.9								261	658,350
Kansas City, Mo.	1928	1,969	324,410	391,000	60.7	50.4	2	180,000			1	50,000		1,047	7,859,200
	1929	2,234			68.9	57.1	1	37,000		1	20,000			905	7,083,800
Kearny, N. J.	1928	857	26,724	(1)	320.7									300	2,945,000
	1929	261			97.7									141	1,024,200
Kenosha, Wis.	1928	295	40,472	56,500	72.9	52.2								281	2,484,518
	1929	296			73.1	52.4								237	2,653,878
Kingston, N. Y.	1928	126	26,688	(1)	47.2									118	683,050
	1929	53			19.9									53	400,500
Knoxville, Tenn.	1928	940	77,818	105,400	120.8	89.2	1	210,000			1	110,000		801	3,909,541
	1929	472			60.7	44.8								457	2,290,175
Kokomo, Ind.	1928	82	30,067	40,400	27.3	20.3								42	350,262
	1929	75			24.9	18.6								63	223,100
Lakewood, Ohio.	1928	537	41,732	65,000	128.7	82.6	1	1,390,000						134	3,562,400
	1929	203			48.6	31.2								91	1,109,800
Lancaster, Pa.	1928	154	53,150	58,300	29.0	26.4								154	839,050
	1929	156			29.4	26.8								156	745,950

Lansing, Mich.....	1928	443	57,327	79,600	77.3	65.7													441	2,004,800
	1929	537			93.7	7.5													535	2,657,183
Lawrence, Mass.....	1928	32	94,270	(1)	3.4														13	104,200
	1929	22			2.3														11	69,500
Lebanon, Pa.....	1928	19	24,643	(1)	7.7														19	101,000
	1929	19			7.7														19	100,000
Lewiston, Me.....	1928	77	31,791	38,600	24.2	21.0				1	10,000								28	164,000
	1929	49			15.4	13.4													38	132,000
Lexington, Ky.....	1928	104	41,534	48,700	25.0	21.4													106	843,400
	1929	133			32.0	27.3							2	270,000					102	864,380
Lima, Ohio.....	1928	19	41,326	49,700	4.6	3.8													16	86,100
	1929	6			1.5	1.2													6	19,500
Lincoln, Nebr.....	1928	497	54,948	71,100	90.4	69.9	1	40,000											323	1,872,712
	1929	346			63.0	48.7													257	1,489,350
Little Rock, Ark.....	1928	527	65,142	79,200	80.9	66.5	1	500,000											428	2,579,137
	1929	356			54.6	44.9													295	1,406,457
Long Beach, Calif.....	1928	3,099	55,593	(1)	557.4		2	90,000											1,722	8,721,515
	1929	3,198			575.3		7	397,000											1,761	8,950,430
Lorain, Ohio.....	1928	227	37,295	44,900	60.9	50.6													1,761	815,140
	1929	170			45.6	37.9													167	622,800
Los Angeles, Calif.....	1928	21,081	576,673	(1)	356.6		16	1,000,200											8,766	61,977,327
	1929	15,234			264.2		28	1,512,100		1	30,000								7,126	46,939,091
Louisville, Ky.....	1928	1,542	234,891	329,400	65.6	46.8													1,060	8,250,300
	1929	1,427			60.8	43.3													818	5,110,600
Lowell, Mass.....	1928	50	112,759	110,296	4.4	4.5													49	170,600
	1929	37			3.3	3.4													36	146,425
Lynchburg, Va.....	1928	114	30,070	38,600	37.9	29.5													114	499,710
	1929	92			30.6	23.8													91	337,655
Lynn, Mass.....	1928	501	99,148	105,500	50.5	47.5													212	1,898,500
	1929	475			47.9	45.0													156	1,740,800
McKeesport, Pa.....	1928	203	46,781	50,400	43.4	40.3													183	980,535
	1929	174			37.2	34.5													156	1,021,270
Macon, Ga.....	1928	321	52,995	61,200	60.6	52.5													316	1,248,170
	1929	73			13.8	11.9													73	285,040
Madison, Wis.....	1928	542	38,378	50,500	141.2	107.3													445	4,931,200
	1929	499			130.0	88.8													248	2,459,550
Malden, Mass.....	1928	718	49,103	53,400	146.2	134.5													189	2,307,250
	1929	332			67.6	62.2													117	1,260,400
Manchester, N. H.....	1928	116	78,384	85,700	14.8	13.5													105	564,625
	1929	100			12.8	11.7													91	396,035
Mansfield, Ohio.....	1928	127	27,824	(1)	45.6														125	663,000
	1929	115			41.3														114	659,830
Marion, Ind.....	1928	158	23,747	(1)	66.5														100	382,000
	1929	38			16.0														38	90,050
Marion, Ohio.....	1928	172	27,891	(1)	61.7														164	439,900
	1929	69			24.7														69	190,450
Medford, Mass.....	1928	745	39,038	52,900	190.8	140.8													504	3,689,450
	1929	438			112.2	82.8													315	2,243,000
Memphis, Tenn.....	1928	1,887	162,351	190,200	116.2	99.2													1,045	6,100,030
	1929	1,246			76.7	65.5													881	4,248,865

<sup>1</sup> Population not estimated by Census Bureau.

<sup>1</sup> State census, 1925.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings	
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost
							Number	Cost	Number	Cost	Number	Cost		
Meriden, Conn.	1928	137	29,867	37,100	45.9	36.9					1	\$1,00,000	129	\$778,200
	1929	120			40.2	32.3							113	607,600
Miami, Fla.	1928	124	29,571	156,700	41.9	7.9	1	\$25,000					123	617,855
	1929	112			37.9	7.1							108	672,920
Milwaukee, Wis.	1928	4,905	457,147	544,200	108.6	91.2	2	470,000	1	\$65,000	3	355,882	1,766	20,050,151
	1929	3,848			84.2	70.7			1	35,000	3	66,500	1,585	15,047,002
Minneapolis, Minn.	1928	2,240	380,582	455,900	58.9	49.1	4	453,000			5	438,000	1,491	9,268,920
	1929	1,570			41.3	34.4	1	521,200			2	107,000	987	6,851,210
Mobile, Ala.	1928	638	60,777	69,600	105.0	91.7							596	1,690,456
	1929	299			49.2	43.0							299	644,722
Moline, Ill.	1928	109	30,734	35,600	35.5	30.6							109	553,084
	1929	163			53.0	45.8							133	857,300
Montclair, N. J.	1928	323	28,810	( <sup>1</sup> )	112.1						1	29,500	207	3,702,824
	1929	165			57.3								153	2,242,130
Montgomery, Ala.	1928	726	43,464	63,100	167.0	115.1	1	236,000					678	1,259,355
	1929	488			112.3	77.3							471	1,293,070
Mount Vernon, N. Y.	1928	1,636	42,726	54,700	382.9	299.1							378	10,991,935
	1929	325			76.1	59.4							134	2,558,200
Muncie, Ind.	1928	371	36,524	46,800	101.6	79.3							340	1,134,885
	1929	310			87.3	68.2							313	903,292
Muskegon, Mich.	1928	104	36,570	46,600	28.4	22.3	2	603,000					106	921,010
	1929	157			42.9	33.7							161	575,035
Muskogee, Okla.	1928	116	30,277	33,200	38.3	34.9							106	314,350
	1929	46			15.2	13.9							45	100,050
Nashville, Tenn.	1928	753	118,342	139,600	63.6	53.9							600	1,916,074
	1929	781			66.0	55.9	1	550,000					487	2,797,497
Newark, N. J.	1928	3,288	414,524	473,600	79.3	69.4	2	850,000	2	24,000	1	65,000	562	17,594,563
	1929	693			16.7	1416	1		1	20,000	1	15,000	319	3,761,480
Newark, Ohio.	1928	108	26,718	( <sup>1</sup> )	40.4								108	338,300
	1929	97			36.3								90	312,400
New Bedford, Mass.	1928	42	121,217	*119,539	3.5	3.5							39	281,100
	1929	18			1.5	1.5							18	116,400

New Britain, Conn.	1928	327	59,316	72,800	55.1	44.9	1	30,000			1	210,000	204	2,002,980
	1929	130			21.9	17.9							104	627,800
New Brunswick, N. J.	1928	210	32,779	40,800	64.1	51.3	1	218,000			1	40,100	134	1,065,925
	1929	195			59.5	47.8					2	240,000	65	1,027,768
Newburgh, N. Y.	1928	74	30,366	30,400	24.4	29.5							68	429,800
	1929	57			18.8	18.8							53	337,700
New Castle, Pa.	1928	143	44,938	52,500	31.8	23.4							138	938,825
	1929	65			14.5	12.4							64	364,450
New Haven, Conn.	1928	546	162,537	187,900	33.6	29.1					4	302,000	190	2,529,300
	1929	276			17.0	14.7					4	1,660,000	154	3,052,300
New London, Conn.	1928	218	25,688	( <sup>1</sup> )	84.9						1	70,000	140	1,523,400
	1929	112			43.6								102	832,900
New Orleans, La.	1928	2,107	387,219	429,400	54.4	49.1							1,257	5,305,913
	1929	1,060			27.4	24.7							704	2,679,574
Newport, Ky.	1928	43	29,317	( <sup>1</sup> )	14.7				2	8,500			44	193,800
	1929	35			11.9									163,400
Newport, R. I.	1928	61	30,255	27,757	20.2	22.0								309,300
	1929	62			20.5	22.3					1	90,000		734,700
Newport News, Va.	1928	101	35,596	53,300	28.4	18.9							74	347,203
	1929	67			18.8	12.6							56	189,523
New Rochelle, N. Y.	1928	1,205	36,213	48,800	332.8	246.9					1	156,000	319	8,795,450
	1929	355			98.0	72.7							210	4,629,800
Newton, Mass.	1928	939	46,054	57,300	203.9	163.9							757	8,986,720
	1929	568			123.3	99.1							489	5,635,350
New York City, N.Y.:														
The Bronx	1928	33,768											2,735	147,857,885
	1929	13,978											1,296	63,114,150
Brooklyn	1928	28,938					6	5,055,000					5,755	129,943,950
	1929	11,224					8	27,350,000					2,155	80,786,600
Manhattan	1928	15,983	5,620,048	6,017,500	194.9	182.0	33	49,630,000			18	11,593,500	296	185,945,500
	1929	18,067			103.8	96.9	116	222,645,000			14	14,808,000	360	401,068,000
Queens	1928	28,797					1	150,000					10,811	120,423,660
	1929	13,861					1	1,500,000			7	450,000	4,825	60,629,110
Richmond	1928	2,037					2	160,000			1	5,900	1,436	8,894,009
	1929	1,190											883	5,283,315
Niagara Falls, N. Y.	1928	506	50,760	68,300	99.7	74.1							417	2,447,278
	1929	320			63.0	46.9					1	176,500	265	1,849,174
Norfolk, Va.	1923	634	115,777	184,200	54.8	34.4	1	158,000					310	2,142,650
	1929	233			20.1	12.6							212	1,062,875
Norristown, Pa.	1928	96	32,319	36,200	29.7	25.5							89	574,000
	1929	103			31.9	28.5				1	8,300		103	553,830
Norwalk, Conn.	1923	358	27,743	( <sup>1</sup> )	129.0								280	2,371,683
	1929	262			94.4								245	1,872,600
Oakland, Calif.	1928	2,430	216,261	274,100	112.4	88.7	2	232,000			2	500,000	1,132	8,899,443
	1929	1,904			88.0	69.5	2	311,489					778	6,505,701
Oak Park, Ill.	1928	745	39,858	57,700	186.9	129.1	5	1,650,000					233	6,915,455
	1929	310			77.8	53.7	3	290,000					99	3,040,060
Ogden, Utah	1928	157	32,804	39,100	47.9	40.2							142	476,300
	1929	74			22.6	18.9							73	191,700
Oklahoma City, Okla.	1928	2,637	91,295	( <sup>1</sup> )	283.8		1	20,000					2,183	8,728,509
	1929	3,023			331.1		2	2,575,000	2	30,000			1,967	12,856,795

<sup>1</sup> Population not estimated by Census Bureau.

<sup>2</sup> States census, 1925.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings		
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost	
							Number	Cost	Number	Cost	Number	Cost			
Okmulgee, Okla.	1928	15	17,430	( <sup>1</sup> )	8.6									11	\$45,550
	1929	1			6.6									1	10,000
Omaha, Nebr.	1928	412	191,601	222,800	21.5	18.5	1	\$1,000,000						356	3,257,950
	1929	461			24.1	20.7								317	1,924,200
Orange, N. J.	1928	281	33,268	36,500	84.5	77.0								65	1,306,400
	1929	186			40.9	37.3								19	735,000
Oshkosh, Wis.	1928	155	33,162	33,200	46.7	46.7								153	539,066
	1929	115			34.7	34.6								114	430,025
Ottumwa, Iowa	1928	38	23,003	( <sup>1</sup> )	16.5									38	204,800
	1929	41			17.8									41	222,500
Paducah, Ky.	1928	94	24,735	( <sup>1</sup> )	38.0		1	200,000	1	\$3,000				80	405,735
	1929	91			36.8									90	181,145
Pasadena, Calif.	1928	600	45,354	62,100	132.3	96.6	1	36,000						408	3,383,929
	1929	401			88.4	64.6					2	\$13,600		356	3,207,277
Passaic, N. J.	1928	351	63,841	71,800	55.0	48.9								97	1,766,650
	1929	115			18.0	16.0					1	327,000		62	1,006,750
Paterson, N. J.	1928	748	135,875	144,900	55.1	51.6					1	6,000		331	2,686,513
	1929	435			32.0	30.0								215	1,527,500
Pawtucket, R. I.	1928	455	64,248	73,100	70.8	62.2								361	1,923,850
	1929	318			49.5	43.5								264	1,368,125
Peoria, Ill.	1928	487	76,121	84,500	57.1	51.7								369	2,182,500
	1929	366			45.1	43.3	1	230,000						345	2,039,083
Perth Amboy, N. J.	1928	104	41,707	50,100	24.9	20.8								69	432,082
	1929	66			15.8	13.2								53	325,525
Petersburg, Va.	1928	48	31,012	37,800	15.5	12.7								43	187,650
	1929	47			15.2	12.4								45	148,545
Philadelphia, Pa.	1928	10,576	1,823,779	2,064,200	68.0	61.2	1	1,000,000			7	3,349,000		7,862	55,781,680
	1929	7,098			38.9	34.4					4	1,080,000		4,250	34,048,685
Phoenix, Ariz.	1928	748	29,053	( <sup>1</sup> )	257.5		1	300,000						599	2,446,922
	1929	995			342.5		1	40,000						671	2,364,152
Pittsburgh, Pa.	1928	2,544	588,343	673,800	43.2	37.8					2	297,000		1,772	13,567,969
	1929	2,153			36.6	32.0								1,434	11,064,650

Pittsfield, Mass.....	1928	211	41,763	50,000	50.5	42.2							156	1,117,200
	1929	211			50.5	42.2							198	1,189,100
Plainfield, N. J.....	1928	311	27,700	( <sup>1</sup> )	112.3								256	2,066,779
	1929	128			46.2		1						119	1,079,756
Pontiac, Mich.....	1928	1,735	34,273	61,500	506.2	282.1	2	125,000					1,309	6,101,365
	1929	1,234			374.6	208.8							891	3,481,182
Port Arthur, Tex.....	1928	210	22,251	( <sup>1</sup> )	94.4		2	462,500					212	920,377
	1929	58			26.1		2	292,500					19	405,053
Port Huron, Mich.....	1928	71	25,944	( <sup>1</sup> )	27.4								70	190,550
	1929	54			20.8								54	105,875
Portland, Me.....	1928	261	69,272	78,600	37.7	33.2							172	1,046,350
	1929	172			24.8	21.9							131	738,692
Portland, Oreg.....	1928	2,321	258,288	( <sup>1</sup> )	89.9		1	85,000			1	60,000	1,693	10,052,285
	1929	1,586			61.4						2	299,000	980	6,875,645
Portsmouth, Ohio.....	1928	169	33,011	41,200	51.2	41.0							165	615,360
	1929	98			29.7	23.8							97	352,150
Portsmouth, Va.....	1928	85	54,387	61,600	15.6	13.8							73	242,055
	1929	66			12.1	10.7							51	161,700
Poughkeepsie, N. Y.....	1928	96	35,000	39,100	27.4	24.6							68	691,550
	1929	68			19.4	17.4							62	663,850
Providence, R. I.....	1928	1,134	237,595	286,300	47.7	39.6					2	435,000	706	7,625,600
	1929	842			35.4	29.4							520	5,184,200
Pueblo, Colo.....	1928	372	43,050	44,200	83.4	84.2							331	911,825
	1929	193			44.8	43.7	1	122,000					185	603,900
Quincy, Ill.....	1928	133	35,978	39,800	37.0	33.4							132	529,775
	1929	87			24.2	21.9							84	371,400
Quincy, Mass.....	1928	977	47,876	67,600	204.1	144.5							586	3,695,600
	1929	550			114.9	81.4							341	2,420,650
Racine, Wis.....	1928	681	58,593	74,400	116.2	91.5							422	3,109,193
	1929	653			111.4	87.8							406	3,091,711
Reading, Pa.....	1928	263	107,784	115,400	24.4	22.8					1	79,777	263	1,537,427
	1929	253			23.5	21.9	1	791,000			4	445,552	237	2,688,627
Revere, Mass.....	1928	247	28,823	36,000	85.7	68.6							182	942,545
	1929	95			33.0	26.4							82	417,000
Richmond, Ind.....	1928	153	26,765	( <sup>1</sup> )	57.2								153	598,342
	1929	138			51.6								138	554,300
Richmond, Va.....	1928	764	171,567	194,400	44.5	39.3	1	1,500,000			1	75,000	535	5,200,166
	1929	590			34.4	30.3					2	200,000	415	2,728,984
Roanoke, Va.....	1928	364	50,842	64,600	71.6	56.3							240	1,369,582
	1929	320			62.9	49.5							145	1,140,337
Rochester, N. Y.....	1928	1,862	295,750	328,200	63.0	56.7					2	194,178	968	8,154,887
	1929	496			16.8	15.1					6	1,753,000	452	4,555,063
Rockford, Ill.....	1928	779	65,651	82,800	118.7	94.1							538	2,721,500
	1929	621			94.6	75.0							470	2,367,200
Rock Island, Ill.....	1928	146	35,177	42,700	41.5	34.2							118	453,500
	1929	200			56.9	46.8							177	616,100
Sacramento, Calif.....	1928	917	65,908	75,700	139.1	121.1	1	45,000					751	3,347,972
	1929	693			105.1	91.5	1	133,000					457	2,578,604
Saginaw, Mich.....	1928	577	61,903	75,600	93.2	76.3	1	150,000					533	1,619,116
	1929	501			80.9	66.3							498	1,498,680

<sup>1</sup> Population not estimated by Census Bureau.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings	
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost
							Number	Cost	Number	Cost	Number	Cost		
St. Joseph, Mo.....	1928	98	77,939	78,500	12.6	12.5							66	\$374,200
	1929	205			26.3	26.1							118	472,850
Ft. Louis, Mo.....	1928	7,190	772,897	848,100	93.0	84.8	9	\$2,967,000			3	\$361,000	2,915	22,556,980
	1929	4,304			56.5	51.5	3	1,535,500			1	55,000	1,797	14,014,240
St. Paul, Minn.....	1928	773	234,698	(*)	32.9								699	4,528,228
	1929	591			25.2						3	80,400	491	2,889,612
St. Petersburg, Fla.....	1928	172	14,237	53,300	120.8	32.3			1	\$29,000			172	848,100
	1929	67			47.1	12.6	1	45,000					67	323,200
Salem, Mass.....	1928	120	42,529	43,000	28.2	27.9			1	35,000			78	742,000
	1929	115			27.0	26.7							73	608,850
Salt Lake City, Utah.....	1928	731	118,110	138,000	61.9	53.0							449	2,297,410
	1929	699			59.2	50.7	1	324,000					453	2,899,310
San Antonio, Tex.....	1928	2,784	161,379	218,100	172.5	127.6							2,118	8,661,556
	1929	2,233			138.4	102.4	1	675,000	4	15,525			1,895	6,385,782
San Diego, Calif.....	1928	2,146	74,683	119,700	287.3	179.3	2	153,000					1,690	7,400,101
	1929	1,318			176.5	110.1	1	109,400					1,064	4,813,317
San Francisco, Calif.....	1928	6,084	508,676	585,300	119.6	103.9	8	2,445,800	1	15,000	1	60,000	2,612	22,465,464
	1929	3,518			69.2	60.1	7	1,399,500			5	77,326	1,472	15,345,027
San Jose, Calif.....	1928	370	39,642	45,500	93.3	81.3							270	1,301,010
	1929	335			84.5	73.6	1	96,000					247	1,270,265
Savannah, Ga.....	1928	430	83,252	99,900	51.7	43.0							317	1,429,665
	1929	195			23.4	19.5							157	668,050
Schenectady, N. Y.....	1928	269	88,723	93,300	30.3	28.8							260	1,844,500
	1929	278			31.3	29.8					1	56,000	258	1,739,100
Scranton, Pa.....	1928	292	137,783	144,700	21.2	20.2							184	1,700,495
	1929	137			9.9	9.5							110	569,440
Seattle, Wash.....	1928	4,658	315,312	383,200	147.7	121.6	3	1,778,000			5	174,000	2,496	17,785,350
	1929	3,289			104.3	85.8					4	220,000	1,799	11,707,910
Sheyboygan, Wis.....	1928	188	30,955	35,100	60.7	53.6							172	1,037,400
	1929	127			41.0	36.2							122	686,600
Shreveport, La.....	1928	713	43,874	81,300	162.5	87.7							567	2,134,902
	1929	543			128.8	66.8							459	1,462,368



Sioux City, Iowa	1928	282	71, 227	80, 000	39. 6	35. 3													209	1, 058, 750
	1929	308			43. 2	38. 5													158	942, 300
Sioux Falls, S. Dak.	1928	211	25, 202	( <sup>1</sup> )	83. 7														181	858, 920
	1929	171			67. 9														139	678, 600
Somerville, Mass.	1928	199	93, 091	102, 700	21. 4	19. 4													69	861, 300
	1929	286			30. 7	27. 8													62	991, 500
South Bend, Ind.	1928	579	70, 983	86, 100	81. 6	67. 2													566	2, 951, 350
	1929	661			93. 1	76. 8													601	2, 884, 080
Spokane, Wash.	1928	574	104, 437	109, 100	55. 0	52. 6							1	25, 000					489	2, 269, 025
	1929	419			40. 1	38. 4													354	1, 536, 720
Springfield, Ill.	1928	352	59, 183	67, 200	59. 5	52. 4													295	1, 929, 900
	1929	229			38. 7	34. 1													189	928, 805
Springfield, Mass.	1928	647	129, 614	149, 800	49. 9	43. 2		1	500, 000										470	3, 276, 050
	1929	466			36. 0	31. 1													317	1, 942, 500
Springfield, Mo.	1928	305	39, 631	51, 700	77. 0	59. 0													272	677, 275
	1929	218			55. 0	42. 2		1	100, 000										211	706, 751
Springfield, Ohio	1928	315	60, 840	73, 000	51. 8	43. 2							1	20, 000					277	1, 007, 550
	1929	244			40. 1	33. 4													216	819, 410
Stamford, Conn.	1928	331	35, 096	43, 800	94. 3	75. 6		1	230, 000										252	2, 474, 550
	1929	315			89. 8	71. 9													213	2, 038, 400
Steubenville, Ohio	1928	191	28, 508	( <sup>1</sup> )	67. 0														173	708, 000
	1929	181			63. 5														154	709, 450
Stockton, Calif.	1928	226	40, 296	51, 000	56. 1	44. 3		1	22, 500										204	831, 710
	1929	151			37. 5	29. 6		1	7, 500										91	476, 750
Superior, Wis.	1928	136	39, 671	( <sup>1</sup> )	34. 3														136	551, 850
	1929	134			33. 8														111	505, 115 <sup>1</sup>
Syracuse, N. Y.	1928	1, 561	171, 717	199, 300	90. 9	78. 3		1	80, 000				1	55, 000					982	8, 135, 200
	1929	793			46. 2	39. 8													673	4, 553, 600
Tacoma, Wash.	1928	822	96, 965	110, 500	84. 8	74. 4							1	115, 000					552	2, 661, 000
	1929	515			53. 1	46. 6													325	1, 480, 000
Tampa, Fla.	1928	647	51, 608	113, 400	125. 4	57. 1		1	100, 000										622	1, 720, 260
	1929	188			36. 4	16. 6													188	345, 195
Taunton, Mass.	1928	60	37, 137	40, 600	16. 2	14. 8		1	300, 000										56	515, 300
	1929	38			10. 2	9. 4													35	156, 850
Terre Haute, Ind.	1928	113	66, 083	73, 500	17. 1	15. 4													113	336, 050
	1929	78			11. 8	10. 6													77	269, 400
Toledo, Ohio	1928	1, 698	243, 164	313, 200	69. 8	54. 2													1, 270	6, 658, 125
	1929	1, 310			53. 9	41. 8													939	4, 792, 150
Topeka, Kans.	1928	304	50, 022	62, 800	60. 8	48. 4													240	1, 187, 650
	1929	191			38. 2	30. 4													164	803, 800
Trenton, N. J.	1928	223	119, 289	139, 000	18. 7	16. 0		1	350, 000										180	1, 522, 100
	1929	87			7. 3	6. 3													66	655, 014
Troy, N. Y.	1928	157	72, 013	72, 300	21. 8	21. 7						1	4, 000						128	790, 750
	1929	111			15. 4	15. 4								1	17, 000				106	698, 520
Tucson, Ariz.	1928	336	20, 292	( <sup>1</sup> )	165. 6			3	170, 000			1	25, 000						325	1, 297, 972
	1929	940			167. 6			2	423, 000			2	27, 500						297	1, 674, 487
Tulsa, Okla.	1928	2, 187	72, 075	170, 500	303. 4	128. 3		5	1, 240, 000										1, 337	8, 853, 800
	1929	1, 646			228. 4	96. 5						1	12, 000						1, 032	5, 629, 097
Union City, N. J.	1928	84	40, 074	64, 400	21. 0	13. 0													13	326, 300
	1929	125			31. 2	19. 4													10	415, 900

<sup>1</sup> Population not estimated by Census Bureau.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 1.—NEW RESIDENTIAL BUILDINGS—Continued

City and State	Year	Grand total families	Population		Ratio of families provided for per 10,000 of population based on—		Nonhousekeeping dwellings						Total new housekeeping and nonhousekeeping dwellings	
			Census of 1920	Estimate for specified year	Census of 1920	Estimate for specified year	Hotels		Lodging houses		Other		Number	Cost
							Number	Cost	Number	Cost	Number	Cost		
Utica, N. Y.	1928	342	94,156	104,200	36.3	32.8					1	\$250,000	224	\$2,390,100
	1929	111			11.8	10.7							109	715,200
Vallejo, Calif.	1928	43	21,107	(1)	20.4		1	\$76,000					44	268,950
	1929	48			22.7								48	166,130
Waco, Tex.	1928	177	38,500	46,600	46.0	38.0							172	631,003
	1929	214			55.6	45.9	1	67,500			4	24,867	219	983,204
Waltham, Mass.	1928	362	30,915	37,100	117.1	97.6							241	1,744,300
	1929	205			66.3	55.3							145	1,022,806
Warren, Ohio.	1928	306	27,050	(1)	113.1						2	350,000	300	1,434,830
	1929	269			99.4								253	1,352,845
Washington, D. C.	1928	4,305	437,571	552,000	98.4	78.0	2	3,500,000			1	236,000	1,385	33,337,350
	1929	3,223			73.7	58.4	2	900,000			3	1,070,000	1,427	22,747,645
Waterbury, Conn.	1928	504	91,715	(1)	55.0						1	77,000	308	2,040,500
	1929	262			28.6								206	1,253,500
Waterloo, Iowa.	1928	270	36,230	37,100	74.5	72.8	1	400,000					268	1,248,700
	1929	357			98.5	96.2							301	1,021,825
Watertown, Mass.	1928	454	21,457	(1)	211.6								267	2,246,800
	1929	221			103.0								145	1,134,400
Watertown, N. Y.	1928	53	31,285	33,700	16.9	15.7							52	275,800
	1929	52			16.6	15.4							51	302,800
West New York, N. J.	1928	170	29,926	(1)	56.8						2	145,000	23	722,000
	1929	82			27.4								21	294,350
Wheeling, W. Va.	1928	125	56,208	(1)	22.2								89	641,280
	1929	72			12.8								69	445,950
White Plains, N. Y.	1928	856	21,031	(1)	407.0		1	353,300					334	6,718,900
	1929	345			164.0								193	3,186,635
Wichita, Kans.	1928	1,207	72,217	99,300	167.1	121.6	4	640,000					962	4,616,615
	1929	1,580			218.8	159.1	1	75,000					1,168	4,846,605
Wichita Falls, Tex.	1928	222	40,079	(1)	55.4								207	900,788
	1929	109			27.2								95	494,885

Wilkes-Barre, Pa. ....	1928	174	73, 833	91, 900	23. 6	18. 9						117	753, 540	
	1929	70		( <sup>1</sup> )	9. 5	7. 6	1	800, 000				61	1, 049, 695	
Wilkesburg, Pa. ....	1928	90	24, 403	( <sup>1</sup> )	36. 9							90	1, 009, 095	
	1929	199			81. 5							121	945, 755	
Williamsport, Pa. ....	1928	169	36, 198	44, 000	46. 7	38. 4				1	299, 000	143	1, 029, 090	
	1929	103			28. 5	23. 4						84	456, 466	
Wilmington, Del. ....	1928	365	110, 168	128, 500	33. 1	28. 4				1	620, 000	330	2, 927, 463	
	1929	383			34. 8	29. 8				1	173, 000	262	2, 426, 335	
Wilmington, N. C. ....	1928	64	33, 372	39, 100	19. 2	16. 4						58	222, 000	
	1929	74			22. 2	18. 9						64	314, 000	
Winston-Salem, N. C. ..	1928	965	48, 395	80, 000	199. 4	120. 6						720	3, 597, 360	
	1929	317			65. 5	39. 6				3	329, 500	255	1, 583, 195	
Woonsocket, R. I. ....	1928	79	43, 496	53, 400	18. 2	14. 8				1	3, 500	49	274, 800	
	1929	23			5. 3	4. 3						23	89, 950	
Worcester, Mass. ....	1928	474	179, 754	197, 600	26. 4	24. 0				3	389, 600	381	2, 899, 135	
	1929	379			21. 1	19. 2				1	1, 000	321	2, 132, 900	
Yonkers, N. Y. ....	1928	4, 216	100, 176	121, 300	420. 9	347. 6						866	29, 553, 210	
	1929	1, 808			180. 5	149. 1	1	600, 000		6	1, 085, 000	477	13, 535, 877	
York, Pa. ....	1928	144	47, 152	49, 900	30. 5	28. 9						144	575, 300	
	1929	87			18. 5	17. 4						86	443, 525	
Youngstown, Ohio. ....	1928	929	132, 358	174, 200	70. 2	53. 3						833	5, 043, 935	
	1929	525			39. 7	30. 1	1	1, 200, 000				487	3, 780, 325	
Zanesville, Ohio. ....	1928	138	29, 569	( <sup>1</sup> )	46. 7							132	372, 785	
	1929	103			34. 8							98	323, 160	
<b>Total:</b>														
309 cities. ....	1928	399, 596	38, 219, 442	* 44, 911, 179			235	114, 928, 650	37	\$780, 576	208	35, 557, 169	181, 927	1, 913, 534, 222
311 cities. ....	1929	252, 726	38, 276, 100	* 44, 940, 049			275	284, 604, 413	23	428, 569	138	37, 011, 151	126, 952	1, 477, 477, 877

<sup>1</sup> Population not estimated by Census Bureau.

<sup>2</sup> See notes to detail.

GENERAL TABLE

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TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

## PART 2.—NEW NONRESIDENTIAL BUILDINGS

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Akron, Ohio	1928	5	\$235,500	3	\$72,500	27	\$1,332,975	19	\$531,350	2,163	\$471,537	28	\$102,022				
	1929	1	35,000	5	190,000	26	911,750	11	184,700	2,373	509,037	40	104,786			1	\$2,200,000
Alameda, Calif.	1928			2	42,700	3	13,500			187	39,401	13	15,475			2	27,820
	1929	9	32,100			1	27,970			162	39,480	2	1,100				
Albany, N. Y.	1928	2	224,000	1	80,000	2	56,000	11	438,500	358	411,215	3	16,000	1	\$1,250,000	2	900,000
	1929			3	500,000	1	16,000	2	106,000	218	192,778	7	87,000			5	2,086,000
Allentown, Pa.	1928	7	357,000	4	242,500	2	45,000	517	522,915	9	38,100	1	235,000			5	198,400
	1929	2	224,000	3	100,800	5	262,050	5	159,000	504	291,815	15	79,300	3	297,000		
Alton, Ill.	1928			4	21,185	5	201,175			84	25,452	4	9,100	1	78,400		
	1929			1	500	2	9,850			38	11,266					1	16,300
Altoona, Pa.	1928			4	832,690	5	201,175			263	94,427	2	2,050				
	1929	1	46,945	2	40,066	9	10,355			363	102,870	8	37,135				
Amsterdam, N. Y.	1928	1	35,000					1	5,000	119	55,875	1	3,000	2	5,500	1	250,000
	1929			2	200,000	1	240,000			93	47,050	4	29,000	1	2,800		
Anderson, Ind.	1928	2	1,000,000			2	2,400	1	4,000	142	27,814	3	21,500				
	1929			3	44,000	6	92,500	1	700	102	27,009	1	3,500			1	75,000
Asheville, N. C.	1928	2	36,000	5	6,700			8	142,250	177	20,400	8	37,800			2	365,000
	1929	2	1,150	2	12,500			4	30,000	123	15,481	5	132,150	2	210,000		
Ashtabula, Ohio	1928	1	25,000	2	49,900	5	17,450	3	36,800	124	24,123	5	15,200			2	50,500
	1929	3	264,000							116	22,354	4	35,450	1	60,000		
Atlanta, Ga.	1928	4	1,969,500	18	208,500	9	361,000	13	292,750	296	33,656	27	97,250	2	181,600	2	6,122,000
	1929	7	109,500	14	650,311	3	19,500	12	407,400	301	34,804	29	134,650	2	71,700	2	485,000
Atlantic City, N. J.	1928			1	115,000	1	1,000	2	265,000	70	33,365	9	70,000			2	228,000
	1929	1	20,000			9	26,300	1	5,000	45	22,595	10	43,600			2	257,894
Auburn, N. Y.	1928	3	28,826	1	70,000	1	2,000	2	10,410	145	41,119	10	16,950				
	1929	1	475	1	80,543	9	169,975			162	64,751	3	12,500	1	24,800	2	17,000
Augusta, Ga.	1928	1	25,000	3	11,690	2	900	1	8,500	53	4,289	8	31,800			3	2,430
	1929					1	200	2	2,900	92	17,079	13	54,845				
Aurora, Ill.	1928					5	27,750	7	37,500	192	56,494	3	6,600			1	60,000
	1929			1	138,000	3	107,500	1	4,000	192	110,014	1	4,000			1	204,000
Austin, Tex.	1929	1	500,000					6	20,000	360	30,000	15	35,000	2	50,000	3	275,000
Baltimore, Md.	1928	1	35,000	7	618,500	26	1,144,000	15	106,000	2,204	1,304,700	34	373,000	2	420,000	4	4,152,000
	1929	3	83,000	11	522,000	27	3,648,000	17	71,500	1,978	1,376,400	32	257,000	3	375,000	5	363,000
Bangor, Me.	1928					1	75	2	26,500	73	22,610	3	4,800			2	265,000
	1929			1	10,000			2	30,500	73	21,000	1	15,000			1	24,000

Baton Rouge, La.	1929	1	800	3	29,500	3	20,300	2	7,185	100	7,499	5	7,206		3	30,413	
Battle Creek, Mich.	1928	1	7,000	2	51,000	14	272,200	7	41,400	239	61,955	8	18,350	2	5	418,300	
	1929			3	252,100	14	786,050	9	33,750	229	58,000	10	44,100		4	189,450	
Bay City, Mich.	1928	1	50,000			8	1,051,350			185	37,181	5	10,250				
	1929	1	25,000			10	932,700			236	51,881	10	132,800	1			
Bayonne, N. J.	1928	1	5,000			10	280,180	6	34,700	75	46,650	3	7,200		1	5,300	
	1929	4	23,000			9	413,270	1	6,000	47	27,525	5	21,800				
Beaumont, Tex.	1928			2	55,000			(*)	(*)	155	83,289						
	1929	1	8,750	3	19,500					167	248,573			1		20,500	
Belleville, Ill.	1928			1	80,000	2	19,650			108	10,231						
	1929			1	6,000	6	18,425	1	20,000	95	12,812	4			1	15,000	
Bellingham, Wash.	1928							2	14,350	121	13,680	15	184,950				
	1929	2	36,000			7	16,230			68	11,620	14	75,980		14	44,990	
Berkeley, Calif.	1928	1	5,000	1	41,800	12	241,967	2	21,500	457	125,990	12	20,080				
	1929			1	5,000	7	166,500			307	81,849	5	20,050				
Bethlehem, Pa.	1928	2	15,982			6	29,800	6	83,800	241	152,735	8	17,200	3	1,485,208		
	1929			1	34,000	6	501,000	2	12,500	235	121,275	12	32,450	2	102,252		
Binghamton, N. Y.	1928	2	16,000			17	895,600	2	76,000	352	110,070	5	51,350	2	60,150		
	1929	3	40,000	2	42,300	14	211,501	1	11,000	283	88,180	24	155,450			852,000	
Birmingham, Ala.	1928	6	260,963	22	381,716	32	540,850	17	361,930	457	78,865	22	87,900	3	228,500	17	701,434
	1929	4	118,685	19	447,678	19	292,990	9	135,950	267	33,084	23	105,830	2	73,000	10	445,721
Bloomfield, N. J.	1928			3	200,000			2	35,000	397	162,600	2	15,000		3	105,000	
	1929					3	193,000	5	370,000	354	139,925	3	15,000				
Bloomington, Ill.	1928			1	60,000	5	35,000	3	14,000	24	13,300	2	8,000	1	125,000	1	218,000
	1929					4	62,000	2	9,000	30	15,500	5	75,000				
Boston, Mass.	1928	6	442,000	6	388,000	23	1,080,000	3	424,000	1,176	940,915	28	242,100	9	1,752,248	15	8,068,000
	1929	4	790,000	8	563,000	15	379,200	3	127,000	1,000	750,222	36	130,225	9	6,900,500	13	5,861,500
Bridgeport, Conn.	1928	2	18,000	1	23,000					455	255,774	17	89,100			6	29,550
	1929	1	136,000	2	80,000	1	80,000	21	40,800	404	168,148	8	113,800	2	14,400	8	906,650
Brookton, Mass.	1928			2	175,000	1	80,000	1	30,000	241	77,113	2	2,550	1	30,000		
	1929			1	75,000	2	3,200			221	84,053	4	28,150			1	50,000
Brookline, Mass.	1928							1	35,000	132	191,145	1	45,000				
	1929	2	70,600			9	30,730	1	30,000	81	101,980	3	157,000	1	80,000	1	18,000
Buffalo, N. Y.	1928	3	448,000	8	271,000	78	1,389,902	235	235,190	2,211	686,074	19	16,075	3	320,000	9	2,050,000
	1929					55	1,848,700	278	317,410	1,805	508,167						
Burlington, Iowa.	1928			2	8,100	3	39,500			96	29,094			2	32,380		
	1929	1	2,000			1	145,000	1	14,000	133	26,303	1	2,000				
Butler, Pa.	1928					1	1,800			38	19,740	1	1,500				
	1929	1	100,000			1	21,000			50	30,875	1	10,000				
Butte, Mont.	1928					1	10,000	4	92,400	58	10,300	7	14,350				
	1929	8	10,750			2	7,500	6	8,350	66	16,584	8	29,050		9	59,150	
Cambridge, Mass.	1928	1	29,000	3	64,300	13	169,000	2	37,900	205	158,805	6	53,100	4	1,551,000	5	32,100
	1929	3	1,244,000	1	8,000	23	461,100			148	115,075	5	13,000		1	60,000	
Camden, N. J.	1928					36	748,600	3	28,000	284	107,580	6	39,795	1	150,000	15	2,058,875
	1929			1	50,000	19	215,400	2	12,500	216	98,765	11	32,900		6	184,045	
Canton, Ohio.	1928	1	100,000	2	158,500	16	180,075	8	49,100	570	112,762	17	119,650	1	18,000	1	22,000
	1929			2	85,000	11	108,000	13	77,100	554	108,805	17	72,750	2	230,000	2	40,000
Cedar Rapids, Iowa.	1928	2	121,000	1	25,000	5	595,541	7	99,500	360	74,947	13	98,560				
	1929			3	115,000	3	29,000			348	73,106	5	27,500				

\* Included with private garages.

\* Includes public garages.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Central Falls, R. I.	1928							8	\$14,305	25	\$18,040						
	1929					3	\$230,500			91	45,975						
Charleston, S. C.	1928			7	\$21,918	2	2,650	5	3,000	24	3,095	3	\$25,500			1	\$150,000
	1929					5	11,650	1	400	23	4,255	6	43,100			3	19,250
Charleston, W. Va.	1928			3	181,500	5	21,500	5	151,500	175	99,190	6	30,200			2	559,500
	1929	1	\$14,000	1	12,000	5	43,400	3	25,500	185	149,764	10	49,897				
Charlotte, N. C.	1928	4	36,000	9	402,400	18	218,615	6	263,500	81	15,959	9	25,150			11	536,800
	1929	4	42,500	3	158,275	8	118,550	4	81,700	62	9,985	30	137,300			1	5,000
Chattanooga, Tenn.	1928	3	173,000	4	154,744	18	147,643	8	80,000	121	20,617	15	46,000	1	\$175,000	6	1,057,000
	1929	7	68,350	1	2,000	11	80,000	3	20,000	176	19,176	4	11,850	2	6,000	3	21,100
Chelsea, Mass.	1928					5	148,700	1	5,000	51	27,565					3	23,350
	1929	1	1,750	1	110,000	3	109,000	1	45,000	35	19,865	4	76,000				
Chester, Pa.	1928	1	25,000	1	20,000	3	145,000	2	53,000	137	131,767	6	24,400			1	24,700
	1929			1	18,000	10	151,600			123	70,860						
Chicago, Ill.	1928	16	15,939,500	47	6,855,100	197	14,556,300	156	4,692,900	4,994	1,831,600	207	986,500	7	3,600,000	75	36,599,213
	1929	13	3,351,500	40	3,106,500	187	15,621,900	108	4,176,600	4,071	1,539,400	120	1,181,400	16	5,700,400	88	25,033,800
Chicopee, Mass.	1928	2	17,500			7	95,750	1	10,000	143	48,575	1	6,700				
	1929	1	50,000	3	141,000	13	368,900	4	88,000	170	54,220	6	16,100	1	800,000	2	96,500
Cicero, Ill.	1928			1	300,000	14	438,650	1	300,000	184	71,667	4	17,300			2	36,500
	1929			2	750,000	14	763,000	17	1,426,800	1,613	793,590	20	57,600	2	610,800	2	1,335,000
Cincinnati, Ohio	1928	4	102,000	5	383,000	30	2,527,500	6	279,800	1,171	531,540	15	69,900	6	3,203,000	3	125,600
	1929	2	145,000	1	4,000	4	100,700	4	53,000	1,077	31,325	2	11,000			3	140,200
Clarksburg, W. Va.	1928	1	100,000	1	2,000	3	31,505	3	18,500	104	29,735	5	20,800			4	69,800
	1929			8	288,000	59	1,182,600	24	615,300	3,724	876,150	86	132,300	4	4,475,000	23	5,475,600
Cleveland, Ohio	1928	6	619,500	5	843,000	52	1,078,500	21	1,078,500	3,576	1,062,275	83	363,750	1	60,000	27	4,667,100
	1929	4	202,500	1	5,000	10	339,500	5	63,600	436	149,260	7	16,900			3	29,300
Clifton, N. J.	1928	1	153,000	1	25,000	9	198,200	5	41,800	437	141,820	9	20,500				
	1929	1	6,000	1	2,000	3	31,505	3	18,500	104	29,735	5	20,800				
Colorado Springs, Colo.	1928	1	24,800	1	22,000	2	5,000	1	1,500	217	33,015	5	13,500				
	1929	1	1,200	3	7,950			2	34,500	191	34,885	5	22,700	2	298,050		
Columbia, S. C.	1928			1	56,500	3	59,500			77	14,850	9	29,900				
	1929	2	9,700	1	135,000	2	3,700			71	10,890	3	9,500	1	22,000	1	5,500
Columbus, Ga.	1928			1	8,000	3	112,000	2	1,275	60	5,019	8	51,500				
	1929			4	90,000	2	2,000	2	2,000	72	6,769	4	17,500				
Columbus, Ohio	1928	4	167,000	5	152,500	21	272,800	7	30,200	2,370	701,340	17	153,400	1	90,000	8	372,000
	1929	1	4,000	4	35,000	13	221,400	4	58,000	1,482	449,450	34	211,450			2	225,000

Council Bluffs, Iowa	1928	1	3,000	1	3,000	6	61,000			74	19,050	1							
	1929	2	2,000			8	41,000			90	17,850	6							
Covington, Ky.	1928			1	20,000	7	41,500	1	9,000	125	70,950	2						4	52,000
	1929	3	79,300	1	30,000	6	40,000	4	40,000	121	55,300	4						2	90,200
Cranston, R. I.	1928			1	350,000	8	232,525			465	175,999	4							
	1929					1	40,000	1	12,000	463	170,668	5							
Cumberland, Md.	1928	1	49,000	2	87,500	4	2,120			103	30,991		2		453,000				
	1929					4	10,885	16	4,610	103	31,283	5							
Dallas, Tex.	1928	1	12,000	16	359,100	32	351,326	17	124,750	212	41,448	27						27	102,640
	1929	3	16,500	15	121,300	7	27,300	30	79,304	153	38,738	41							
Danville, Ill.	1928					1	6,988	1	5,105	4	1,800	13							
	1929			1	6,000	4	172,800	4	2,190	10	5,057	8							
Davenport, Iowa	1928	3	29,800			2	70,200	2	30,000	230	46,012	2							
	1929	1	12,600	2	102,000	2	68,500	7	104,900	275	59,332	6							
Dayton, Ohio	1928	2	71,616	3	39,000	45	621,433	23	611,643	1,061	550,399	11							
	1929			2	14,000	42	2,085,482	9	240,645	780	400,614	17							
Decatur, Ill.	1928			1	32,000	12	118,400	12	12,700	465	104,910		1		50,000			5	713,000
	1929					5	119,000			392	88,085							1	35,000
Denver, Colo.	1928			5	166,000	5	57,000	14	313,000	672	327,500	33						1	1,005,000
	1929	2	126,000	4	90,000	16	936,500	15	592,000	576	263,100	17						2	425,000
Des Moines, Iowa	1928	3	10,650	8	310,505	4	57,551	8	46,475	497	76,371	29						2	79,000
	1929	1	700	7	175,200	4	46,500	9	117,200	432	69,939	3						6	5,150
Detroit, Mich.	1928	11	3,647,500	29	1,906,600	172	9,843,388	93	4,339,203	11,067	2,875,042	111						39	8,000
	1929	7	369,000	19	1,347,300	184	9,582,837	120	1,796,232	10,419	2,551,797	120						21	6,139,974
Dubuque, Iowa	1928							2	24,000	141	39,594	4							
	1929					13	35,767	4	136,000	132	29,872	1							
Duluth, Minn.	1928			2	46,500	5	157,000	1	13,000	156	34,814	172						1	60,000
	1929	1	40,000	1	3,000	2	28,000			328	109,596	12							
Durham, N. C.	1928			4	71,900	13	303,200	1	29,000	12	3,365	12							
	1929			1	4,950	1	75,000			4	5,750	2						3	171,000
East Chicago, Ind.	1928			3	89,300	45	956,355	6	120,000	84	37,764	3						1	500,000
	1929					200	3,608,757			76	26,374	2						21	362,846
East Cleveland, Ohio	1928			1	4,000	5	68,090	1	8,000	106	27,196	5							
	1929					1	25,000			70	20,576	5							
Easton, Pa.	1928	2	3,700			3	10,300	6	28,600	68	46,819	5							
	1929			1	49,200	2	23,965	1	60,000	78	55,993	2						2	662,300
East Orange, N. J.	1928	1	46,000			4	20,862	5	85,000	311	280,875	14						9	461,200
	1929	1	24,000	1	341,000	5	19,375	1	9,000	247	246,263	13						6	582,000
East Providence, R. I.	1928	1	60,000	1	3,000	16	336,800	6	74,750	264	110,142	5						5	92,000
	1929									280	119,986	6							
East St. Louis, Ill.	1928			4	24,000	10	182,531			336	74,154	22						3	25,000
	1929			2	6,500	4	77,000	1	3,579	280	43,564	11						1	10,000
Elgin, Ill.	1928					1	7,000	4	49,000	308	102,005	4						1	600,000
	1929			3	90,500	2	70,000	1	15,000	265	79,663	6						2	37,000
Elizabeth, N. J.	1928	2	77,000	3	166,000	8	143,000	1	16,000	526	184,500	17						4	102,500
	1929	6	202,000	4	174,000	7	239,000	6	63,000	419	142,200	33						6	206,000
Elkhart, Ind.	1928			1	2,500	6	32,325			252	56,580	12							
	1929	1	9,925	2	31,665	6	136,500	2	33,000	246	51,446	2							
Elmira, N. Y.	1928	1	10,500			4	25,800	5	28,100	232	43,034	9							
	1929					6	81,950	2	2,550	216	44,316	3						2	50,000
El Paso, Tex.	1928	1	1,500	2	16,750	5	38,100	5	15,875	206	44,969	9						4	24,930
	1929	4	270,500	3	7,800	7	72,350	5	26,525	144	39,207	12						2	364,200

GENERAL TABLE

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TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

## PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Erie, Pa.	1928	3	\$38,100	2	\$17,700	14	\$169,100	55	\$107,385	612	\$151,709	10	\$37,200			4	\$29,300
	1929			6	1,041,300	14	166,040	10	237,500	616	193,032	9	45,900				
Evanston, Ill.	1928	1	800,000					3	90,000	379	285,775	4	20,000	1	\$400,000	2	351,500
	1929		75,000	3	312,000	1	12,000	1	100,000	245	213,450	9	97,500			1	250,000
Evansville, Ind.	1928	1		2	65,000	18	1,348,500	10	111,900	397	47,729	14	155,250	4	140,500		
	1929			3	10,700	6	101,000	7	121,700	268	38,420	19	92,500			5	845,000
Everett, Mass.	1928			2	177,500			4	3,950	172	75,250	1	1,000				
	1929	1	32,000			21	417,700	2	9,800	120	36,475						
Everett, Wash.	1928			1	8,000	3	11,000			174	10,640	8	17,200				
	1929			1	21,645	1	2,500			154	9,465						
Fall River, Mass.	1928	4	199,150	1	200,000	8	50,690	14	21,850	132	43,834	11	39,950			8	681,000
	1929					9	20,690	16	15,675	147	39,095	12	71,800			1	80,000
Fitchburg, Mass.	1928	1	175,000	1	160,000	3	69,000	2	10,500	59	17,885	4	6,900				
	1929					4	15,780	2	15,000	68	41,957	5	15,700				
Flint, Mich.	1928	5	942,000	16	63,545	36	580,225	18	155,747	1,706	528,769	39	206,085			9	251,600
	1929	2	62,700	9	63,814	28	750,510	7	87,635	1,772	565,705	25	114,894	1	68,000	7	1,174,969
Fond du Lac, Wis.	1928			3	6,550	3	6,550	2	5,000	149	22,231	8	8,930				
	1929			1	100,000	6	85,500	1	18,000	122	20,487	8	55,965			1	115,000
Fort Wayne, Ind.	1928			2	14,000	7	100,068	6	61,100	716	208,592	17	91,783	3	631,384		
	1929	3	398,300	8	40,600	11	491,750	11	158,486	852	251,771	17	113,450	2	10,850	7	1,024,202
Fort Worth, Tex.	1928	10	66,500	26	283,698	10	188,682	49	371,137	296	52,495	20	61,457				
	1929	11	593,731	15	729,650	14	281,900	37	161,925	193	48,109	56	220,619			7	1,977,244
Fresno, Calif.	1928	1	25,000	1	50,000	8	23,125	2	2,800	158	26,450	16	19,677			2	38,000
	1929	2	57,800	1	30,500	8	50,808	2	5,000	158	55,020	15	26,759			1	16,000
Galveston, Tex.	1928	3	100,300			1	8,000	2	12,000	178	29,476	1	2,000	2	97,000		
	1929	1	75	3	74,000	2	7,900	5	11,260	134	16,683	1	2,000	1	423,222		
Gary, Ind.	1928	2	12,800	10	145,700	4	71,000	6	110,800	608	227,790	9	24,450	10	141,200		
	1929	2	50,000	6	149,000	4	264,100	2	9,000	382	108,645	17	34,450			3	1,700
Grand Rapids, Mich.	1928			6	287,000	10	556,800	16	185,900	1,498	363,790	22	79,160			3	13,500
	1929	2	28,000	11	193,250	9	149,500	29	396,675	1,284	287,585	20	68,200	3	34,620	19	172,550
Great Falls, Mont.	1928	2	57,656	1	42,500	2	8,350	6	124,230	157	13,800	3	11,200				
	1929	1	9,200	1	15,000	5	29,650	4	65,806	212	70,301	3	15,450	2	1,119,000	5	128,000
Green Bay, Wis.	1928			1	127,000	2	3,500	2	7,100	233	39,338	6	1,625				
	1929	1	500,000	2	184,000	8	185,332	4	35,500	240	42,155	7	17,850				
Greensboro, N. C.	1928	1	142,000	5	472,600	14	247,225	5	233,000	98	15,393	10	45,150	1	27,880		
	1929	1	60,000	3	52,000	4	30,500	5	35,500	70	7,008	5	26,650	1	30,000	4	330,837



Greenville, S. C.	1928	1	5,000	7	174,000	4	4,700	1	1,000	26	2,450	1	6,000				
	1929			2	44,000	1	800	2	5,200	19	3,725	4	22,500	2	100,200		
Greenwich, Conn.	1928	7	557,000	1	78,000	1	31,000	3	86,700	119	110,715	6	10,000				
	1929	7	223,500			3	26,500	5	194,340	114	76,990	4	7,650			2	78,000
Hagerstown, Md.	1928			2	107,000	5	22,950			136	27,030						
	1929			1	69,000	2	92,000	1	3,000	106	25,850	1	7,000				
Hamilton, Ohio	1928			1	1,000	2	1,400			189	53,072	2	11,650	1	4,000		
	1929	1	140,000			1	12,916			198	48,954	2	6,800			1	500,000
Hammond, Ind.	1928	1	20,000	2	107,000	2	2,190,000	24	17,500	242	171,680	3	6,000				
	1929	1	300,000	1	107,000	12	1,399,000			218	118,650					1	8,000
Hamtramck, Mich.	1928	4	253,000			2	38,300	3	85,000	163	44,240	3	4,500			3	92,000
	1929			1	65,000					239	52,300	1	2,000			1	51,000
Harrisburg, Pa.	1928	1	6,000	1	60,000	4	48,750	8	37,400	259	161,235	6	38,000	1	10,500	1	10,000
	1929	1	500,000	2	335,000	2	43,000	2	9,500	241	158,235	4	18,500			3	307,400
Hartford, Conn.	1928	2	206,500			12	294,945	9	170,700	419	462,353	15	53,700	3	310,400	4	367,900
	1929	2	18,000	3	127,099	12	274,785	2	212,000	237	204,338	15	131,150	1	43,000	5	6,739,450
Haverhill, Mass.	1928			2	51,500	9	27,820	127	38,745	127	38,745	9	27,350	1	1,400		
	1929	2	2,000			3	1,150	13	23,200	113	34,070	14	19,615				
Hazleton, Pa.	1928	2	202,290	2	315,273	1	4,644	1	10,400	56	77,127	3	2,958				
	1929					2	8,688	8	7,864	41	55,307	1	718			1	13,725
Highland Park, Mich.	1928			3	263,200	4	776,000	2	34,000	155	67,927	1	3,000				
	1929			2	128,650	3	23,000	6	295,000	124	46,160	6	21,000			3	279,500
Hoboken, N. J.	1928					6	31,600	4	72,500	20	37,290	3	6,000			1	50,000
	1929					1	22,000	2	38,000	8	11,400	1	7,000			1	225,000
Holyoke, Mass.	1928	1	18,000			4	19,000	13	26,750	109	45,750	6	11,350	1	35,000	5	225,550
	1929	9	47,600			3	165,000	11	18,900	57	24,775	2	2,550				
Houston, Tex.	1928	6	309,000	27	643,650	41	1,322,698	27	505,650	154	94,301	52	163,029	4	100,500	22	6,261,803
	1929	4	88,800	33	1,613,281	36	695,350	53	207,600	135	89,420	62	292,390	3	220,130	14	1,895,425
Huntington, W. Va.	1928	1	182,000	2	160,000	2	30,000	2	10,000	120	12,500	4	29,000				
	1929	1	35,000	2	5,000	4	60,000			150	47,400			2	291,000	1	15,000
Hutchinson, Kans.	1928	1	8,000	2	55,000	14	10,685			191	35,410	9	24,650				
	1929	2	13,000			3	6,650	1	3,500	104	15,443	7	31,750				
Indianapolis, Ind.	1928	2	84,000	18	1,608,500	25	1,660,972	24	182,620	2,755	712,179	100	116,675	3	665,000	5	116,600
	1929			5	192,000	22	719,700	19	635,087	1,468	660,831	80	249,490	1	145,000	7	1,255,550
Irvington, N. J.	1928			1	5,000	11	313,500	10	308,500	493	343,923	12	34,300				
	1929			1	87,000	2	28,000	1	75,000	289	156,855	5	17,400			4	206,000
Jackson, Mich.	1928	1	35,000	2	76,300	4	3,100			361	97,494						
	1929	1	200,000			3	120,000	1	8,000	409	104,958	2	16,500	2	315,000	1	700,000
Jacksonville, Fla.	1928	1	14,000	9	361,500	14	124,700	9	59,500	320	64,885	30	96,450			2	98,000
	1929	6	111,921	4	14,000	4	84,500	6	19,150	236	37,353	20	174,650			1	100,000
Jamestown, N. Y.	1928			3	107,000	2	85,200			233	83,590	2	8,300				
	1929			1	5,000	4	311,200			247	78,570	4	54,900	1	34,000	1	75,000
Jersey City, N. J.	1928	1	1,000,000	2	105,000	17	513,500	29	288,880	294	276,799	9	61,300	2	740,000	12	663,700
	1929			9	933,800	17	267,800	6	710,000	349	315,936	11	10,115	2	150,000	9	180,900
Johnstown, Pa.	1928	1	375	1	6,000	11	27,975			137	75,159	3	20,000	1	175,000	3	37,000
	1929	1	22,500			6	29,750			133	79,119	5	14,500				
Joliet, Ill.	1928			3	46,000	8	256,800	13	50,000	10	6,678	5	14,000	2	52,500	1	40,000
	1929	3	18,900	1	10,000	3	427,000	3	136,200	37	22,860			1	50,000		
Joplin, Mo.	1928					6	75,750			37	35,493			5	8,750		
	1929	3	17,000	2	25,500	2	6,000	3	47,000	91	35,493			7	20,200		
Kalamazoo, Mich.	1928			2	304,000	16	208,998	2	84,219	232	30,828	7	14,400			2	40,250
	1929			6	189,000	7	25,200			214	35,467	10	47,300	1	19,000	1	645,136

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Kansas City, Kans.	1928	2	\$65,000	4	\$15,200	9	\$471,000	1	\$7,500	272	\$33,277	4	\$3,700			2	\$77,500
	1929			2	2,800	20	457,800	1	3,500	204	22,171	3	10,800			1	100,000
Kansas City, Mo.	1928	4	990,000	6	154,000	16	1,347,500	17	512,500	402	138,975	37	182,200	6	\$785,000	5	1,552,000
	1929	1	3,000	6	162,500	9	239,000	6	264,000	355	145,000	36	279,700	1	40,000	5	2,125,000
Kearny, N. J.	1928			1	15,000	7	2,682,850	4	103,500	242	82,710	3	2,500	1	100,000	3	105,000
	1929	1	18,000	1	4,000	19	2,564,645			209	73,839	6	12,500				
Kenosha, Wis.	1928			2	254,375			1	12,000	313	97,476	3	12,500				
	1929			2	125,000	3	113,000	1	3,500	359	88,822	3	14,500				
Kingston, N. Y.	1928	1	500	1	2,000	2	18,500	8	57,328	164	56,065	5	13,000			2	145,000
	1929							2	2,000	109	38,290	7	24,550				
Knoxville, Tenn.	1928	5	42,240	8	210,600	10	79,000	19	298,560	92	14,538	27	75,425			11	572,400
	1929	1	4,920	11	199,500	15	323,547	19	619,800	128	27,090	25	17,497	1	208,800	4	728,948
Kokomo, Ind.	1928							2	10,000	283	34,221	9	28,000				
	1929			1	40,000	2	145,000	1	500	278	55,811	17	36,230			1	250,000
Lakewood, Ohio.	1928	1	35,000	3	355,000	1	75,000	1	15,000	323	93,976	11	21,900				
	1929	4	20,500	1	130,000			1	3,500	313	70,700	12	58,500				
Lancaster, Pa.	1928							9	35,700	130	97,875					1	500,000
	1929							2	8,000	120	76,528						
Lansing, Mich.	1928			4	72,000	10	1,415,400	409	92,875	9	136,700	1	73,000	2	75,000		
	1929					18	3,044,045	3	42,028	225	91,361	2	3,100	4	1,003,000		
Lawrence, Mass.	1928							16	26,150	85	37,825						
	1929							15	15,675	66	29,165	3	3,700	1	90,000		
Lebanon, Pa.	1928	2	75,750	2	42,600	2	12,150	15	15,675	48	14,000	4	15,500			1	90,000
	1929							2	16,500	48	30,000						
Lewiston, Me.	1928	1	125,000			2	75,000	1	5,000	17	41,000			1	225,000		
	1929	1	65,000	1	200,000	1	90,000	1	7,000	17	6,300						
Lexington, Ky.	1928					4	178,000	1	7,000	132	19,135	9	94,550				
	1929	1	20,000	1	42,000			5	29,850	104	81,340	4	15,000	3	41,100		
Lima, Ohio.	1928	1	12,000	1	10,000	1	500	2	70,000	144	15,267	4	13,200				
	1929					2	21,200	1	10,000	106	24,475	9	31,650				
Lincoln, Nebr.	1928			1	12,500	4	43,800	20	198,094	479	97,907	9	21,800	2	224,000		
	1929	7	27,500	2	2,800	4	27,300	9	112,650	461	92,318	7	17,075	1	95,000	8	49,838
Little Rock, Ark.	1928	1	500							168	27,711	2	7,300			2	650,000
	1929			5	45,000					175	22,886						
Long Beach, Calif.	1928	9	156,500	3	13,000	142	2,071,215	39	273,450	1,418	521,565	29	36,780	2	50,000		
	1929	15	112,300	5	87,000	72	683,705	21	108,300	1,345	498,035	34	65,090	2	215,000	2	1,160,000

Lorain, Ohio	1928	1	450			1	400			224	39,944	6	22,000						
	1929									211	34,411	2	8,700						
Los Angeles, Calif.	1928	39	577,493	43	1,009,944	284	2,919,254	97	569,330	8,378	2,522,701	472	410,281	19	1,086,782	66	4,203,490		
	1929	48	3,617,410	35	698,564	386	4,401,269	81	503,328	7,265	2,091,326	281	265,651	15	1,942,800	60	5,557,023		
Louisville, Ky.	1928			12	948,500	21	1,191,000	13	158,510	679	205,355	6	25,300			2	900,000		
	1929	1	6,000	3	115,000	10	876,000	7	78,850	644	221,715	8	35,300						
Lowell, Mass.	1928	1	135,000			1	1,500			139	31,935	7	12,225						
	1929			2	34,500			1	2,000	169	46,310	7	15,125						
Lynchburg, Va.	1928	2	8,000	12	48,500			1	6,600	93	15,624	8	25,625						
	1929	1	12,000	3	35,500	4	47,550	1	1,500	78	9,175	5	39,000	2	22,924				
Lynn, Mass.	1928	4	800	2	2,200	9	302,800	12	35,900	360	117,931	5	6,240	1	150,000	1	16,000		
	1929	1	325,000			6	86,375	8	146,100	342	102,173	5	23,225						
McKeesport Pa.	1928	1	377,850	2	48,000	1	15,000			157	54,956	5	22,500						
	1929			1	3,000			1	2,500	174	69,735	2	14,000						
Macon, Ga.	1928	1	5,000	3	33,926	4	48,200			80	9,970	7	31,100			2	115,300		
	1929			3	24,000	5	49,000			35	4,320	7	42,500			1	36,000		
Madison, Wis.	1928			2	357,123	15	182,950	3	62,500	437	104,800	16	93,300			1	200,000		
	1929	1	150,000	1	53,000	9	50,150	7	207,000	320	74,432	11	62,800			1	550,000		
Malden, Mass.	1928					3	70,000	4	40,500	181	81,617	6	37,900						
	1929			1	45,069	4	61,800	1	25,000	143	74,793	8	30,000	1	70,000				
Manchester, N. H.	1928					3	7,400	7	80,500	196	63,705	10	30,300						
	1929	1	200,000			2	7,025	5	121,850	209	57,409	14	32,750						
Mansfield, Ohio	1928					4	88,000	1	8,000	207	39,462	5	17,650			4	740,000		
	1929					1		1	25,000	214	45,478	11	62,950						
Marion, Ind.	1928	3	443,000	2	55,000	24	75,000	4	67,000	112	20,160	14	30,000						
	1929			1	12,000	1	12,000	1	8,500	65	11,460	4	27,500						
Marion, Ohio	1928	1	400,000	3	58,000	3	14,300			316	36,830	3	22,000						
	1929			1	5,500	1	10,000	2	48,000	208	24,295	3	21,000	1	10,600				
Medford, Mass.	1928			1	128,000	3	17,500	13	16,200	346	169,612	2	22,500			3	101,500		
	1929	2	26,700			5	29,200	3	4,500	348	174,535	4	13,800			3	52,900		
Memphis, Tenn.	1928	3	788,600	2	14,300	5	96,200	5	119,600	934	284,384	23	80,860	2	143,000	3	2,605,100		
	1929	4	84,500			10	608,400	1	18,200	760	182,812	3	27,300						
Meriden, Conn.	1928									135	66,510	1	2,000			4	138,666		
	1929					3	270,975			165	63,035	2	4,500						
Miami, Fla.	1928	14	70,525	7	40,900	4	4,500	12	101,750	189	39,698	18	39,550			3	41,701		
	1929	37	392,980	8	39,500	11	75,850	2	8,350	195	62,498	28	230,400	4	22,500				
Milwaukee, Wis.	1928	1	300,000	4	222,948	41	1,359,371	21	786,900	2,711	1,037,086	23	52,210	2	879,738	24	1,503,250		
	1929	2	29,100	3	450,000	38	2,287,750	30	796,400	2,831	1,017,597	21	50,000	2	370,000	21	3,223,375		
Minneapolis, Minn.	1928	1	600	12	335,700	21	315,725	45	233,825	2,367	577,630	53	138,925	3	693,210	19	5,654,150		
	1929	1	10,000	7	126,960	29	705,570	19	117,665	2,067	549,540	55	207,250	2	771,000	21	5,090,625		
Mobile, Ala.	1928			6	68,752	2	125,500	5	71,600	514	102,530	3	15,472			3	628,000		
	1929									10	4,965	2	4,987						
Moline, Ill.	1928	2	383,131	1	51,800	10	318,538	3	45,460	160	42,612	4	14,975			1	3,500		
	1929	1	24,974	1	2,000	1	15,000	2	36,600	188	57,633	2	21,600			3	288,000		
Montclair, N. J.	1928									316	230,411	3	31,000	1	100,000	1	500		
	1929	2	15,000							223	142,029								
Montgomery, Ala.	1928	4	150,000	2	100,000	2	175,000			400	40,000	5	10,000						
	1929	5	131,300			2	60,000	1	30,000	21	2,845	4	24,350	3	50,000	2	30,000		
Mount Vernon, N. Y.	1928	1	97,000	1	7,000		20,000	23	1,310,000	224	134,831	11	47,800			5	327,176		
	1929	1	140,000			15	419,100	6	244,600	102	56,980	7	19,000			3	379,500		
Muncie, Ind.	1928	6	236,325	2	33,175	11	160,468	3	112,905	520	94,783	3	5,490	2	296,750				
	1929	9	58,220	4	359,093	8	120,807	6	17,431	443	65,197	3	12,911	2	13,250				

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Muskegon, Mich.	1928			2	\$275,000	3	\$21,200			253	\$53,847	9	\$63,150				
	1929	1	\$305,000	1	24,000	10	287,900			318	145,830	5	8,200			17	\$259,250
Muskogee, Okla.	1928			1	15,000	4	15,900			80	13,795	8	20,500	1	\$67,500		
	1929			1	10,000	2	19,000			40	7,970	7	38,000			1	5,000
Nashville, Tenn.	1928	3	38,500	7	418,000	10	833,500	13	\$193,700	130	13,210	17	44,800				
	1929	1	3,000	10	211,800	21	219,950	16	474,050	122	13,640	9	74,500	1	90,000	1	8,000
Newark, N. J.	1928	8	3,621,000	2	30,000	41	1,348,762	12	508,542	942	1,136,609	26	130,600	2	240,000	27	1,826,644
	1929	6	463,000	3	108,000	70	1,427,820	18	1,437,900	793	767,125	37	487,400	4	443,000	32	10,145,885
Newark, Ohio.	1928	1	200,000					2	10,800	167	32,416	4	6,000				
	1929			1	84,000	7	108,750			105	17,870	7	17,925				
New Bedford, Mass.	1928					9	114,750	5	16,500	114	66,665	10	31,400				
	1929			1	40,000	6	43,500	4	15,500	120	74,085	5	23,300	1	100,000	1	35,000
New Britain, Conn.	1928	1	50,000	2	91,000	12	500,900			220	113,290	1	1,025				
	1929	3	40,000							155	68,073	3	18,000				
New Brunswick, N. J.	1928	1	18,000	2	183,000	3	138,000	2	38,175	106	23,575	3	14,500			2	61,695
	1929	1	5,000	2	16,000	6	29,500			72	27,185	4	27,000				
Newburgh, N. Y.	1928	1	148,000			3	155,000	11	33,425	100	51,350						
	1929	1	60,000			1	36,000	16	47,520	79	40,500			1	60,000		
New Castle, Pa.	1928			3	141,000	2	40,000	5	130,000	244	69,920	1	4,000				
	1929	1	600	1	130,000	5	103,600	2	103,000	211	47,780	3	20,300				
New Haven, Conn.	1928	3	205,000			18	1,087,362	9	138,000	331	466,000	20	80,500	1	90,000	3	364,166
	1929	2	40,000			12	136,750	6	138,430	337	223,500	9	41,900	4	2,430,000	1	7,000
New London, Conn.	1928	2	8,300			2	35,000	10	96,500	179	105,165	2	9,000	1	40,000		
	1929	1	600	1	9,000			1	4,000	120	61,775	6	52,500	2	109,400		
New Orleans, La.	1928	3	268,094	7	504,343	7	44,235	19	37,500	110	35,961	23	65,550	2	202,855	3	1,419,037
	1929	2	43,650	8	549,500	4	283,779	41	210,520	79	35,710	51	248,881	1	30,000	4	213,000
Newport, Ky.	1928					2	14,400	1	2,750	41	25,760	1	900				
	1929			1	5,000	3	6,500	19	6,500	19	9,475	2	11,100			1	5,200
Newport, R. I.	1928	3	3,800	1	74,000	1	15,000	10	51,100	116	49,370	1	800				
	1929	3	110,500	2	110,000			12	41,600	152	65,930	3	7,000	1	50,000	2	233,000
Newport News, Va.	1928									79	7,296						
	1929			1	16,150					98	11,077						
New Rochelle, N. Y.	1928			2	545,000	2	1,900	9	82,500	231	224,352	3	11,600	1	40,000	2	200,700
	1929	3	117,000			1	7,000	8	231,300	159	149,326	3	110,500	1	350,000	3	445,000
Newton, Mass.	1928	3	38,000			3	29,000	2	32,000	436	279,305	2	5,500	1	25,000	1	100,000
	1929	1	25,000			2	10,200	1	9,000	373	228,237	7	64,600				



TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Petersburg, Va.	1928	1	\$300	2	\$131,000	1	\$10,000	2	\$13,200	56	\$10,017	4	\$48,000				
	1929					5	35,648	2	8,000	39	5,300	2	11,000			4	\$159,125
Philadelphia, Pa.	1928	18	5,032,500	26	1,681,700	162	6,626,870	100	2,250,560	1,800	964,530			15	\$5,742,600	48	7,622,365
	1929	10	5,255,660	12	976,100	122	5,136,055			1,225	2,635,175			4	2,625,000	50	14,147,850
Phoenix, Ariz.	1928	3	101,100	9	164,500	1	60,000	11	90,846	73	35,151	10	20,695			97	749,803
	1929	2	27,800	1	170,000	2	10,000	7	117,400	69	37,200	2	24,600			1	238,000
Pittsburgh, Pa.	1928	8	753,460	13	1,149,500	23	1,224,740	209	721,971	1,467	1,180,019	28	147,600	3	4,072,100	12	7,064,050
	1929	5	1,115,000	7	333,000	30	385,700	19	238,750	1,516	813,902	29	467,700	7	4,333,000	8	568,600
Pittsfield, Mass.	1928	5	222,850			12	169,150	5	16,700	151	79,590			5	14,500		
	1929	7	21,500	1	85,000	3	37,200	3	19,500	246	107,750	10	34,900				
Plainfield, N. J.	1928	3	158,150			3	30,000	1	100,000	383	189,372	3	5,100			3	312,500
	1929	1	800	1	15,000	1	50,000	2	80,000	209	71,835	3	25,000				
Pontiac, Mich.	1928			2	15,000	24	1,820,100	5	520,500	787	220,046	15	47,800			17	1,166,480
	1929	1	3,000	7	428,807	9	80,500	18	50,250	655	190,598	2	788,000	6	14,350	1	155,000
Port Arthur, Tex.	1928			3	16,200	1	5,500			139	84,983						
	1929			5	18,400	4	6,100	1	2,000	142	56,740			2	448,200		
Port Huron, Mich.	1928			2	5,500	4	6,100			30	7,030	3	11,720			1	200,000
	1929			2	5,000	2	6,500			11	1,985	4	12,100			3	124,800
Portland, Me.	1928	1	6,250			4	46,330	7	184,000	253	85,092	4	12,500	1	40,000	2	5,600
	1929	1	1,200	2	233,300	1	5,000	5	47,185	194	60,448	8	17,275			3	102,700
Portland, Oreg.	1928	6	866,000	7	335,000	32	456,100	60	1,623,855	2,365	399,020	30	82,500	2	1,410,000	9	1,168,500
	1929	4	150,000	7	96,000	28	497,500	18	396,150	1,680	262,910	16	53,220	2	19,000	2	43,000
Portsmouth, Ohio.	1928	1	1,600	2	27,000	2	228,000	1	4,000	81	12,475	5	16,350				
	1929	1	75,000			2	9,000	4	23,500	95	16,062	4	12,850			1	25,000
Portsmouth, Va.	1928			2	56,000					80	9,190	9	14,875			1	200,000
	1929			1	1,000	2	16,000	2	12,400	79	7,715	1	8,000				
Poughkeepsie, N. Y.	1928					1	800	2	33,500	108	43,010	3	40,000				
	1929			1	40,000	3	194,000	2	34,000	64	25,875	5	20,700				
Providence, R. I.	1928	1	156,000			23	664,150	14	364,800	905	597,960	35	54,000	1	50,000	27	500,700
	1929			1	90,000	26	1,357,100	16	226,600	839	552,200	22	43,000	2	400,000	11	493,100
Pueblo, Colo.	1928	1	6,000	1	12,000	5	10,550			317	119,489	6	24,000	2	21,500		
	1929	1	20,000	2	40,000	4	11,200			202	40,321	17	74,500			1	66,000
Quincy, Ill.	1928					1	650	1	4,500	131	25,236			3	340,000		
	1929			2	55,000	3	25,000	2	35,000	138	26,955	2	10,000				
Quincy, Mass.	1928	1	6,000			1	100,000	1	20,000	726	240,321	6	45,500			4	850,000
	1929					8	28,200	1	6,000	633	195,985	11	46,500	1	188,000	4	140,750



TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Sheboygan, Wis.	1928	2	\$117,000			3	\$22,500	2	\$25,600	243	\$69,675	4	\$24,075			2	\$44,000
	1929			3	\$120,000	2	22,400			213	53,585	4	25,760				
Shreveport, La.	1928	4	490,955	1	23,500	5	94,707	6	164,557	247	45,493	15	15,160				
	1929							1	1,000	198	31,177						
Sioux City, Iowa	1928	1	30,000	3	50,000	11	476,850	5	69,500	345	45,785	10	18,100			1	10,000
	1929			1	10,000	9	64,500	2	105,000	347	51,188	9	20,700			1	1,000,000
Sioux Falls, S. Dak.	1928					4	4,375			27	39,155	10	55,440	1	\$375,000		
	1929			2	20,000	5	138,100	3	14,500	126	38,600	4	11,500			1	112,500
Somerville, Mass.	1928	1	5,000					1	30,000	79	57,730						
	1929	1	3,500			9	624,400	1	85,000	144	107,066	10	44,200				
South Bend, Ind.	1928	1	25,000	3	95,000	15	903,800	9	119,700	1,203	271,735	17	50,050			6	458,200
	1929			1	100,000	23	1,502,500	897	271,710	172	71,100					3	620,000
Spokane, Wash.	1928	3	44,550	1	337,000	10	56,700	17	341,300	644	84,386	10	32,200	3	1,092,000		
	1929	3	51,900	1	2,000	14	48,400	10	99,700	622	67,403	17	32,000	1	25,000	2	9,500
Springfield, Ill.	1928	1	60,000	1	6,000	3	18,000	7	47,400	356	75,600	6	23,300	2	275,000		
	1929			1	350,000	1	5,000	3	172,000	309	67,428	4	14,200			1	190,000
Springfield, Mass.	1928	5	237,000	1	60,000	4	208,000	4	250,000	629	235,670	16	34,814	1	110,000	3	175,000
	1929			2	57,000	3	34,600	3	36,000	540	187,543	12	53,410			6	648,700
Springfield, Mo.	1928			1	9,000	9	142,750	3	34,500	78	15,110	27	67,000			1	300,000
	1929	2	1,450	4	21,300					61	12,440	26	117,250				
Springfield, Ohio.	1928	1	1,500	1	37,000	3	139,000	2	37,000	394	71,327	5	23,000				
	1929	1	114,000	1	4,000	8	500,275			356	72,400	6	26,125			2	27,200
Stamford, Conn.	1928	3	385,000			1	9,000	10	132,200	252	144,835	8	10,200			9	614,900
	1929	4	90,200	2	60,000	7	196,725	8	103,000	306	182,198	10	21,200			6	761,000
Steubenville, Ohio.	1928	1	40,000					1	30,000	122	29,195	2	17,000			6	218,000
	1929			1	40,000					91	21,125	1	2,500				
Stockton, Calif.	1928	1	30,000	2	32,275	11	108,488	3	23,000	266	36,186	22	31,500			4	31,000
	1929	2	240,500	2	78,000	8	41,900	3	16,250	185	22,140	15	44,275				
Superior, Wis.	1928	2	55	1	6,000	2	47,250	7	40,550	137	20,565	5	12,250	2	200,000		
	1929			1	165,000			4	72,000	113	20,133	6	11,920				
Syracuse, N. Y.	1928	6	278,000	1	85,000	8	344,760	19	211,000	1,245	465,670	21	64,100			8	1,177,300
	1929	1	250,000	3	230,000	8	83,500	33	746,500	1,007	363,985	6	25,800	2	258,000	6	145,100
Tacoma, Wash.	1928	1	60,000	4	41,000	12	422,000	13	156,300	228	30,800	16	44,000			8	20,000
	1929	1	500	4	46,000	24	352,000	18	223,700	382	48,835	18	48,500	1	100,000		
Tampa, Fla.	1928	6	292,600	5	49,900	12	427,960	2	3,100	348	46,920	6	27,100	1	9,880		
	1929	8	90,694	2	6,000	5	69,200	1	2,000	199	26,035	12	89,074			1	180,000



Taunton, Mass.	1928	2	162,000		4	3,400		127	41,572	1	1,200								
	1929	3	1,450		3	3,150		118	43,045	7	21,900								
Terre Haute, Ind.	1928			1	10,000	1	7,500	7	23,850	370	8,500						1	10,000	
	1929			1	50,000			2	9,800	319	54,374	0							
Toledo, Ohio	1928	5	1,432,064	3	88,500	23	1,082,500	19	463,250	2,378	565,239	14	78,500	2	1,328,000				
	1929	3	124,000	4	81,500	45	910,148	8	45,800	1,902	442,323	61	143,950						
Topeka, Kans.	1928	1	12,000	3	13,300			3	12,200	467	86,623	9	23,100				14	72,065	
	1929			3	84,000			1	7,000	366	78,299	11	39,700	1	281,393				
Trenton, N. J.	1928	1	447,500	1	28,400	23	341,400	3	9,650	338	134,900	10	70,150	1	280,000				
	1929			2	248,000	30	457,140	10	27,823	302	118,260	9	47,100	1	249,173	2	1,008,400		
Troy, N. Y.	1928			2	4,000	1	1,500	1	50,000	133	69,875	5	14,650				3	9,300	
	1929	1	5,000	1	63,000	1	16,800	2	6,100	114	56,734	9	45,700	1	14,550				
Tucson, Ariz.	1928	1	4,000	1	4,700	6	23,850	2	48,700	138	42,164	2	1,250	4	76,000	6	680,381		
	1929	4	297,000	1	94,000	9	46,150	6	49,500	261	71,656	13	13,976			7	108,100		
Tulsa, Okla.	1928	2	366,000	9	72,350	18	129,700	25	419,650	1,458	502,998	32	224,600	1	83,000	1	375,000		
	1929			8	24,700	28	260,450	11	92,300	1,155	419,974	5	18,000	1	32,500	4	614,000		
Union City, N. J.	1928				6	36,950	3	66,200	81	45,485						7	199,500		
	1929			1	2,000	4	31,000	2	40,000	33	55,585	2	1,430						
Utica, N. Y.	1928	1	36,000	4	169,200	3	6,700	11	185,500	198	70,715	20	46,350	1	53,000	1	6,000		
	1929			4	205,500	8	281,500	4	60,600	155	60,275	12	88,600						
Vallejo, Calif.	1928							8	49,970	88	19,337								
	1929			1	20,000			68	13,721	68	13,721								
Waco, Tex.	1928	4	160,800	3	53,500	2	25,000	5	82,890	10	9,853	13	57,169	1	20,000	2	675,000		
	1929	1	407,700			2	26,667	5	40,466	16	5,562	6	55,041						
Waltham, Mass.	1928	1	35,000	1	30,000	1	35,000	1	14,500	207	111,500	8	28,500	3	254,000				
	1929	2	107,345			5	69,450			186	92,865	7	25,060	5	382,000	1	100,000		
Warren, Ohio	1928			2	8,200	26	78,710	1	7,500	94	16,200	9	41,200			1	59,000		
	1929			3	17,000	1	50,000	1	1,000	329	57,675	6	45,950	1	3,800	1	20,000		
Washington, D. C.	1928	6	1,294,296	11	1,236,350	11	203,500	20	981,740	1,554	460,460	22	189,500	10	1,078,990	16	6,560,700		
	1929	5	107,656	9	530,500	7	677,800	11	216,280	1,521	437,260	43	281,200	7	378,457	7	523,500		
Waterbury, Conn.	1928	1	250,000	1	13,000	1	9,000			296	310,300	10	19,300	1	20,000	4	127,000		
	1929			3	163,000	15	298,450			241	165,700	11	44,250			3	221,000		
Waterloo, Iowa	1928	1	96,705	2	2,500	12	695,000	4	29,500	358	55,158	10	38,500						
	1929			1	20,000	3	498,075			418	79,355	8	30,600						
Watertown, Mass.	1928			1	65,000	6	89,000			220	112,525	2	3,050			1	75,000		
	1929					1	40,000			167	108,955	6	48,600			1	20,000		
Watertown, N. Y.	1928					1	250			191	38,665	2	5,600	1	1,500	1	3,000		
	1929			1	50,000		300	4	84,000	153	51,805	7	38,000						
West New York, N. J.	1928			1	45,000	2	263,250	4	90,250	39	51,875	2	15,500			1	65,000		
	1929					2	110,000	6	33,700	26	33,700	2	6,000			1	60,000		
Wheeling, W. Va.	1928	2	88,000			8	97,200	5	56,000	147	51,526	9	51,000						
	1929	1	3,000					5	44,800	137	52,481	11	67,500			1	40,000		
White Plains, N. Y.	1928	3	604,000	2	113,000	6	428,900	14	846,900	210	193,389	5	21,900			12	1,155,375		
	1929	5	58,000	2	170,000	2	5,500	9	436,850	146	115,000	6	55,200			4	932,000		
Wichita, Kans.	1928	5	178,800	2	2,900	8	188,600	13	168,500	355	59,655	15	40,650	1	110,000	2	645,000		
	1929			4	23,700	16	242,400	17	198,950	396	71,545	19	49,000	3	564,500	2	400,000		
Wichita Falls, Tex.	1928	1	1,000	5	130,200	7	34,150	3	6,850	18	4,667	6	28,260						
	1929			3	15,000	3	9,700			17	4,597	10	26,300	1	160,000	4			
Wilkes-Barre, Pa.	1928	4	184,737			25	226,477	54	107,709	162	52,548	9	11,600			2	1,453,469		
	1929			3	367,840	24	80,663	49	96,440	129	38,368	14	17,059			2	24,199		
Wilkesburg, Pa.	1928	2	37,000	2	256,000	4	47,800			111	74,861					2	351,000		
	1929							1	3,500	145	67,505					2	80,500		

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Amusement and recreation places		Churches		Factories, shops, etc.		Garages (public)		Garages (private)		Gasoline and service stations		Institutions		Office buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Williamsport, Pa.	1928	1	\$200,000	2	\$103,200	13	\$78,505	2	\$25,500	168	\$77,670	3	\$3,000			1	\$45,000
	1929			2	2,600	5	131,390	2	7,000	146	57,375	5	10,400			1	15,000
Wilmington, Del.	1928			1	91,000	4	15,400			794	291,600	7	39,200	2	\$178,631	3	87,200
	1929			2	195,000	8	42,100			641	194,743	12	122,840			3	1,869,000
Wilmington, N. O.	1928			3	125,000					45	13,500	6	30,500				
	1929									10	16,350	10	70,000	1	50,000	1	15,000
Winston-Salem, N. O.	1928	2	710,000	6	387,390	9	296,800	5	122,000	533	146,582	8	28,000	1	30,000	10	1,992,625
	1929	1	5,000	1	725,000	5	39,275	11	79,575	845	64,312	8	32,300	4	15,925	3	274,150
Woonsocket, R. I.	1928					3	31,800			96	33,701	6	27,715				
	1929			1	2,000	2	24,000			92	31,512	8	22,750			1	450,000
Worcester, Mass.	1928	10	46,200	2	250,000	27	218,025	79	205,075	398	185,484	13	33,900			2	56,200
	1929	5	319,500	2	120,000	28	630,825	65	215,423	864	165,099	35	93,600			2	105,400
Yonkers, N. Y.	1928			3	268,000	5	276,500			513	307,389	13	188,100			5	477,900
	1929	3	64,000	2	27,000	2	20,200	21	386,400	375	232,843	38	185,240	2	295,000	5	2,068,000
York, Pa.	1928			2	214,000	3	60,000			222	83,332	1	2,500			3	350,000
	1929			1	3,000	3	113,500	2	11,600	217	149,416	4	30,000			3	65,000
Youngstown, Ohio.	1928	6	183,000	2	79,500	14	191,950	7	79,200	947	136,810	15	41,350	2	1,400,000	9	521,300
	1929	2	43,700	6	124,300	3	351,000	7	53,900	832	155,772	9	82,900	1	20,000	6	88,850
Zanesville, Ohio.	1928					3	11,150			91	15,068	5	28,800			1	30,000
	1929					5	6,450	1	700	76	9,622	4	6,000				
<b>Total:</b>																	
309 cities.....	1928	948	84,684,800	1,009	49,059,444	3,965	152,617,634	3,839	70,690,699	3156,306	855,120,904	4,511	14,888,382	304	65,080,263	1,353	256,101,159
311 cities.....	1929	748	43,215,396	855	40,381,577	3,927	141,620,127	4,071	49,198,147	135,637	48,637,185	4,207	19,928,471	274	75,702,762	1,136	240,950,145

City and State	Year	Public buildings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, warehouses, etc.		All other		Total new nonresidential buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Akron, Ohio.....	1928	1	\$61,000	2	\$39,400	2	\$469,000	34	\$13,660			116	\$1,829,558	6	\$209,850	2,406	\$5,368,352
	1929			5	500,270	4	905,000	42	8,778			194	5,027,998	13	106,950	2,715	10,684,269
Alameda, Calif.....	1928	2	122,655	8	117,805	3	36,900	65	31,724			8	77,520			293	525,500
	1929							10	2,587	2	\$2,388	6	55,077	3	183	195	160,885
Albany, N. Y.....	1928			1	25,000	1	500,000	2	8,750			20	664,050			404	4,568,515
	1929			1	10,000	2	110,000					10	428,800			249	3,536,578
Allentown, Pa.....	1928					2	187,000	12	24,400	1	1,000	36	238,400			596	2,089,715
	1929	1	16,400	1	25,000	1	207,700	4	8,500	1	200	9	31,000	18	79,300	572	1,782,065
Alton, Ill.....	1928							2	290			19	113,984			114	248,391
	1929			1	10,000	2	82,000					6	40,276	1	71,000	52	241,192
Altoona, Pa.....	1928					2	663,944					17	146,839			293	1,941,125
	1929					1	37,000	219	26,620			8	83,130	155	372,092	766	756,203
Amsterdam, N. Y.....	1928									2	3,000	4	77,700			131	435,075
	1929											2	28,000			103	546,850
Anderson, Ind.....	1928					1	25,000	3	200			17	206,550			171	1,287,464
	1929	1	30,000					5	1,350			9	40,625			129	314,684
Asheville, N. C.....	1928			2	81,500			14	937	1	50	30	392,425			249	1,083,062
	1929	3	610,600					27	10,285			25	430,100			193	1,452,266
Ashtabula, Ohio.....	1928	1	3,100	1	1,400			4	695	1	150	9	19,725	1	800	159	244,843
	1929							7	1,205			7	92,900	2	18,000	140	493,009
Atlanta, Ga.....	1928	3	863,700	1	1,700,000	15	1,961,029	187	30,833			190	1,329,724			767	15,151,442
	1929			4	692,000	1	7,000	151	22,911			120	2,213,422			646	4,758,198
Atlantic City, N. J.....	1928	1	161,000	1	44,500	1	82,500	6	8,600			16	99,980	6	131,850	116	1,240,795
	1929							8	2,710			38	238,900	3	8,175	117	625,164
Auburn, N. Y.....	1928			2	2,300					1	1,200	9	24,700	2	240	176	197,745
	1929	1	340,000	1	11,700	1	72,500	9	5,495			1	70,000	6	3,245	198	872,984
Augusta, Ga.....	1928					2	67,447	28	2,056	5	610	15	49,040			121	203,662
	1929							43	3,885	5	210	30	147,651	1	75	187	226,845
Aurora, Ill.....	1928					4	662,457	1	250			14	233,950	3	4,150	230	1,089,151
	1929							11	5,750			7	280,000			217	853,264
Austin, Tex.....	1929	2	35,000	3	600,000	13	1,000,000	8	1,000	5	800	40	123,851			458	2,670,651
Baltimore, Md.....	1928	1	12,000	3	87,000	23	1,567,000					78	1,212,000	1	6,000	2,399	11,037,200
	1929	1	325,000	7	1,117,000	8	1,255,000					72	2,235,000			2,168	11,651,900
Bangor, Me.....	1928			1	800			10	4,525			5	8,400			97	332,710
	1929			2	151,000			3	575	1	500	4	64,500	1	1,500	89	318,575
Baton Rouge, La.....	1929					1	25,300	20	7,255			5	82,059	11	971	154	218,488
Battle Creek, Mich.....	1928					2	4,400	18	6,800			28	195,850	2	6,500	328	1,933,755
	1929					5	453,500	20	4,875					27	184,200	321	2,006,025

<sup>1</sup> See notes to details.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Public buildings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, warehouses, etc.		All other		Total new nonresidential buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Bay City, Mich.	1928					1	\$106,000	22	\$6,220							222	\$1,261,001
	1929							30	4,145							289	361,426
Bayonne, N. J.	1928			12	\$287,770							12	172,000			120	838,800
	1929			3	38,000							64	224,350			133	753,945
Beaumont, Tex.	1928					2	\$659,453					80	504,714			239	1,302,436
	1929			2	10,500	2	2,800	1	100			36	252,057			203	562,780
Belleville, Ill.	1928					2	219,000					2	20,000			115	348,881
	1929					2	158,000					9	131,000			131	374,887
Bellingham, Wash.	1928	1	\$12,000					12	650							272	384,105
	1929			1	150,000			15	3,355					215	\$16,400	336	354,575
Berkeley, Calif.	1928	1	5,280			3	60,123					35	191,559	16	4,100	540	717,399
	1929			1	3,000	18	1,779,000	20	9,600			22	180,890	10	3,625	391	2,249,514
Bethlehem, Pa.	1928	1	14,500					2	900	2	\$23,200			4	81,250	35	85,735
	1929					1	22,000					5	85,900	3	3,900	267	915,277
Binghamton, N. Y.	1928			1	65,000	1	50,000					19	164,000	136	9,726	537	1,497,896
	1929	1	28,000	1	350	1	730,749	12	208			8	39,070	79	11,389	432	2,211,297
Birmingham, Ala.	1928	2	12,000	4	5,150	14	920,186	48	7,950	2	100	181	2,039,435	6	38,350	863	5,665,329
	1929	1	2,233,000	5	165,332	5	586,233	54	13,695	2	100	79	682,582	2	29,000	501	5,362,830
Bloomfield, N. J.	1928			1	16,500			21	3,000	1	2,000					6	562,100
	1929			1	60,000			1	562			11	54,000			378	832,487
Bloomington, Ill.	1928					1	116,000					13	129,000			51	718,300
	1929							2	6,000			7	41,800			50	209,300
Boston, Mass.	1928			6	1,529,000	1	181,700	212	233,369	1	2,500	142	5,664,050	2	60,000	1,630	21,013,832
	1929	4	518,000	7	991,000	9	2,047,300	203	473,446			99	3,424,595	14	164,430	1,484	24,032,413
Bridgeport, Conn.	1928			1	200,000	1	120,000					8	7,300			14	364,800
	1929							1	120,000			10	50,450			10	50,450
Brockton, Mass.	1928	1	14,000					66	26,325			9	131,450			9	325
	1929	1	161,000	1	13,000			64	15,845			9	131,450			9	325
Brookline, Mass.	1928	1	125,000	1	4,000			64	9,795			9	291,855	13	2,700	317	673,753
	1929					3	144,000	3	1,325			10	247,000	1	9,775	151	673,245
Buffalo, N. Y.	1928							2	1,200			5	101,000			105	589,510
	1929	3	2,715,193	3	22,100	8	1,455,000	39	43,900			139	2,815,875			2,758	12,468,309
Burlington, Iowa.	1928	37	9,469,063					11	6,080			2	4,362,175			2,294	16,511,595
	1929	2	109,047					1	50			2	6,600			108	224,771
Butler, Pa.	1928			1	1,662			2	2,350			1	200	10	2,390	151	195,905
	1929	6	87,500	1	400			3	13,400			2	8,000			45	44,440
	1929															60	249,775

Butte, Mont.	1928		1	75,000			2	600			1	900			74	203,550	
	1929						13	1,359			29	104,934			141	237,677	
Cambridge, Mass.	1928		1	36,000	2	29,700	7	6,790	1	1,600	39	1,405,518			289	3,564,813	
	1929		1	25,000	2	978,000	3	3,830			33	294,535			220	3,192,540	
Camden, N. J.	1928	2	435,040	6	115,000	1	180,000	2	2,500	1	3,000	16	1,728,750		373	5,597,140	
	1929	2	2,853,130	2	142,000	3	563,343					2	6,650	1	242,500	265	4,401,233
Canton, Ohio	1928				1	35,000	20	4,935	2	3,050	24	76,725	1	22,500	664	902,297	
	1929			3	24,000		21	3,037			26	214,750			651	963,492	
Cedar Rapids, Iowa	1928	1	500	1	4,000		58	9,268	3	675	22	136,900	1	1,800	474	1,167,691	
	1929			1	450,000	2	391,797			47	14,240	32	647,530		441	1,748,173	
Central Falls, R. I.	1928				1	100,000	3	1,700			2	4,300			39	138,345	
	1929				1	175,000	2	250	5	1,250	7	18,600			109	471,575	
Charleston, S. C.	1928						9	775			3	15,990			54	222,928	
	1929		3	2,540			10	1,540			23	97,825	13	2,417	87	182,977	
Charleston, W. Va.	1928				3	181,700	2	600			33	127,200			234	1,302,890	
	1929		3	95,653	3	130,997	2	300			27	400,485	1	200	241	922,196	
Charlotte, N. C.	1928	2	35,000		4	200,000	7	3,600			64	669,950			215	2,406,974	
	1929	1	203,000	3	176,311		11	2,805	1	500	50	260,855			178	1,146,781	
Chattanooga, Tenn.	1928			1	285		27	4,075			102	256,830			306	2,115,194	
	1929	3	33,744	3	100,085	1	45,000	50	9,167		46	219,170	1	250	311	635,892	
Chelsea, Mass.	1928						2	325			8	118,500	3	2,100	73	325,540	
	1929				4	7,300					8	151,000	1	150	58	520,065	
Chester, Pa.	1928						8	99,000			8	99,000			159	522,867	
	1929						9	88,150			9	88,150			144	348,610	
Chicago, Ill.	1928	13	2,584,000	18	2,797,800	46	15,796,100	194	88,295	3	16,700	666	17,141,400	1	50,000	6,640	123,535,408
	1929	8	539,500	11	2,364,500	18	12,073,500	153	56,900	1	12,000	719	37,685,175	3	61,000	5,556	112,504,075
Chicopee, Mass.	1928	2	215,000	1	4,000		34	7,640			6	5,350			194	724,965	
	1929						47	6,275			8	19,500			240	1,010,625	
Cicero, Ill.	1928						2	300			8	191,885	5	15,600	214	1,022,514	
	1929						4	2,330			5	44,650	2	14,800	217	1,225,897	
Cincinnati, Ohio	1928	1	90,000	1	62,000	9	1,532,000	87	37,685	2	11,000	26	365,280		1,800	7,936,755	
	1929	2	101,000	5	3,444,000	4	3,225,000	79	24,505			31	1,165,000	3	34,000	1,362	15,258,245
Clarksburg, W. Va.	1928			2	66,000	3	95,000	6	625	1	75	9	59,850	40	6,440	183	668,215
	1929						11	1,215			6	19,650	1	10,000	138	212,205	
Cleveland, Ohio	1928	4	60,000	4	5,470,000	8	3,028,900			2	15,300	185	6,657,800		4,137	28,894,450	
	1929	3	1,430,000	23	1,564,400	3	532,500			1	200	369	3,388,600		4,168	16,027,325	
Clifton, N. J.	1928						10	5,900	1	1,500	22	127,900	3	6,000	499	897,860	
	1929						5	3,550	2	1,100	10	101,750	1	250	481	668,970	
Colorado Springs, Colo.	1928				1	78,000	34	5,121			12	91,090			274	274,026	
	1929				1	2,000	31	5,592			3	3,050			239	409,927	
Columbia, S. C.	1928						27	4,845			15	74,100			132	239,695	
	1929				1	83,000	25	4,950			22	78,075	1	600	130	362,915	
Columbus, Ga.	1928				1	15,000					27	91,330			102	284,124	
	1929						5	275	1	12,500	26	46,515			114	175,559	
Columbus, Ohio	1928				1	500,000	78	63,950	1	400	64	752,900			2,577	3,256,490	
	1929	2	640,000	1	15,000	5	642,500	69	52,200			52	489,450		1,669	3,043,450	
Council Bluffs, Iowa	1928				1	6,000					19	347,500			440	400,050	
	1929	1	9,000	1	10,000	1	38,000			3	400	10	87,500		122	222,750	
Covington, Ky.	1928			1	35,000			2	750			15	76,000		158	315,200	
	1929	3	39,000			3	201,000	5	2,800			11	107,100		163	711,900	
Cranston, R. I.	1928	1	9,000				1	100	4	8,500	18	53,250	2	900	604	832,024	
	1929						2	450	2	750	17	161,000	6	23,750	497	419,818	

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

## PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Public buildings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, warehouses, etc.		All other		Total new nonresidential buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Cumberland, Md.	1928											3	\$17,800			115	\$640,411
	1929			1	\$500			5	\$935			5	7,350	1	\$125	140	68,810
Dallas, Tex.	1928	3	\$61,892			8	\$113,960	87	27,752			126	1,627,948			550	3,005,916
	1929	1	1,023,650	1	9,500			66	35,401	2	\$1,022	145	2,881,800	9	4,980	475	4,497,845
Danville, Ill.	1928									1	3,000	12	66,280			32	153,073
	1929						72,000					5	28,900	1	1,500	34	336,207
Davenport, Iowa	1928			1	4,100	1	6,000	28	12,320			13	220,080			280	424,712
	1929					4	483,300	5	3,365			22	324,050	2	405	326	1,200,052
Dayton, Ohio	1928							74	32,630			14	206,400			1,239	2,984,121
	1929							44	9,410	1	702	15	143,600	5	476	916	3,076,650
Decatur, Ill.	1928	6	358,200			1	50,000					118	1,213,000			616	6,630,210
	1929	3	58,480	2	190,600							60	1,058,350			463	2,519,515
Denver, Colo.	1928	3	33,650			12	651,000	620	92,450			132	4,372,350			1,400	6,400,700
	1929	3	4,267,000	2	65,000	7	391,400	465	82,250			72	783,500	363	400,700	1,547	8,424,250
Des Moines, Iowa	1928	1	523,000	2	1,065,000			25	4,418	1	100	48	204,825	24	59,850	659	2,478,845
	1929							40	10,877	3	145	23	431,550	40	82,020	583	1,011,626
Detroit, Mich.	1928	5	154,813			25	3,814,860					618	13,103,200	9	1,068,000	12,181	48,405,234
	1929	3	51,000	6	1,336,949	31	2,275,940	3	2,700			562	8,491,311	10	182,250	11,506	33,029,800
Dubuque, Iowa	1928			1	125,000	2	240,231						36,600			154	474,925
	1929			1		1	100,000	3	70			1	225,000			155	530,209
Duluth, Minn.	1928					2	27,500	45	6,125	1	100	11	68,000	4	839,950	402	1,308,218
	1929	1	1,200,000			3	272,500	65	29,325	6	5,005	11	489,700			430	2,194,901
Durham, N. C.	1928	2	10,990			4	7,421,198					25	166,300	2	10,000	77	8,089,953
	1929			2	37,062	3	199,181			1	13,000	8	283,600			25	799,343
East Chicago, Ind.	1928					2	406,000	4	1,400			11	56,090			159	2,175,649
	1929	3	176,100	1	16,000							11	73,727			314	4,270,804
East Cleveland, Ohio.	1928					11	1,350,000	6	1,375			1	14,000			136	1,492,961
	1929			5	26,093	2	1,014,642	2	1,065			6	119,200			91	1,215,976
Easton, Pa.	1928			1	8,000	1	96,210					3	19,850			89	223,914
	1929					2	710,000	2	515			3	5,230	1	14,000	94	1,587,973
East Orange, N. J.	1928	4	1,057,797			1	493,598	4	2,800	1	850	20	77,500	11	9,380	385	2,634,862
	1929	2	52,850			1	720,000	1	50	2	290	7	486,500	11	24,300	299	2,574,228
East Providence, R. I.	1928			2	750,000			13	4,800			7	56,800			320	1,494,092
	1929					2	185,000	1	1,000			27	308,200			318	1,500,786
East St. Louis, Ill.	1928			1	23,000			2	400			41	261,869	7	850	426	646,446
	1929					3	532,300	21	8,710			31	203,450	9	8,250	363	954,238

Elgin, Ill.	1928									3	182,000			321	957,505
1929										10	119,300			292	437,763
Elizabeth, N. J.	1928					2	678,000			1	2,500	2	600	11	489,000
1929	1	27,000	4	725,000										5	145,000
Elkhart, Ind.	1928					1	8,000			1	400			28	112,850
1929						1	8,500	2	125,000	1	130			4	4,700
Elmira, N. Y.	1928	1	9,000	1	8,000					34	1,437			13	208,850
1929	3	1,500	2	35,000	2	341,000				38	2,732	1	350	3	22,800
El Paso Tex.	1928					1	6,000			9	1,265			34	629,190
1929	3	26,431	3	25,269	8	69,983				19	2,807	1	4,000	36	458,544
Erie, Pa.	1928					2	1,026,500			43	18,715	1	50	5	45,400
1929						2	170,200			47	33,100			4	23,275
Evanston, Ill.	1928					7	1,785,000			8	20,750			19	493,500
1929						7				7	4,000			10	1,518,500
Evansville, Ind.	1928					2	987,000	8	379,541			70	16,920	11	39,500
1929	1	80,000	14	511,650	3	150,000				28	10,995	19	8,110	15	127,800
Everett, Mass.	1928									16	14,545			10	168,100
1929										6	2,100			2	11,455
Everett, Wash.	1928											1	1,000	5	367,450
1929	2	166,700	1	13,000						77	4,815			12	113,600
Fall River, Mass.	1928					1	680,084			25	7,905			19	74,550
1929										41	5,485			19	119,542
Fitchburg, Mass.	1928					1	5,000			32	11,130	1	3,000	2	1,200
1929										24	7,992			8	23,987
Flint, Mich.	1928	1	14,000	1	12,000	4	846,950	131	25,265	2	2,550			95	780,585
1929						3	840,960	89	16,016	1	65,000			64	615,970
Fond du Lac, Wis.	1928	1	100,000			1	100,000	15	7,620					8	30,175
1929						1	46,980	20	3,790					5	15,400
Fort Wayne, Ind.	1928	2	110,800	1	12,800	1	81,304	20	4,675	4	700			40	653,415
1929						2	100,834	2	36,500					22	254,560
Fort Worth, Tex.	1928					2	36,255	43	32,000	34	16,342			79	217,495
1929						2	1,000,747	2	36,255					104	642,319
Fresno, Calif.	1928					3	3,275	10	378,799	23	2,431			44	155,450
1929										37	4,868			36	236,863
Galveston, Tex.	1928					2	5,000			2	400			13	273,700
1929										44	3,867			13	1,535,570
Gary, Ind.	1928	3	622,960			2	12,500	16	15,850					21	118,750
1929						1	25,000	3	692,400	14	3,375			12	10,900
Grand Rapids, Mich.	1928					8	573,200	51	38,295	61	618,500			61	618,500
1929						2	74,700	4	501,400	47	41,795	9	925	35	783,100
Great Falls, Mont.	1928					1	816,135	14	3,350					14	601,272
1929	7	32,300				2	280,601	10	4,468					17	593,605
Green Bay, Wis.	1928					1	127,000							18	407,049
1929	1	43,085	2	31,915						15	633,100	4	2,360	15	633,100
Greensboro, N. O.	1928					6	660,000	27	17,510	48	551,521			23	376,374
1929						3	77,000	1	3,530					16	165,170
Greenville, S. O.	1928					5	65,850	1	1,055					7	101,400
1929						5	86,800	3	115,000					11	129,550
Greenwich, Conn.	1928					2	85,000	1	150			2	44,000	11	129,550
1929	1	15,000	1	44,000						1	140	5	60,450	12	84,616
Hagerstown, Md.	1928									20	4,710				
1929						1	65,000	16	2,901					2	10,300

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Public build-ings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, ware-houses, etc.		All other		Total new nonres-idential buildings	
		Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost
Hamilton, Ohio.....	1928					3	\$270,600	12	\$7,075			3	\$33,650			213	\$382,477
	1929							16	6,454			9	20,540			228	735,664
Hammond, Ind.....	1928	1	\$142,000			1	101,000			3	\$11,000	45	530,700	2	\$1,400	326	3,298,280
	1929					1	65,000		3	1,700		42	454,000			279	2,453,350
Hamtramck, Mich....	1928			1	\$6,800			11	1,040			10	127,850			205	652,730
	1929							1	300			21	376,100			264	546,700
Harrisburg, Pa.....	1928	2	3,020,000			1	35,000					13	72,250			297	3,499,135
	1929	1	3,512,000	1	16,500	1	155,500			1	850	16	562,645			275	5,669,130
Hartford, Conn.....	1928			5	23,315	3	1,585,000	42	22,320	2	13,000	35	1,168,292	30	32,492	581	4,700,917
	1929	1	52,744	7	750,516	2	595,000	41	23,445	3	48,025	24	1,570,310	4	135	359	10,739,997
Haverhill, Mass.....	1928							16	3,350	3	1,575	10	20,600	1	450	178	172,790
	1929							11	1,380			8	11,020	2	3,050	186	95,485
Hazleton, Pa.....	1928			1	7,530							7	47,938	2	564	75	668,724
	1929							2	3,499			1	32,112	3	61,263	59	183,174
Highland Park, Mich.	1928							3	5,300			12	161,240			180	1,310,667
	1929							7	7,600			10	238,850	2	2,255	163	1,012,015
Hoboken, N. J.....	1928							2	1,900			2	51,000			38	250,290
	1929			1	1,000			1	500							15	304,900
Holyoke, Mass.....	1928					1	4,500	10	1,850	2	1,400	4	17,250	3	14,500	159	420,900
	1929	1	3,000			1	100,000	12	6,900			3	14,500			99	383,225
Houston, Tex.....	1928	5	367,500	3	373,968	23	2,303,257	2	13,000			178	3,105,919	274	946,292	818	16,510,555
	1929	2	31,843	1	60,000	14	947,140					165	8,454,201	130	407,288	652	14,992,868
Huntington, W. Va....	1928	1	20,000					25	2,500	6	700	3	15,000			166	461,700
	1929			6	780,000			16	2,000			6	24,000			188	1,249,400
Hutchinson, Kans....	1928							50	5,500	2	225	37	460,650			306	600,120
	1929							23	1,859			24	277,025	2	20,500	169	813,417
Indianapolis, Ind....	1928					4	903,500	73	7,332			153	2,045,095			3,162	8,100,473
	1929			5	163,000	5	232,938	58	8,199			168	1,889,567			1,838	6,151,062
Irvington, N. J.....	1928					1	220,000	1	50			7	126,500	21	62,680	557	1,414,453
	1929					1	600,000					5	49,500	17	37,068	325	1,156,823
Jackson, Mich.....	1928							60	21,071			37	210,275			465	443,240
	1929							43	6,662			22	182,200			484	1,653,320
Jacksonville, Fla....	1928	1	130,000	5	128,150	1	3,500	102	23,875	2	7,075	82	428,350	121	9,490	699	1,555,475
	1929	4	34,830	2	830,000	3	6,795	128	33,768	2	3,000	71	559,575	52	5,550	539	2,015,092
Jamestown, N. Y.....	1928					2	362,000		1,100			9	52,800			253	689,990
	1929			1	100,550							13	65,715			272	724,935



Jersey City, N. J.	1928		18	1,149,025	1	250,000	14	19,750	2	26,500	22	177,740			423	5,272,194
	1929	1	15	827,300	1	200,000	8	138,345			25	5,008,650			453	8,821,846
Johnstown, Pa.	1928				2	250,000	27	1,857			1	5,500	5	17,325	192	616,191
	1929				1	15,000	39	2,095			2	34,300	1	6,000	188	203,264
Joliet, Ill.	1928			3,850	4	96,000					15	779,000			62	1,360,928
	1929			17,000	1	14,000					23	759,600			74	1,455,560
Joplin, Mo.	1928				1	42,000					21	92,000			127	298,993
	1929				1	62,000		20,000			22	199,500			94	370,675
Kalamazoo, Mich.	1928			41,000			7	2,150			18	187,060			294	918,953
	1929			52,000	2	345,000	6	205	1	25	14	5,850	2	250	266	1,364,303
Kansas City, Kans.	1928				1	6,000					58	227,655			353	906,832
	1929	2		272,000	3	41,500					36	140,750			272	1,106,321
Kansas City, Mo.	1928	1		4,000	3	2,115,000	4	6,300	4	4,100	72	1,016,150	67	35,850	646	6,880,075
	1929	2		15,000	4	55,000	37	10,700			87	1,427,500	3	26,400	551	6,852,800
Kearny, N. J.	1928			5,800	2	5,000		200	1	1,400	5	22,000			273	3,170,160
	1929	1			3	155,300		7,350			9	46,000			255	2,737,134
Kenosha, Wis.	1928				1	80,000	5	9,375			18	186,115			346	807,141
	1929				3	554,000	2	2,400			16	129,800			389	1,031,022
Kingston, N. Y.	1928						33	6,315	2	1,200	17	36,850			235	336,956
	1929						35	7,105	1	500	17	96,075			171	169,120
Knoxville, Tenn.	1928	3		73,920	1	480,000	250	90,587	1	15,600	56	592,330			485	2,875,200
	1929	1		386,000	3	15,600	146	50,748			45	360,760			401	3,033,210
Kokomo, Ind.	1928						2	150			11	35,780			307	108,751
	1929				2	17,500	17	895			15	149,510			336	899,946
Lakewood, Ohio	1928				4	334,000					6	19,770			350	949,646
	1929				1	6,500	5	2,390			3	328,000	2	1,500	342	621,590
Lancaster, Pa.	1928										18	56,270			153	689,845
	1929										18	58,265	87	625,815	197	768,608
Lansing, Mich.	1928	1		156,787	2	380,000	15	5,100			46	455,000			501	2,914,862
	1929	5		186,240	1	125,000	3	160			40	992,852	1	15,000	302	5,503,086
Lawrence, Mass.	1928										26	259,325			127	323,300
	1929				1	61,541	3	1,675			13	48,100	3	5,200	111	385,556
Lebanon, Pa.	1928			26,300	1	150,000	3	700			6	79,000			66	302,000
	1929				1	300,000	12	10,000			1	60,000			100	600,000
Lewiston, Me.	1928										2	125,000			27	821,000
	1929												3	70,000	23	194,300
Lexington, Ky.	1928		20	168,000	1	107,000	5	1,350	1	450	7	68,100			187	604,719
	1929				6	746,800	19	6,000	2	7,000	10	84,775	47	372,104	190	1,296,114
Lima, Ohio	1928						3	375			6	69,700			166	206,117
	1929						2	200			32	323,300			126	157,225
Lincoln, Nebr.	1928	1		21,741	2	635,000					26	298,327			550	1,578,142
	1929				1	120,000					28	296,575			524	840,008
Little Rock, Ark.	1928	1		175,000							51	296,575			228	1,228,386
	1929				1	280,000					69	892,635			250	1,220,501
Long Beach, Calif.	1928	15		392,330	9	1,146,000	82	9,525			202	2,043,905			1,957	6,886,070
	1929	10		182,630	32	2,090,150	53	7,185			291	2,483,985			1,897	8,476,810
Lorain, Ohio	1928						5	300			19	201,480			266	264,574
	1929						1	250			8	32,300			222	70,661
Los Angeles, Calif.	1928	2		30,000	29	704,702	75	4,825,645	* 1,459	* 613,326	604	8,662,045	113	267,626	11,680	29,302,619
	1929	2		195,000	33	776,700	59	2,404,950	* 1,354	* 534,102	555	9,968,700	64	923,317	10,238	33,880,140

\* Includes stables and barns.

\* Included with sheds.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Public buildings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, warehouses, etc.		All other		Total new nonresidential buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Louisville, Ky.....	1928			3	\$1,185,000	7	\$984,500	403	\$45,010	13	\$5,645	64	\$1,563,000			1,223	\$7,211,820
	1929			7	1,214,000	6	1,324,750	154	25,010	23	12,250	158	2,036,525			921	5,945,400
Lowell, Mass.....	1928			2	250,000							7	24,125	5	\$315	188	460,205
	1929			2	4,000	1	30,000	17	2,265			5	13,800	7	4,125	201	152,125
Lynchburg, Va.....	1928	2	\$8,350			2	145,036	19	5,890	5	585	10	129,500			156	416,534
	1929	1	50,000	2	110,000	2	130,000	4	450	3	405	8	44,300	1	1,000	108	480,880
Lynn, Mass.....	1928	1	1,400	2	6,500	1	15,000	21	8,175	6	24,742	26	245,000	31	11,081	482	942,769
	1929	2	270,000	2	32,000			38	2,960	6	4,025	19	133,920	7	19,000	436	1,144,778
McKeesport, Pa.....	1928			1	90,000	2	219,400	19	9,835			5	27,000			193	864,541
	1929	1	5,000	1	3,300			18	1,188			11	186,000			209	284,723
Macon, Ga.....	1928							7	3,100			49	486,774	10	15,700	163	749,070
	1929					2	51,500	16	4,800			19	102,777	2	1,965	90	316,862
Madison, Wis.....	1928			2	604,864			3	930			18	323,100			497	1,929,567
	1929	3	58,000					6	3,920			23	617,475			382	1,826,777
Malden, Mass.....	1928							5	1,480			13	157,100			212	388,597
	1929							7	950			10	80,200			175	407,812
Manchester, N. H.....	1928	1	8,100	1	15,000			32	3,625	5	3,920	12	50,135			267	262,735
	1929	3	47,500					37	3,445			14	14,160	2	4,540	287	488,679
Mansfield, Ohio.....	1928							7	2,591			8	99,100	7	10,252	243	1,005,055
	1929			1	10,000			9	1,855			3	58,040			239	203,323
Marion, Ind.....	1928							6	1,500			7	180,000			172	861,660
	1929			1	60,000							4	4,680			77	136,140
Marion, Ohio.....	1928											147	135,315			473	666,445
	1929					4	181,822	15	613							235	301,230
Medford, Mass.....	1928			1	70,000			4	875			17	109,000			390	635,187
	1929			2	237,400			5	1,050			9	42,600			381	588,685
Memphis, Tenn.....	1928			3	851,500			53	20,670	2	780	53	1,118,390			1,088	6,123,334
	1929	1	17,500	1	16,900			8	1,560			40	1,458,860			828	2,416,032
Meriden, Conn.....	1928			1	2,700							7	18,350			149	230,726
	1929			1	6,000	2	100,000					2	11,000	4	10,500	179	466,010
Miami, Fla.....	1928	1	700	2	3,500	1	600	122	15,732	1	4,000	65	215,130	91	66,347	530	644,633
	1929	1	1,000	3	2,200	2	76,500	173	46,550			49	1,093,000	11	30,600	524	2,081,928
Milwaukee, Wis.....	1928	2	1,530,000	2	21,000	7	1,968,000	395	384,740			64	1,669,200			3,297	11,714,443
	1929	1	6,540,360	2	10,000	2	700,000	66	29,265			57	1,506,400	311	227,175	3,887	17,237,422
Minneapolis, Minn.....	1928			4	6,800	5	1,423,530	21	2,580			151	1,332,950	27	73,015	2,729	10,788,640
	1929			2	3,700	8	197,000	32	4,875			119	1,819,715	21	35,250	2,878	9,639,150

Mobile, Ala.	1923	1	12,000	1	70,000	4	162,500							21	211,500			560	1,467,854
	1924					1	103,000							34	728,791			47	859,745
Moline, Ill.	1923													7	45,340			188	905,356
	1924													12	535,657			210	981,464
Montclair, N. J.	1928							1	200					5	48,600	2	5,500	329	416,211
	1929													10	155,000			256	354,029
Montgomery, Ala.	1928	1	20,000			1	22,000							79	511,773			494	1,721,743
	1929					2	370,000							8	321,200	53	33,625	101	1,053,320
Mount Vernon, N. Y.	1928			1	2,500			7	2,055	2	10,500			30	709,988			306	2,658,950
	1929	1	105,000					7	3,350					29	613,150	5	6,750	176	1,987,430
Muncie, Ind.	1928			2	14,000	1	255,175	100	2,553					11	73,210			661	1,237,134
	1929							87	1,578					12	44,925			569	693,412
Muskegon, Mich.	1928													22	198,800			289	611,997
	1929	1	128,000			3	328,000							2	10,100			358	1,406,230
Muskogee, Okla.	1928							5	810					9	62,475			108	215,980
	1929			3	79,750	1	10,359	3	1,052	2	200			18	70,350	3	12,000	81	253,681
Nashville, Tenn.	1928					5	599,000	61	38,580	29	2,285			72	796,300			347	2,977,875
	1929	5	158,000			2	160,000	44	28,675	4	350			43	403,600	6	13,600	285	1,869,715
Newark, N. J.	1928	3	162,181	8	177,950	3	969,000	13	11,510	2	9,500			117	1,595,179	11	29,725	1,217	11,797,202
	1929			15	223,140	5	1,050,087	17	19,800	18	254,550			130	3,135,617	19	195,920	1,167	20,159,244
Newark, Ohio	1928					3	450,000	3	800									180	700,016
	1929			4	995	1	90,000	2	700	1	500			8	22,100	2	325	138	342,165
New Bedford, Mass.	1928					1	156,458	83	7,230					13	134,650			235	527,655
	1929					2	15,500	81	10,235					9	89,600			230	446,780
New Britain, Conn.	1928							142	124,743							3	5,700	381	886,658
	1929	2	2,500											5	33,000			168	161,573
New Brunswick, N. J.	1928			2	206,500					1	1,300			2	7,000			124	661,745
	1929			1	9,000			6	5,050					6	238,500			98	357,235
Newburgh, N. Y.	1928													23	171,700			138	559,475
	1929			1	78,000									10	192,500			109	514,520
New Castle, Pa.	1928					29	14,495							2	20,500			286	419,915
	1929			2	100,000	14	4,315	6	116,575					6	116,575	6	3,285	251	629,435
New Haven, Conn.	1928			4	1,397,768	3	1,008,000	10	323,600	1	800			10	323,600			470	5,250,094
	1929	2	1,289,558	7	529,902	2	3,300,000	67	48,520					13	350,260	1	5,000	463	8,540,820
New London, Conn.	1928			1	18,000	2	2,200	26	81,900					26	81,900			225	396,065
	1929	1	26,583	1	18,000	1	175,000	5	1,500					5	39,200	1	3,000	141	500,558
New Orleans, La.	1928					7	1,318,672	97	62,105	2	6,700			51	580,839	13	6,380	349	4,552,271
	1929	2	2,825,000	6	823,004	5	1,693,598	54	9,846	4	43,946			53	291,422	1	1,500	315	7,308,356
Newport, Ky.	1928													6	22,200			51	66,010
	1929													10	59,100			36	96,375
Newport, R. I.	1928	1	32,000	2	1,000			4	2,300	1	750			12	12,500	4	12,600	156	255,220
	1929							16	16,500					4	32,000	3	35,000	198	701,530
Newport News, Va.	1928					1	95,800	79	2,861					18	146,951			177	252,908
	1929					1	55,000	101	7,860					13	167,750	84	9,201	293	287,038
New Rochelle, N. Y.	1928					1	261,000	7	9,840	2	10,030			16	203,900			276	1,590,822
	1929							8	1,550	1	1,500			24	619,300			211	2,032,476
Newton, Mass.	1928	2	153,000			1	191,500	17	2,480					6	251,900			474	1,107,685
	1929					1	60,000	34	12,384					9	102,400	1	3,500	429	515,321

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Public build-ings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, ware-houses, etc.		All other		Total new nonresi-dential buildings	
		Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost	Num-ber	Cost
New York City, N. Y.:																	
The Bronx.....	1928	3	\$185,000	6	\$200,000	13	\$8,604,000	1	\$500			211	\$5,864,700	2	\$1,500	1,698	\$35,047,664
	1929	9	481,412	6	148,000	11	8,429,000	5	10,545	6	\$110,500	110	2,820,500	2	2,300	1,333	26,366,557
Brooklyn.....	1928	15	2,163,000			13	7,262,000					208	10,471,250	738	894,820	5,997	52,814,900
	1929	10	12,435,000			13	7,255,000					208	4,671,700	646	1,088,589	4,528	49,308,609
Manhattan.....	1928	11	1,835,500			8	4,115,000					58	8,443,500	45	85,040	614	137,967,920
	1929	4	132,000			7	4,702,500					55	12,324,000	33	151,665	479	147,270,865
Queens.....	1928	9	657,000	8	330,500	7	2,986,000	63	59,070	13	58,450	402	5,754,550	241	111,110	7,801	25,374,515
	1929	5	503,000	19	473,600	14	5,428,500	65	47,850	3	1,782	340	4,715,665	230	117,994	6,833	26,124,503
Richmond.....	1928	2	80,000	2	202,000	4	1,268,000	37	25,600	1	1,500	137	537,627	142	80,024	1,413	5,688,928
	1929	6	590,000	2	46,000	3	730,000	31	27,622	1	1,50	64	669,000	85	60,485	1,094	4,411,497
Ningara Falls, N. Y.:	1928	1	40,000	5	642,300	2	236,249	17	1,480	4	440	59	192,525	11	9,400	513	1,822,875
	1929	1	26,000	3	15,000			33	8,500			58	653,820	1	2,000	529	2,517,681
Norfolk, Va.....	1928	3	43,200	4	295,700	1	151,000	30	6,245	1	150	21	155,850			543	1,205,253
	1929	1	3,785	1	8,000	1	184,000	26	8,490	3	450	19	668,600			505	1,120,246
Morristown, Pa.....	1928							11	751			9	75,150			158	407,025
	1929	2	785,000					11	6,200	1	4,000	5	19,750			173	1,027,974
Norwalk, Conn.....	1928			2	300,000			32	53,125	2	8,000	13	197,300			306	1,854,280
	1929			4	96,000	3	150,000	42	12,835			13	469,200			294	1,249,110
Oakland, Calif.....	1928	1	7,500	19	324,530	14	1,408,086	16	11,670			98	3,636,264	18	52,696	1,783	8,934,559
	1929			17	941,102	3	130,670	37	32,700	1	1,200	95	2,444,313	32	55,047	1,319	5,955,306
Oak Park, Ill.....	1928	3	30,000			2	1,012,425	1	2,000			12	638,500	2	12,300	450	2,158,796
	1929											5	627,000	1	85,000	296	2,450,020
Ogden, Utah.....	1928			1	200,000			3	1,700			16	118,425			40	726,025
	1929							2	675			26	75,470			49	319,495
Oklahoma City, Okla.....	1928	1	38,302	2	26,200	14	1,073,383	19	6,410	1	1,800	113	909,098			1,248	3,538,121
	1929	8	914,000	20	2,269,450			62	45,340			150	2,200,785	7	995	1,635	7,621,260
Okmulgee, Okla.....	1928					2	140,000					9	38,050			20	182,065
	1929							2	425			11	24,325			23	74,200
Omaha, Nebr.....	1928					3	192,000	30	134,825			83	965,640	9	39,000	535	5,164,123
	1929					1	65,000	19	7,800			56	388,050	29	186,700	472	1,818,672
Orange, N. J.....	1928					1	150,000					17	574,780			144	1,401,690
	1929							2	3,200			1	13,775	1	950	103	1,217,382
Oshkosh, Wis.....	1928			1	25,000			2	250			7	38,300			198	147,858
	1929			3	8,416	1	65,000	1	500							184	135,750



TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued

City and State	Year	Public buildings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, warehouses, etc.		All other		Total new nonresidential buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Racine, Wis.	1928					1	\$52,472	6	\$14,050			17	\$98,750			454	\$1,024,945
	1929			3	\$128,500	2	223,000	3	9,400			18	131,000			462	1,211,832
Reading, Pa.	1928			3	44,400	1	78,389	22	10,000			17	79,050	3	\$1,800	408	1,221,939
	1929			3	467,000	4	473,750	19	2,595	1	\$500	13	642,200			349	2,430,215
Revere, Mass.	1928			3	3,600			3	1,950			8	45,450	2	1,000	120	176,352
	1929							12	2,300			18	27,525	1	3,000	126	120,935
Richmond, Ind.	1928							1	100			17	50,350			142	104,675
	1929							4	1,400	2	1,825	11	116,855			136	224,189
Richmond, Va.	1928					1	571,164	424	106,883	1	900	107	1,204,349			826	2,379,120
	1929			1	7,000	2	1,184,253	218	50,089			54	594,950	1	3,200	794	5,192,511
Roanoke, Va.	1928	2	\$53,870			6	677,540					48	329,449			325	1,738,749
	1929							2	88	1	75	52	334,422			271	843,942
Rochester, N. Y.	1928			3	80,500	6	3,851,007	83	81,410	5	33,700	52	506,350	31	34,455	1,914	7,529,025
	1929			1	400,000	4	79,387	73	28,100			41	688,215	13	5,591	1,529	6,650,169
Rockford, Ill.	1928	1	13,000			2	69,500	9	16,675			28	373,200	1	5,000	684	1,600,225
	1929					4	435,000	3	13,350			22	319,250	3	27,500	628	1,894,982
Rock Island, Ill.	1928							1	7,500							185	50,015
	1929					1	114,989					2	9,000			226	184,239
Sacramento, Calif.	1928	1	108,150			3	70,410	30	12,050			56	582,602			344	1,326,432
	1929	3	11,624	2	12,500	7	523,550	46	14,320			36	321,024			333	1,067,011
Saginaw, Mich.	1928					2	319,776					23	400,348	15	3,275	601	2,252,556
	1929							59	7,281	6	510	18	479,615			591	1,151,420
St. Joseph, Mo.	1928							20	5,230			15	79,050			148	1,504,443
	1929					1	60,000					19	261,750			166	383,398
St. Louis, Mo.	1928	2	1,000,000	2	330,000	32	1,146,600	957	150,826			219	5,503,175			4,963	15,658,349
	1929			1	30,000	24	302,500	632	97,399	3	3,000	184	2,249,505			4,006	8,089,367
St. Paul, Minn.	1928			1	54,000	1	9,288					28	440,290	375	406,989	1,818	2,497,320
	1929	2	136,200	4	768,000	1	81,000	259	119,087			28	287,400	103	97,109	1,835	4,197,074
St. Petersburg, Fla.	1928	2	1,700	3	3,300			1	600			18	34,800			329	691,900
	1929			5	66,800	1	6,500					15	119,600			198	607,000
Salem, Mass.	1928							7	1,000			10	187,050			152	581,125
	1929	1	150,000					8	700			5	34,675			117	672,890
Salt Lake City, Utah.	1928			2	54,000	3	661,000	10	22,370			52	394,035	3	8,700	248	1,633,216
	1929			5	4,200	1	11,500	46	43,400			54	850,575	3	11,900	318	1,774,088
San Antonio, Tex.	1928			1	75,000	2	327,500					127	1,190,081	201	469,979	743	8,071,194
	1929	11	853,125	2	43,750	10	520,675	2	4,375			128	1,462,150			840	10,019,391

San Diego, Calif.	1928	6	281,390	3	435,950	15	275,778	211	45,667	1	750	109	1,142,390	40	20,000	1,210	3,910,839
	1929	14	197,860	3	24,200	46	2,025,591	195	78,010	1	1,000	89	1,193,375			994	5,812,358
San Francisco, Calif.	1928	3	262,824		1,363,781	12	1,761,689	16	30,150			101	1,602,965			445	11,356,816
	1929	2	83,767	15	2,542,280	10	2,186,120	28	22,240	4	32,700	98	3,267,550			331	13,412,415
San Jose, Calif.	1928			4	12,075			37	9,835			30	467,060			283	932,000
	1929			1	2,000	2	155,000	19	5,200	6	765	25	275,070	8	2,045	266	854,770
Savannah, Ga.	1928											28	193,425			91	580,404
	1929											15	39,100			69	311,220
Schenectady, N. Y.	1928			2	2,300	2	158,000	12	3,650	1	200	20	262,000	2		506	1,117,570
	1929	1	100,000	5	93,500			9	1,575	2	200	12	240,750		550	473	1,107,625
Scranton, Pa.	1928					3	538,985	16	8,515	1	500	2	236,500			372	1,897,498
	1929	1	4,200			1	791,154	22	12,175			5	91,300			289	1,437,634
Seattle, Wash.	1928	11	590,250	5	40,500	5	1,028,400	321	52,930	2	700	185	6,022,100			2,478	12,754,665
	1929	7	66,000	5	43,500	8	921,000	233	34,075			143	2,755,825	40	5,300	2,025	10,540,090
Sheboygan, Wis.	1928	1	28,300	1	15,000			15	4,500	6	5,425	30	202,690			309	558,765
	1929			1	228,710			18	2,365	8	1,575	21	11,370			270	465,765
Shreveport, La.	1928	1	18,130			3	390,369	5	1,450	1	100	74	660,018			362	1,904,439
	1929					2	208,531					131	873,356			332	1,114,064
Sioux City, Iowa	1928	1	20,000					29	32,325			32	154,750			427	907,310
	1929	1	40,000	6	40,000			29	13,455			21	453,110			437	1,797,953
Sioux Falls, S. Dak.	1928	1		6	191,250	1	100,000			1	1,250	27	213,750		4,400	78	984,620
	1929					3	145,000					22	430,300	3	4,600	169	914,900
Somerville, Mass.	1928							9	6,345			15	243,570			105	342,645
	1929					1	40,000	16	18,665			13	858,000			195	1,780,831
South Bend, Ind.	1928	1	60,000	8	856,800			58	9,830			30	230,950			1,351	3,081,065
	1929	1	14,000	16	206,000	4	518,000	86	13,480	10	1,500	38	407,000			1,251	3,725,290
Spokane, Wash.	1928			5	15,350	2	175,000	108	17,200	1	4,200	50	391,557	21	18,595	875	2,610,038
	1929			2	28,000	2	26,000	94	14,298			56	1,135,705	47	20,700	871	1,561,606
Springfield, Ill.	1928			2	12,500	2	213,000	6	2,300			20	632,350	21	25,685	426	1,389,225
	1929							9	11,325			16	988,000	16	7,350	360	1,805,303
Springfield, Mass.	1928			1	87,000			19	59,675			18	142,200	27	86,015	728	1,680,274
	1929	1	240,000	1	10,000	1	160,000	9	12,500			37	522,115	14	33,175	629	1,995,043
Springfield, Mo.	1928			1	20,000			5	2,550			23	94,900	10	2,950	163	688,760
	1929							11	11,150			37	356,100	1	200	142	519,890
Springfield, Ohio	1928							7	1,500			13	69,850	42	19,837	468	400,014
	1929							10	5,300			7	25,000	21	1,400	442	775,700
Stamford, Conn.	1928			1	37,500			21	7,750			12	201,075	1	700	318	1,535,060
	1929	1	40,000	2	1,300			27	19,825			21	419,025	16	23,750	405	1,918,223
Steubenville, Ohio	1928			2	15,000	1	80,000	3	300			15	14,100			153	443,595
	1929			1	15,000			6	1,200			8	299,700			108	379,525
Stockton, Calif.	1928					2	81,240	51	31,568	1	2,500	30	171,650		25	424	579,432
	1929			1	1,000			37	34,985	1	12,080	18	62,950	5	5,150	277	558,630
Superior, Wis.	1928			2	26,000			31	4,585	1	300	8	756,300			198	1,113,855
	1929			2	113,000			28	2,995	3	135	1	300			158	385,453
Syracuse, N. Y.	1928	1	73,273	2	106,863	2	423,117	2	1,165	1	200	44	486,150	32	9,775	1,392	3,726,403
	1929			4	56,860	4	1,157,012	9	10,135			83	990,125	12	13,450	1,133	4,300,467
Tacoma, Wash.	1928	3	27,000	2	9,000	2	125,000	294	54,320			35	367,550	3	8,500	591	1,365,470
	1929	8	656,600					343	49,020	31	3,340	23	436,000			853	1,964,795
Tampa, Fla.	1928			6	81,150	2	32,000	224	27,330			55	320,850	1	3,000	668	1,321,770
	1929	1	5,245	2	6,500	1	30,000	135	14,040			36	449,250	4	800	407	967,638
Taunton, Mass.	1928			1	5,000			24	2,385			9	36,640			171	252,947
	1929			1	41,500	1	100,000	35	4,216	3	750	6	74,885	1	1,000	175	291,146

**TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued**

**PART 2.—NEW NONRESIDENTIAL BUILDINGS—Continued**

City and State	Year	Public buildings		Public works and utilities		Schools, libraries, etc.		Sheds		Stables and barns		Stores, warehouses, etc.		All other		Total new nonresidential buildings	
		Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost	Number	Cost
Terre Haute, Ind.	1928					2	\$128,000	6	\$460			5	\$11,650			395	\$269,145
	1929					2	77,000									333	232,474
Toledo, Ohio	1928	1	\$125,000	7	\$540,600	5	566,061					130	1,535,457			2,587	7,805,171
	1929	4	328,850			3	1,112,605	43	10,675			150	3,479,010	1	\$500	2,314	6,679,361
Topeka, Kans.	1928	1	40,000			3	298,225	74	23,737			8	64,150			583	645,400
	1929	1	29,580			4	17,500	35	4,335			43	240,150			465	762,207
Trenton, N. J.	1928			3	155,000	1	73,000	18	14,162	2	\$400	29	258,205			430	1,792,767
	1929			1	28,000			4	1,190			16	57,173			377	2,237,259
Troy, N. Y.	1928					3	52,000	1	2,400			7	65,200	8	1,925	164	270,850
	1929	1	31,000	3	101,000	4	532,000					9	87,800			146	959,684
Tucson, Ariz.	1928	2	301,500	1	8,000	1	11,000	14	1,807			22	189,434	28	35,637	228	1,428,423
	1929	1	413,300	2	2,200			32	24,090	1	1,500	32	338,250			369	1,459,722
Tulsa, Okla.	1928					4	290,849	100	30,980			103	1,346,340	5	1,940	1,758	3,843,407
	1929	2	23,300			25	1,299,838	94	26,412			139	2,814,917			1,472	5,626,391
Union City, N. J.	1928											8	74,650			105	422,785
	1929							1	1,000			4	40,000	1	1,300	48	172,315
Utica, N. Y.	1928			1	50,000	1	200,000					13	261,400	1	500	255	1,085,365
	1929	1	227,000					2	1,900			13	179,400			199	1,104,775
Vallejo, Calif.	1928					2	3,500	1	50			6	36,681	4	4,000	109	113,538
	1929	1	72,658	4	26,700			6	180			5	28,600			85	161,839
Waco, Tex.	1928					2	145,000	11	3,605			18	133,200			71	1,366,017
	1929	1	250,534			1	336,433	12	4,506			21	173,950			65	1,300,859
Waltham, Mass.	1928					1	20,000	15	1,505			1	2,500	21	9,165	260	641,670
	1929							18	5,450			19	367,300			243	1,149,470
Warren, Ohio	1928			1	3,000							6	19,300			140	233,110
	1929	1	1,500			1	64,000	46	4,145	1	25	13	147,500	1	120,000	405	532,595
Washington, D. C.	1928			4	857,786	14	1,801,104	50	6,600			194	2,281,250	2	4,800	1,914	16,947,076
	1929	2	19,368,000	3	183,189	12	2,597,989	60	40,735	3	7,800	120	4,447,320	1	1,000	1,811	29,796,686
Waterbury, Conn.	1928							22	22,250	5	5,100	21	128,000			362	903,950
	1929					2	138,000	12	4,050			12	124,000			299	1,158,450
Waterloo, Iowa	1928	1	1,000	3	14,826			15	4,300			25	274,395			431	1,211,884
	1929					1	800	25	7,640	2	4,030	22	111,000	3	4,960	483	666,460
Wattertown, Mass.	1928					1	80,000	6	250			9	57,800			245	482,625
	1929			2	40,000	1	150,000	6	1,350			2	93,000			186	501,905
Wattertown, N. Y.	1928					2	568,000	6	115	1	100	5	35,000			206	652,230
	1929	1	250,000			1	175,000					3	85,500			167	650,608





TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS

City and State	Year	Repairs, etc., on residential buildings <sup>a</sup>				Repairs, etc., on non-residential buildings <sup>a</sup>		Total repairs, etc. <sup>a</sup>		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Akron, Ohio	1928						750	\$1,647,596	5,356	\$19,485,096				
	1929						995	862,716	5,600	21,639,643	20	408	\$167,189	
Alameda, Calif.	1928	244	\$110,242			13	\$20,430	257	136,672	734	2,131,396		585	244,566
	1929	368	106,881			18	16,315	416	123,196	737	1,404,410	220		
Albany, N. Y.	1928							1,418	2,389,810	2,226	14,893,525			
	1929							1,310	1,914,312	1,784	9,034,990	49	222	241,084
Allentown, Pa.	1928	382	311,460			83	138,825	465	450,325	1,556	5,035,040			
	1929	325	271,389			95	156,090	420	427,389	1,388	4,509,654	94		
Alton, Ill.	1928	204	107,724			84	120,616	288	228,340	564	1,044,455		240	74,892
	1929	220	121,539	8	\$3,876	55	140,361	278	265,776	432	918,896	258	122	39,254
Altoona, Pa.	1928	529	189,814			335	272,817	864	462,631	1,313	3,360,907		86	14,711
	1929	847	187,475	14	37,624	124	133,178	985	358,277	1,932	1,983,515	178	61	13,306
Amsterdam, N. Y.	1928							2	6,000	163	683,675			
	1929	7	87,400			3	9,000	10	96,400	164	1,051,432	251		
Anderson, Ind.	1928	315	114,094			57	169,725	372	283,819	796	2,452,833			
	1929	185	111,134			47	237,080	232	348,214	552	1,740,298	196		
Asheville, N. C.	1928	267	121,205			107	141,545	374	262,748	901	3,095,110		54	11,091
	1929	176	98,635			130	196,737	304	285,372	598	2,236,288	160	81	24,424
Ashtabula, Ohio	1928	116	40,510			62	78,269	168	118,779	347	513,872		27	4,765
	1929	155	61,170	2	1,097	40	16,933	197	79,200	353	650,759	286	56	11,585
Atlanta, Ga.	1928							1,487	2,274,848	3,952	27,394,779		222	185,762
	1929							1,373	3,259,804	2,946	12,563,855	38	324	648,756
Atlantic City, N. J.	1928	442	488,748	30	129,300	200	1,095,984	672	1,624,032	839	7,410,842		333	291,676
	1929	334	325,297	15	79,000	201	707,692	550	1,111,989	701	7,483,138	57	317	227,777
Auburn, N. Y.	1928	62	121,506			22	37,320	114	158,726	321	1,515,596			
	1929	103	252,428			35	73,345	138	325,773	322	1,490,427	210	5	455
Angusta, Ga.	1928	1,478	107,418	1	110,000	355	167,680	1,834	385,098	2,233	1,550,944		46	2,857
	1929	1,222	147,115	3	1,134	271	152,105	1,527	300,354	1,915	1,136,661	235	40	6,135
Aurora, Ill.	1928	268	171,673			69	128,099	367	299,772	864	2,950,472			
	1929	349	232,285			72	160,600	421	392,885	821	2,237,321	165	3	920
Austin, Tex.	1928							163	133,852	1,139	4,477,113		96	
	1929							12,193	7,467,160	17,099	33,945,350			
Baltimore, Md.	1928							14,357	8,220,800	14,332	33,174,900	12		
	1929													

Bangor, Me.	1928	20	22,450	1	1,000	18	182,900	39	156,850	173	625,610			
	1929	28	12,755			11	18,135	89	30,590	164	597,765	288		
Baton Rouge, La.	1929	362	61,207			114	63,964	476	125,171	692	582,556	289	25	4,212
Battle Creek, Mich.	1928	202	114,307			63	70,500	265	184,807	762	2,871,212			
	1929	198	121,160					198	121,160	686	8,002,185	139		
Bay City, Mich.	1928	118	241,490			104	113,205	222	354,695	499	1,544,596			
	1929	1,057	261,965			48	428,880	1,105	680,845	1,457	1,308,971	225		
Bayonne, N. J.	1928							310	188,065	504	1,995,365			
	1929							177	189,685	329	1,107,130	243		
Beaumont, Tex.	1928	175	157,685			2	32,000	1,120	710,856	1,901	4,326,769		46	25,048
	1929							1,212	783,132	1,852	2,581,646	150	125	73,971
Belleville, Ill.	1928							23	6,740	274	1,621,621			
	1929	7	7,250			2	75	9	7,325	261	992,845	255		
Bellingham, Wash.	1928	331	89,108			135	175,105	466	264,213	990	1,872,318			
	1929	262	82,018			116	112,250	378	194,268	843	1,777,318	191		
Berkeley, Calif.	1928							1,487	558,676	2,487	6,076,626			
	1929							1,093	665,161	1,806	6,369,100	66		
Bethlehem, Pa.	1928	237	208,531	2	11,200	42	143,885	281	363,616	743	3,843,006		59	19,950
	1929	141	156,390	11	16,925	40	627,825	192	801,140	604	2,905,192	144	35	7,795
Binghamton, N. Y.	1928	704	254,599			868	439,477	1,570	694,076	2,273	3,456,303			
	1929	665	205,767			1,559	845,845	2,224	1,051,512	2,747	3,987,909	107	876	184,424
Birmingham, Ala.	1928	2,442	737,615	4	12,675	460	653,623	2,906	1,403,913	5,687	14,224,577		779	598,877
	1929	1,672	377,919	5	745	359	740,131	2,036	1,118,795	3,071	8,233,925	52	912	383,888
Bloomfield, N. J.	1928	36	40,500	6	5,000	8	563,000	50	608,500	891	4,540,600			
	1929	51	40,360			8	329,000	59	369,360	746	3,698,547	112	1	50
Bloomington, Ill.	1928	14	21,500			13	42,000	27	63,500	154	1,382,800			
	1929	23	34,000			12	52,000	35	86,000	197	1,118,300	240		
Boston, Mass.	1928	3,682	2,263,774	106	213,895	1,677	5,259,456	5,465	7,737,125	9,255	55,098,557		7,380	8,104,037
	1929	3,800	1,859,140	95	736,210	1,722	8,016,256	5,617	10,611,606	8,169	53,834,471	7	7,538	6,974,203
Bridgeport, Conn.	1928	201	94,055			179	362,048	380	456,098	1,135	3,526,622			
	1929	274	185,574			142	224,565	416	410,139	1,172	4,242,322	100	47	27,950
Brockton, Mass.	1928	264	92,375			132	184,575	426	276,950	887	1,725,858			
	1929	398	148,821			117	181,060	515	279,881	927	1,466,834	213		
Brookline, Mass.	1928	130	314,694			86	238,383	216	553,077	588	6,291,422			
	1929	142	418,238			80	337,375	222	755,613	479	5,021,603	86		
Buffalo, N. Y.	1928	946	589,701			325	533,023	1,271	1,122,724	5,545	24,401,983			
	1929	831	492,000			358	832,985	1,189	1,324,985	4,326	24,127,600	18		
Burlington, Iowa	1928							76	40,900	238	443,771			
	1929							167	210,592	360	571,297	292	75	25,961
Butler, Pa.	1928	31	25,460			20	60,636	51	86,096	136	388,836			
	1929	28	20,770			12	19,550	40	40,320	130	459,695	298		
Butte, Mont.	1928	92	81,830			42	69,560	134	151,390	215	366,440		25	817
	1929					51	109,180	51	109,180	198	447,472	302	20	20,000
Cambridge, Mass.	1928	350	245,149			235	692,461	585	937,610	1,052	8,083,723			
	1929	371	334,603			274	1,400,597	645	1,735,200	941	12,165,240	39		
Camden, N. J.	1928	459	211,250	9	19,550	122	435,165	590	665,965	1,293	7,428,055			
	1929	423	192,004			155	535,754	578	727,758	1,131	6,163,791	70		
Canton, Ohio	1928	343	120,126	2	10,050	229	448,995	574	579,171	1,579	3,662,318		84	14,687
	1929	334	112,345			213	215,895	547	328,240	1,507	3,456,197	124	83	26,725
Cedar Rapids, Iowa	1928	542	174,048			88	407,551	630	581,509	1,256	2,438,230			
	1929	564	186,141			101	390,991	665	577,132	1,216	2,905,969	143		

\* For years in which figures are shown for total repairs, etc., only, no details were reported.

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Central Falls, R. I.	1928						36	\$73,000	98	\$303,345				
	1929	56	\$39,772			9	\$12,150	65	\$1,922	203	726,397	276	1	\$300
Charleston, S. C.	1928	248	73,999			106	103,408	354	177,407	454	560,635		3	412
	1929	389	126,107			101	94,820	490	220,927	673	670,804	285	42	13,515
Charleston, W. Va.	1928							131	259,390	601	2,873,180		104	31,894
	1929							267	529,855	719	2,240,986	164	84	10,956
Charlotte, N. C.	1928	356	207,052			71	202,218	427	409,270	1,397	7,458,264			
	1929	375	236,256			125	381,322	500	617,578	1,086	3,728,845	111		
Chattanooga, Tenn.	1928	1,553	305,612	5	\$910	717	418,895	2,275	725,417	2,939	4,703,486		123	89,228
	1929	1,901	264,990	13	4,510	760	517,647	2,674	787,147	3,218	2,260,866	163	290	100,978
Chelsea, Mass.	1928	126	83,955			73	181,220	199	265,175	348	1,163,715			
	1929	133	59,201			86	59,955	219	119,156	292	802,221	265		
Chester, Pa.	1928							101	208,675	489	1,746,542		28	25,400
	1929	65	179,600			37	110,750	102	290,350	343	1,099,410	246	20	27,020
Chicago, Ill.	1928	3,679	2,117,435			2,336	6,182,705	5,915	8,300,140	19,982	323,509,048		856	3,614,000
	1929	3,488	2,374,295			2,330	4,742,020	5,818	7,116,315	15,849	210,797,640	2	795	3,180,500
Chicopee, Mass.	1928	91	52,875			33	61,425	124	114,300	406	1,275,565			
	1929	74	47,000			32	73,350	106	120,350	417	1,441,825	217		
Cicero, Ill.	1928	162	244,966			3	55,000	165	299,966	547	3,860,080			
	1929	179	328,971			7	31,350	186	361,321	562	3,609,418	117	7	2,245
Cincinnati, Ohio	1928							5,545	4,778,740	9,431	35,458,730		4,892	3,446,565
	1929	4,733	2,318,510			1,450	412,150	6,183	2,730,660	8,971	31,037,665	13	7,932	5,087,057
Clarksburg, W. Va.	1928	128	62,325			35	51,610	163	113,935	427	1,189,385			
	1929	106	34,195			25	21,855	131	66,050	327	497,955	296	28	5,319
Cleveland, Ohio	1928	1,620	1,089,550	7	184,900	3,038	7,866,925	4,665	9,141,375	10,593	56,158,525			
	1929	1,622	1,191,550			2,672	8,608,825	4,294	9,800,375	9,863	37,782,500	9		
Clifton, N. J.	1928							157	104,545	987	3,542,055			
	1929	171	85,895					171	85,895	920	2,465,465	154		
Colorado Springs, Colo.	1928	267	95,971			134	102,058	401	198,029	762	812,495			
	1929	219	105,528	2	2,600	107	166,096	328	274,224	632	1,030,026	253		
Columbia, S. C.	1928							505	262,080	883	1,609,775		127	16,560
	1929	224	133,965			45	60,250	289	194,215	620	1,254,705	229	78	23,130

Columbus, Ga.	1928	231	67,072	8	12,975	94	88,107	353	169,164	756	1,164,002			
	1929	177	80,595			30	123,797	207	204,292	592	955,011	257		
Columbus, Ohio	1928	757	553,260	1	500	320	825,700	1,078	1,379,460	5,850	16,237,250			
	1929	658	461,700	2	1,900	344	1,001,350	1,004	1,464,950	8,557	10,613,050	45	13,383	2,236,049
Council Bluffs, Iowa	1928	76	78,700			24	30,100	100	108,800	283	810,200			
	1929	118	140,800			38	63,500	156	204,300	347	674,050	284		
Covington, Ky.	1928	128	108,950			54	133,400	182	292,350	580	1,591,750			
	1929	779	65,075			42	165,950	121	231,025	409	1,479,425	211	5	3,000
Cranston, R. I.	1928							73	103,025	1,048	3,710,249			
	1929	72	79,490			1	3,000	73	82,490	988	2,649,308	149		
Cumberland, Md.	1928	59	18,292			16	56,835	75	75,127	256	999,548		7	2,345
	1929	70	37,932	4	6,875	26	42,935	100	87,742	303	550,500	293		
Dallas, Tex.	1928	1,429	692,862			534	1,035,297	1,963	1,728,159	3,428	8,086,999		290	130,741
	1929	1,541	672,279			531	1,525,738	2,072	2,198,017	3,251	9,659,660	46	281	114,753
Danville, Ill.	1928	40	53,000			35	110,189	75	163,189	245	915,348			
	1929	33	49,532	4	4,450	42	800,537	79	354,519	228	1,129,976	237		
Davenport, Iowa	1928							819	389,379	1,235	1,349,741			
	1929	863	258,227	62	46,825	77	69,001	1,002	374,058	1,489	2,341,756	160		
Dayton, Ohio	1928	648	334,997			347	1,012,481	995	1,347,478	2,617	10,358,378			
	1929	656	293,264			301	1,573,084	957	1,866,348	2,017	6,342,675	67		
Decatur, Ill.	1928	169	124,235	13	38,500	53	99,900	235	262,635	1,184	4,169,345			
	1929	140	151,550			25	91,200	165	242,750	839	3,890,215	109		
Denver, Colo.	1928							3,529	1,657,750	6,154	16,770,750			
	1929					74	247,405	3,739	1,940,150	6,111	16,576,250	25	79	33,150
Des Moines, Iowa	1928	224	108,402			236	355,807	231	827,152	1,299	4,509,980			
	1929	167	139,289			114	687,863	6,847	11,601,945	1,171	4,081,628	105		
Detroit, Mich.	1928							7,162	15,539,183	28,541	128,200,235			
	1929					32	77,565	118	112,961	26,554	100,537,497	4		
Dubuque, Iowa	1928	86	35,396			580	98,568	580	98,568	323	877,386			
	1929					230	568,737	1,588	1,006,036	2,793	3,289,404	263	154	88,322
Duluth, Minn.	1928	1,358	437,299			134	362,005	1,180	305,983	1,700	3,685,729	113	37	20,286
	1929	951	372,091	75	71,887	32	132,538	143	232,950	1,632	9,905,838			
Durham, N. C.	1928	111	100,412			26	205,189	72	244,814	284	1,863,094			
	1929	42	34,525	4	4,500	20	166,703	159	355,405	421	3,481,904	187		
East Chicago, Ind.	1928	139	188,702			142	156,132	142	156,132	625	5,307,338	81		
	1929	142	156,132			38	69,381	77	110,291	236	1,789,252		25	64,605
East Cleveland, Ohio	1928	39	40,910			50	48,327	77	83,877	198	1,658,353	201	16	47,265
	1929	27	35,550			33	154,800	171	306,669	280	733,008			
Easton, Pa.	1928	135	133,669	3	18,200	86	139,419	283	308,410	394	2,004,751	176	108	7,440
	1929	194	158,191	3	10,800	164	139,279	424	366,373	928	7,632,385	207	207	24,301
East Orange, N. J.	1928	260	227,094			159	278,630	393	481,962	769	5,945,690	74	215	31,368
	1929	234	203,332			470		470	117,984	1,032	8,090,101			
East Providence, R. I.	1928					32	114,527	476	291,131	983	2,904,709	145		
	1929	444	176,604			113	186,485	171	216,608	1,003	2,706,934		91	22,874
East St. Louis, Ill.	1928	58	30,123			77	120,256	193	191,511	895	2,391,854	158	283	79,857
	1929	112	70,440	4	815	20	11,355	486	356,571	1,006	2,369,646			
Elgin, Ill.	1928	419	263,091	47	82,125			856	231,211	910	1,380,359	221		
	1929					2	25,000	7	30,500	787	5,503,600			
Elizabeth, N. J.	1928	5	5,500			108	118,694	344	231,273	731	4,094,700	104		
	1929					99	186,268	382	230,021	787	1,063,889			
Elkhart, Ind.	1928	236	112,579							756	1,060,637	250		
	1929	233	93,813											

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Elmira, N. Y.	1928	338	\$117,308	2	\$1,550	181	\$118,738	521	\$237,596	926	\$1,905,717			
	1929	345	129,656	4	2,875	203	240,833	552	373,364	901	1,518,697	209	252	\$34,119
El Paso, Tex.	1928							492	307,411	1,014	2,144,225			
	1929	300	144,267	3	875	166	179,263	469	324,405	1,181	4,324,851	99	215	48,964
Erie, Pa.	1928	472	344,299	27	195,795	166	377,060	665	917,154	1,779	4,763,688			
	1929	462	271,548			192	2,432,634	654	2,704,182	1,694	6,431,038	65	1	1,000
Evanston, Ill.	1928	245	538,700			91	333,350	336	872,050	1,040	13,178,225			
	1929	220	559,400			83	304,950	303	864,350	736	8,196,300	53		
Evansville, Ind.	1928	780	192,251			89	138,473	969	330,724	1,805	5,110,814			
	1929	493	146,068			73	179,817	566	325,885	1,354	4,420,660	97	3,411	887,874
Everett, Mass.	1928	213	54,218			20	184,683	233	238,901	535	1,760,759			
	1929	194	51,000			24	258,202	218	309,202	418	1,124,532	238		
Everett, Wash.	1928							152	609,000		1,186,590			
	1929	169	59,935			193	537,836	362	597,270	690	1,207,935	231		
Fall River, Mass.	1928	124	83,605			144	205,655	268	597,270	592	2,835,644			
	1929	176	73,088			143	192,691	319	235,779	607	792,256	268		
Fitchburg, Mass.	1928	45	27,610			29	224,635	74	235,344	230	546,360			
	1929	63	44,323			24	191,021	87	235,344	230	546,360	294		
Flint, Mich.	1928	1,767	583,942			684	726,635	2,451	1,310,577	6,700	14,422,729			
	1929	2,006	651,369			766	1,289,169	2,772	1,940,538	6,717	14,664,493	31		
Fond du Lac, Wis.	1928	167	56,914			14	28,585	181	85,499	434	579,130			
	1929	160	83,300			70	64,645	230	147,945	445	795,047	267	10	1,675
Fort Wayne, Ind.	1928	289	213,401	2	89,000	132	424,287	423	726,688	1,646	5,011,124			
	1929	295	186,217	3	4,800	137	1,054,514	435	1,245,531	1,927	7,039,292	60		
Fort Worth, Tex.	1928	1,843	883,310	263	255,762	459	220,778	2,566	1,459,850	4,560	11,543,787			
	1929	1,456	708,303	187	220,748	37	62,878	1,680	991,929	3,237	11,262,046	44	157	53,904
Fresno, Calif.	1928	440	141,185			442	314,728	1,882	455,913	1,272	11,661,565			
	1929							1,369	534,330	1,754	1,698,773	197		
Galveston, Tex.	1928	1,497	203,605	8	13,000	124	151,641	1,624	868,246	2,243	2,676,808		72	7,039
	1929	1,123	181,913			196	157,907	1,319	339,820	1,895	3,613,162	116	51	5,926
Gary, Ind.	1928							875	800,275	1,966	6,041,150		25	21,065
	1929	375	394,500	35	146,865	38	78,000	458	619,365	1,162	3,146,335	133	22	11,410

Grand Rapids, Mich.	1928	2,599	655,650			261	1,095,860	2,860	1,751,510	5,401	8,186,755		304	43,539
	1929	2,063	494,470			166	890,955	2,259	1,075,425	4,415	6,085,985	78	651	128,065
Great Falls, Mont.	1928	156	80,260			29	53,570	185	133,530	542	2,659,482			
	1929	175	108,165			56	142,965	230	251,130	722	3,456,602	123		
Green Bay, Wis.	1928							232	160,000	683	1,991,891		158	62,575
	1929	237	135,808			14	109,310	251	265,118	694	3,328,825	130	193	103,161
Greensboro, N. O.	1928	406	181,658	3	26,200	136	320,293	545	528,151	1,179	5,048,295			
	1929	242	100,591			115	339,531	357	440,422	710	3,133,865	134		
Greenville, S. C.	1928	231	126,048			98	116,643	329	242,661	591	1,440,143		8	2,200
	1929	239	67,404	6	2,390	90	143,454	344	213,248	493	1,171,103	234	5	11,175
Greenwich, Conn.	1928	111	494,465			55	373,170	166	867,635	610	6,604,380			
	1929	128	544,705			49	57,325	177	602,040	625	6,841,641	64		
Hagerstown, Md.	1928	70	88,293			36	126,741	106	215,034	334	677,234			
	1929	38	16,470			15	55,600	53	72,070	262	756,946	273		
Hamilton, Ohio	1928	195	121,034			26	21,065	221	142,069	841	2,063,033			
	1929	150	45,200			117	620,394	267	665,594	756	2,411,352	156		
Hammond, Ind.	1928	187	268,500			27	200,800	214	469,300	1,055	6,527,280			
	1929	192	202,450	5	12,500	26	191,200	223	406,150	777	4,154,300	102		
Hamtramck, Mich.	1928	234	165,405			15	122,640	249	288,045	518	1,344,975		50	5,500
	1929	354	270,265	14	54,500	5	147,650	373	472,415	643	1,065,615	148		
Harrisburg, Pa.	1928	222	286,840	10	38,700	110	555,600	342	881,140	844	5,594,775			
	1929	218	222,675	8	57,650	137	643,075	363	923,400	778	7,957,530	55		
Hartford, Conn.	1928	650	378,662			422	1,505,595	1,072	1,884,257	1,931	11,278,443			
	1929	1,024	813,172			708	3,081,385	1,732	3,994,557	2,192	16,144,354	26	444	619,022
Haverhill, Mass.	1928	40	41,225	6	17,300	41	51,350	87	109,875	324	554,065			
	1929	71	72,435			58	91,920	129	164,355	336	390,640	306		
Hazleton, Pa.	1928	68	98,627			23	84,395	91	183,022	207	1,195,010			
	1929	60	91,474			3	58,871	63	150,345	137	448,247	301		
Highland Park, Mich.	1928							195	928,110	882	2,603,277		725	1,463
	1929							215	289,855	883	2,327,370	162	808	16,606
Hoboken, N. J.	1928	156	90,610			41	153,563	197	244,173	239	564,963			
	1929	192	187,442			56	222,035	248	409,477	265	747,877	274		
Holyoke, Mass.	1928	87	81,625			54	265,775	141	347,400	350	1,261,100			
	1929	102	128,720			73	396,350	175	527,070	298	1,256,295	228		
Houston, Tex.	1928	1,081	466,766			733	295,807	1,814	710,563	6,072	35,309,503			
	1929							531	538,214	3,972	29,133,254	14		
Huntington, W. Va.	1928	32	12,000			10	40,000	42	52,000	270	981,600			
	1929	63	12,060			10	30,000	73	42,060	306	1,455,360	215		
Hutchinson, Kans.	1928	178	72,710			36	129,012	214	201,722	651	1,269,112			
	1929	120	53,875			18	19,710	138	73,585	452	1,586,482	205		
Indianapolis, Ind.	1928							5,631	2,612,813	10,217	21,967,386		719	1,120,836
	1929							3,686	1,658,626	6,785	14,543,583	30	904	766,203
Irvington, N. J.	1928	109	60,746			30	22,295	139	83,041	903	6,639,294			
	1929	119	80,785			42	91,785	161	172,570	567	2,134,243	170		
Jackson, Mich.	1928	416	145,294			107	401,102	523	546,396	1,230	2,097,086			
	1929	423	151,222			126	627,651	549	778,873	1,227	3,492,043	121		
Jacksonville, Fla.	1928	1,016	417,228			501	424,341	1,417	841,569	3,431	7,660,159		745	193,561
	1929	915	313,205			604	636,140	1,519	949,245	2,557	4,580,137	92	1,201	230,220
Jamestown, N. Y.	1928	328	117,207			171	174,678	499	291,880	917	1,846,670			
	1929	332	95,072	1	36,000	164	206,946	497	341,018	936	1,927,203	183		
Jersey City, N. J.	1928	163	344,815			530	588,235	693	933,050	1,375	13,876,244		76	200,050
	1929	303	367,133			328	772,445	631	1,139,678	1,219	14,684,804	32	266	60,026

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Johnstown, Pa.	1928	247	\$94,833			56	\$38,920	303	\$133,753	556	\$1,095,094		5	\$1,025
	1929	225	110,517			67	103,010	292	213,527	522	682,341	282		
Joliet, Ill.	1928	322	246,875	38	\$35,167	31	25,750	391	307,792	607	3,081,620			
	1929							329	415,322	575	3,333,682	129		
Joplin, Mo.	1928	192	108,396			47	63,950	239	172,346	469	1,403,739			
	1929	131	54,955			35	22,300	166	77,255	313	645,180	287		
Kalamazoo, Mich.	1928	1,015	204,584			51	270,802	1,066	475,386	1,513	2,034,864			
	1929	917	197,352			39	180,540	956	377,892	1,349	2,409,585	157		
Kansas City, Kans.	1928							397	88,825	1,043	1,651,277			
	1929							334	79,740	867	1,844,411	189	94	10,450
Kansas City, Mo.	1928	359	342,165	58	53,600	255	406,235	652	802,000	2,345	15,541,275		576	351,975
	1929							490	907,950	1,946	14,844,550	29	448	310,250
Kearny, N. J.	1928	81	45,480	2	150	23	90,800	106	136,430	679	6,251,590		24	4,200
	1929	93	61,619	2	435	21	24,140	116	86,194	512	3,847,528	110	58	3,610
Kenosha, Wis.	1928	250	350,000	7	745	10	84,000	267	434,745	894	3,726,404		337	272,220
	1929							319	392,174	945	4,577,074	93	401	253,953
Kingston, N. Y.	1928	312	142,959	3	38,390	45	535,435	360	716,784	713	1,736,790			
	1929	308	140,684	1	150,000	33	275,160	342	565,844	566	1,135,464	236		
Knoxville, Tenn.	1928							852	329,796	2,138	7,114,537			
	1929							362	175,467	1,220	5,495,852	80	25	46,378
Kokomo, Ind.	1928							71	67,653	420	526,666			
	1929	219	82,830			55	137,015	274	219,545	673	1,347,891	222		
Lakewood, Ohio.	1928	120	99,800			21	10,250	141	110,050	625	4,622,096		280	21,766
	1929	100	55,490			17	43,500	117	98,990	550	1,830,390	190	160	115,200
Lancaster, Pa.	1928	228	115,640			107	744,540	335	860,180	647	2,389,075			
	1929	254	151,093	15	5,020	49	311,025	318	467,138	671	1,981,696	179		
Lansing, Mich.	1928	301	156,755			97	127,930	398	284,685	1,340	5,204,347			
	1929							471	547,625	1,308	8,737,894	50		
Lawrence, Mass.	1928	27	64,860			55	110,275	82	175,135	222	602,635			
	1929							119	399,440	241	854,496	262		
Lebanon, Pa.	1928	31	47,575			15	209,750	46	257,325	131	660,325			
	1929	30	38,000			19	54,000	49	92,000	168	792,000	269		



Lewiston, Me.	1928	10	3,600		1	1,500	11	5,000	66	990,000									
	1929	14	80,000				14	80,000	75	466,300	297								
Lexington, Ky.	1928	177	87,686		86	131,613	263	169,299	558	1,617,418		9	2,660						
	1929	291	83,818		162	367,610	453	451,428	745	2,115,552	172	7	2,145						
Lima, Ohio	1928	189	57,297	2	1,585	59	100,335	50	159,217	432	454,434	4	5,000						
	1929	223	56,840		42	197,550	265	254,390	397	431,115	303								
Lincoln, Nebr.	1928	174	93,195		23	99,300	197	192,495	1,070	3,643,349									
	1929	160	100,905		39	129,835	199	230,740	980	2,560,098	151								
Little Rock, Ark.	1928	733	266,241		139	189,344	872	455,585	1,528	4,260,108									
	1929	655	252,363		176	388,896	831	641,259	1,376	3,268,217	131								
Long Beach, Calif.	1928	741	335,135		568	365,105	1,309	700,240	4,988	16,307,825		573	84,010						
	1929						1,291	616,575	4,949	18,043,815	24	689	105,770						
Lorain, Ohio	1928	77	42,580		36	55,090	113	97,660	606	1,177,374									
	1929	92	37,990		45	166,670	137	204,660	526	898,121	250								
Los Angeles, Calif.	1928						12,749	10,398,822	33,195	101,678,768									
	1929						14,358	12,200,929	31,722	93,020,160	5								
Louisville, Ky.	1928						932	2,657,955	3,215	18,120,075		10,813	3,120,276						
	1929	589	122,640		138	2,026,270	727	2,148,910	2,466	13,204,910	36	8,940	3,326,747						
Lowell, Mass.	1928	255	97,465		141	213,480	396	310,945	633	941,750									
	1929	258	81,510	2	2,800	179	320,715	439	405,025	676	703,575	279							
Lynchburg, Va.	1928	220	71,180		93	105,659	313	176,839	583	1,093,083		8	1,250						
	1929	192	75,783		73	108,459	265	184,242	464	1,002,777	254	12	4,100						
Lynn, Mass.	1928	416	353,005		169	592,530	585	945,535	1,279	3,786,804									
	1929	366	278,591		175	777,730	541	1,056,321	1,133	3,941,899	108								
McKeesport, Pa.	1928	879	253,000	1	5,000	69	81,909	949	339,909	1,325	2,184,985		544	178,683					
	1929	796	207,602		169	160,613	955	368,215	1,320	1,674,208	198	531	192,567						
Macon, Ga.	1928						1,338	352,449	1,817	2,349,689		101	22,159						
	1929						1,253	385,723	1,416	987,625	256	125	26,913						
Madison, Wis.	1928	450	261,048		83	508,299	533	769,347	1,475	7,630,114									
	1929	430	219,831		95	468,325	525	698,156	1,155	4,974,483	88								
Malden, Mass.	1928	167	97,139		62	99,958	229	197,097	630	2,892,944									
	1929	170	161,976		72	63,760	242	225,736	534	1,893,948	184								
Manchester, N. H.	1928						598	231,359	970	1,053,719									
	1929	421	98,408		245	258,136	666	356,539	1,044	1,241,253	230								
Mansfield, Ohio	1928	118	43,477		58	97,342	176	140,819	544	1,808,874									
	1929	108	37,412		59	216,390	165	253,802	518	1,116,955	241								
Marion, Ind.	1928	78	55,000	2	1,500	8	88	63,500	360	1,307,160									
	1929	167	64,460	11	7,000	12	4,650	190	76,110	305	302,300	309							
Marion, Ohio	1928						64	33,940	701	1,140,285									
	1929						63	15,490	357	507,170	295								
Medford, Mass.	1928	193	112,071		44	78,125	237	190,196	1,131	4,514,833									
	1929	164	80,505		44	571,305	208	651,810	904	3,483,495	122								
Memphis, Tenn.	1928						1,872	2,059,625	4,005	14,233,039		936	1,020,043						
	1929						1,469	1,396,649	3,178	8,061,546	54	1,236	1,103,072						
Meriden, Conn.	1928						697	258,795	975	1,268,721									
	1929						477	204,670	769	1,276,230	227								
Miami, Fla.	1928	460	314,806	14	4,495	441	863,575	1,668	1,946,083	115	524	69,276							
	1929	1,043	336,628		836	623,540	1,870	860,168	2,511	3,615,016		643	266,331						
Milwaukee, Wis.	1928						2,136	3,641,787	7,258	35,406,381		24,105	9,082,880						
	1929						2,529	5,662,819	7,501	37,047,243	8	26,086	8,896,890						
Minneapolis, Minn.	1928						2,360	3,200,165	6,580	23,257,725									
	1929						2,689	4,469,775	6,054	20,960,135	22								

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Moble, Ala.	1928						491	\$187,508	1,647	\$3,345,818				
	1929						709	182,423	1,055	1,666,888	200			
Moline, Ill.	1928	563	\$117,337	7	\$6,025	87	\$77,973	657	201,335	954	1,659,775			
	1929	586	147,618	7	6,275	127	231,962	720	385,756	1,063	2,224,519	167	22	\$55,159
Montclair, N. J.	1928							268	524,233	804	4,643,268			
	1929							292	793,812	681	3,369,971	128		
Montgomery, Ala.	1928							1,744	307,820	2,916	3,288,918			
	1929							1,748	422,209	2,320	2,768,599	146		
Mount Vernon, N. Y.	1928	138	251,389			124	360,175	262	611,564	946	14,262,449			
	1929	157	238,270			110	1,395,343	267	1,633,613	577	6,179,243	69		
Muncie, Ind.	1928	1,259	348,025			61	104,104	1,320	452,129	2,321	2,874,148		79	8,993
	1929	1,273	387,229			81	77,224	1,354	464,463	2,236	2,061,167	173	52	4,744
Muskegon, Mich.	1928							595	277,328	990	1,810,335			
	1929							527	404,089	1,046	2,475,404	153		
Muskogee, Okla.	1928	30	31,255			15	4,000	45	35,255	259	565,585			
	1929	21	15,140			20	67,290	41	72,430	167	426,161	304	7	2,950
Nashville, Tenn.	1928							1,280	670,694	2,227	5,564,643		235	167,770
	1929							1,555	1,038,833	2,327	5,695,045	77	219	34,480
Newark, N. J.	1928	769	1,290,247			424	3,603,141	1,193	4,893,888	2,972	34,285,153		1,210	1,998,551
	1929	769	1,191,709			508	3,725,787	1,277	4,917,496	2,763	28,838,220	16	1,388	1,728,676
Newark, Ohio	1928							64	28,600	352	1,066,916			
	1929	53	21,895			3	1,100	56	22,995	284	677,560	283		
New Bedford, Mass.	1928	271	154,870			136	131,752	407	286,622	681	1,095,375			
	1929	226	113,150			107	112,225	333	225,375	681	788,555	270		
New Britain, Conn.	1928							642	642,609	1,227	3,532,117			
	1929	573	294,197			206	22,229	779	316,426	1,051	1,015,799	244	137	68,500
New Brunswick, N. J.	1928	74	165,833	27	131,810	27	128,752	123	426,395	386	2,184,065			
	1929	64	82,646	1	1,000	51	91,970	116	175,616	279	1,560,619	207		
Newburgh, N. Y.	1928	81	53,650			58	195,042	139	248,692	345	1,237,967			
	1929	77	77,700			46	172,427	123	250,127	285	1,102,347	245		
New Castle, Pa.	1928	118	57,910			51	49,580	169	107,500	593	1,466,240			
	1929	101	42,810			29	73,690	180	115,900	445	1,109,785	242	30	1,235

New Haven, Conn.	1928	333	386,000			337	683,000	679	1,019,000	1,330	3,798,394		369	84,659
	1929							706	1,169,126	1,323	12,762,246	87	459	74,708
New London, Conn.	1928	150	134,982			50	134,205	200	299,187	565	2,188,652		89	1,170
	1929	146	121,670			44	158,030	190	277,700	433	1,611,158	204		
New Orleans, La.	1928	744	1,191,215			532	1,578,279	1,276	2,769,494	2,882	12,627,678			
	1929							914	1,982,920	1,933	11,970,850	40		
Newport, Ky.	1928	72	36,565	2	7,250	25	123,325	99	167,140	194	426,950			
	1929	36	26,675			5	4,300	41	80,975	109	290,750	310	1	250
Newport, R. I.	1928	102	55,483			66	60,060	168	115,545	384	680,065			
	1929							169	210,745	419	1,646,975	202		
Newport News, Va.	1928	771	101,687			417	117,507	1,188	219,194	1,439	819,305			
	1929	773	75,470			399	237,596	1,172	313,066	1,521	769,627	272		
New Rochelle, N. Y.	1928							250	847,046	845	11,233,318			
	1929							319	922,663	740	7,584,939	56	231	75,314
Newton, Mass.	1928	327	454,847			118	252,826	445	707,673	1,676	10,802,078		10	5,565
	1929	341	468,704			128	237,670	469	706,374	1,387	6,857,045	63		
New York City, N. Y.:														
The Bronx	1928	466	1,310,380			6,060	5,608,924	6,526	6,919,304	10,959	189,824,853		3,053	1,091,960
	1929	493	1,442,934			4,689	4,742,533	5,182	6,185,467	7,811	95,666,174		1,369	416,883
Brooklyn	1928	4,879	5,958,775	55	2,165,350	1,672	7,397,930	6,606	15,522,055	18,358	198,284,905			
	1929	4,826	5,044,095	45	102,175	1,717	10,774,185	6,588	15,920,455	13,271	146,015,664		3,448	1,009,079
Manhattan	1928	1,478	7,704,466	187	10,778,760	1,212	19,326,422	2,877	37,809,648	3,787	361,723,068			
	1929	1,254	6,858,925	246	8,331,576	1,353	31,992,659	2,853	47,183,160	3,692	595,522,025		1	
Queens	1928	2,525	1,384,191			964	4,383,438	3,489	5,767,629	22,101	151,565,804			
	1929	3,000	1,473,888	13	76,650	1,481	6,205,516	4,494	7,756,054	16,152	94,509,667		783	630,120
Richmond	1928	508	391,965			409	298,323	917	690,288	3,766	15,273,225			
	1929	563	451,270			328	437,607	891	888,877	2,868	10,583,689		80	30,580
Niagara Falls, N. Y.	1928	412	223,079	21	88,595	214	282,651	647	599,325	1,577	4,869,478			
	1929	693	251,039	14	20,560	304	432,138	1,011	703,737	1,805	5,070,592	85	264	80,972
Norfolk, Va.	1928	345	175,430			185	316,410	530	491,840	1,333	3,839,743		397	48,767
	1929							468	547,086	1,185	2,730,206	147	367	62,011
Norristown, Pa.	1928	191	116,405			113	197,535	304	313,940	551	1,294,965		60	27,101
	1929	218	94,288			104	203,967	322	298,255	598	1,880,059	166	44	20,950
Norwalk, Conn.	1928	280	265,865			114	289,875	394	555,740	980	4,781,703			
	1929	268	269,060			101	138,975	869	408,035	908	3,529,745	120		
Oakland, Calif.	1928							2,177	1,713,163	5,092	19,537,165			
	1929							2,167	1,935,181	4,264	14,396,188	33	489	115,553
Oak Park, Ill.	1928	135	123,382			18	92,862	153	216,244	836	9,270,495			
	1929	116	130,715	1	5,000	17	95,100	134	230,815	529	5,720,895	76		
Ogden, Utah	1928	33	29,500	1	1,200	23	115,200	57	145,900	239	1,348,225		22	249
	1929	30	37,750	1	3,000	19	148,750	60	189,500	172	700,695	280	6	9,525
Oklahoma City, Okla.	1928	891	218,052	2	6,000	151	1,030,316	594	1,254,368	3,965	13,521,998		177	45,435
	1929	640	323,930	13	436,525	125	1,262,120	678	2,022,575	4,280	22,500,630	19	297	72,590
Oklmulgee, Okla.	1928	10	8,950			16	16,400	26	25,350	57	252,965			
	1929	14	12,530			17	44,920	31	57,750	55	141,950	311		
Omaha, Nebr.	1928	157	119,102			121	509,235	278	623,337	1,169	9,050,410			
	1929	129	126,195			128	1,712,430	257	1,833,625	1,046	5,581,497	79		
Orange, N. J.	1928							333	398,409	542	3,106,499			
	1929							370	413,715	492	2,366,097	159	24	47,705
Oshkosh, Wis.	1928	241	103,336			141	62,586	332	165,922	733	852,846		48	11,996
	1929	143	86,149			24	214,820	167	124,869	466	780,044	271		

GENERAL TABLE

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TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Ottumwa, Iowa.....	1928	83	\$48,375	-----	-----	7	\$16,950	90	\$55,325	190	\$398,775	-----	121	\$27,045
	1929	79	47,375	-----	-----	1	20,000	80	67,375	165	717,525	278	-----	-----
Paducah, Ky.....	1928	74	43,525	-----	-----	14	37,490	88	81,015	228	608,065	-----	-----	-----
	1929	26	16,515	-----	-----	6	104,375	32	120,890	157	345,065	307	-----	-----
Pasadena, Calif.....	1928	-----	-----	-----	-----	-----	-----	1,420	893,300	2,452	5,949,553	-----	-----	-----
	1929	-----	-----	-----	-----	-----	-----	2,693	1,498,469	3,834	6,986,704	62	-----	-----
Passaic, N. J.....	1928	347	204,425	-----	-----	265	284,036	612	488,461	975	3,061,518	-----	625	103,585
	1929	379	192,762	-----	-----	320	293,747	699	486,509	976	4,869,749	90	621	53,570
Paterson, N. J.....	1928	-----	-----	-----	-----	-----	-----	1,474	1,142,027	2,258	7,356,691	-----	24	23,625
	1929	-----	-----	-----	-----	-----	-----	1,510	1,138,710	2,123	4,871,609	89	46	51,566
Pawtucket, R. I.....	1928	129	96,375	-----	-----	61	296,055	190	392,430	991	2,822,589	-----	-----	-----
	1929	154	99,645	-----	-----	78	193,110	232	282,755	904	1,994,925	177	-----	-----
Peoria, Ill.....	1928	120	271,115	-----	-----	104	268,850	524	539,965	1,418	3,951,270	-----	-----	-----
	1929	-----	-----	-----	-----	-----	-----	413	468,592	1,207	3,603,660	118	-----	-----
Perth Amboy, N. J.....	1928	190	439,237	-----	-----	6	18,100	196	457,337	394	1,307,359	-----	-----	-----
	1929	-----	-----	-----	-----	-----	-----	159	388,760	364	1,671,126	199	18	2,690
Petersburg, Va.....	1928	50	35,336	-----	-----	27	116,525	77	151,861	194	568,628	-----	-----	-----
	1929	49	27,556	-----	-----	27	41,768	76	69,324	186	604,153	300	515	30,320
Philadelphia, Pa.....	1928	4,940	4,904,210	-----	-----	1,691	7,298,500	6,631	12,202,710	16,423	112,225,865	-----	224	78,935
	1929	-----	-----	-----	-----	-----	-----	4,392	9,151,455	10,388	104,405,545	3	3,167	1,823,370
Phoenix, Ariz.....	1928	288	114,903	-----	-----	139	257,598	427	372,501	1,259	5,976,662	-----	55	8,963
	1929	341	123,450	-----	-----	167	292,145	508	415,595	1,446	5,234,777	82	97	13,888
Pittsburgh, Pa.....	1928	2,681	1,997,640	79	\$365,470	559	1,787,053	3,319	4,150,203	7,070	39,373,532	-----	-----	-----
	1929	2,269	2,498,646	-----	-----	628	4,630,480	2,895	7,129,126	6,128	35,638,867	10	-----	-----
Pittsfield, Mass.....	1928	124	83,315	-----	-----	64	71,900	188	155,215	552	1,813,130	-----	31	3,800
	1929	134	109,255	1	150,000	54	529,150	189	788,405	636	3,403,680	127	-----	-----
Plainfield, N. J.....	1928	182	186,863	1	1,000	112	218,760	295	406,623	966	3,464,771	-----	152	22,108
	1929	116	111,623	-----	-----	143	311,231	259	422,859	607	2,010,023	175	68	5,185
Pontiac, Mich.....	1928	521	226,345	-----	-----	77	251,635	598	477,980	2,851	13,115,226	-----	59	10,342
	1929	514	270,063	-----	-----	120	208,605	694	478,698	2,299	6,218,915	68	-----	-----
Port Arthur.....	1928	-----	-----	-----	-----	-----	-----	766	234,916	1,207	1,881,236	-----	49	3,638
	1929	-----	-----	-----	-----	-----	-----	730	487,147	972	1,978,579	180	76	11,251
Port Huron, Mich.....	1928	15	40,250	-----	-----	8	21,475	23	31,725	140	461,175	-----	-----	-----
	1929	27	19,875	-----	-----	14	46,565	41	66,440	119	328,860	308	-----	-----

Portland, Me.	1928	488	159,820	44	30,140	253	330,634	815	520,094	1,851	2,788,886			
	1929	466	111,550	11	2,885	327	711,067	794	825,502	1,214	2,133,188	171		
Portland, Oreg.	1928	3,891	1,271,906			1,044	1,596,625	4,935	2,868,530	9,567	21,275,970			
	1929	3,145	1,178,335			1,425	1,659,510	4,570	2,837,845	7,646	15,503,680	27		
Portsmouth, Ohio	1928	130	49,470			35	52,415	165	101,885	447	1,271,096			
	1929	180	49,635			55	45,449	205	95,084	420	718,096	277		
Portsmouth, Va.	1928	232	133,941			26	19,645	288	153,588	472	688,531		34	11,500
	1929	194	101,630	1	2,000	36	70,445	231	174,075	386	407,377	305	18	5,945
Poughkeepsie, N. Y.	1928	52	48,261			26	156,440	78	204,701	276	1,664,820			
	1929	54	53,188			73	201,075	127	254,263	282	1,622,188	203		
Providence, R. I.	1928	2,524	1,163,700			573	1,667,325	3,097	2,831,025	4,979	16,003,519			
	1929	2,666	1,310,145			736	1,912,600	3,402	3,222,745	5,046	14,943,495	28		
Pueblo, Colo.	1928							730	295,829	1,458	1,466,812			
	1929							682	450,117	1,281	1,572,455	206		
Quincy, Ill.	1928	68	117,686	1	53,535	2	9,000	71	180,221	369	1,276,957			
	1929							73	66,145	321	831,750	264		
Quincy, Mass.	1928	874	281,934			62	82,506	936	364,440	2,335	6,870,012		11	49,285
	1929	801	246,685			81	553,610	882	800,295	1,920	4,216,542	101		
Racine, Wis.	1928	155	156,206	1	2,500	46	124,645	202	283,351	1,078	4,417,489		677	75,300
	1929							396	479,234	1,264	4,782,777	91	584	617
Reading, Pa.	1928	1,185	319,804	2	4,600	321	674,550	1,508	998,954	2,179	3,808,320		43	17,989
	1929	1,450	416,440	8	30,859	439	544,425	1,897	991,724	2,483	6,110,566	72	111	50,725
Revere, Mass.	1928							152	108,245	454	1,227,142			
	1929	216	163,690			28	28,750	244	192,440	452	730,375	275		
Richmond, Ind.	1928	212	122,440			68	115,266	280	237,706	575	940,723			
	1929	192	82,165			74	202,598	266	284,763	540	1,063,252	249	4	220
Richmond, Va.	1928	553	294,415	7	5,374	396	965,806	956	1,265,595	2,317	8,844,881			
	1929	590	285,669	6	2,950	346	936,131	942	1,224,750	2,151	9,146,225	48		
Roanoke, Va.	1928	289	110,092			26	61,000	315	171,092	880	3,279,423		2	1,025
	1929	238	62,355			46	173,195	284	235,550	700	2,219,829	168	6	6,325
Rochester, N. Y.	1928	737	531,950			923	1,404,936	1,660	1,936,886	4,542	17,620,798			
	1929	636	298,432			812	1,799,597	1,448	2,098,029	3,429	13,303,261	35		
Rockford, Ill.	1928	391	296,322			262	1,158,595	653	1,454,917	1,875	5,736,642			
	1929	278	136,855			276	684,405	554	821,260	1,652	5,083,442	84	1	150
Rock Island, Ill.	1928	833	1,006,484	19	61,000	28	12,245	880	1,079,729	1,183	1,583,242			
	1929							1,127	2,111,311	1,530	2,911,650	142		
Sacramento, Calif.	1928	227	622,398			537	227,510	764	849,908	1,859	5,524,332		227	73,800
	1929	67	280,850			244	434,924	311	715,774	1,101	4,381,389	98	120	27,855
Saginaw, Mich.	1928	420	195,446			104	282,467	524	477,913	1,658	4,349,585			
	1929	525	234,052			187	236,620	712	470,672	1,801	3,120,772	136		
St. Joseph, Mo.	1928	46	83,985			24	41,990	70	125,975	284	2,004,618			
	1929							274	548,299	558	1,404,445	219		
St. Louis, Mo.	1928	2,882	1,407,943	37	146,220	1,830	3,059,003	4,749	4,613,166	12,627	42,828,495			
	1929	2,500	1,027,662	17	396,610	1,213	3,545,790	3,730	4,970,062	9,533	27,073,669	17	614	257,054
St. Paul, Minn.	1928	1,598	825,340			854	847,615	2,482	1,672,955	4,999	8,699,513		67	38,151
	1929							2,929	2,278,589	5,055	9,365,275	47	109	309,146
St. Petersburg, Fla.	1928	342	194,400			111	111,700	453	306,100	954	1,846,100			
	1929	369	409,900			129	105,800	498	515,700	763	1,445,900	216		
Salem, Mass.	1928	477	251,650			123	144,910	600	396,560	830	1,719,685			
	1929	420	494,303			94	109,165	514	603,498	704	1,835,208	185		
Salt Lake City, Utah.	1928	183	131,485			144	1,215,293	327	1,346,778	1,024	5,277,404			
	1929	190	146,118			128	871,076	318	1,017,193	1,089	5,690,591	78		

TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued

PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
San Antonio, Tex.	1928						193	\$448,890	1,423	\$1,567,609	4,284	\$18,300,359		
	1929	1,622	\$1,216,287					1,815	1,665,177	4,550	18,070,350	23	32	\$5,715
San Diego, Calif.	1928							2,250	839,198	5,150	12,150,138		797	222,462
	1929							1,753	754,168	3,911	11,414,833	42	774	168,905
San Francisco, Calif.	1928	2,720	1,458,776	24	\$103,153	847	\$2,120,229	3,591	3,682,158	6,648	37,504,438		1,408	261,925
	1929	2,346	1,419,606	76	396,105	1,280	2,853,164	3,702	4,668,875	5,505	33,426,317	11	1,615	255,708
San Jose, Calif.	1928	260	108,925			135	199,365	395	308,290	948	2,541,300		119	20,450
	1929	273	131,975			151	171,175	424	303,150	937	2,428,185	155	114	68,980
Savannah, Ga.	1928							117	127,095	525	2,137,134		11	1,540
	1929							91	142,742	317	1,122,012	239		
Schenectady, N. Y.	1928	266	208,085	5	20,000	138	238,325	409	466,410	1,175	3,428,450			
	1929	381	232,650			229	351,475	610	584,125	1,341	3,430,850	125		
Scranton, Pa.	1928							633	1,034,250	1,189	4,632,243			
	1929							481	940,190	880	2,947,264	141	60	10,907
Seattle, Wash.	1928							4,538	4,266,960	9,512	34,806,975			
	1929							4,100	6,853,450	7,924	29,101,450	15	35	3,325
Sheboygan, Wis.	1928	521	181,544	1	500	163	330,510	685	512,554	1,166	2,108,719		492	204,730
	1929	452	162,519			175	153,114	627	315,633	1,019	1,467,998	212	498	183,230
Shreveport, La.	1928	1,447	378,890	8	6,335	537	421,859	1,992	807,084	2,921	4,846,425		160	34,555
	1929	1,499	337,404			548	621,555	2,047	958,959	2,838	3,535,381	119	180	30,741
Sioux City, Iowa	1928	105	48,955			58	155,425	163	204,380	799	2,170,440			
	1929	108	51,490			45	338,625	153	390,115	748	3,130,368	135		
Sioux Falls, S. Dak.	1928	20	20,810	20		20	140,375	40	161,185	299	2,004,725		1	4,400
	1929	115	173,590			21	185,850	136	359,440	444	1,952,940	182		
Somerville, Mass.	1928	184	82,867			49	167,385	233	220,252	407	1,424,197			
	1929	262	140,373			120	163,450	382	303,823	639	3,076,154	138		
South Bend, Ind.	1928	550	200,695			57	130,075	607	330,770	2,524	6,363,185			
	1929	548	187,260			45	218,075	593	405,335	2,445	7,014,705	61		
Spokane, Wash.	1928	601	257,450	2	1,000	220	599,265	823	857,715	2,187	5,736,778			
	1929	767	300,389	5	230,780	244	518,365	1,016	1,049,534	2,241	4,147,860	103	5	1,350
Springfield, Ill.	1928	373	183,658			96	236,370	474	420,028	1,195	3,739,153		26	44,195
	1929	467	204,468			85	173,430	552	877,898	1,101	3,112,006	137	23	47,635

Springfield, Mass.	1928	157	120, 802	23	183, 760	161	765, 913	341	1, 020, 475	1, 539	5, 976, 799			
	1929	189	169, 140	33	364, 660	199	623, 706	421	1, 157, 506	1, 367	5, 095, 049	83		
Springfield, Mo.	1928	181	90, 595	1	4, 000	61	155, 025	193	249, 620	628	1, 615, 655			
	1929	107	68, 550	7	8, 150	55	221, 180	169	297, 880	522	1, 624, 521	208		
Springfield, Ohio	1928							272	149, 203	1, 017	1, 556, 767			
	1929	270	103, 340			78	51, 971	348	155, 311	1, 006	1, 750, 421	195		
Stamford, Conn.	1928	165	200, 615			99	985, 053	264	1, 185, 678	834	5, 195, 278		124	106, 710
	1929	153	232, 225			111	316, 100	264	548, 325	882	4, 504, 948	95	86	26, 459
Steubenville, Ohio	1928	85	28, 265			12	13, 550	97	41, 815	423	1, 193, 410			
	1929	121	53, 025			32	44, 000	153	97, 025	415	1, 186, 000	232		
Stockton, Calif.	1928	171	94, 003	4	5, 050	123	264, 671	298	363, 724	926	1, 774, 866		113	23, 972
	1929	177	96, 395	8	73, 300	156	227, 013	341	396, 708	709	1, 432, 088	218	73	11, 966
Superior, Wis.	1928	232	98, 657			48	87, 790	280	186, 447	614	1, 352, 152			
	1929	244	103, 427	4	8, 710	40	180, 529	288	292, 666	557	1, 183, 264	233		
Syracuse, N. Y.	1928	465	439, 140	3	83, 000	261	836, 686	729	1, 358, 826	3, 103	13, 220, 429			
	1929	436	358, 460	7	763, 684	263	1, 290, 594	706	2, 412, 738	2, 512	11, 266, 705	43	4	2, 190
Tacoma, Wash.	1928							1, 198	633, 945	2, 341	4, 660, 415			
	1929	1, 044	255, 475			816	352, 780	1, 360	608, 255	2, 538	4, 053, 050	106	1, 080	335, 410
Tampa, Fla.	1928	1, 698	316, 302			649	258, 722	2, 347	575, 024	3, 637	3, 617, 054		133	24, 055
	1929	1, 232	211, 359			578	334, 228	1, 810	545, 587	2, 405	1, 858, 420	188	167	58, 127
Taunton, Mass.	1928	150	48, 732	2	912	105	64, 606	257	114, 250	484	882, 497			
	1929	147	56, 174			111	68, 732	258	124, 906	468	572, 902	291		
Terre Haute, Ind.	1928	1, 032	338, 134			156	30, 158	1, 188	368, 292	1, 696	973, 487		22	6, 790
	1929							1, 779	297, 455	1, 189	799, 329	266	26	8, 880
Toledo, Ohio	1928							1, 477	2, 882, 899	5, 334	17, 346, 195			
	1929	1, 197	781, 459	2	11, 100	350	1, 243, 170	1, 549	2, 035, 729	4, 802	13, 507, 240	34		
Topeka, Kans.	1928							294	158, 564	1, 117	1, 991, 514			
	1929	200	66, 950			68	118, 510	268	185, 460	897	1, 751, 467	194		
Trenton, N. J.	1928	311	127, 730			141	663, 324	452	791, 054	1, 062	4, 105, 921		2	8, 200
	1929	267	147, 086			114	635, 645	381	782, 731	824	3, 675, 004	114	4	25, 900
Troy, N. Y.	1928	293	139, 267	101	63, 578	88	59, 219	482	262, 064	774	1, 323, 664			
	1929							529	879, 063	781	2, 037, 267	174	1	4, 000
Tucson, Ariz.	1928	220	117, 798			55	51, 198	275	168, 996	828	2, 895, 391		85	13, 819
	1929	208	235, 130			125	147, 117	393	382, 247	1, 059	3, 416, 456	126	126	32, 966
Tulsa, Okla.	1928	569	322, 584			165	391, 260	734	713, 844	3, 829	13, 411, 051			
	1929	493	288, 998	13	38, 800	161	173, 345	657	501, 147	3, 161	11, 756, 635	41		
Union City, N. J.	1928	515	229, 856			41	141, 815	556	371, 671	674	1, 120, 756		128	17, 501
	1929	338	181, 858			69	85, 050	404	266, 980	462	855, 123	261	181	50, 926
Utica, N. Y.	1928	135	141, 470	8	20, 315	58	279, 720	201	441, 505	680	3, 918, 970			
	1929	91	57, 060			87	590, 100	178	677, 160	486	2, 497, 135	152	1	800
Vallejo, Calif.	1928	206	43, 778			89	25, 581	295	69, 359	448	441, 847			
	1929	251	70, 876			117	60, 176	368	131, 052	501	459, 021	299		
Waco, Tex.	1928	115	94, 452			52	199, 867	167	294, 311	410	2, 291, 339			
	1929	147	161, 494			55	254, 468	202	415, 962	486	2, 700, 025	148		
Waltham, Mass.	1928							178	191, 085	679	2, 477, 055			
	1929	129	131, 405			37	36, 480	166	167, 885	554	2, 340, 155	161		
Warren, Ohio	1928	147	50, 485			99	93, 195	246	143, 680	686	1, 811, 620		156	22, 150
	1929	145	74, 820			138	207, 940	283	282, 760	941	2, 168, 200	169	242	39, 910
Washington, D. C.	1928							3, 617	3, 690, 553	6, 916	53, 974, 979			
	1929							2, 403	3, 533, 588	5, 641	56, 127, 919	6	2, 556	1, 346, 400
Waterbury, Conn.	1928	189	185, 550			48	358, 300	237	543, 850	907	3, 488, 300			
	1929	173	213, 550			68	373, 250	241	586, 800	746	2, 998, 760	140	49	2, 200

**TABLE A.—Number and estimated cost of buildings (new construction, and repairs, alterations, and additions to old buildings) covered by permits issued in 1928 and 1929, by intended use of buildings—Continued**

**PART 3.—REPAIRS, ALTERATIONS, AND ADDITIONS TO OLD BUILDINGS, AND GRAND TOTAL OF ALL PERMITS—Continued**

City and State	Year	Repairs, etc., on residential buildings				Repairs, etc., on non-residential buildings		Total repairs, etc.		Grand total of all permits—new construction and repairs, etc.		Rank in cost of construction	Installation permits	
		Housekeeping dwellings		Nonhousekeeping dwellings		Number	Cost	Number	Cost	Number	Cost		Number	Cost
		Number	Cost	Number	Cost									
Waterloo, Iowa	1928	155	\$72,340	9	\$7,450	35	\$181,820	199	\$261,610	898	\$2,722,194			
	1929	172	88,014	12	20,250	74	177,500	258	285,764	1,042	1,974,049	181	771	\$15,000
Watertown, Mass	1928							113	94,670	625	2,824,095			
	1929	94	70,185			33	58,150	127	123,335	458	1,764,640	193		
Watertown, N. Y.	1928	525	110,569			10	110,850	525	221,419	793	1,152,449			
	1929							385	136,197	608	1,089,602	247	1	10,000
West New York, N. J.	1928	121	147,615	15	6,575	41	201,320	177	355,510	253	1,628,385		121	23,163
	1929	88	81,600	8	1,810	74	147,925	170	231,335	233	877,635	10	147	33,890
Wheeling, W. Va.	1928	412	275,843			157	359,839	569	635,682	843	1,907,438		4	47,300
	1929	303	196,925			134	662,963	437	859,888	669	1,708,019	192		
White Plains, N. Y.	1928	91	226,162			80	312,980	171	539,142	783	12,632,206			
	1929	101	171,210			93	483,017	194	654,227	680	7,194,967	59	144	28,198
Wichita, Kans.	1928	632	290,007			235	360,236	867	650,243	2,390	7,974,221			
	1929	685	324,682			227	254,613	912	879,295	2,712	8,651,532	51		
Wichita Falls, Tex.	1928	264	221,670			72	374,342	336	596,012	613	1,911,412		1	200
	1929	204	109,334			57	204,671	261	314,005	415	1,337,337	223		
Wilkes-Barre, Pa.	1928							948	662,831	1,337	3,896,345		20	104,690
	1929							620	622,243	922	3,224,623	132	36	233,525
Wilkesburg, Pa.	1928							58	105,005	276	1,915,561			
	1929	123	160,963			8	93,422	131	254,388	404	1,335,095	224	3	1,800
Williamsport, Pa.	1928							546	347,175	941	2,080,940		183	14,680
	1929	361	95,702	5	33,000	167	270,440	533	399,142	957	1,283,565	226	136	18,992
Wilmington, Del.	1928							789	1,129,452	1,969	5,577,109		146	96,190
	1929							682	1,452,567	1,537	6,142,665	71	110	168,485
Wilmington, N. C.	1928	97	65,000			15	91,000	112	156,000	239	748,500			
	1929	115	90,750			29	66,500	144	157,250	268	682,600	281		
Winston-Salem, N. C.	1928	1,021	346,347			137	182,959	1,158	529,308	2,550	8,531,028			
	1929	740	177,255			120	726,820	860	904,075	1,568	5,000,167	87		
Woonsocket, R. I.	1928	95	60,726			76	353,347	171	454,073	266	1,913,543		9	4,866
	1929	81	46,621			91	106,284	172	149,905	333	1,040,350	252		
Worcester, Mass.	1928	488	728,517			466	759,267	964	1,488,084	1,900	7,260,320			
	1929	468	618,217			529	2,108,774	997	2,728,991	1,925	7,250,965	58		



Yonkers, N. Y.....	1928	217	271, 125			177	974, 400	394	1, 245, 525	1, 934	35, 618, 824		
	1929	240	217, 956			154	1, 382, 200	394	1, 600, 156	1, 413	21, 366, 049	21	
York, Pa.....	1928	485	150, 682	2	360, 000	83	206, 435	570	717, 117	954	2, 065, 049		
	1929							648	593, 648	974	1, 468, 469	214	
Youngstown, Ohio.....	1928							303	529, 415	2, 191	8, 637, 675		
	1929	275	113, 483	22	62, 250	91	236, 090	388	411, 823	1, 787	5, 894, 320	75	
Zanesville, Ohio.....	1928	92	31, 655	1	12, 340	5	28, 793	98	72, 788	344	548, 064		
	1929	71	23, 736			13	101, 620	84	125, 356	283	578, 180	290	
<b>Total:</b>													
309 cities.....	1928	121, 454	79, 400, 026	1, 390	16, 312, 516	55, 473	138, 058, 871	277, 848	324, 039, 903	662, 929	3, 421, 975, 759		70, 728
311 cities.....	1929	120, 264	72, 044, 526	1, 225	13, 317, 295	53, 707	171, 500, 746	276, 276	367, 522, 987	583, 338	3, 035, 681, 481		108, 458
													38, 366, 967
													48, 131, 567



## LIST OF BULLETINS OF THE BUREAU OF LABOR STATISTICS

*The following is a list of all bulletins of the Bureau of Labor Statistics published since July, 1912, except that in the case of bulletins giving the results of periodic surveys of the bureau only the latest bulletin on any one subject is here listed.*

*A complete list of the reports and bulletins issued prior to July, 1912, as well as the bulletins published since that date, will be furnished on application. Bulletins marked thus (\*) are out of print.*

### **Conciliation and Arbitration (including strikes and lockouts).**

- \*No. 124. Conciliation and arbitration in the building trades of Greater New York. [1913.]
- \*No. 133. Report of the industrial council of the British Board of Trade on its inquiry into industrial agreements. [1913.]
- No. 139. Michigan copper district strike. [1914.]
- \*No. 144. Industrial court of the cloak, suit, and skirt industry of New York City. [1914.]
- \*No. 145. Conciliation, arbitration, and sanitation in the dress and waist industry of New York City. [1914.]
- \*No. 191. Collective bargaining in the anthracite-coal industry. [1916.]
- \*No. 196. Collective agreements in the men's clothing industry. [1916.]
- No. 233. Operation of the industrial disputes investigation act of Canada. [1916.]
- No. 255. Joint industrial councils in Great Britain. [1919.]
- No. 283. History of the Shipbuilding Labor Adjustment Board, 1917 to 1919.
- No. 287. National War Labor Board: History of its formation, activities, etc. [1921.]
- \*No. 303. Use of Federal power in settlement of railway labor disputes. [1922.]
- No. 341. Trade agreement in the silk-ribbon industry of New York City. [1923.]
- No. 402. Collective bargaining by actors. [1926.]
- No. 463. Trade agreements, 1927.
- No. 481. Joint industrial control in the book and job printing industry. [1928.]

### **Cooperation.**

- No. 313. Consumers' cooperative societies in the United States in 1920.
- No. 314. Cooperative credit societies (credit unions) in America and in foreign countries. [1922.]
- No. 437. Cooperative movement in the United States in 1925 (other than agricultural).

### **Employment and Unemployment.**

- \*No. 109. Statistics of unemployment and the work of employment offices in the United States. [1912.]
- No. 172. Unemployment in New York City, N. Y. [1915.]
- \*No. 183. Regularity of employment in the women's ready-to-wear garment industries. [1915.]
- \*No. 195. Unemployment in the United States. [1916.]
- No. 196. Proceedings of the Employment Managers' Conference held at Minneapolis, Minn., January 19 and 20, 1916.
- \*No. 202. Proceedings of the conference of Employment Managers' Association of Boston, Mass., held May 10, 1916.
- No. 206. The British system of labor exchanges. [1916.]
- \*No. 227. Proceedings of the Employment Managers' Conference, Philadelphia, Pa., April 2 and 3, 1917.
- No. 235. Employment system of the Lake Carriers' Association. [1918.]
- \*No. 241. Public employment offices in the United States. [1918.]
- No. 247. Proceedings of Employment Managers' Conference, Rochester, N. Y., May 9-11, 1918.
- \*No. 310. Industrial unemployment: A statistical study of its extent and causes. [1922.]
- No. 409. Unemployment in Columbus, Ohio, 1921 to 1925.
- No. 520. Social and economic character of unemployment in Philadelphia, April, 1929.

### **Foreign Labor Laws.**

- \*No. 142. Administration of labor laws and factory inspection in certain European countries. [1914.]
- No. 494. Labor legislation of Uruguay. [1929.]
- No. 510. Labor legislation of Argentina. [1930.]

### **Housing.**

- \*No. 153. Government aid to home owning and housing of working people in foreign countries. [1914.]
- No. 263. Housing by employers in the United States. [1920.]
- No. 295. Building operations in representative cities in 1920.
- No. 500. Building permits in the principal cities of the United States in [1921 to] 1923.

### **Industrial Accidents and Hygiene.**

- \*No. 104. Lead poisoning in potteries, tile works, and porcelain enameled sanitary ware factories. [1912.]
- No. 120. Hygiene of painters' trade. [1913.]
- \*No. 127. Dangers to workers from dust and fumes, and methods of protection. [1913.]
- \*No. 141. Lead poisoning in the smelting and refining of lead. [1914.]
- \*No. 157. Industrial accident statistics. [1915.]
- \*No. 165. Lead poisoning in the manufacture of storage batteries. [1914.]
- \*No. 179. Industrial poisons used in the rubber industry. [1915.]
- No. 188. Report of British departmental committee on the danger in the use of lead in the painting of buildings. [1916.]
- \*No. 201. Report of the committee on statistics and compensation insurance cost of the International Association of Industrial Accident Boards and Commissions. [1916.]
- \*No. 209. Hygiene of the printing trades. [1917.]
- \*No. 219. Industrial poisons used or produced in the manufacture of explosives. [1917.]
- No. 221. Hours, fatigue, and health in British munition factories. [1917.]
- No. 230. Industrial efficiency and fatigue in British munition factories. [1917.]
- \*No. 231. Mortality from respiratory diseases in dusty trades (inorganic dusts). [1918.]
- \*No. 234. Safety movement in the iron and steel industry, 1907 to 1917.
- No. 236. Effects of the air hammer on the hands of stonecutters. [1918.]
- No. 249. Industrial health and efficiency. Final report of British Health of Munition Workers' Committee. [1919.]
- No. 251. Preventable death in the cotton-manufacturing industry. [1919.]
- No. 256. Accidents and accident prevention in machine building. [1919.]
- No. 267. Anthrax as an occupational disease. [1920.]
- No. 276. Standardization of industrial accident statistics. [1920.]
- No. 280. Industrial poisoning in making coal-tar dyes and dye-intermediates. [1921.]
- \*No. 291. Carbon-monoxide poisoning. [1921.]
- No. 293. The problem of dust phthisis in the granite-stone industry. [1922.]
- No. 298. Causes and prevention of accidents in the iron and steel industry, 1910-1919.
- No. 306. Occupational hazard and diagnostic signs: A guide to impairments to be looked for in hazardous occupations. [1922.]
- No. 392. Survey of hygienic conditions in the printing trades. [1925.]
- No. 405. Phosphorus necrosis in the manufacture of fireworks and in the preparation of phosphorus. [1926.]
- No. 427. Health survey of the printing trades, 1922 to 1925.
- No. 428. Proceedings of the Industrial Accident Prevention Conference, held at Washington, D. C., July 14-16, 1926.
- No. 460. A new test for industrial lead poisoning. [1928.]
- No. 466. Settlement for accidents to American seamen. [1928.]
- No. 483. Deaths from lead poisoning, 1925-1927.
- No. 490. Statistics of industrial accidents in the United States to the end of 1927.
- No. 507. Causes of death by occupation. [1929.]

### **Industrial Relations and Labor Conditions.**

- No. 237. Industrial unrest in Great Britain. [1917.]
- No. 340. Chinese migrations, with special reference to labor conditions. [1923.]
- No. 349. Industrial relations in the West Coast lumber industry. [1923.]
- No. 361. Labor relations in the Fairmont (W. Va.) bituminous-coal field. [1924.]
- No. 380. Postwar labor conditions in Germany. [1925.]
- No. 383. Works council movement in Germany. [1925.]
- No. 384. Labor conditions in the shoe industry in Massachusetts, 1920-1924.
- No. 399. Labor relations in the lace and lace-curtain industries in the United States. [1925.]

### **Labor Laws of the United States (including decisions of courts relating to labor).**

- No. 211. Labor laws and their administration in the Pacific States. [1917.]
- No. 229. Wage-payment legislation in the United States. [1917.]
- No. 285. Minimum wage laws of the United States: Construction and operation. [1921.]
- No. 321. Labor laws that have been declared unconstitutional. [1922.]
- No. 322. Kansas Court of Industrial Relations. [1923.]
- No. 343. Laws providing for bureaus of labor statistics, etc. [1923.]
- No. 370. Labor laws of the United States, with decisions of courts relating thereto. [1925.]
- No. 408. Laws relating to payment of wages. [1926.]
- No. 486. Labor legislation of 1928.
- No. 517. Decisions of courts and opinions affecting labor, 1927-1928.

**Proceedings of Annual Conventions of the Association of Governmental Labor Officials of the United States and Canada. (Name changed in 1928 to Association of Governmental Officials in Industry of the United States and Canada.)**

- No. 266. Seventh, Seattle, Wash., July 12-15, 1920.
- No. 307. Eighth, New Orleans, La., May 2-6, 1921.
- No. 323. Ninth, Harrisburg, Pa., May 22-26, 1922.
- \*No. 352. Tenth, Richmond, Va., May 1-4, 1923.
- \*No. 389. Eleventh, Chicago, Ill., May 19-23, 1924.
- \*No. 411. Twelfth, Salt Lake City, Utah, August 13-15, 1925.
- No. 429. Thirteenth, Columbus, Ohio, June 7-10, 1926.
- \*No. 455. Fourteenth, Paterson, N. J., May 31 to June 3, 1927.
- No. 480. Fifteenth, New Orleans, La., May 21-24, 1928.
- No. 508. Sixteenth, Toronto, Canada, June 4-7, 1929.

**Proceedings of Annual Meetings of the International Association of Industrial Accident Boards and Commissions.**

- No. 210. Third, Columbus, Ohio, April 25-28, 1916.
- No. 248. Fourth, Boston, Mass., August 21-25, 1917.
- No. 264. Fifth, Madison, Wis., September 24-27, 1918.
- \*No. 273. Sixth, Toronto, Canada, September 23-26, 1919.
- No. 281. Seventh, San Francisco, Calif., September 20-24, 1920.
- No. 304. Eighth, Chicago, Ill., September 19-23, 1921.
- No. 333. Ninth, Baltimore, Md., October 9-13, 1922.
- \*No. 359. Tenth, St. Paul, Minn., September 24-26, 1923.
- No. 385. Eleventh, Halifax, Nova Scotia, August 26-28, 1924.
- No. 395. Index to proceedings, 1914-1924.
- No. 406. Twelfth, Salt Lake City, Utah, August 17-20, 1925.
- No. 432. Thirteenth, Hartford, Conn., September 14-17, 1926.
- \*No. 456. Fourteenth, Atlanta, Ga., September 27-29, 1927.
- No. 485. Fifteenth, Paterson, N. J., September 11-14, 1928.
- No. 511. Sixteenth, Buffalo, N. Y., October 8-11, 1929.

**Proceedings of Annual Meetings of the International Association of Public Employment Services.**

- No. 192. First, Chicago, December 19 and 20, 1913; second, Indianapolis, September 24 and 25, 1914; third, Detroit, July 1 and 2, 1915.
- No. 220. Fourth, Buffalo, N. Y., July 20 and 21, 1916.
- No. 311. Ninth, Buffalo, N. Y., September 7-9, 1921.
- No. 337. Tenth, Washington, D. C., September 11-13, 1922.
- No. 355. Eleventh, Toronto, Canada, September 4-7, 1923.
- No. 400. Twelfth, Chicago, Ill., May 19-23, 1924.
- No. 414. Thirteenth, Rochester, N. Y., September 15-17, 1925.
- No. 478. Fifteenth, Detroit, Mich., October 25-28, 1927.
- No. 501. Sixteenth, Cleveland, Ohio, September 18-21, 1928.

**Productivity of Labor.**

- No. 358. Productivity costs in the common-brick industry. [1924.]
- No. 360. Time and labor costs in manufacturing 100 pairs of shoes, 1923.
- No. 407. Labor cost of production and wages and hours of labor in the paper boxboard industry. [1926.]
- No. 412. Wages, hours, and productivity in the pottery industry, 1925.
- No. 441. Productivity of labor in the glass industry. [1927.]
- No. 474. Productivity of labor in merchant blast furnaces. [1928.]
- No. 475. Productivity of labor in newspaper printing. [1929.]

**Retail Prices and Cost of Living.**

- \*No. 121. Sugar prices, from refiner to consumer. [1913.]
- \*No. 130. Wheat and flour prices, from farmer to consumer. [1913.]
- \*No. 164. Butter prices, from producer to consumer. [1914.]
- No. 170. Foreign food prices as affected by the war. [1915.]
- No. 357. Cost of living in the United States. [1924.]
- No. 369. The use of cost-of-living figures in wage adjustments. [1925.]
- No. 495. Retail prices, 1899 to 1928.

**Safety Codes.**

- \*No. 331. Code of lighting: Factories, mills, and other work places.
- No. 336. Safety code for the protection of industrial workers in foundries.
- No. 350. Specifications of laboratory tests for approval of electric headlighting devices for motor vehicles.
- \*No. 351. Safety code for the construction, care, and use of ladders.
- No. 375. Safety code for laundry machinery and operations.

**Safety Codes—Continued.**

- No. 382. Code of lighting school buildings.
- No. 410. Safety code for paper and pulp mills.
- No. 430. Safety code for power presses and foot and hand presses.
- No. 433. Safety codes for the prevention of dust explosions.
- No. 436. Safety code for the use, care, and protection of abrasive wheels.
- No. 447. Safety code for rubber mills and calenders.
- No. 451. Safety code for forging and hot-metal stamping.
- No. 463. Safety code for mechanical power-transmission apparatus—first revision.
- No. 509. Textile safety code.
- No. 512. Code for identification of gas mask canisters.
- No. 519. Safety code for woodworking plants, as revised 1930.

**Vocational and Workers' Education.**

- \*No. 159. Short-unit courses for wage earners, and a factory school experiment. [1915.]
- \*No. 162. Vocational education survey of Richmond, Va. [1915.]
- \*No. 199. Vocational education survey of Minneapolis, Minn. [1917.]
- No. 271. Adult working-class education in Great Britain and the United States. [1920.]
- No. 459. Apprenticeship in building construction. [1928.]

**Wages and Hours of Labor.**

- \*No. 146. Wages and regularity of employment and standardization of piece rates in the dress and waist industry of New York City. [1914.]
- \*No. 147. Wages and regularity of employment in the cloak, suit, and skirt industry. [1914.]
- No. 161. Wages and hours of labor in the clothing and cigar industries, 1911 to 1913.
- No. 163. Wages and hours of labor in the building and repairing of steam railroad cars, 1907 to 1913.
- \*No. 190. Wages and hours of labor in the cotton, woolen, and silk industries, 1907 to 1914.
- No. 204. Street-railway employment in the United States. [1917.]
- No. 225. Wages and hours of labor in the lumber, millwork, and furniture industries, 1915.
- No. 265. Industrial survey in selected industries in the United States, 1919.
- No. 297. Wages and hours of labor in the petroleum industry, 1920.
- No. 356. Productivity costs in the common-brick industry. [1924.]
- No. 358. Wages and hours of labor in the automobile-tire industry, 1923.
- No. 360. Time and labor costs in manufacturing 100 pairs of shoes, 1923.
- No. 365. Wages and hours of labor in the paper and pulp industry, 1923.
- No. 394. Wages and hours of labor in metalliferous mines, 1924.
- No. 407. Labor costs of production and wages and hours of labor in the paper box-board industry. [1926.]
- No. 412. Wages, hours, and productivity in the pottery industry, 1925.
- No. 416. Hours and earnings in anthracite and bituminous coal mining, 1922 and 1924.
- No. 472. Wages and hours of labor in the slaughtering and meat-packing industry, 1927.
- No. 476. Union scales of wages and hours of labor, 1927. [Supplement to Bulletin 457.]
- No. 484. Wages and hours of labor of common street laborers, 1928.
- No. 487. Wages and hours of labor in woolen and worsted goods manufacturing, 1910 to 1923.
- No. 492. Wages and hours of labor in cotton-goods manufacturing, 1910 to 1923.
- No. 497. Wages and hours of labor in the lumber industry in the United States, 1928.
- No. 498. Wages and hours of labor in the boot and shoe industry, 1910 to 1923.
- No. 499. History of wages in the United States from colonial times to 1928.
- No. 502. Wages and hours of labor in the motor-vehicle industry, 1928.
- No. 503. Wages and hours of labor in the men's clothing industry, 1911 to 1923.
- No. 504. Wages and hours of labor in the hosiery and underwear industries, 1907 to 1923.
- No. 513. Wages and hours of labor in the iron and steel industry, 1929. (In press.)
- No. 514. Pennsylvania Railroad wage data. From Report of Joint Fact Finding Committee in wage negotiations in 1927.
- No. 515. Union scales of wages, May 15, 1929.
- No. 516. Hours and earnings in bituminous coal mining, 1929.
- No. 522. Wages and hours of labor in foundries and machine shops, 1929. (In press.)
- No. 523. Wages and earnings in the manufacture of airplanes and aircraft engines, 1929. (In press.)

**Welfare Work.**

- \*No. 123. Employers' welfare work. [1913.]
- No. 222. Welfare work in British munitions factories. [1917.]
- \*No. 250. Welfare work for employees in industrial establishments in the United States. [1919.]
- No. 458. Health and recreation activities in industrial establishments, 1926.

**Wholesale Prices.**

- No. 284. Index numbers of wholesale prices in the United States and foreign countries. [1921.]
- No. 453. Revised index numbers of wholesale prices, 1923 to July, 1927.
- No. 493. Wholesale prices, 1913 to 1923.
- No. 521. Wholesale prices, 1929.

### **Women and Children in Industry.**

- No. 116. Hours, earnings, and duration of employment of wage-earning women in selected industries in the District of Columbia. [1913.]
- \*No. 117. Prohibition of night work of young persons. [1913.]
- \*No. 118. Ten-hour maximum working-day for women and young persons. [1913.]
- No. 119. Working hours of women in the pea canneries of Wisconsin. [1913.]
- \*No. 122. Employment of women in power laundries in Milwaukee. [1913.]
- \*No. 160. Hours, earnings, and conditions of labor of women in Indiana mercantile establishments and garment factories. [1914.]
- \*No. 167. Minimum-wage legislation in the United States and foreign countries. [1915.]
- \*No. 175. Summary of the report on conditions of women and child wage earners in the United States. [1915.]
- \*No. 176. Effect of minimum-wage determinations in Oregon. [1915.]
- \*No. 180. The boot and shoe industry in Massachusetts as a vocation for women. [1915.]
- \*No. 182. Unemployment among women in department and other retail stores of Boston, Mass. [1916.]
- No. 193. Dressmaking as a trade for women in Massachusetts. [1916.]
- No. 215. Industrial experience of trade-school girls in Massachusetts. [1917.]
- \*No. 217. Effect of workmen's compensation laws in diminishing the necessity of industrial employment of women and children. [1918.]
- \*No. 223. Employment of women and juveniles in Great Britain during the war. [1917.]
- No. 253. Women in the lead industries. [1919.]

### **Workmen's Insurance and Compensation (including laws relating thereto).**

- \*No. 101. Care of tuberculous wage earners in Germany. [1912.]
- \*No. 102. British national insurance act, 1911.
- No. 103. Sickness and accident insurance law in Switzerland. [1912.]
- No. 107. Law relating to insurance of salaried employees in Germany. [1913.]
- \*No. 155. Compensation for accidents to employees of the United States. [1914.]
- \*No. 212. Proceedings of the conference of social insurance called by the International Association of Industrial Accident Boards and Commissions, Washington, D. C., December 5-9, 1916.
- \*No. 243. Workmen's compensation legislation in the United States and foreign countries, 1917 and 1918.
- No. 301. Comparison of workmen's compensation insurance and administration. [1922.]
- No. 312. National health insurance in Great Britain, 1911 to 1921.
- No. 379. Comparison of workmen's compensation laws of the United States as of January 1, 1925.
- No. 477. Public-service retirement systems, United States and Europe. [1929.]
- No. 496. Workmen's compensation legislation of the United States and Canada as of January, 1929. (With text of legislation enacted in 1927 and 1928.)

### **Miscellaneous series.**

- \*No. 174. Subject index of the publications of the United States Bureau of Labor Statistics up to May 1, 1915.
- No. 208. Profit sharing in the United States. [1916.]
- No. 242. Food situation in central Europe, 1917.
- No. 254. International labor legislation and the society of nations. [1919.]
- No. 268. Historical survey of international action affecting labor. [1920.]
- No. 282. Mutual relief associations among Government employees in Washington, D. C. [1921.]
- No. 319. The Bureau of Labor Statistics: Its history, activities, and organization. [1922.]
- No. 326. Methods of procuring and computing statistical information of the Bureau of Labor Statistics. [1923.]
- No. 342. International Seamen's Union of America: A study of its history and problems. [1923.]
- No. 346. Humanity in government. [1923.]
- No. 372. Convict labor in 1923.
- No. 386. Cost of American almshouses. [1925.]
- No. 398. Growth of legal-aid work in the United States. [1926.]
- No. 401. Family allowances in foreign countries. [1926.]
- No. 461. Labor organization in Chile. [1928.]
- No. 462. Park recreation areas in the United States. [1928.]
- No. 465. Beneficial activities of American trade-unions. [1928.]
- No. 479. Activities and functions of a State department of labor. [1928.]
- No. 483. Conditions in the shoe industry in Haverhill, Mass., 1928.
- No. 489. Care of aged persons in United States. [1929.]
- No. 491. Handbook of labor statistics, 1929 edition.
- No. 505. Directory of homes for the aged in the United States. [1929.]
- No. 506. Handbook of American trade-unions: 1929 edition.
- No. 518. Personnel research agencies, 1930, edition.