
MISCELLANEOUS INDUSTRIES

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AGRICULTURAL IMPLEMENTS.

GENERAL STATISTICS.

General character of the industry.—The agricultural implements manufactured by the establishments here considered may be subdivided into four principal classes: (1) Planters and seeders, (2) plows and cultivators, (3) harvesting implements, and (4) seed separators. In many establishments, however, minor or subsidiary products are manufactured which can not properly be assigned to any of the four main groups, but the value of which is necessarily included in the total value of the products of the factory reporting. In 1919 the total value of these subsidiary or minor products was \$132,605,560, exclusive of repair work, such products including hand tools, engines, tractors, automobiles, wagons, and other miscellaneous products.

Agricultural implements were also made by establishments engaged primarily in the manufacture of other products to the value of \$14,938,340 in 1919 and \$4,033,797 in 1914. The value of such manufactures, however, is not included in the total value of products shown for the agricultural implement industry.

Importance and growth of the industry.—Table 1 summarizes the statistics for each census since 1879, with percentages of increase.

With few exceptions increases are noticeable at each succeeding census. The large increases, however, from 1914 to 1919, in salaries and wages, cost of materials, and value of products are due largely to the general rise of prices and wages following the World War, and do not, therefore, fairly measure the growth of the industry for that period. A truer index of the conditions is found in the increases in the average number of wage earners and primary horsepower. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes."

States, ranked by value of products.—Illinois, as shown by Table 2, was preeminently the leading state in the manufacture of agricultural implements in 1919, a condition which has existed for the past several censuses. In 1919 this state reported 41.5 per cent of the total number of wage earners and 42.1 per cent of the total value of products. Wisconsin, second in importance, contributed only 9.6 per cent and 14.3 per cent, respectively, of these two items. In this connection it should be explained that a considerable proportion of the total value of products for Wisconsin represents the manufacture of automobiles and if the ranking of the states were made on the basis of the value of products actually pertaining to the agri-

cultural implement industry, both Indiana and Ohio would take precedence over Wisconsin. Although a majority of the states were engaged in the manufacture of agricultural implements to a limited extent, the industry has become centralized in Illinois, Wisconsin, Indiana, Ohio, New York, Michigan, and California, named in the order of their rank by value of products. Combined these seven states produced 89 per cent of the total value of products for the industry in 1919.

Persons engaged in the industry.—The age classification of the average number of wage earners in Table 3 is an estimate obtained by the method described in the "Explanation of terms." The classification, by sex, for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures in detail will be found in Table 15.

Wage earners, by months.—The statistics for wage earners in Table 4 show the regularity of employment, or the reverse, in accordance with existing industrial conditions during the several census years, together with the percentage which the number reported for each of the several months forms of the number reported for the maximum month.

Wage earners, by months, on the 15th day of the month, or nearest representative day.—As shown by Table 5, the number of wage earners employed in the industry month by month ranged from a maximum of 59,748 in February to a minimum of 49,483 in August, the minimum number being equivalent to 82.8 per cent of the maximum. Figures are given for the states separately, while for the United States the number of males and of females is also shown.

Prevailing hours of labor.—Table 6 shows a marked shortening of the working day for the industry since 1914. In that year only 14.6 per cent of the wage earners were reported as employed less than 54 hours per week as against 56.2 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 23.8 per cent of the total wage earners, as compared with 4.3 per cent in 1919.

Size of establishments, by average number of wage earners.—Table 7 discloses the significant fact that 218 establishments, or 41.8 per cent of the total number for the industry, employed fewer than 6 wage earners each, while only 393, or seven-tenths of 1 per cent of the total number of wage earners, were em-

ployed therein, showing the predominance of the small establishments based upon the average number of wage earners. On the other hand, the classes "501 to 1,000" and "Over 1,000" wage earners, comprising 23 establishments, employed 32,870 wage earners, or 60.5 per cent of the total average number.

Size of establishments, by value of products.—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000," and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. Table 8, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914. The statistics in this table show the degree of concentration of production in large establishments. In 1919, the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over" included 87 establishments, or 16.7 per cent of the total number for the industry, employed 47,013 wage earners, or 86.5 per cent of the total average number, and reported products to the value of \$273,232,857, or 89.6 per cent of the total value of products.

Character of ownership.—Table 9 emphasizes the predominance of the corporate form of ownership. Corporations owned 59.1 per cent of the total number

of establishments for the industry in 1919, employed 97.5 per cent of the total average number of wage earners, and reported 97.5 per cent of the value of products. During the five-year period 1914 to 1919 the average number of wage earners in corporations increased 6,796, or 14.7 per cent, and the value of products \$139,811,574, or 88.8 per cent.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 10, there was an increase in the total horsepower for the industry of 6,821 horsepower, or 5.6 per cent, due wholly to an increase of 16,906 horsepower, or 54.6 per cent, in rented power, since owned power decreased 10,085 horsepower, or 11.1 per cent, during this five-year period.

Fuel consumed.—Table 11 shows the principal kinds of fuel used for the industry in 1919 and 1914, with per cent of increase, and also gives separately the amounts consumed in states requiring considerable quantities of fuel for such manufactures. Of the totals for the three chief kinds of fuel used in connection with the industry in 1919, Illinois reported 52.5 per cent of the bituminous coal, 37.4 per cent of the coke, and 47.9 per cent of the fuel oils. Anthracite coal is naturally consumed in the Eastern states, and three states—New Jersey, New York, and Pennsylvania—combined, reported 92 per cent of this kind of coal used by the industry in 1919.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

| | 1919 | 1914 | 1909 | 1904 | 1899 | 1889 | 1879 | PER CENT OF INCREASE. ¹ | | | | | |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 | 1889-1899 | 1879-1889 |
| Number of establishments..... | 521 | 601 | 640 | 648 | 715 | 910 | 1,043 | -13.3 | -6.1 | -1.2 | -9.4 | -21.4 | -53.2 |
| Persons engaged..... | 67,177 | 58,118 | 60,220 | 55,089 | 57,254 | (2) | (2) | 15.6 | -3.5 | 9.3 | -3.8 | ..... | ..... |
| Proprietors and firm members..... | 321 | 431 | 465 | 496 | 626 | (2) | (2) | -25.5 | -7.3 | -6.2 | -20.8 | ..... | ..... |
| Salaried employees..... | 12,458 | 9,228 | 9,213 | 7,199 | 10,046 | (2) | (2) | 35.3 | 0.2 | 28.0 | -23.3 | ..... | ..... |
| Wage earners (average number)..... | 54,368 | 48,459 | 50,551 | 47,894 | 46,582 | 38,827 | 39,580 | 12.2 | -4.1 | 6.7 | 1.7 | (2) | (2) |
| Primary horsepower..... | 128,249 | 121,428 | 100,601 | 89,738 | 70,646 | 50,395 | 44,731 | 5.6 | 20.7 | 12.1 | 27.0 | 40.2 | 12.7 |
| Capital..... | \$366,962,052 | \$338,531,673 | \$256,281,086 | \$196,740,700 | \$157,707,951 | \$145,313,997 | \$62,103,668 | 8.4 | 32.1 | 30.3 | 24.8 | 8.5 | 134.0 |
| Salaries and wages..... | 88,630,177 | 47,603,790 | 38,748,613 | 32,575,296 | 30,514,090 | 21,811,761 | 15,359,610 | 85.2 | 22.9 | 19.0 | 5.7 | 41.8 | 42.0 |
| Salaries..... | 21,925,743 | 13,010,465 | 10,139,998 | 7,572,046 | 8,363,210 | (2) | (2) | 68.5 | 28.3 | 53.9 | -9.5 | ..... | ..... |
| Wages..... | 66,704,434 | 34,593,325 | 28,608,615 | 25,002,650 | 22,450,880 | (2) | (2) | 92.8 | 20.9 | 14.4 | 11.4 | ..... | ..... |
| Paid for contract work..... | 113,421 | 104,488 | 93,632 | 133,420 | 138,146 | (2) | (2) | 8.5 | 11.6 | -20.8 | -3.4 | ..... | ..... |
| Rent and taxes..... | 12,174,851 | 1,714,209 | 1,117,440 | 4,795,949 | 4,597,670 | (2) | (2) | 610.2 | 53.4 | 40.4 | 33.2 | ..... | ..... |
| Cost of materials..... | 144,571,043 | 73,508,645 | 60,306,519 | 48,281,406 | 43,944,928 | 31,603,265 | 31,531,170 | 96.7 | 21.9 | 24.9 | 9.9 | 39.1 | 0.2 |
| Value of products..... | 304,961,265 | 164,086,835 | 146,329,268 | 112,007,344 | 101,207,428 | 81,271,051 | 68,640,496 | 85.9 | 12.1 | 30.6 | 10.7 | 24.5 | 18.4 |
| Value added by manufacture..... | 160,389,322 | 90,578,190 | 86,022,749 | 63,725,938 | 57,262,500 | 49,668,386 | 37,109,316 | 77.1 | 5.3 | 35.0 | 11.3 | 15.3 | 33.8 |

¹ A minus sign (—) denotes decrease.
² Figures not available.

³ Figures not strictly comparable.
⁴ Exclusive of internal revenue.

⁵ Value of products less cost of materials.

MANUFACTURES.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Number of establishments. | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-----------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States..... | 521 | 54,368 | 100.0 | ..... | \$304,961 | 100.0 | ..... | \$160,389 | 100.0 | ..... |
| Illinois..... | 68 | 22,548 | 41.5 | 1 | 128,285 | 42.1 | 1 | 63,125 | 39.4 | 1 |
| Wisconsin..... | 34 | 5,237 | 9.6 | 3 | 43,623 | 14.3 | 2 | 25,138 | 15.7 | 2 |
| Indiana..... | 29 | 5,633 | 10.2 | 2 | 31,824 | 10.4 | 3 | 19,209 | 12.0 | 3 |
| Ohio..... | 46 | 4,931 | 9.1 | 4 | 26,556 | 8.7 | 4 | 13,589 | 8.5 | 4 |
| New York..... | 40 | 4,026 | 8.5 | 5 | 20,421 | 6.7 | 5 | 10,482 | 6.5 | 6 |
| Michigan..... | 23 | 2,708 | 5.0 | 6 | 11,091 | 3.6 | 6 | 6,043 | 3.8 | 6 |
| California..... | 34 | 1,578 | 2.9 | 7 | 9,490 | 3.1 | 7 | 5,773 | 3.6 | 7 |
| Iowa..... | 26 | 906 | 1.7 | 9 | 5,959 | 2.0 | 8 | 3,137 | 2.0 | 8 |
| Pennsylvania..... | 27 | 1,371 | 2.5 | 8 | 5,536 | 1.8 | 9 | 2,940 | 1.8 | 9 |
| Kentucky..... | 8 | 773 | 1.4 | 11 | 4,407 | 1.4 | 10 | 2,127 | 1.3 | 10 |
| Georgia..... | 13 | 892 | 1.6 | 10 | 3,476 | 1.1 | 11 | 1,603 | 1.0 | 11 |
| Tennessee..... | 14 | 727 | 1.3 | 12 | 2,516 | 0.8 | 12 | 1,279 | 0.8 | 12 |
| Minnesota..... | 16 | 501 | 0.9 | 13 | 2,341 | 0.8 | 13 | 986 | 0.6 | 13 |
| Missouri..... | 14 | 254 | 0.5 | 14 | 1,457 | 0.5 | 14 | 656 | 0.4 | 15 |
| New Jersey..... | 10 | 219 | 0.4 | 18 | 1,365 | 0.4 | 15 | 665 | 0.4 | 14 |
| Virginia..... | 14 | 239 | 0.4 | 16 | 926 | 0.3 | 16 | 557 | 0.3 | 18 |
| Washington..... | 9 | 146 | 0.3 | 19 | 913 | 0.3 | 17 | 467 | 0.3 | 17 |
| North Carolina..... | 17 | 230 | 0.4 | 17 | 877 | 0.3 | 18 | 557 | 0.3 | 19 |
| Kansas..... | 14 | 129 | 0.2 | 20 | 770 | 0.3 | 19 | 317 | 0.2 | 18 |
| Vermont..... | 10 | 241 | 0.5 | 15 | 601 | 0.2 | 21 | 310 | 0.2 | 20 |
| Nebraska..... | 8 | 66 | 0.1 | 23 | 350 | 0.1 | 23 | 143 | 0.1 | 23 |
| Colorado..... | 5 | 19 | (¹) | 27 | 122 | (¹) | 27 | 64 | (¹) | 28 |
| All other states..... | 42 | 494 | 0.9 | ..... | 2,055 | 0.7 | ..... | 1,162 | 0.7 | ..... |

¹ Less than one-tenth of 1 per cent.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|--|----------------------|--------|--------|--------------|-----------------------|--------------|--|----------------------|--------|--------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| All classes..... | 1919 | 67,177 | 63,781 | 3,396 | 94.9 | 5.1 | Clerks and other subordinate salaried employees. | 1919 | 9,622 | 7,276 | 2,346 | 75.6 | 24.4 |
| | 1914 | 58,118 | 56,400 | 1,718 | 97.0 | 3.0 | | 1914 | 7,572 | 6,384 | 1,188 | 84.3 | 15.7 |
| | 1909 | 60,229 | 58,617 | 1,712 | 97.2 | 2.8 | | 1909 | 7,189 | 6,137 | 1,052 | 85.4 | 14.6 |
| Proprietors and officials..... | 1919 | 3,187 | 3,130 | 57 | 98.2 | 1.8 | Wage earners (average number)..... | 1919 | 54,368 | 53,375 | 993 | 98.2 | 1.8 |
| | 1914 | 2,087 | 2,050 | 37 | 98.2 | 1.8 | | 1914 | 48,459 | 47,966 | 493 | 99.0 | 1.0 |
| | 1909 | 2,489 | 2,445 | 44 | 98.2 | 1.8 | | 1909 | 50,551 | 49,935 | 616 | 98.8 | 1.2 |
| Proprietors and firm members..... | 1919 | 321 | 298 | 23 | 92.8 | 7.2 | 16 years of age and over..... | 1919 | 54,314 | 53,322 | 992 | 98.2 | 1.8 |
| | 1914 | 431 | 409 | 22 | 94.9 | 5.1 | | 1914 | 48,377 | 47,884 | 493 | 99.0 | 1.0 |
| | 1909 | 465 | 448 | 17 | 96.3 | 3.7 | | 1909 | 50,345 | 49,730 | 615 | 98.8 | 1.2 |
| Salaried officers of corporations..... | 1919 | 587 | 565 | 22 | 96.3 | 3.7 | Under 16 years of age..... | 1919 | 54 | 53 | 1 | 98.1 | 1.9 |
| | 1914 | 552 | 540 | 12 | 97.8 | 2.2 | | 1914 | 82 | 82 | ..... | 100.0 | ..... |
| | 1909 | 569 | 564 | 5 | 99.1 | 0.9 | | 1909 | 206 | 205 | 1 | 99.5 | 0.5 |
| Superintendents and managers..... | 1919 | 2,279 | 2,267 | 12 | 99.5 | 0.5 | | | | | | | |
| | 1914 | 1,104 | 1,101 | 3 | 99.7 | 0.3 | | | | | | | |
| | 1909 | 1,455 | 1,433 | 22 | 98.5 | 1.5 | | | | | | | |

TABLE 4.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

| MONTH. | NUMBER. ¹ | | | PER CENT OF MAXIMUM. | | | MONTH. | NUMBER. ¹ | | | PER CENT OF MAXIMUM. | | |
|---------------|----------------------|--------|--------|----------------------|-------|------|----------------|----------------------|--------|--------|----------------------|------|-------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| January..... | 57,926 | 61,746 | 51,540 | 97.0 | 99.8 | 92.9 | July..... | 52,900 | 45,169 | 45,027 | 88.5 | 73.0 | 81.2 |
| February..... | 59,748 | 61,900 | 53,673 | 100.0 | 100.0 | 96.8 | August..... | 49,483 | 37,340 | 44,908 | 82.8 | 60.3 | 81.0 |
| March..... | 58,653 | 58,143 | 54,759 | 98.2 | 93.9 | 93.7 | September..... | 51,258 | 56,208 | 46,484 | 85.3 | 56.9 | 83.3 |
| April..... | 55,771 | 54,305 | 53,185 | 93.3 | 87.7 | 95.9 | October..... | 51,059 | 39,536 | 49,477 | 85.5 | 63.9 | 89.2 |
| May..... | 53,994 | 49,904 | 50,990 | 90.4 | 80.6 | 91.9 | November..... | 52,610 | 44,219 | 52,410 | 88.1 | 71.4 | 94.5 |
| June..... | 52,817 | 46,990 | 48,727 | 88.4 | 75.9 | 87.9 | December..... | 56,199 | 47,048 | 55,465 | 94.1 | 76.0 | 100.0 |

¹ The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by italic figures.

AGRICULTURAL IMPLEMENTS.

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TABLE 5.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment for each state is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maximum. |
|--------------------|--------------------------------------|---|-----------|--------|--------|--------|--------|--------|---------|------------|----------|-----------|-----------|---------------------------------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| United States..... | 54,368 | 57,926 | 59,748 | 58,653 | 55,771 | 53,994 | 52,817 | 52,900 | 49,485 | 51,256 | 51,059 | 52,610 | 50,109 | 82.8 |
| Males..... | 53,375 | 56,859 | 58,884 | 57,617 | 54,765 | 53,043 | 51,925 | 51,950 | 48,680 | 50,326 | 49,981 | 51,518 | 55,152 | 83.0 |
| Females..... | 993 | 1,067 | 1,064 | 1,036 | 1,006 | 951 | 892 | 950 | 805 | 830 | 1,078 | 1,092 | 1,047 | 73.5 |
| California..... | 1,578 | 2,112 | 2,067 | 1,790 | 1,675 | 1,621 | 1,451 | 1,287 | 1,184 | 1,196 | 1,393 | 1,522 | 1,632 | 56.1 |
| Georgia..... | 892 | 1,019 | 1,093 | 1,014 | 829 | 734 | 730 | 815 | 838 | 880 | 873 | 909 | 970 | 66.8 |
| Illinois..... | 22,543 | 24,513 | 25,045 | 24,474 | 22,811 | 21,940 | 21,613 | 22,448 | 18,920 | 21,784 | 21,848 | 22,016 | 23,164 | 75.5 |
| Indiana..... | 5,533 | 5,650 | 5,697 | 5,379 | 5,054 | 5,214 | 5,244 | 5,426 | 5,519 | 5,416 | 5,770 | 5,909 | 6,118 | 82.6 |
| Iowa..... | 906 | 886 | 913 | 924 | 915 | 881 | 892 | 900 | 854 | 856 | 909 | 951 | 991 | 86.2 |
| Kentucky..... | 773 | 879 | 909 | 924 | 885 | 838 | 653 | 645 | 627 | 656 | 706 | 716 | 838 | 67.9 |
| Michigan..... | 2,708 | 2,644 | 2,943 | 3,111 | 3,113 | 2,913 | 2,818 | 2,683 | 2,683 | 2,110 | 2,273 | 2,463 | 2,752 | 67.8 |
| Minnesota..... | 501 | 475 | 485 | 481 | 451 | 448 | 480 | 512 | 541 | 559 | 503 | 544 | 533 | 80.1 |
| New York..... | 4,626 | 4,971 | 5,341 | 5,247 | 5,118 | 4,908 | 4,520 | 4,477 | 4,193 | 4,023 | 3,779 | 4,134 | 4,801 | 70.8 |
| Ohio..... | 4,931 | 5,263 | 5,344 | 5,411 | 5,032 | 4,813 | 4,609 | 4,408 | 4,642 | 4,741 | 4,765 | 4,938 | 5,148 | 81.4 |
| Pennsylvania..... | 1,371 | 1,600 | 1,476 | 1,439 | 1,494 | 1,531 | 1,445 | 1,392 | 1,515 | 887 | 1,092 | 1,127 | 1,454 | 64.5 |
| Tennessee..... | 727 | 706 | 692 | 705 | 681 | 678 | 707 | 690 | 707 | 769 | 806 | 817 | 826 | 76.3 |
| Wisconsin..... | 5,237 | 5,190 | 5,027 | 5,661 | 5,625 | 5,368 | 5,474 | 5,307 | 5,259 | 5,302 | 4,365 | 4,612 | 5,034 | 76.8 |

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|--------------------|--------------|--------|--|--------------------|------------------|--------------------|-------|--------------------|--------|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| United States..... | 1919 | 54,368 | 169 | 76 | 2,372 | 27,952 | 6,256 | 15,180 | 2,348 | 15 |
| | 1914 | 48,459 | (²) | (²) | 4,461 | 2,632 | 4,559 | 25,258 | 11,530 | 10 |
| | 1900 | 50,551 | (²) | (²) | 453 | 2,029 | 4,081 | 27,549 | 16,307 | 132 |
| California..... | 1919 | 1,578 | 30 | (²) | 1,235 | 265 | 48 | ..... | ..... | ..... |
| | 1914 | 704 | (²) | (²) | 8 | 26 | 670 | ..... | ..... | ..... |
| Georgia..... | 1919 | 892 | ..... | ..... | 1 | 132 | 10 | 487 | 262 | ..... |
| | 1914 | 577 | ..... | ..... | ..... | 77 | ..... | 52 | 448 | ..... |
| Illinois..... | 1919 | 22,543 | ..... | ..... | 179 | 17,732 | 3,086 | 1,339 | 212 | ..... |
| | 1914 | 19,556 | (²) | (²) | 1,197 | 730 | 566 | 13,752 | 3,311 | ..... |
| Indiana..... | 1919 | 5,533 | ..... | ..... | 163 | 2,990 | 162 | 2,046 | 172 | ..... |
| | 1914 | 3,991 | (²) | (²) | 2,898 | 407 | 332 | ..... | 354 | ..... |
| Iowa..... | 1919 | 906 | ..... | 76 | 2 | 213 | 204 | 315 | 96 | ..... |
| | 1914 | 1,164 | (²) | (²) | 1 | 141 | 37 | 405 | 530 | ..... |
| Kentucky..... | 1919 | 773 | ..... | ..... | ..... | 58 | 11 | 698 | 6 | ..... |
| | 1914 | 660 | ..... | ..... | ..... | 32 | 28 | 599 | 1 | ..... |
| Michigan..... | 1919 | 2,708 | ..... | ..... | 2 | 219 | 120 | 2,266 | 101 | ..... |
| | 1914 | 2,143 | (²) | (²) | 199 | 411 | 788 | 411 | 334 | ..... |
| Minnesota..... | 1919 | 501 | ..... | ..... | 6 | 230 | 14 | 111 | 140 | ..... |
| | 1914 | 872 | (²) | (²) | 1 | ..... | 9 | 179 | 683 | ..... |
| New York..... | 1919 | 4,626 | ..... | ..... | 309 | 3,200 | 774 | 267 | 76 | ..... |
| | 1914 | 5,392 | ..... | ..... | ..... | 13 | 132 | 3,571 | 1,675 | 1 |
| Ohio..... | 1919 | 4,931 | 4 | ..... | 4 | 1,864 | 634 | 2,006 | 416 | 3 |
| | 1914 | 5,464 | (²) | (²) | 10 | 593 | 811 | 3,519 | 531 | ..... |
| Pennsylvania..... | 1919 | 1,371 | 125 | ..... | ..... | 540 | 343 | 262 | 101 | ..... |
| | 1914 | 2,018 | (²) | (²) | 1 | 16 | 571 | 1,178 | 252 | ..... |
| Tennessee..... | 1919 | 727 | 5 | ..... | ..... | 44 | 50 | 192 | 436 | ..... |
| | 1914 | 517 | ..... | ..... | ..... | ..... | 91 | ..... | 418 | 8 |
| Wisconsin..... | 1919 | 5,237 | ..... | ..... | 216 | 48 | 3 | 4,899 | 71 | ..... |
| | 1914 | 3,143 | (²) | (²) | 4 | 65 | 88 | 802 | 2,183 | 1 |

¹ Includes 48 and under for 1914 and 1900.

² Corresponding figures not available.

MANUFACTURES.

TABLE 7.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------|--------------------------------|---------------------------|---------------------------------|---------------|----------------------------------|---------------|-----------------------------------|---------------|------------------------------------|---------------|-------------------------------------|---------------|-------------------------------------|---------------|---------------------------------------|---------------|--------------------------|---------------|--|
| | Establishments. | Wage earners (average number). | No wage earners. | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | 251 to 500 wage earners, inclusive. | | 501 to 1,000 wage earners, inclusive. | | Over 1,000 wage earners. | | |
| | | | | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | |
| United States.....1919.. | 521 | 54,368 | 40 | 178 | 393 | 103 | 1,165 | 67 | 2,281 | 43 | 2,961 | 46 | 7,204 | 21 | 7,494 | 13 | 10,621 | 10 | 22,249 | |
|1914.. | 601 | 48,459 | 35 | 242 | 520 | 110 | 1,367 | 76 | 2,408 | 45 | 3,156 | 50 | 8,286 | 22 | 7,894 | 14 | 8,948 | 7 | 15,850 | |
| California..... | 34 | 1,578 | 2 | 19 | 35 | 7 | 84 | 3 | 124 | ..... | ..... | 2 | 335 | ..... | ..... | 1 | 1,000 | ..... | ..... |  |
| Georgia..... | 13 | 892 | 1 | 4 | 10 | 3 | 37 | 2 | 64 | ..... | ..... | 2 | 348 | 1 | 433 | ..... | ..... | ..... | ..... |  |
| Illinois..... | 68 | 22,543 | 5 | 13 | 39 | 7 | 66 | 4 | 141 | 11 | 768 | 12 | 1,896 | 5 | 1,780 | 7 | 5,910 | 4 | 11,045 | |
| Indiana..... | 29 | 5,533 | 1 | 7 | 17 | 6 | 71 | 5 | 144 | 3 | 200 | 3 | 496 | 2 | 710 | ..... | ..... | 2 | 3,880 | |
| Iowa..... | 26 | 906 | 2 | 9 | 18 | 8 | 90 | 2 | 75 | 1 | 77 | 4 | 646 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Kentucky..... | 8 | 773 | ..... | 4 | 5 | 2 | 28 | 1 | 42 | ..... | ..... | 1 | 208 | ..... | ..... | 1 | 698 | ..... | ..... |  |
| Michigan..... | 23 | 2,708 | ..... | 6 | 19 | 4 | 59 | 6 | 234 | 3 | 202 | 1 | 208 | 2 | 944 | ..... | ..... | 1 | 1,042 | |
| Minnesota..... | 16 | 501 | ..... | 5 | 14 | 5 | 56 | 4 | 141 | ..... | ..... | 2 | 290 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| New York..... | 40 | 4,626 | 1 | 8 | 12 | 10 | 120 | 12 | 378 | 3 | 210 | 1 | 111 | 2 | 748 | 1 | 859 | 2 | 2,188 | |
| Ohio..... | 46 | 4,931 | 3 | 14 | 36 | 5 | 70 | 4 | 152 | 4 | 325 | 9 | 1,493 | 5 | 1,593 | 2 | 1,262 | ..... | ..... |  |
| Pennsylvania..... | 27 | 1,371 | 7 | 3 | 7 | 4 | 33 | 4 | 115 | 4 | 244 | 3 | 347 | 2 | 625 | ..... | ..... | ..... | ..... |  |
| Tennessee..... | 14 | 727 | 1 | 4 | 9 | 3 | 34 | 2 | 87 | 2 | 133 | 1 | 119 | 1 | 345 | ..... | ..... | ..... | ..... |  |
| Wisconsin..... | 34 | 5,237 | 0 | 12 | 28 | 3 | 31 | 5 | 170 | 2 | 143 | 3 | 481 | 1 | 307 | 1 | 802 | 1 | 3,165 | |

TABLE 8.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|-------|-------|---------------------------------|--------|--------|--------------------|---------------|---------------|-----------------------------|--------------|--------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| All classes..... | 521 | 601 | 640 | 54,368 | 48,459 | 50,551 | \$304,961,265 | \$164,086,835 | \$146,329,268 | \$160,389,322 | \$90,578,190 | \$96,022,749 |
| Less than \$5,000..... | 98 | 169 | 166 | 74 | 176 | 171 | 241,262 | 407,827 | 359,971 | 126,093 | 250,073 | 227,415 |
| \$5,000 to \$20,000..... | 103 | 129 | 172 | 317 | 653 | 844 | 1,137,315 | 1,335,821 | 1,827,822 | 617,609 | 742,048 | 1,059,120 |
| \$20,000 to \$100,000..... | 130 | 142 | 142 | 1,672 | 2,662 | 2,928 | 6,617,812 | 6,845,330 | 6,927,862 | 3,425,192 | 3,789,067 | 3,779,091 |
| \$100,000 to \$500,000..... | 103 | 93 | 130 | 5,292 | 14,601 | 18,287 | 23,732,019 | 21,668,107 | 43,075,407 | 12,418,551 | 23,497,005 | 23,531,450 |
| \$500,000 to \$1,000,000..... | 29 | 32 | 34 | 4,388 | 30,367 | 30,321 | 20,611,793 | 21,398,998 | 94,138,206 | 10,958,839 | 62,299,997 | 57,425,628 |
| \$1,000,000 and over..... | 58 | 36 | 34 | 42,025 | 30,367 | 30,321 | 252,721,064 | 112,430,752 | 94,138,206 | 132,843,538 | 62,299,997 | 57,425,628 |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 18.8 | 28.1 | 24.4 | 0.1 | 0.4 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 |
| \$5,000 to \$20,000..... | 19.8 | 21.5 | 20.9 | 0.6 | 1.3 | 1.7 | 0.4 | 0.8 | 1.3 | 0.4 | 0.8 | 1.2 |
| \$20,000 to \$100,000..... | 25.0 | 23.6 | 22.2 | 3.1 | 5.5 | 5.8 | 2.2 | 4.2 | 4.7 | 2.1 | 4.2 | 4.4 |
| \$100,000 to \$500,000..... | 19.8 | 15.5 | 21.3 | 9.7 | 30.1 | 32.2 | 7.8 | 13.2 | 29.4 | 7.7 | 25.9 | 27.4 |
| \$500,000 to \$1,000,000..... | 5.6 | 5.3 | 5.3 | 8.1 | 62.7 | 60.0 | 6.7 | 13.0 | 64.3 | 6.8 | 68.8 | 60.8 |
| \$1,000,000 and over..... | 11.1 | 6.0 | 5.3 | 78.4 | 62.7 | 60.0 | 82.9 | 68.5 | 64.3 | 82.8 | 68.8 | 60.8 |

AGRICULTURAL IMPLEMENTS.

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TABLE 9.—CHARACTER OF OWNERSHIP, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Cen- sus year. | NUMBER OF ESTABLISH- MENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | VALUE OF PRODUCTS. | | | | | | | | |
|--------------------|----------------------|---|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|------------------------|-------------------------|-------------------------|------------------------|-------------------------|-----------------------------|-------------------------|-------------------------|------------------------|-------------------------|---------------------|--|--|--|--|
| | | | | | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | Of establishments owned by— | | | Per cent of total. | | | | | | |
| | | | | | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | | | |
| | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | | | | | |
| United States..... | 1919 | 139 | 308 | 74 | 54,368 | 546 | 53,029 | 793 | 1.0 | 97.5 | 1.5 | \$304,961,265 | \$2,391,965 | \$297,301,964 | \$5,267,336 | 0.8 | 97.5 | 1.7 | | | | |
| | 1914 | 188 | 318 | 95 | 48,459 | 819 | 46,233 | 1,407 | 1.7 | 95.4 | 2.9 | 164,086,835 | 2,087,503 | 157,490,390 | 4,508,942 | 1.3 | 96.0 | 2.7 | | | | |
| | 1909 | 184 | 349 | 107 | 50,551 | 965 | 48,141 | 1,445 | 1.9 | 95.2 | 2.9 | 146,329,268 | 2,174,866 | 140,683,675 | 3,490,827 | 1.5 | 96.1 | 2.4 | | | | |
| California..... | 1919 | 20 | 10 | 4 | 1,578 | 46 | 1,513 | 19 | 2.9 | 95.9 | 1.2 | 9,490,100 | 233,287 | 9,094,928 | 161,894 | 2.5 | 95.8 | 1.7 | | | | |
| | 1914 | 14 | 8 | 6 | 704 | 26 | 665 | 13 | 3.7 | 94.5 | 1.8 | 1,962,235 | 177,920 | 1,740,224 | 44,091 | 9.1 | 88.7 | 2.2 | | | | |
| Georgia..... | 1919 | 3 | 9 | 1 | 892 | 14 | 888 | ..... | 0.4 | 99.6 | ..... | 3,475,705 | 18,943 | 3,456,762 | ..... | 0.5 | 99.5 | ..... |  |  |  |  |
| | 1914 | 4 | 9 | 5 | 577 | 14 | 531 | 32 | 2.4 | 92.0 | 5.5 | 1,501,347 | 21,876 | 1,380,941 | 98,530 | 1.5 | 92.0 | 0.6 | | | | |
| Illinois..... | 1919 | 3 | 55 | 10 | 22,548 | 4 | 22,469 | 75 | (2) | 99.6 | 0.3 | 128,284,716 | 43,430 | 127,911,845 | 329,441 | (2) | 99.7 | 0.3 | | | | |
| | 1914 | 11 | 51 | 11 | 19,556 | 48 | 19,443 | 65 | 0.2 | 99.4 | 0.3 | 65,337,663 | 151,057 | 65,017,298 | 160,308 | 0.2 | 99.5 | 0.3 | | | | |
| Indiana..... | 1919 | 5 | 22 | 2 | 5,533 | 130 | 5,503 | ..... | 0.5 | 99.5 | ..... | 31,823,733 | 1102,304 | 31,721,429 | ..... | 0.3 | 99.7 | ..... |  |  |  |  |
| | 1914 | 8 | 23 | 2 | 3,991 | 132 | 3,969 | ..... | 0.8 | 99.2 | ..... | 12,791,481 | 155,657 | 12,735,804 | ..... | 0.4 | 99.6 | ..... |  |  |  |  |
| Iowa..... | 1919 | 4 | 17 | 5 | 906 | 21 | 871 | 14 | 2.3 | 96.1 | 1.5 | 5,959,129 | 66,306 | 5,899,261 | 83,562 | 1.1 | 97.5 | 1.4 | | | | |
| | 1914 | 9 | 16 | 9 | 1,164 | 12 | 965 | 187 | 1.0 | 82.9 | 16.1 | 5,216,245 | 48,430 | 4,300,685 | 887,130 | 0.9 | 82.4 | 16.6 | | | | |
| Michigan..... | 1919 | 6 | 16 | 1 | 2,708 | 195 | 2,613 | ..... | 3.5 | 96.5 | ..... | 11,090,660 | 1274,717 | 10,816,952 | ..... | 2.5 | 97.5 | ..... |  |  |  |  |
| | 1914 | 8 | 18 | 4 | 2,143 | 96 | 2,027 | 20 | 4.5 | 94.6 | 0.9 | 7,731,217 | 278,131 | 7,399,617 | 67,469 | 3.5 | 95.6 | 0.9 | | | | |
| Minnesota..... | 1919 | 3 | 12 | 1 | 501 | 11 | 490 | ..... | 2.2 | 97.8 | ..... | 2,341,811 | 146,635 | 2,294,676 | ..... | 2.0 | 98.0 | ..... |  |  |  |  |
| | 1914 | 3 | 11 | 3 | 872 | 5 | 857 | 10 | 0.6 | 98.3 | 1.1 | 3,812,728 | 21,785 | 8,740,339 | 50,604 | 0.6 | 98.1 | 1.3 | | | | |
| Missouri..... | 1919 | 4 | 7 | 3 | 254 | 33 | 213 | 8 | 13.0 | 83.9 | 3.1 | 1,455,774 | 150,450 | 1,258,402 | 47,922 | 10.3 | 86.4 | 3.3 | | | | |
| | 1914 | 6 | 9 | 3 | 240 | 41 | 192 | 7 | 17.1 | 80.0 | 2.9 | 509,904 | 116,600 | 390,034 | 63,270 | 20.5 | 68.4 | 11.1 | | | | |
| New York..... | 1919 | 10 | 24 | 6 | 4,626 | 72 | 4,487 | 67 | 1.6 | 97.0 | 1.4 | 20,421,368 | 236,562 | 19,846,625 | 338,181 | 1.2 | 97.2 | 1.7 | | | | |
| | 1914 | 14 | 29 | 7 | 5,392 | 90 | 5,263 | 39 | 1.7 | 97.6 | 0.7 | 14,676,694 | 187,918 | 14,137,363 | 251,413 | 1.3 | 97.0 | 1.7 | | | | |
| Ohio..... | 1919 | 5 | 34 | 7 | 4,931 | 4 | 4,531 | 396 | 0.1 | 91.9 | 8.0 | 26,556,031 | 35,175 | 23,104,938 | 3,355,918 | 0.1 | 87.2 | 12.6 | | | | |
| | 1914 | 14 | 41 | 4 | 5,404 | 59 | 5,232 | 173 | 1.1 | 95.8 | 3.2 | 17,484,615 | 168,920 | 16,385,978 | 979,717 | 1.0 | 93.4 | 5.6 | | | | |
| Pennsylvania..... | 1919 | 11 | 12 | 4 | 1,871 | 80 | 1,219 | 72 | 5.8 | 88.9 | 5.3 | 5,536,111 | 205,640 | 5,142,980 | 187,491 | 3.7 | 92.9 | 3.4 | | | | |
| | 1914 | 17 | 15 | 6 | 2,018 | 137 | 1,209 | 672 | 6.8 | 89.9 | 33.3 | 4,843,656 | 211,440 | 3,160,077 | 1,463,138 | 4.4 | 65.4 | 30.2 | | | | |
| Tennessee..... | 1919 | 2 | 9 | 3 | 727 | ..... | 706 | 121 | ..... | 97.1 | 2.9 | 2,516,339 | ..... | 2,143,159 | 1373,180 | ..... | 85.2 | 14.8 | | | | |
| | 1914 | 6 | 8 | 3 | 517 | 71 | 440 | 6 | 13.7 | 85.1 | 1.2 | 1,121,694 | 193,636 | 913,609 | 14,549 | 17.3 | 81.4 | 1.3 | | | | |
| Wisconsin..... | 1919 | 9 | 19 | 6 | 5,237 | 33 | 5,196 | 8 | 0.6 | 99.2 | 0.2 | 43,623,368 | 128,566 | 43,450,563 | 44,230 | 0.3 | 99.6 | 0.1 | | | | |
| | 1914 | 13 | 24 | 9 | 3,143 | 21 | 3,100 | 22 | 0.7 | 98.6 | 0.7 | 20,119,058 | 112,234 | 19,928,945 | 77,879 | 0.6 | 99.1 | 0.4 | | | | |

¹ Includes the group "All others."

² Less than one-tenth of 1 per cent.

³ Includes the group "Individuals."

TABLE 10.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|-------|-------|-------------|---------|---------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 5,108 | 3,437 | 1,794 | 128,249 | 121,428 | 100,601 | 100.0 | 100.0 | 100.0 |
| Owned..... | 574 | 823 | 862 | 80,407 | 90,492 | 84,717 | 62.7 | 74.5 | 84.2 |
| Steam..... | 324 | 470 | 504 | 69,942 | 79,688 | 71,894 | 54.5 | 65.6 | 71.5 |
| Engines..... | 303 | (2) | (2) | 51,107 | (2) | (2) | 39.8 | ..... | ..... |
| Turbines..... | 31 | (2) | (2) | 18,835 | (2) | (2) | 14.7 | ..... | ..... |
| Internal-combustion engines..... | 166 | 280 | 261 | 4,092 | 5,113 | 4,433 | 3.2 | 4.2 | 4.4 |
| Water wheels, turbines, and motors..... | 74 | 73 | 97 | 6,373 | 5,691 | 8,390 | 5.0 | 4.7 | 8.3 |
| Rented..... | 4,594 | 2,614 | 932 | 47,842 | 30,936 | 15,884 | 37.3 | 25.5 | 15.8 |
| Electric..... | 4,594 | 2,614 | 932 | 47,842 | 30,764 | 15,884 | 37.3 | 25.3 | 15.6 |
| Other..... | ..... | ..... | ..... | ..... | 172 | 200 | ..... | 0.1 | 0.2 |
| Electric..... | 7,993 | 5,789 | 2,057 | 100,263 | 83,117 | 38,905 | 100.0 | 100.0 | 100.0 |
| Rented..... | 4,594 | 2,614 | 932 | 47,842 | 30,764 | 15,884 | 47.7 | 37.0 | 40.3 |
| Generated by establishments reporting..... | 3,399 | 3,175 | 1,125 | 52,421 | 52,353 | 23,221 | 52.3 | 63.0 | 59.7 |

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

² Not reported separately.

MANUFACTURES.

TABLE 11.—FUEL CONSUMED, BY STATES: 1919.

| STATE. | Cen- sus year. | COAL. | | Coke (tons, 2,000 pounds). | Fuel oils (bar- rels). | Gasoline and other volatile oils (bar- rels). | Gas (1,000 cubic feet). | STATE. | Cen- sus year. | COAL. | | Coke (tons, 2,000 pounds). | Fuel oils (bar- rels). | Gasoline and other volatile oils (bar- rels). | Gas (1,000 cubic feet). |
|--|----------------------|--|--|-------------------------------------|---------------------------------|---|----------------------------------|---------------------|----------------------|--|--|-------------------------------------|---------------------------------|---|----------------------------------|
| | | Anthra- cite (tons, 2,240 pounds). | Bitumi- nous (tons, 2,000 pounds). | | | | | | | Anthra- cite (tons, 2,240 pounds). | Bitumi- nous (tons, 2,000 pounds). | | | | |
| United States.... | 1919 | 13,497 | 549,557 | 115,368 | 342,547 | 29,654 | 435,393 | Minnesota..... | 1919 | 3 | 3,646 | 630 | 35 | 124 | 26 |
| Per cent of in- crease ¹ | 1914 | 8,863 | 555,271 | 104,386 | 240,060 | (¹) | 234,349 | | 1914 | 8 | 5,707 | 1,407 | 369 | (¹) | 40 |
| | | 52.3 | -1.0 | 10.5 | 55.0 | (¹) | 85.8 | New Jersey..... | 1919 | 7,215 | 20 | 3,405 | 4,920 | 61 | 629 |
| California..... | 1919 | 63 | 450 | 807 | 13,185 | 4,772 | 14,916 | | 1914 | 697 | 291 | 308 | 1,713 | (¹) | 336 |
| | 1914 | 21 | 564 | 153 | 2,957 | (¹) | 5,106 | New York..... | 1919 | 2,096 | 56,910 | 10,595 | 25,354 | 939 | 3,320 |
| Georgia..... | 1919 | ..... | 3,938 | 2,390 | ..... | 818 | ..... |  | 1914 | 2,109 | 63,680 | 12,497 | 41,197 | (¹) | 9,561 |
| | 1914 | 4 | 4,720 | 1,531 | 6 | (¹) | ..... | Ohio..... | 1919 | 27 | 42,777 | 11,523 | 10,525 | 281 | 174,734 |
| Illinois..... | 1919 | 98 | 288,295 | 43,202 | 164,194 | 5,052 | 206,742 | | 1914 | ..... | 44,408 | 9,089 | 9,568 | (¹) | 193,261 |
| | 1914 | 536 | 289,849 | 40,500 | 131,241 | (¹) | 5,049 | Pennsylvania..... | 1919 | 3,104 | 10,851 | 1,177 | 12,243 | 184 | 1,458 |
| Indiana..... | 1919 | 34 | 56,328 | 15,526 | 63,604 | 9,429 | 1,616 | | 1914 | 2,400 | 16,903 | 1,601 | 11,047 | (¹) | 2,109 |
| | 1914 | 25 | 45,630 | 10,486 | 13,760 | (¹) | 826 | Tennessee..... | 1919 | 3 | 5,144 | 3,982 | 21 | 75 | 544 |
| Iowa..... | 1919 | 5 | 4,280 | 2,420 | 3,882 | 694 | 4,545 | | 1914 | ..... | 6,045 | 5,995 | 70 | (¹) | ..... |
| | 1914 | 551 | 7,073 | 1,295 | 579 | (¹) | 2,704 | Wisconsin..... | 1919 | 29 | 44,338 | 11,064 | 34,454 | 6,118 | 11,171 |
| Kentucky..... | 1919 | ..... | 3,097 | 66 | 120 | 5 | 12,213 | | 1914 | 96 | 29,342 | 6,340 | 6,403 | (¹) | 8,854 |
| | 1914 | ..... | 8,305 | 463 | 2 | (¹) | 392 | All other states... | 1919 | 738 | 6,443 | 3,699 | 5,985 | 990 | 1,727 |
| Michigan..... | 1919 | 82 | 23,040 | 4,882 | 4,465 | 112 | 1,722 | | 1914 | 2,301 | 9,512 | 3,635 | 9,436 | (¹) | 5,969 |
| | 1914 | 115 | 23,242 | 2,996 | 11,716 | (¹) | 146 | | | | | | | | |

¹ Included in figures for fuel oils.² A minus sign (-) denotes decrease.

SPECIAL STATISTICS.

Certain additional detailed information concerning the quantity and value of products for the industry is collected by means of supplemental schedules, data for which are presented in Table 12. In 1919, of the four specified classes of agricultural implements shown, "Plows and cultivators" was first in importance, measured by value of products, constituting 41 per cent of the total for the four groups and 21.4 per cent of the total value of all products of the industry. "Harvesting implements" held first position in this group in 1914 and was second in importance in 1919.

Large increases are shown in the values of "All other agricultural implements" and "Amount received for repair work" during the five-year period from 1914 to

1919, amounting to \$36,261,347, or 130.2 per cent, and \$11,509,243, or 800.8 per cent, respectively. During this five-year period "All other products" shows an increase of \$37,223,012, or 119 per cent. In 1919 "All other products" included tractors valued at \$42,697,610; engines, \$3,223,103; wagons, \$2,647,859; automobiles, \$2,190,067; and other miscellaneous products to the value of \$17,741,394. In an analysis of Table 12, relative to the number of the different kinds of implements manufactured from census to census, consideration should be given to the fact that in making comparisons there is considerable variety of sizes and types as well as to the fact that some establishments failed to report the number of implements separately.

AGRICULTURAL IMPLEMENTS.

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TABLE 12.—DETAILED STATISTICS OF QUANTITY AND VALUE: 1919, 1914, 1909, AND 1904.

| | 1919 | 1914 | 1909 | 1904 | | 1919 | 1914 | 1909 | 1904 |
|---|---------------|---------------|---------------|---------------|--|-----------|---------|---------|---------|
| Products, total value ¹ | \$304,961,265 | \$164,088,835 | \$146,329,268 | \$112,007,344 | Planters and seeders—Con. | | | | |
| Plows and cultivators..... | 65,329,111 | 38,662,087 | 36,784,477 | 30,607,960 | Seed sowers, hand, field..... | 86,763 | 12,608 | 7,847 | 59,910 |
| Planters and seeders..... | 17,490,403 | 12,188,757 | 12,141,474 | 11,225,122 | Seed drills, hand, garden..... | 8,971 | 43,113 | (2) | (2) |
| Harvesting implements: | | | | | Other planters and seeders.. | 16,198 | 4,124 | (2) | (2) |
| Hayrakes and hay tedders.. | 4,772,493 | 3,233,630 | 34,568,131 | 30,862,435 | Harvesting implements: | | | | |
| Mowers and reapers..... | 40,169,591 | 30,974,709 | | | Binders— | | | | |
| Other..... | 9,282,656 | 5,372,947 | | | Grain..... | 155,466 | 215,386 | 120,274 | 108,810 |
| Seed separators: | | | | | Corn..... | 22,880 | 52,037 | 19,693 | 6,924 |
| Thrashers..... | 16,593,273 | 9,832,043 | 11,030,412 | 6,639,883 | Grain cradles..... | 58,239 | 38,728 | 22,635 | 30,056 |
| Other..... | 5,771,870 | 3,204,246 | | | Grain elevators for use on farm..... | 5,995 | (*) | (*) | (*) |
| All other agricultural implements, including parts..... | 64,105,527 | 27,844,180 | 48,690,082 | 30,703,648 | Harvesters— | | | | |
| All other products..... | 68,500,033 | 31,277,021 | | | Bean..... | 9,528 | 3,401 | 1,409 | 665 |
| Amount received for repair work..... | 12,946,508 | 1,437,265 | 3,114,092 | 1,968,266 | Push..... | 2,337 | (*) | (*) | (*) |
| Principal kinds of implements. | | | | | Harvesters and thrashers combined..... | 2,302 | 270 | 543 | (*) |
| Implement of cultivation: | | | | | Other..... | 22,887 | 2,758 | 1,707 | 3,16 |
| Cultivators— | Number. | Number. | Number. | Number. | Headers..... | 4,187 | (*) | (*) | (*) |
| Beet..... | 7,088 | 2,184 | 3,172 | 3,459 | Hay carriers..... | 11,364 | 44,277 | 45,064 | 85,121 |
| Hand, garden, or garden plows..... | 419,085 | 238,081 | 469,696 | 239,173 | Hay forks, horse..... | 6,323 | 31,976 | 43,676 | 62,801 |
| One and two horse..... | 300,122 | 254,158 | | | Hay loaders..... | 20,570 | 25,865 | 34,705 | 27,174 |
| Wheeled— | | | | | Hay rakes— | | | | |
| One row..... | 144,269 | 347,329 | 435,429 | 313,088 | Sulky..... | 61,265 | 130,565 | 266,260 | 236,297 |
| Two rows..... | 44,847 | 31,605 | | | Sweep..... | 18,398 | 23,304 | | |
| Cotton scrapers..... | 10,807 | 17,537 | 20,180 | 22,519 | Side delivery..... | 14,270 | 20,213 | | |
| Fertilizing machines..... | 82,554 | 180,854 | (2) | (2) | Hay stackers..... | 7,690 | 6,437 | 17,212 | 8,670 |
| Harrows— | | | | | Hay tedders..... | 10,282 | 9,796 | 34,396 | 35,745 |
| Disk..... | 175,712 | 209,077 | 193,000 | 104,323 | Hay presses..... | 7,154 | (*) | (*) | (*) |
| Spring-tooth..... | 79,532 | 187,370 | 112,832 | 86,408 | Mowers..... | 151,133 | 274,521 | 359,264 | 273,385 |
| Spike-tooth..... | 222,799 | 368,219 | 394,988 | 262,442 | Other haying tools..... | 130,052 | 37,706 | (2) | (2) |
| Land rollers..... | 8,654 | 22,470 | (2) | (2) | Potato diggers, horse..... | 12,484 | 25,758 | 25,632 | 11,703 |
| Land packers..... | 19,501 | (*) | (*) | (*) | Reapers..... | 8,368 | 56,982 | 58,294 | 60,996 |
| Listers..... | 31,680 | 37,953 | 44,840 | 23,012 | Stalk cutters..... | 19,038 | (*) | (*) | (*) |
| Plows— | | | | | Other..... | 1,096,087 | 13,746 | (2) | (2) |
| Disk..... | 15,431 | 15,708 | 22,132 | 39,146 | Seed separators: | | | | |
| Gang..... | 42,240 | 75,839 | 91,686 | (*) | Clover hullers..... | 597 | 324 | 437 | 351 |
| Shovel..... | 103,887 | 181,550 | 254,737 | 121,899 | Corn huskers..... | 1,194 | 341 | 318 | 1,327 |
| Engine..... | 4,952 | 3,265 | 2,355 | 1,599 | Corn huskers and shredders..... | 2,884 | 4,338 | 1,294 | (2) |
| Sulky (single)..... | 60,909 | 108,232 | 134,936 | 138,899 | Corn pickers..... | 3,078 | (*) | (*) | (*) |
| Tractor..... | 98,836 | (*) | (*) | (*) | Corn shellers— | | | | |
| Walking..... | 720,174 | 870,414 | 1,110,006 | 956,898 | Hand..... | 37,272 | 63,200 | 74,223 | 47,189 |
| Pulverizers..... | 7,134 | 12,724 | (2) | (2) | Power..... | 8,486 | 11,113 | 9,019 | 6,082 |
| Other..... | 29,295 | 80,096 | (2) | (2) | Fanning mills..... | 18,302 | 23,047 | 33,805 | 22,094 |
| Planters and seeders: | | | | | Feed mills..... | 10,814 | (*) | (*) | (*) |
| Seeders..... | | | | | Thrashers— | | | | |
| Broadcast..... | 18,360 | 34,176 | 61,970 | 33,546 | Horsepower..... | 3,766 | 302 | 822 | 2,237 |
| Wagon or endgate..... | 16,391 | 16,122 | (2) | (2) | Engine..... | 16,182 | 13,246 | 12,957 | 7,950 |
| Seeder attachments..... | 34,339 | 10,000 | (2) | (2) | Other..... | 9,586 | 6,212 | (2) | (2) |
| Corn planters— | | | | | Miscellaneous: | | | | |
| Hand..... | 28,065 | 101,850 | 96,465 | 86,553 | Dairy machinery— | | | | |
| Horse..... | 87,976 | 114,657 | 122,780 | 90,029 | Cream separators..... | 11,255 | 1,001 | | |
| Cotton planters..... | 5,964 | 101,256 | 79,271 | 127,052 | Other..... | 80,891 | | | |
| Potato planters..... | 5,964 | 37,191 | 23,092 | 35,756 | Manure spreaders..... | 13,989 | | | |
| Drills— | | | | | Equalizers..... | 22,173 | | | |
| Corn..... | 20,809 | 55,710 | 20,137 | 28,228 | Knife grinders..... | 13,071 | (*) | (*) | (*) |
| Grain..... | 63,255 | 89,370 | 89,903 | 76,929 | Feed grinders..... | 18,013 | | | |
| All other..... | 5,870 | 10,688 | 32,507 | 606 | Ensilage cutters..... | 3,328 | | | |
| | | | | | Saw trucks..... | 21,172 | | | |
| | | | | | Pumps..... | 410 | | | |
| | | | | | Windmills..... | 14,044 | | | |
| | | | | | Spraying outfits..... | | | | |

¹ In addition to the amounts shown, agricultural implements to the value of \$14,938,340 in 1919, \$4,033,797 in 1914, \$2,989,276 in 1909, and \$1,319,679 in 1904 were made by establishments engaged primarily in the manufacture of products other than those covered by the industry designated.
² Not reported. ³ Not reported separately. ⁴ Includes 23,963 combination seeders. ⁵ Includes 21,292 disk drills of all kinds.

Summary, by states.—Table 13 gives, by states, the total value of each of the four principal groups of agricultural implements, as reported at the censuses of 1919, 1914, and 1909.

TABLE 13.—COMPARATIVE SUMMARY—FOUR CHIEF GROUPS OF AGRICULTURAL IMPLEMENTS, BY STATES. 1919, 1914, AND 1909.

| PRODUCT AND STATE. | 1919 | 1914 | 1909 | PRODUCT AND STATE. | 1919 | 1914 | 1909 |
|-----------------------------------|--------------|--------------|--------------|----------------------------------|--------------|--------------|--------------|
| Plows and cultivators, value..... | \$65,329,111 | \$38,662,087 | \$36,784,477 | Seed separators, value..... | \$22,364,943 | \$13,098,280 | \$11,030,417 |
| Illinois..... | 29,822,582 | 17,653,276 | 15,961,417 | Illinois..... | 5,603,590 | 2,183,640 | 1,847,02 |
| Indiana..... | 12,415,810 | 4,447,550 | 4,606,748 | Wisconsin..... | (1) | (1) | 1,435,296 |
| Ohio..... | 6,701,388 | 4,627,191 | 3,062,134 | Indiana..... | (1) | (1) | 2,748,913 |
| New York..... | 4,784,370 | 3,176,951 | 3,348,203 | Michigan..... | (1) | 2,109,552 | 1,753,043 |
| Wisconsin..... | 2,028,830 | 2,077,169 | 2,324,579 | Pennsylvania..... | 1,351,891 | 885,017 | 828,617 |
| Georgia..... | 1,114,452 | (1) | (1) | Ohio..... | 1,195,874 | 1,364,209 | 858,104 |
| Tennessee..... | 857,632 | (1) | (1) | All other states..... | 14,213,588 | 6,553,871 | 1,659,411 |
| Pennsylvania..... | 791,590 | 954,113 | 1,147,063 | Planters and seeders, value..... | 17,490,403 | 12,188,757 | 12,141,474 |
| California..... | 763,102 | (1) | (1) | Illinois..... | 5,352,515 | 3,654,223 | 4,142,23 |
| All other states..... | 6,049,355 | 5,725,797 | 6,354,273 | Ohio..... | (1) | (1) | 2,245,61 |
| Harvesting implements, value..... | 54,224,740 | 39,581,286 | 34,568,131 | Indiana..... | (1) | (1) | 1,499,635 |
| Illinois..... | 35,805,793 | 27,177,513 | 22,417,070 | Wisconsin..... | (1) | 2,032,753 | 1,639,29 |
| New York..... | 8,916,235 | 6,543,936 | 6,950,777 | New York..... | 460,159 | 463,999 | 247,35 |
| Ohio..... | 2,223,127 | 2,573,728 | 2,675,727 | All other states..... | 11,677,729 | 6,037,782 | 2,367,431 |
| Iowa..... | 1,610,684 | 936,505 | 1,157,701 | | | | |
| All other states..... | 5,668,901 | 2,349,606 | 2,366,856 | | | | |

¹ Included in "All other states" to avoid disclosing the operations of individual establishments.

MANUFACTURES.

In 1919 Illinois ranked first in the value of its manufactures of each of these four principal classes of agricultural implements. In 1914 Wisconsin held first position in the manufacture of seed separators, but the exact figures for the state were not published separately in order to avoid disclosing the operations of

individual establishments. In 1919, measured by value, about two-thirds of the harvesting implements, over two-fifths of plows and cultivators, nearly one-third of planters and seeders, and about one-fourth of seed separators were manufactured in Illinois.

GENERAL TABLES.

Table 14 gives for 1919, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the agricultural-implement industry.

Table 15 presents, for 1919, statistics in detail for the industry as a whole, and for each state that can be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 14.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

| STATE. | Census year. | Number of establishments. | Wage earners (average number). | Primary horsepower. | Expressed in thousands. | | |
|-----------------------|--------------|---------------------------|--------------------------------|---------------------|-------------------------|--------------------|--------------------|
| | | | | | Wages. | Cost of materials. | Value of products. |
| United States..... | 1919 | 521 | 54,368 | 128,249 | \$66,704 | \$144,572 | \$304,961 |
| | 1914 | 601 | 48,459 | 121,428 | 31,593 | 73,509 | 164,087 |
| | 1909 | 640 | 50,551 | 100,601 | 28,609 | 60,307 | 146,329 |
| California..... | 1919 | 34 | 1,578 | 4,668 | 1,996 | 3,717 | 9,490 |
| | 1914 | 28 | 704 | 1,533 | 560 | 900 | 1,962 |
| | 1909 | 25 | 622 | 1,186 | 451 | 1,441 | 2,670 |
| Georgia..... | 1919 | 13 | 892 | 2,072 | 651 | 1,813 | 3,476 |
| | 1914 | 18 | 577 | 1,516 | 230 | 845 | 1,501 |
| | 1909 | 17 | 552 | 1,307 | 190 | 583 | 1,117 |
| Illinois..... | 1919 | 68 | 22,548 | 54,608 | 28,342 | 65,160 | 128,285 |
| | 1914 | 73 | 19,556 | 50,044 | 15,638 | 32,878 | 65,338 |
| | 1909 | 79 | 19,240 | 38,040 | 11,718 | 24,824 | 57,208 |
| Indiana..... | 1919 | 29 | 5,533 | 10,864 | 7,401 | 12,615 | 31,824 |
| | 1914 | 33 | 3,991 | 10,892 | 2,556 | 3,487 | 12,791 |
| | 1909 | 39 | 4,749 | 9,254 | 2,565 | 4,834 | 13,670 |
| Iowa..... | 1919 | 26 | 906 | 2,296 | 1,082 | 2,822 | 5,950 |
| | 1914 | 34 | 1,164 | 2,459 | 704 | 2,052 | 5,216 |
| | 1909 | 42 | 1,318 | 2,554 | 683 | 2,171 | 4,757 |
| Kansas..... | 1919 | 14 | 129 | 268 | 118 | 453 | 770 |
| | 1914 | 11 | 64 | 233 | 40 | 154 | 315 |
| | 1909 | 18 | 126 | 434 | 74 | 162 | 369 |
| Michigan..... | 1919 | 23 | 2,708 | 6,197 | 3,003 | 5,048 | 11,091 |
| | 1914 | 30 | 2,143 | 5,941 | 1,456 | 2,640 | 7,731 |
| | 1909 | 32 | 2,359 | 5,195 | 1,261 | 2,890 | 9,273 |
| Minnesota..... | 1919 | 16 | 501 | 723 | 498 | 1,365 | 2,341 |
| | 1914 | 17 | 872 | 2,480 | 707 | 1,474 | 3,813 |
| | 1909 | 17 | 1,014 | 1,468 | 632 | 1,090 | 3,014 |
| Missouri..... | 1919 | 14 | 254 | 656 | 253 | 800 | 1,457 |
| | 1914 | 18 | 240 | 742 | 142 | 270 | 570 |
| | 1909 | 25 | 438 | 1,080 | 219 | 504 | 981 |
| New Jersey..... | 1919 | 10 | 219 | 591 | 239 | 700 | 1,365 |
| | 1914 | 9 | 270 | 518 | 178 | 445 | 931 |
| | 1909 | 10 | 224 | 724 | 112 | 327 | 755 |
| New York..... | 1919 | 40 | 4,626 | 12,736 | \$5,312 | \$9,940 | \$20,421 |
| | 1914 | 50 | 5,392 | 11,774 | 3,428 | 7,073 | 14,577 |
| | 1909 | 57 | 5,717 | 10,744 | 3,270 | 6,415 | 14,971 |
| North Carolina..... | 1919 | 17 | 230 | 431 | 244 | 319 | 877 |
| | 1914 | 17 | 149 | 389 | 71 | 98 | 305 |
| | 1909 | 22 | 132 | 356 | 50 | 90 | 262 |
| Ohio..... | 1919 | 46 | 4,931 | 10,470 | 5,076 | 12,907 | 26,556 |
| | 1914 | 59 | 5,464 | 11,677 | 3,826 | 7,810 | 17,485 |
| | 1909 | 55 | 5,997 | 9,867 | 3,155 | 6,319 | 14,440 |
| Pennsylvania..... | 1919 | 27 | 1,371 | 3,006 | 1,511 | 2,596 | 5,636 |
| | 1914 | 38 | 2,018 | 4,472 | 1,121 | 1,907 | 4,814 |
| | 1909 | 36 | 2,401 | 3,842 | 1,223 | 2,082 | 4,805 |
| Tennessee..... | 1919 | 14 | 727 | 2,041 | 720 | 1,237 | 2,516 |
| | 1914 | 17 | 517 | 1,450 | 253 | 301 | 1,122 |
| | 1909 | 16 | 645 | 1,236 | 268 | 413 | 1,001 |
| Vermont..... | 1919 | 10 | 241 | 1,141 | 200 | 291 | 601 |
| | 1914 | 9 | 311 | 1,245 | 182 | 310 | 696 |
| | 1909 | 11 | 360 | 1,104 | 185 | 272 | 553 |
| Virginia..... | 1919 | 14 | 239 | 507 | 242 | 369 | 926 |
| | 1914 | 20 | 269 | 530 | 122 | 168 | 484 |
| | 1909 | 16 | 272 | 503 | 117 | 244 | 516 |
| Washington..... | 1919 | 9 | 146 | 320 | 179 | 446 | 913 |
| | 1914 | 7 | 134 | 202 | 115 | 184 | 392 |
| Wisconsin..... | 1919 | 34 | 5,237 | 10,673 | 7,582 | 18,486 | 43,623 |
| | 1914 | 46 | 3,143 | 9,196 | 2,198 | 8,676 | 20,110 |
| | 1909 | 45 | 2,704 | 7,301 | 1,506 | 3,937 | 11,411 |
| All other states..... | 1919 | 63 | 1,352 | 3,881 | 1,452 | 3,438 | 6,034 |
| | 1914 | 67 | 1,481 | 4,117 | 940 | 1,747 | 3,895 |
| | 1909 | 78 | 1,681 | 4,316 | 930 | 1,679 | 4,464 |

AGRICULTURAL IMPLEMENTS.

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TABLE 15.—DETAILED STATEMENT, BY STATES: 1919.

| STATE. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | EXPENSES. | | |
|-------------------------------------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|----------------|--------|--------------|--|-----------|------------|----------------------|---------------------|---------------------|--|--|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | | | 16 and over. | | Under 16. | | Capital. | Salaries and wages. | | | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | Male. | Female. | Male. | Female. | Officials. | | Clerks, etc. | | | |
| | | | | | | | | Maximum month. | Minimum month. | | | | | | | | | | |
| United States.... | 521 | 67,177 | 321 | 2,866 | 7,276 | 2,346 | 54,368 | Fe 50,748 | Au 49,483 | 57,539 | 56,496 | 962 | 80 | 1 | Dollars. 366,962,952 | Dollars. 9,329,013 | Dollars. 12,596,730 | | |
| California..... | 34 | 2,283 | 29 | 88 | 420 | 168 | 1,578 | Ja 2,112 | Au 1,184 | 1,625 | 1,609 | 15 | 1 | ..... | 10,032,253 | 407,287 | 766,729 | | |
| Colorado..... | 5 | 30 | 4 | 4 | 2 | 1 | 19 | Se 30 | Fe 10 | 22 | 21 | ..... | 1 | ..... | 194,106 | 8,300 | 2,050 | | |
| Georgia..... | 13 | 974 | 5 | 23 | 35 | 14 | 892 | Fe 1,003 | Je 730 | 914 | 898 | 9 | 7 | ..... | 2,603,499 | 121,946 | 63,701 | | |
| Illinois..... | 68 | 20,555 | 27 | 1,025 | 2,103 | 852 | 22,548 | Fe 25,045 | Au 18,920 | 23,262 | 22,811 | 418 | 33 | ..... | 150,434,328 | 3,306,170 | 4,034,713 | | |
| Indiana..... | 29 | 7,149 | 10 | 313 | 979 | 314 | 5,533 | De 6,118 | Ap 5,054 | 6,122 | 5,937 | 176 | 9 | ..... | 42,534,365 | 1,098,908 | 1,432,434 | | |
| Iowa..... | 26 | 1,141 | 20 | 93 | 69 | 53 | 906 | De 991 | Au 854 | 1,017 | 985 | 22 | 10 | ..... | 5,232,384 | 327,991 | 156,642 | | |
| Kansas..... | 14 | 182 | 14 | 16 | 14 | 9 | 129 | Je 150 | Ja 108 | 140 | 140 | ..... | ..... | ..... | 1,223,022 | 40,800 | 26,599 | | |
| Kentucky..... | 8 | 1,272 | 4 | 20 | 368 | 107 | 773 | Mh 924 | Au 627 | 838 | 826 | 11 | 1 | ..... | 5,592,435 | 60,452 | 429,465 | | |
| Michigan..... | 23 | 3,259 | 8 | 138 | 273 | 132 | 2,708 | Ap 3,113 | Se 2,110 | 2,727 | 2,665 | 61 | 1 | ..... | 14,405,102 | 404,968 | 504,629 | | |
| Minnesota..... | 16 | 618 | 3 | 50 | 41 | 23 | 501 | Se 559 | My 448 | 554 | 549 | 5 | ..... | ..... | 2,623,932 | 115,820 | 77,806 | | |
| Missouri..... | 14 | 315 | 8 | 18 | 22 | 13 | 254 | Je 346 | De 190 | 257 | 256 | ..... | 1 | ..... | 1,893,814 | 42,844 | 41,248 | | |
| Nebraska..... | 8 | 82 | 10 | 2 | 1 | 3 | 66 | Se 84 | Ja 52 | 84 | 84 | ..... | ..... | ..... | 344,364 | 2,100 | 3,775 | | |
| New Jersey..... | 10 | 303 | 10 | 26 | 22 | 26 | 219 | Ja 234 | Oc 175 | 206 | 206 | ..... | ..... | ..... | 2,396,138 | 68,379 | 69,192 | | |
| New York..... | 40 | 5,539 | 25 | 259 | 488 | 141 | 4,626 | Fe 5,341 | Oc 3,779 | 5,268 | 5,134 | 134 | ..... | ..... | 27,473,112 | 708,142 | 817,813 | | |
| North Carolina..... | 17 | 269 | 14 | 17 | 5 | 3 | 230 | De 241 | Je 216 | 238 | 238 | ..... | ..... | ..... | 740,289 | 60,717 | 11,335 | | |
| Ohio..... | 46 | 5,991 | 27 | 240 | 585 | 208 | 4,931 | Mh 5,411 | Jy 4,406 | 5,283 | 5,216 | 67 | ..... | ..... | 27,884,087 | 946,901 | 1,130,340 | | |
| Pennsylvania..... | 27 | 1,687 | 22 | 76 | 158 | 60 | 1,371 | My 1,531 | Se 987 | 1,505 | 1,494 | 11 | ..... | ..... | 8,628,804 | 220,501 | 209,487 | | |
| Tennessee..... | 14 | 820 | 11 | 33 | 32 | 17 | 727 | De 826 | Jy 630 | 809 | 791 | 18 | ..... | ..... | 2,520,435 | 94,069 | 59,183 | | |
| Vermont..... | 10 | 267 | 2 | 15 | 3 | 6 | 241 | Mh 255 | Jy 226 | 286 | 231 | 5 | ..... | ..... | 858,148 | 44,903 | 9,252 | | |
| Virginia..... | 14 | 283 | 4 | 22 | 12 | 6 | 239 | Ja 282 | Je 188 | 254 | 253 | ..... | 1 | ..... | 836,232 | 69,814 | 18,899 | | |
| Washington..... | 9 | 177 | 8 | 16 | 6 | 1 | 146 | Je 207 | De 84 | 123 | 122 | ..... | 1 | ..... | 805,226 | 39,518 | 12,133 | | |
| Wisconsin..... | 34 | 7,341 | 21 | 319 | 1,599 | 165 | 5,237 | Mh 5,081 | Oc 4,365 | 5,582 | 5,564 | 6 | 12 | ..... | 54,956,330 | 1,005,179 | 2,564,729 | | |
| All other states ¹ | 42 | 640 | 35 | 48 | 39 | 24 | 494 | ..... | ..... | 473 | 466 | 4 | 2 | 1 | 2,701,247 | 133,298 | 94,587 | | |

| STATE. | EXPENSES—continued. | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | | | |
|-------------------------------------|-------------------------------|--------------------|------------------|---|----------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------------|-----------------|------------------------------|---------------------------|--------------------|--|--|
| | Salaries and wages—Continued. | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | | Electric horsepower generated in establishments reporting. | |
| | | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Owned. | | | | Rent- ¹ | | |
| | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ² | | | |
| | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | | | | | | | | |
| United States.... | 66,704,434 | 113,421 | 188,432 | 11,986,419 | 130,533,431 | 5,038,512 | 304,961,265 | 180,389,322 | 128,249 | 51,107 | 18,835 | 4,092 | 6,373 | 47,842 | 52,421 | |
| California..... | 1,066,168 | 24,715 | 12,527 | 1,078,312 | 3,592,172 | 124,930 | 9,490,109 | 5,773,007 | 4,668 | 95 | ..... | 616 | ..... | 3,957 | 164 | |
| Colorado..... | 25,834 | ..... | 1,025 | 681 | 56,126 | 1,830 | 122,050 | 64,094 | 57 | ..... | ..... | 5 | ..... | 52 | ..... |  |
| Georgia..... | 653,900 | 3,780 | 414 | 104,948 | 1,755,002 | 58,040 | 3,475,705 | 1,662,663 | 2,072 | 740 | ..... | 27 | ..... | 1,305 | ..... |  |
| Illinois..... | 28,342,271 | 47,081 | 50,244 | 4,734,058 | 62,893,409 | 2,265,411 | 128,254,716 | 63,124,896 | 54,608 | 22,000 | 10,134 | 72 | 1,090 | 21,312 | 24,979 | |
| Indiana..... | 7,401,107 | 20,779 | 3,452 | 2,075,023 | 12,167,408 | 447,424 | 31,823,733 | 19,208,811 | 10,864 | 3,848 | 3,350 | 73 | 2,025 | 1,568 | 7,516 | |
| Iowa..... | 1,082,273 | 350 | 3,149 | 184,829 | 2,740,546 | 81,651 | 5,959,129 | 3,136,932 | 2,396 | 305 | ..... | 90 | ..... | 1,992 | 2 | |
| Kansas..... | 117,451 | 1,083 | 2,300 | 5,460 | 446,101 | 6,002 | 769,914 | 316,911 | 268 | ..... | ..... | 63 | ..... | 205 | ..... |  |
| Kentucky..... | 866,749 | ..... | 776 | 432,327 | 2,241,379 | 38,634 | 4,407,137 | 2,127,124 | 2,073 | 653 | ..... | 31 | ..... | 1,389 | ..... |  |
| Michigan..... | 3,003,362 | 427 | 2,061 | 442,721 | 4,837,772 | 210,196 | 11,090,669 | 6,042,701 | 6,197 | 2,993 | ..... | 50 | ..... | 3,154 | 332 | |
| Minnesota..... | 498,176 | 253 | 1,619 | 26,929 | 1,319,700 | 35,570 | 2,341,311 | 986,041 | 723 | 340 | ..... | 14 | ..... | 369 | 221 | |
| Missouri..... | 252,540 | 1,000 | 4,780 | 15,242 | 774,376 | 25,887 | 1,456,774 | 656,511 | 656 | 280 | ..... | 61 | ..... | 315 | ..... |  |
| Nebraska..... | 69,319 | 18 | 4,737 | 1,720 | 197,167 | 9,613 | 349,828 | 143,048 | 185 | 70 | ..... | 11 | ..... | 104 | 33 | |
| New Jersey..... | 239,414 | ..... | 1,104 | 36,263 | 671,105 | 29,026 | 1,364,819 | 664,628 | 591 | 120 | ..... | 356 | 100 | 15 | ..... |  |
| New York..... | 5,311,978 | 4,921 | 23,076 | 672,855 | 9,432,590 | 507,164 | 20,421,363 | 10,481,614 | 12,730 | 5,619 | 1,512 | 601 | 1,096 | 3,308 | 5,794 | |
| North Carolina..... | 243,178 | 1,299 | 414 | 32,061 | 80,307 | 16,241 | 876,814 | 567,266 | 431 | 65 | 30 | 64 | ..... | 282 | 1 | |
| Ohio..... | 5,675,451 | 1,500 | 10,480 | 571,380 | 12,611,928 | 354,807 | 26,556,031 | 13,589,296 | 10,470 | 4,170 | 1,433 | 1,565 | 220 | 3,082 | 5,893 | |
| Pennsylvania..... | 1,541,228 | 150 | 240 | 125,041 | 2,420,777 | 175,504 | 5,536,111 | 2,939,830 | 3,006 | 1,035 | ..... | 50 | 100 | 921 | 1,486 | |
| Tennessee..... | 720,269 | 3,615 | 100 | 98,931 | 1,174,722 | 62,295 | 2,615,339 | 1,279,321 | 2,041 | 1,075 | ..... | 6 | 2 | 953 | ..... |  |
| Vermont..... | 200,401 | ..... | 84 | 14,544 | 267,725 | 23,143 | 600,912 | 310,044 | 1,141 | 220 | ..... | 40 | 585 | 298 | ..... |  |
| Virginia..... | 241,871 | 1,200 | 7,045 | 43,863 | 347,524 | 21,193 | 928,019 | 557,302 | 320 | 100 | ..... | 27 | 14 | 366 | ..... |  |
| Washington..... | 178,460 | 80 | 1,388 | 40,207 | 433,985 | 11,789 | 912,946 | 467,192 | 320 | ..... | ..... | ..... | ..... | 320 | ..... |  |
| Wisconsin..... | 7,582,321 | 70 | 45,928 | 1,285,284 | 17,990,871 | 494,920 | 43,623,368 | 25,137,777 | 10,673 | 5,953 | 2,375 | 163 | ..... | 2,182 | 5,903 | |
| All other states ² | 490,173 | 500 | 11,489 | 63,753 | 856,789 | 36,361 | 2,055,468 | 1,162,313 | 1,566 | 527 | ..... | 108 | 541 | 890 | 97 | |

¹ Same number reported for one or more other months.

² All other states embrace: Alabama, 1 establishment; Arkansas, 3; Connecticut, 2; Florida, 3; Idaho, 2; Louisiana, 3; Maine, 2; Maryland, 2; Massachusetts, 2; Mississippi, 2; New Hampshire, 2; North Dakota, 1; Oklahoma, 2; Oregon, 1; South Carolina, 3; South Dakota, 4; Texas, 5; Utah, 1; and West Virginia, 1.

³ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

⁴ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

BUTTONS.

GENERAL STATISTICS.

General character of the industry.—This report presents statistics for establishments engaged primarily in the manufacture of buttons, including those making button blanks or molds from the raw materials and those making finished buttons from either the raw materials or blanks. These establishments manufacture bone, shell, metal, celluloid, plastic, cloth-covered, porcelain, pearl, glass, horn, composition, vegetable ivory, and wood buttons, and shell button blanks. Snap fasteners are also made by some of the establishments.

Importance and growth of the industry.—Table 1 summarizes the statistics of each census since 1879, with percentages of increase for each period. With few exceptions increases are noticeable at each succeeding census. The large increases, however, from 1914 to 1919, in salaries and wages, cost of materials, and value of products, are due largely to a general rise of prices and wages following the World War, and do not, therefore, fairly measure the growth of the industry for that period. A truer index of industrial conditions is found in the increases in the average number of wage earners and primary horsepower. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes."

The value of products includes considerable duplication, due to the fact that most of the button blanks, backs, and parts, made by establishments engaged primarily in their manufacture, were utilized as materials by establishments manufacturing the finished button.

The actual value of products of the button industry is most nearly represented by the value of the complete buttons manufactured, which amounted to \$34,556,797 in 1919.

States, ranked by value of products.—New York, as shown by Table 2, was, preeminently, the leading state in 1919, as it has been for a number of preceding censuses. In 1919 this state reported 42.2 per cent of the total number of wage earners and 44.7 per cent of the total value of products. New Jersey, second in importance, contributed only 16.5 per cent and 16.8 per cent, respectively, of these two items. The industry is strongly centralized in the four adjoining states of Connecticut, New York, New Jersey, and Pennsylvania, with a total value of products of \$29,993,696, or 71.7 per cent of the total for the industry.

Some of the states (Arkansas, Kansas, Michigan, New Hampshire, West Virginia, and Wisconsin), for which data can not be given without disclosing the

operations of individual establishments, ranked higher than a number of those presented in the table.

Persons engaged in the industry.—The classification, by sex, for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. The age classification of the average number of wage earners in Table 3 is an estimate obtained by the method described in the "Explanation of terms." Figures by states will be found in Table 13.

Wage earners, by months.—As shown by Table 4, the number of wage earners employed in the industry month by month ranged from a maximum of 16,876 in November to a minimum of 14,594 in April, the minimum number being equivalent to 86.5 per cent of the maximum. Figures are given separately for all states reporting over 350 wage earners while for the United States the number of males and females is also shown. The table shows a number of states which employed a large proportion of female wage earners.

Prevailing hours of labor.—Table 5 shows a marked shortening of the working day for the industry since 1914. In that year only 19.9 per cent were reported as employed fewer than 54 hours per week as against 68 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 10.4 per cent of the total wage earners, as compared with 6.5 per cent in 1919.

Size of establishments, by average number of wage earners.—Analysis of Table 6 discloses the significant fact that 255 establishments, or 45.8 per cent of the total, employed fewer than six wage earners each, while only 499, or 3.2 per cent of the total number of wage earners, were employed therein. On the other hand, the establishments employing an average of more than 100 wage earners comprised only 6.5 per cent of the total number of establishments but employed 50.6 per cent of the total number of wage earners.

Size of establishments, by value of products.—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns of 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914. The statistics in Table 7 show the degree of concentration

of production in large establishments. In 1919 the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over" included 19 establishments, or 3.4 per cent of the total number for the industry; employed 5,422 wage earners, or 34.8 per cent of the total average number; and reported products to the value of \$16,729,971, or 40 per cent of the total value of products.

Character of ownership.—Table 8 emphasizes the predominance of the corporate form of ownership. Though corporations owned only 30 per cent of the total number of establishments of the industry in 1919, they employed 75.5 per cent of the total average number of wage earners, and reported 74.3 per cent of the value of products. During the five-year period

1914-1919 the average number of wage earners in corporations increased 1,739, or 17.4 per cent, and the value of products \$16,583,316, or 114.2 per cent.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 9, there was an increase in the total horsepower for the industry of 1,803 horsepower, or 12.5 per cent. This increase was wholly due to rented power, which shows an increase of 4,272 horsepower, or 98.4 per cent, while owned power decreased 2,469 horsepower, or 32.5 per cent, during the five-year period.

Fuel consumed.—Table 10 shows the principal kinds of fuel used by the industry in 1919 and 1914. In 1914 gasoline and other volatile oils were included in the total for fuel oils.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

| | 1919 | 1914 | 1909 | 1904 | 1899 | 1889 | 1879 | PER CENT OF INCREASE. ¹ | | | | | |
|------------------------------------|--------------|--------------|--------------|-------------|-------------|------------------|------------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 | 1889-1899 | 1879-1889 |
| Number of establishments..... | 557 | 517 | 444 | 275 | 238 | 106 | 124 | 7.7 | 16.4 | 61.5 | 15.5 | 121.5 | -14.5 |
| Persons engaged..... | 17,758 | 16,200 | 18,004 | 11,637 | 9,291 | (²) | (²) | 9.0 | -9.5 | 54.7 | 25.3 | ..... | ..... |
| Proprietors and firm members.. | 576 | 536 | 519 | 302 | 267 | (²) | (²) | 7.3 | 3.3 | 71.9 | 13.1 | ..... | ..... |
| Salaried employees..... | 1,606 | 1,249 | 1,058 | 768 | 339 | (²) | (²) | 28.6 | 18.1 | 37.8 | 126.5 | ..... | ..... |
| Wage earners (average number)..... | 15,577 | 14,511 | 16,427 | 10,567 | 8,685 | 3,831 | 5,825 | 7.3 | -11.7 | 55.5 | 21.7 | 126.7 | -34.2 |
| Primary horsepower..... | 16,201 | 14,398 | 12,831 | 6,932 | 4,105 | 1,680 | (²) | 12.5 | 12.2 | 83.8 | 67.6 | 147.9 | ..... |
| Capital..... | \$29,977,073 | \$19,075,374 | \$15,640,152 | \$7,783,900 | \$4,212,568 | \$3,088,265 | \$2,013,350 | 57.2 | 22.0 | 100.0 | 34.8 | 36.4 | 53.4 |
| Salaries and wages..... | 17,121,927 | 8,075,236 | 8,088,394 | 4,391,069 | 3,122,593 | 1,673,879 | 1,645,130 | 112.0 | -0.2 | 84.2 | 40.6 | 86.5 | 1.7 |
| Salaries..... | 3,319,328 | 1,650,837 | 1,299,217 | 711,473 | 296,358 | (²) | (²) | 102.9 | 27.1 | 82.6 | 140.1 | ..... | ..... |
| Wages..... | 13,772,599 | 6,424,399 | 6,789,177 | 3,680,196 | 2,826,238 | (²) | (²) | 114.4 | -5.4 | 84.5 | 30.2 | ..... | ..... |
| Paid for contract work..... | 338,200 | 83,933 | 269,984 | 30,638 | 88,040 | (²) | (²) | 303.0 | -68.6 | 771.4 | -65.2 | ..... | ..... |
| Rent and taxes..... | 1,188,560 | 427,198 | 270,374 | * 149,887 | * 98,715 | (²) | (²) | 178.2 | 58.0 | ..... | ..... | ..... | ..... |
| Cost of materials..... | 16,745,357 | 8,702,200 | 9,541,291 | 4,144,446 | 2,803,246 | 1,551,603 | 1,792,891 | 82.4 | -8.8 | 130.2 | 47.8 | 80.7 | -13.5 |
| Value of products..... | 41,840,459 | 20,711,979 | 22,708,065 | 11,138,709 | 7,095,010 | 4,210,795 | 4,449,542 | 102.0 | -8.8 | 104.0 | 44.7 | 82.5 | -5.2 |
| Value added by manufacture..... | 25,005,102 | 12,009,779 | 13,166,774 | 6,989,323 | 4,892,664 | 2,665,102 | 2,656,951 | 109.0 | -8.8 | 88.4 | 42.9 | 83.6 | 0.3 |

¹ A minus sign (-) denotes decrease.

² Figures not available.

* Exclusive of internal revenue.

⁴ Value of products less cost of materials.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Number of establishments. | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | | STATE. | Number of establishments. | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|--------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|-----------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States..... | 557 | 15,577 | 100.0 | .... | \$41,840 | 100.0 | .... | \$25,095 | 100.0 | .... | Indiana..... | 14 | 261 | 1.7 | 9 | 408 | 1.0 | 11 | 237 | 0.9 | 11 |
| New York..... | 243 | 6,568 | 42.2 | 1 | 18,698 | 44.7 | 1 | 11,216 | 44.7 | 1 | Missouri..... | 9 | 235 | 1.5 | 11 | 305 | 0.9 | 12 | 232 | 0.9 | 12 |
| New Jersey..... | 70 | 2,570 | 16.5 | 2 | 7,021 | 16.8 | 2 | 4,022 | 16.0 | 2 | Kentucky..... | 5 | 99 | 0.6 | 15 | 196 | 0.5 | 14 | 113 | 0.5 | 15 |
| Iowa..... | 77 | 2,091 | 13.4 | 3 | 5,615 | 13.4 | 3 | 3,139 | 12.5 | 3 | Ohio..... | 6 | 114 | 0.7 | 14 | 192 | 0.5 | 15 | 117 | 0.5 | 14 |
| Pennsylvania..... | 24 | 807 | 5.2 | 4 | 2,319 | 5.5 | 4 | 1,350 | 5.4 | 4 | Rhode Island..... | 3 | 33 | 0.2 | 20 | 104 | 0.2 | 16 | 56 | 0.2 | 17 |
| Connecticut..... | 16 | 768 | 4.9 | 5 | 1,956 | 4.7 | 5 | 1,291 | 5.2 | 5 | Minnesota..... | 5 | 54 | 0.3 | 17 | 88 | 0.2 | 18 | 51 | 0.2 | 18 |
| Illinois..... | 33 | 452 | 2.9 | 6 | 1,030 | 2.5 | 6 | 634 | 2.5 | 7 | California..... | 7 | 34 | 0.2 | 19 | 66 | 0.2 | 20 | 50 | 0.2 | 19 |
| Massachusetts..... | 17 | 385 | 2.5 | 7 | 1,018 | 2.4 | 7 | 756 | 3.0 | 6 | Washington..... | 3 | 5 | (¹) | 22 | 15 | (¹) | 21 | 11 | (¹) | 21 |
| | | | | | | | | | | | All other states..... | 25 | 1,101 | 7.1 | .... | 2,719 | 6.5 | .... | 1,814 | 7.2 | .... |

¹ Less than one-tenth of 1 per cent.

MANUFACTURES.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|---------------------------------------|----------------------|--------|--------|--------------|-----------------------|--------------|--|----------------------|--------|--------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| All classes..... | 1919 | 17,758 | 11,020 | 6,738 | 62.1 | 37.9 | Clerks and other subordinate salaried employees. | 1919 | 964 | 471 | 493 | 48.9 | 51.1 |
| | 1914 | 16,290 | 10,584 | 5,712 | 64.9 | 35.1 | | 1914 | 837 | 527 | 310 | 63.0 | 37.0 |
| | 1909 | 18,004 | 11,301 | 6,703 | 62.8 | 37.2 | | 1909 | 728 | 449 | 279 | 61.7 | 38.3 |
| Proprietors and officials..... | 1919 | 1,217 | 1,147 | 70 | 94.2 | 5.8 | Wage earners (average number)..... | 1919 | 15,577 | 9,402 | 6,175 | 60.4 | 39.6 |
| | 1914 | 948 | 911 | 37 | 96.1 | 3.9 | | 1914 | 14,511 | 8,146 | 5,365 | 55.0 | 45.0 |
| | 1909 | 849 | 814 | 35 | 95.9 | 4.1 | | 1909 | 16,427 | 10,038 | 6,389 | 61.1 | 38.9 |
| Proprietors and firm members.... | 1919 | 575 | 549 | 26 | 95.5 | 4.5 | 16 years of age and over..... | 1919 | 15,208 | 9,308 | 5,900 | 60.8 | 39.2 |
| | 1914 | 536 | 511 | 25 | 95.3 | 4.7 | | 1914 | 14,243 | 8,020 | 5,214 | 55.4 | 44.6 |
| | 1909 | 519 | 498 | 21 | 96.0 | 4.0 | | 1909 | 15,855 | 9,853 | 6,002 | 62.1 | 37.9 |
| Salaried officers of corporations.... | 1919 | 269 | 254 | 15 | 94.4 | 5.6 | Under 16 years of age..... | 1919 | 270 | 94 | 185 | 33.7 | 66.3 |
| | 1914 | 192 | 183 | 7 | 96.4 | 3.6 | | 1914 | 208 | 117 | 151 | 53.7 | 46.3 |
| | 1909 | 130 | 125 | 5 | 96.2 | 3.8 | | 1909 | 572 | 185 | 387 | 32.3 | 67.7 |
| Superintendents and managers.... | 1919 | 373 | 344 | 29 | 92.2 | 7.8 | | | | | | | |
| | 1914 | 220 | 215 | 5 | 97.7 | 2.3 | | | | | | | |
| | 1909 | 200 | 191 | 9 | 95.5 | 4.5 | | | | | | | |

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Average num- ber em- ployed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent mini- mum is of maxi- mum. |
|---|---|---|----------------|------------|---------------|--------------|--------|--------|---------------|-----------------|---------------|----------------|----------------|---|
| | | Janu- ary. | Febru- ary. | March. | April. | May. | June. | July. | August. | Sep- tember. | Octo- ber. | Novem- ber. | Decem- ber. | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 15,577 | 14,839 | 15,051 | 14,878 | <i>14,604</i> | 14,659 | 15,049 | 15,063 | 16,238 | 15,886 | 16,333 | 16,876 | 16,858 | 86.5 |
| Males..... | 9,402 | 9,029 | 9,092 | 8,975 | <i>8,723</i> | 8,692 | 8,966 | 9,248 | 9,701 | 9,612 | 9,927 | 10,297 | 10,562 | 82.8 |
| Females..... | 6,175 | <i>5,810</i> | 5,959 | 5,903 | 5,871 | 5,967 | 6,083 | 6,415 | 6,477 | 6,274 | 6,406 | 6,579 | 6,356 | 88.3 |
| 1914..... | 14,511 | 16,451 | 16,832 | 16,089 | 15,874 | 14,733 | 13,900 | 12,482 | <i>12,424</i> | 13,181 | 13,790 | 13,801 | 13,915 | 78.8 |
| 1909..... | 16,427 | <i>15,362</i> | 16,042 | 16,356 | 16,281 | 16,320 | 16,400 | 15,965 | 16,022 | 16,478 | 17,108 | 17,149 | 17,641 | 87.1 |
| Connecticut..... | 768 | 741 | <i>725</i> | 741 | 756 | 766 | 755 | 770 | 785 | 805 | 794 | 799 | 779 | 90.1 |
| Illinois..... | 452 | 462 | <i>404</i> | 406 | 448 | 447 | 434 | 418 | 445 | 455 | 468 | 491 | 546 | 74.0 |
| Iowa..... | 2,091 | 2,040 | 2,070 | 2,145 | 1,976 | <i>1,859</i> | 1,959 | 1,983 | 2,030 | 2,005 | 2,164 | 2,234 | 2,487 | 77.7 |
| Massachusetts..... | 385 | <i>320</i> | 329 | 349 | 362 | 377 | 389 | 422 | 408 | 404 | 417 | 425 | 418 | 75.3 |
| New Jersey..... | 2,570 | <i>2,340</i> | 2,345 | 2,399 | 2,436 | 2,497 | 2,567 | 2,639 | 2,712 | 2,689 | 2,700 | 2,764 | 2,762 | 84.7 |
| New York..... | 6,568 | <i>6,637</i> | 6,301 | 6,319 | 6,304 | 6,367 | 6,463 | 6,758 | 7,000 | 6,774 | 6,860 | 7,016 | 6,617 | 86.0 |
| Pennsylvania..... | 807 | 813 | 852 | 748 | <i>744</i> | 765 | 808 | 819 | 845 | 754 | 833 | 855 | 853 | 87.0 |
| States showing large proportion of females. | | | | | | | | | | | | | | Per ct. av. is of state. |
| Connecticut..... | 355 | 338 | 333 | 347 | 361 | 366 | 357 | 361 | 370 | 374 | 356 | 356 | 341 | 48.2 |
| Iowa..... | 768 | 733 | 776 | 783 | 758 | 759 | 742 | 766 | 730 | 711 | 783 | 818 | 857 | 36.7 |
| New Jersey..... | 824 | 735 | 722 | 760 | 758 | 817 | 833 | 852 | 870 | 876 | 878 | 896 | 891 | 32.1 |
| New York..... | 3,104 | <i>2,896</i> | 3,015 | 3,012 | 2,990 | 3,022 | 3,100 | 3,292 | 3,249 | 3,144 | 3,182 | 3,295 | 3,081 | 47.3 |
| Pennsylvania..... | 292 | 331 | 349 | <i>262</i> | 267 | 267 | 285 | 300 | 309 | 271 | 296 | 294 | 273 | 36.2 |

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|--------------------|-----------------|--------|--|-----------------------|------------------|-----------------------|-------|-----------------------|-------|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| United States..... | 1919 | 15,577 | 1,901 | 152 | 4,719 | 3,880 | 1,475 | 2,442 | 1,004 | 4 |
| | 1914 | 14,511 | (²) | (²) | 388 | 2,506 | 5,130 | 4,978 | 1,508 | 1 |
| | 1909 | 16,427 | (²) | (²) | 211 | 934 | 1,736 | 10,306 | 2,960 | 280 |
| Connecticut..... | 1919 | 768 | 32 | ..... | 71 | 72 | ..... | 593 | ..... | ..... |
| | 1914 | 1,063 | ..... | ..... | 170 | ..... | 59 | 834 | ..... | ..... |
| Illinois..... | 1919 | 452 | 45 | 36 | 106 | 55 | 74 | 91 | 45 | ..... |
| | 1914 | 696 | (²) | (²) | 67 | 182 | 89 | 77 | 281 | ..... |
| Iowa..... | 1919 | 2,091 | 45 | 2 | 1 | 615 | 333 | 989 | 102 | 4 |
| | 1914 | 2,406 | (²) | (²) | 3 | 362 | 664 | 824 | 553 | ..... |
| Massachusetts..... | 1919 | 385 | 68 | ..... | 90 | 199 | 28 | ..... | ..... | ..... |
| | 1914 | 485 | ..... | ..... | ..... | 40 | 380 | 65 | ..... | ..... |
| New Jersey..... | 1919 | 2,570 | 40 | ..... | 974 | 1,057 | 361 | 138 | ..... | ..... |
| | 1914 | 1,778 | (²) | (²) | 74 | 59 | 165 | 1,472 | 3 | ..... |
| New York..... | 1919 | 6,568 | 1,587 | 109 | 2,421 | 1,632 | 168 | 301 | 350 | ..... |
| | 1914 | 5,223 | (²) | (²) | 194 | 852 | 3,273 | 902 | 2 | ..... |
| Pennsylvania..... | 1919 | 807 | 27 | 4 | 275 | 60 | 391 | 19 | 31 | ..... |
| | 1914 | 1,154 | (²) | (²) | 2 | 587 | 149 | 279 | 137 | ..... |

¹ Includes 48 and under for 1914 and 1909² Corresponding figures not available.

TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | |
|--------------------|-----------------|--------------------------------|---------------------------|---------------------------------|---------------|----------------------------------|---------------|-----------------------------------|---------------|------------------------------------|---------------|-------------------------------------|---------------|-------------------------------------|---------------|---------------------------------------|---------------|
| | Establishments. | Wage earners (average number). | No wage earners. | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | 251 to 500 wage earners, inclusive. | | 501 to 1,000 wage earners, inclusive. | |
| | | | Establishments. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. |
| United States: | | | | | | | | | | | | | | | | | |
| 1919..... | 557 | 15,577 | 43 | 212 | 499 | 147 | 1,879 | 80 | 2,552 | 39 | 2,786 | 28 | 4,311 | 6 | 1,956 | 2 | 1,614 |
| 1914..... | 517 | 14,511 | 18 | 213 | 528 | 117 | 1,304 | 93 | 2,970 | 45 | 3,238 | 23 | 3,539 | 7 | 2,355 | 1 | 577 |
| Connecticut..... | 16 | 768 | 1 | 6 | 15 | 1 | 19 | 5 | 174 | 1 | 80 | 1 | 194 | 1 | 286 | | |
| Illinois..... | 33 | 452 | 4 | 10 | 17 | 12 | 159 | 4 | 105 | 3 | 171 | | | | | | |
| Iowa..... | 77 | 2,091 | 4 | 28 | 70 | 24 | 294 | 9 | 282 | 5 | 367 | 7 | 1,078 | | | | |
| Massachusetts..... | 17 | 385 | | 7 | 20 | 4 | 42 | 3 | 103 | 3 | 220 | | | | | | |
| New Jersey..... | 70 | 2,570 | 2 | 19 | 41 | 21 | 333 | 13 | 381 | 9 | 704 | 5 | 756 | 1 | 355 | | |
| New York..... | 243 | 6,568 | 27 | 115 | 261 | 49 | 580 | 26 | 848 | 11 | 771 | 10 | 1,518 | 3 | 976 | 2 | 1,614 |
| Pennsylvania..... | 24 | 807 | | 7 | 20 | 8 | 113 | 4 | 134 | 2 | 149 | 3 | 391 | | | | |

TABLE 7.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|-------|-------|---------------------------------|--------|--------|--------------------|--------------|--------------|-----------------------------|--------------|--------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| | | | | | | | | | | | | |
| All classes..... | 557 | 517 | 444 | 15,577 | 14,511 | 16,427 | \$41,840,459 | \$20,711,979 | \$22,708,065 | \$25,095,102 | \$12,009,779 | \$13,106,774 |
| Less than \$5,000..... | 122 | 169 | 120 | 138 | 294 | 250 | 327,207 | 412,654 | 299,831 | 244,624 | 200,533 | 211,923 |
| \$5,000 to \$20,000..... | 102 | 102 | 145 | 684 | 1,488 | 1,312 | 1,674,282 | 1,736,146 | 1,537,671 | 1,109,907 | 1,119,357 | 993,337 |
| \$20,000 to \$100,000..... | 181 | 144 | 121 | 3,650 | 5,133 | 4,801 | 8,298,406 | 6,196,609 | 5,653,390 | 5,069,497 | 3,613,081 | 3,430,368 |
| \$100,000 to \$500,000..... | 73 | 38 | | 5,683 | 7,506 | 10,064 | 11,810,593 | 9,350,072 | | 9,053,610 | | |
| \$500,000 to \$1,000,000..... | 16 | 4 | 58 | 3,514 | | | 11,802,287 | 3,016,468 | 15,217,173 | 6,796,152 | 6,086,808 | 8,581,140 |
| \$1,000,000 and over..... | 3 | | | 1,908 | | | 4,927,684 | | | 2,821,312 | | |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 21.9 | 32.7 | 27.0 | 0.9 | 2.0 | 1.5 | 0.8 | 2.0 | 1.3 | 1.0 | 2.4 | 1.6 |
| \$5,000 to \$20,000..... | 29.1 | 31.3 | 32.7 | 4.4 | 10.3 | 8.0 | 4.0 | 8.4 | 6.8 | 4.4 | 9.3 | 7.6 |
| \$20,000 to \$100,000..... | 32.5 | 27.9 | 27.3 | 23.4 | 35.4 | 29.2 | 19.3 | 29.9 | 24.9 | 20.2 | 30.1 | 26.0 |
| \$100,000 to \$500,000..... | 13.1 | 7.3 | | 36.5 | 52.3 | 61.3 | 35.4 | 45.1 | | 36.1 | | 64.8 |
| \$500,000 to \$1,000,000..... | 2.9 | 0.8 | 13.0 | 22.6 | | | 28.2 | 14.6 | 67.0 | 27.1 | 58.2 | |
| \$1,000,000 and over..... | 0.5 | | | 12.2 | | | 11.8 | | | 11.2 | | |

TABLE 8.—CHARACTER OF OWNERSHIP: 1919 AND 1914.

| CHARACTER OF OWNERSHIP. | Census year. | Number of establishments. | Average number of wage earners. | Value of products. | Value added by manufacture. | CHARACTER OF OWNERSHIP. | Census year. | Number of establishments. | Average number of wage earners. | Value of products. | Value added by manufacture. |
|-------------------------|--------------|---------------------------|---------------------------------|--------------------|-----------------------------|-------------------------|--------------|---------------------------|---------------------------------|--------------------|-----------------------------|
| All classes..... | 1919 | 557 | 15,577 | \$41,840,459 | \$25,095,102 | Per cent of total: | 1919 | 45.8 | 13.7 | 14.0 | 13.7 |
| | 1914 | 517 | 14,511 | 20,711,979 | 12,009,779 | | 1914 | 45.5 | 15.9 | 14.5 | 15.7 |
| Individual..... | 1919 | 255 | 2,130 | 5,849,799 | 3,430,573 | | 1919 | 30.0 | 75.5 | 74.3 | 74.8 |
| | 1914 | 235 | 2,308 | 3,011,907 | 1,887,155 | | 1914 | 28.0 | 69.1 | 70.1 | 70.0 |
| Corporation..... | 1919 | 167 | 11,760 | 31,108,265 | 18,779,195 | All other..... | 1919 | 24.2 | 10.8 | 11.7 | 11.5 |
| | 1914 | 145 | 10,021 | 14,524,949 | 8,412,066 | | 1914 | 26.5 | 15.0 | 15.3 | 14.2 |
| All other..... | 1919 | 135 | 1,687 | 4,882,395 | 2,885,334 | | | | | | |
| | 1914 | 137 | 2,182 | 3,175,123 | 1,710,558 | | | | | | |

MANUFACTURES.

TABLE 9.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|-------|-------|-------------|--------|--------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 1,104 | 734 | 505 | 16,201 | 14,398 | 12,831 | 100.0 | 100.0 | 100.0 |
| Owned..... | 142 | 200 | 216 | 7,589 | 10,058 | 9,235 | 46.8 | 69.8 | 72.6 |
| Steam..... | 65 | 97 | 110 | 6,275 | 8,838 | 7,602 | 38.7 | 61.4 | 59.2 |
| Engines..... | 64 | (2) | (2) | 5,975 | (2) | (2) | 36.9 | ..... | ..... |
| Turbines..... | 1 | (2) | (2) | 300 | (2) | (2) | 1.9 | ..... | ..... |
| Internal-combustion engines..... | 71 | 93 | 92 | 1,047 | 826 | 783 | 6.5 | 5.7 | 6.1 |
| Water wheels and turbines..... | 6 | 10 | 14 | 267 | 394 | 850 | 1.6 | 2.7 | 6.6 |
| Rented..... | 962 | 534 | 289 | 8,612 | 4,340 | 3,596 | 53.2 | 30.1 | 28.0 |
| Electric..... | 962 | 534 | 289 | 8,117 | 3,951 | 2,883 | 50.1 | 27.4 | 22.1 |
| Other..... | ..... | ..... | ..... | 495 | 389 | 763 | 3.1 | 2.7 | 6.0 |
| Electric..... | 909 | 650 | 362 | 8,715 | 5,016 | 3,416 | 100.0 | 100.0 | 100.0 |
| Rented..... | 902 | 534 | 289 | 8,117 | 3,951 | 2,883 | 93.1 | 78.8 | 82.9 |
| Generated by establishments reporting..... | 37 | 116 | 73 | 598 | 1,065 | 583 | 6.0 | 21.2 | 17.1 |

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.² Not reported separately.

TABLE 10.—FUEL CONSUMED: 1919 AND 1914.

| KIND. | QUANTITY. | | KIND. | QUANTITY. | |
|--------------------------------------|-----------|--------|---|-----------|--------|
| | 1919 | 1914 | | 1919 | 1914 |
| Coal..... | 54,961 | 50,445 | Fuel oils (barrels)..... | 625 | 7,005 |
| Anthracite (tons, 2,240 pounds)..... | 7,094 | 9,763 | Gasoline and other volatile oils (barrels)..... | 795 | (1) |
| Bituminous (tons, 2,000 pounds)..... | 47,867 | 40,682 | Gas (1,000 cubic feet)..... | 29,576 | 31,492 |
| Coke (tons, 2,000 pounds)..... | 188 | 53 | | | |

¹ Included in figures for fuel oils.

SPECIAL STATISTICS.

Products, classified according to kind and to materials used.—Certain additional detailed information concerning the quantity and value of products for the industry was collected by means of supplemental schedules, data for which are presented in Table 11.

Plain and fancy buttons for fastenings and for ornamentation are manufactured in all sizes and styles and from many kinds of materials. In 1919, as in 1914,

buttons made from "pearl or shell" were first in importance, measured by value of products and quantity produced, representing 42.7 per cent and 43.3 per cent, respectively, of the total for the industry.

During the five-year period 1914–1919 there was an increase of 10.7 per cent in the total quantity, while the value of all buttons manufactured increased 114.3 per cent.

TABLE 11.—DETAILED STATISTICS OF QUANTITY AND VALUE: 1919 AND 1914.

| | 1919 | | 1914 | | | 1919 | | 1914 | |
|--|-------------------|--------------|-------------------|--------------|---|-------------------|-----------|-------------------|-----------|
| | Quantity (gross). | Value. | Quantity (gross). | Value. | | Quantity (gross). | Value. | Quantity (gross). | Value. |
| Products, total value ¹..... | ..... | \$41,840,459 | ..... | \$20,711,979 | | | | | |
| Buttons..... | 68,981,823 | 34,556,797 | 62,318,824 | 16,121,873 | Buttons—Continued. | | | | |
| Bone..... | 2,170,800 | 509,165 | 2,198,946 | 329,934 | Pearl or shell— | | | | |
| Celluloid, plastic..... | 2,210,181 | 3,323,148 | 623,169 | 724,354 | Fresh-water..... | 23,969,125 | 8,199,639 | 21,604,436 | 4,879,844 |
| Collar and cuff..... | 974,140 | 80,114 | 1,771,053 | 55,261 | Ocean..... | 5,892,344 | 6,564,105 | 4,510,809 | 2,489,364 |
| Glass..... | 570,949 | 260,948 | 217,224 | 100,261 | Shoe..... | 5,235,169 | 632,217 | 15,520,037 | 610,790 |
| Horn..... | 2,574,822 | 1,110,957 | 537,096 | 299,487 | Covered..... | 2,871,989 | 1,769,162 | 3,017,436 | 1,600,178 |
| Metal (not including trouser, or collar and cuff)— | | | | | Trouser..... | 8,113,327 | 2,811,991 | 6,694,795 | 2,337,059 |
| Dress or uniform..... | 338,026 | 433,888 | 257,823 | 283,352 | Ivory or vegetable ivory (not including trouser)..... | 7,835,296 | 7,676,455 | 3,221,163 | 1,842,760 |
| All other..... | 433,341 | 183,093 | 614,740 | 172,133 | Others, not specified..... | 5,732,317 | 1,001,915 | 1,463,937 | 396,150 |
| | | | | | Parts of buttons..... | 3,554,122 | 1,069,705 | 388,201 | 111,325 |
| | | | | | Blanks or molds..... | 13,092,734 | 3,091,671 | 14,304,148 | 2,546,406 |
| | | | | | Snap fasteners and clasps ² | 193,054 | 1,159,046 | 411,385 | 411,385 |
| | | | | | All other products..... | 2,928,932 | ..... | ..... | 1,717,990 |

¹ In addition, in 1919, buttons to the value of \$1,147,693 were manufactured by establishments engaged primarily in other industries; and, in 1914, to the value of \$482,061.

² In 1919 approximately 2,122,000 great gross of snap fasteners were reported by manufacturers of needles, pins, and hooks and eyes, and, in 1914, 260,000 great gross.

GENERAL TABLES.

Table 12 gives, for 1919, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the button industry.

Table 13 presents, for 1919, statistics in detail for the industry as a whole, and for each state that can be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 12.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

| STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. | STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. |
|--------------------|----------------------|---|---|----------------------------------|-------------------------|-------------------------|----------------------------|-----------------------|----------------------|---|---|----------------------------------|-------------------------|-------------------------|----------------------------|
| | | | | | | | | | | | | | | | |
| | | | | | Expressed in thousands. | | | | | | | | Expressed in thousands. | | |
| United States..... | 1919 | 557 | 15,577 | 16,201 | \$13,773 | \$16,745 | \$41,840 | Missouri..... | 1919 | 9 | 235 | 287 | \$176 | \$163 | \$395 |
| | 1914 | 517 | 14,511 | 14,398 | 6,424 | 8,702 | 20,712 | | 1914 | 9 | 282 | 295 | 87 | 108 | 257 |
| | 1909 | 444 | 16,427 | 12,831 | 6,789 | 9,541 | 22,708 | | 1909 | 10 | 362 | 232 | 108 | 87 | 266 |
| California..... | 1919 | 7 | 34 | 23 | 27 | 16 | 66 | New Jersey..... | 1919 | 70 | 2,570 | 2,528 | 2,492 | 3,000 | 7,021 |
| | 1914 | 9 | 32 | 33 | 13 | 14 | 49 | | 1914 | 60 | 1,773 | 1,612 | 856 | 1,077 | 2,509 |
| | 1909 | | | | | | | | 1909 | 64 | 2,261 | 1,232 | 913 | 1,183 | 2,750 |
| Connecticut..... | 1919 | 16 | 768 | 1,154 | 654 | 664 | 1,959 | New York..... | 1919 | 243 | 6,598 | 6,262 | 5,349 | 7,482 | 18,698 |
| | 1914 | 18 | 1,063 | 882 | 492 | 613 | 1,498 | | 1914 | 224 | 5,223 | 4,449 | 2,251 | 3,224 | 7,821 |
| | 1909 | 20 | 1,057 | 1,673 | 465 | 735 | 1,635 | | 1909 | 165 | 6,126 | 3,911 | 2,492 | 4,168 | 9,373 |
| Illinois..... | 1919 | 33 | 452 | 393 | 357 | 397 | 1,030 | Ohio..... | 1919 | 6 | 114 | 93 | 83 | 75 | 192 |
| | 1914 | 31 | 696 | 470 | 324 | 305 | 765 | | 1914 | 9 | 157 | 107 | 64 | 68 | 155 |
| | 1909 | 28 | 548 | 275 | 247 | 237 | 676 | | 1909 | 5 | 151 | 73 | 55 | 30 | 114 |
| Indiana..... | 1919 | 14 | 261 | 267 | 170 | 172 | 408 | Pennsylvania..... | 1919 | 24 | 807 | 789 | 1,613 | 962 | 2,319 |
| | 1914 | 12 | 284 | 104 | 106 | 95 | 234 | | 1914 | 21 | 1,154 | 1,318 | 477 | 867 | 1,741 |
| | 1909 | 5 | 170 | 88 | 61 | 28 | 117 | | 1909 | 24 | 1,123 | 858 | 404 | 746 | 1,565 |
| Iowa..... | 1919 | 77 | 2,091 | 2,340 | 1,519 | 2,477 | 5,615 | All other states..... | 1919 | 41 | 1,292 | 1,583 | 1,112 | 1,075 | 3,122 |
| | 1914 | 81 | 2,406 | 3,086 | 1,009 | 1,473 | 3,255 | | 1914 | 29 | 956 | 1,062 | 515 | 582 | 1,699 |
| | 1909 | 70 | 3,172 | 2,809 | 1,412 | 1,414 | 4,035 | | 1909 | 41 | 798 | 782 | 361 | 504 | 1,199 |
| Massachusetts..... | 1919 | 17 | 385 | 482 | 311 | 262 | 1,018 | | | | | | | | |
| | 1914 | 14 | 485 | 614 | 230 | 276 | 728 | | | | | | | | |
| | 1909 | 12 | 659 | 898 | 301 | 409 | 978 | | | | | | | | |

MANUFACTURES.

TABLE 13.—DETAILED STATEMENT, BY STATES: 1919.

| STATE. | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | EXPENSES. | | |
|-------------------------------------|--------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|--------------------|--------|--------|--|-------|-----------|--------------|-------------|---------------------|--|--|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | | | Total. | 16 and over. | | Under 16. | | Capital. | Salaries and wages. | | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | Male. | | Female. | Male. | Female. | Officials. | | Clerks, etc. | | |
| | | | | | | | | Maximum month. | Minimum month. | | | | | | | | | | |
| United States..... | 557 | 17,758 | 575 | 642 | 471 | 493 | 15,577 | No 16,876 | Ap 14,594 | 17,398 | 10,615 | 6,475 | 110 | 198 | \$29,977,973 | \$1,993,905 | \$1,355,363 | | |
| California..... | 7 | 45 | 7 | 3 | ..... | 1 | 34 | Ap ¹ 85 | No ¹ 32 | 35 | 9 | 26 | ..... | ..... | 81,272 | 3,600 | 720 | | |
| Connecticut..... | 16 | 898 | 17 | 43 | 31 | 34 | 768 | Se 805 | Fe 725 | 786 | 417 | 306 | 29 | 34 | 2,128,349 | 140,821 | 85,960 | | |
| Illinois..... | 33 | 524 | 35 | 25 | 6 | 6 | 452 | De 546 | Fe 404 | 551 | 387 | 159 | 2 | 3 | 604,965 | 56,058 | 20,865 | | |
| Indiana..... | 14 | 305 | 27 | 15 | 2 | 1 | 261 | De 318 | My 209 | 313 | 294 | 19 | ..... | ..... | 256,676 | 16,608 | 1,800 | | |
| Iowa..... | 77 | 2,347 | 77 | 83 | 62 | 34 | 2,091 | De 2,497 | My 1,939 | 2,575 | 1,686 | 801 | 23 | 65 | 4,795,360 | 239,687 | 159,925 | | |
| Kentucky..... | 5 | 112 | 4 | 5 | 2 | 2 | 99 | No 131 | Ja 68 | 128 | 110 | 18 | ..... | ..... | 135,329 | 14,833 | 10,115 | | |
| Massachusetts..... | 17 | 438 | 17 | 18 | 5 | 13 | 385 | No 425 | Ja 320 | 420 | 204 | 201 | 7 | 8 | 786,188 | 47,263 | 15,614 | | |
| Minnesota..... | 5 | 63 | 6 | 2 | 1 | ..... | 64 | De 82 | Ap 31 | 83 | 78 | 5 | ..... | ..... | 70,798 | 2,598 | ..... |  |  |
| Missouri..... | 9 | 265 | 5 | 14 | 8 | 3 | 235 | Ja 317 | My 179 | 309 | 274 | 34 | 1 | ..... | 309,397 | 20,370 | 4,346 | | |
| New Jersey..... | 70 | 2,789 | 60 | 94 | 43 | 22 | 2,570 | No 2,794 | Ja 2,340 | 2,725 | 1,823 | 865 | 16 | 21 | 3,933,849 | 340,212 | 89,340 | | |
| New York..... | 243 | 7,667 | 272 | 243 | 250 | 334 | 6,568 | No 7,016 | Ja 6,037 | 6,994 | 3,686 | 3,239 | 26 | 43 | 11,487,051 | 775,578 | 795,054 | | |
| Ohio..... | 6 | 125 | 3 | 5 | 1 | 2 | 114 | Ja 139 | My 65 | 145 | 127 | 18 | ..... | ..... | 182,125 | 7,094 | 3,679 | | |
| Pennsylvania..... | 24 | 904 | 24 | 36 | 26 | 11 | 807 | No 855 | Ap 744 | 927 | 557 | 347 | 6 | 17 | 1,553,839 | 202,657 | 52,648 | | |
| Rhode Island..... | 3 | 40 | 3 | 2 | ..... | ..... | 33 | My 39 | No 28 | 29 | 18 | 10 | ..... | ..... | 89,363 | 4,160 | 2,850 | | |
| Washington..... | 3 | 10 | 5 | ..... | ..... | ..... | 5 | (²) 5 | (²) 5 | 5 | ..... | 5 | ..... | ..... | 4,610 | ..... | ..... |  |  |
| All other states ³ | 25 | 1,225 | 13 | 49 | 32 | 30 | 1,101 | ..... | ..... | 1,373 | 945 | 422 | ..... | 6 | 3,558,802 | 110,420 | 107,938 | | |

| STATE. | EXPENSES—continued. | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | | |
|-------------------------------------|-------------------------|--------------------|------------------|---|----------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------------|-----------------|------------------------------|---------------------------|--|--------------------|
| | Salaries and wages—Con. | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | Electric horsepower generated in establishments reporting. | |
| | | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Owned. | | | | | |
| | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ⁴ | | Rent. ⁵ |
| United States..... | \$13,772,590 | \$338,209 | \$452,104 | \$736,456 | \$16,062,931 | \$682,426 | \$41,840,459 | \$25,095,102 | 16,201 | 5,975 | 300 | 1,047 | 267 | 8,612 | 598 |
| California..... | 26,969 | ..... | 5,820 | 232 | 14,785 | 1,227 | 66,102 | 50,090 | 23 | ..... | ..... | ..... | ..... | 23 | ..... |
| Connecticut..... | 654,295 | 10,051 | 7,549 | 95,879 | 624,228 | 40,254 | 1,955,701 | 1,291,219 | 1,154 | 390 | ..... | 63 | 267 | 434 | 12 |
| Illinois..... | 357,257 | 3,320 | 14,430 | 4,899 | 384,267 | 12,603 | 1,030,452 | 633,552 | 393 | 195 | ..... | 53 | ..... | 145 | ..... |
| Indiana..... | 170,192 | 3,640 | 617 | 1,042 | 160,868 | 11,069 | 408,457 | 236,520 | 267 | 110 | ..... | 86 | ..... | 121 | 29 |
| Iowa..... | 1,619,448 | 131,538 | 16,153 | 63,696 | 2,411,221 | 65,567 | 5,615,465 | 3,138,677 | 2,340 | 1,595 | ..... | 137 | ..... | 608 | 7 |
| Kentucky..... | 59,629 | 1,041 | 850 | 1,935 | 79,145 | 4,480 | 196,284 | 112,650 | 91 | 63 | ..... | ..... | ..... | 28 | 4 |
| Massachusetts..... | 310,997 | 2,277 | 9,402 | 7,145 | 239,540 | 22,701 | 1,017,929 | 755,688 | 482 | 250 | ..... | ..... | ..... | 232 | 135 |
| Minnesota..... | 43,505 | ..... | 250 | 799 | 35,588 | 1,336 | 88,261 | 51,337 | 48 | ..... | ..... | ..... | ..... | 48 | ..... |
| Missouri..... | 175,833 | 356 | 2,125 | 2,841 | 154,896 | 7,954 | 395,203 | 232,413 | 287 | 215 | ..... | 80 | ..... | 42 | ..... |
| New Jersey..... | 2,402,061 | 16,059 | 87,466 | 123,853 | 2,898,651 | 100,888 | 7,021,472 | 4,021,933 | 2,528 | 1,260 | ..... | 225 | ..... | 1,043 | 55 |
| New York..... | 5,349,264 | 154,125 | 284,172 | 280,190 | 7,196,062 | 285,588 | 18,697,967 | 11,216,287 | 6,262 | 1,505 | ..... | 204 | ..... | 4,463 | ..... |
| Ohio..... | 82,693 | ..... | 1,445 | 967 | 72,503 | 2,257 | 191,614 | 110,854 | 93 | 25 | ..... | 25 | ..... | 43 | ..... |
| Pennsylvania..... | 1,612,661 | 4,757 | 32,205 | 84,624 | 935,110 | 27,071 | 2,318,556 | 1,356,375 | 789 | 250 | 300 | 29 | ..... | 210 | 350 |
| Rhode Island..... | 16,855 | 773 | 4,816 | 566 | 42,760 | 5,548 | 193,876 | 55,568 | 32 | ..... | ..... | ..... | ..... | 32 | ..... |
| Washington..... | 3,972 | 90 | 510 | 3 | 3,531 | 36 | 14,953 | 11,386 | 1 | ..... | ..... | ..... | ..... | 1 | ..... |
| All other states ³ | 986,968 | 10,178 | 4,294 | 67,785 | 809,716 | 93,847 | 2,718,107 | 1,814,544 | 1,411 | 117 | ..... | 155 | ..... | 1,139 | ..... |

¹ Same number reported for one or more other months.² Same number reported throughout the year.³ All other states embrace: Arkansas, 6 establishments; Kansas, 2; Louisiana, 1; Maine, 2; Michigan, 5; New Hampshire, 1; Oklahoma, 1; Tennessee, 1; Texas, 2; West Virginia, 1; Wisconsin, 3.⁴ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).⁵ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.

GENERAL STATISTICS.

General character of the industry.—This industry covers the manufacture of machinery, apparatus, and supplies for use in the generation, transmission, or utilization of electric energy. In addition to generators, transformers, motors, switchboards, and batteries, for its generation, regulation, application, and storage, the general utilization of electricity for supplying power, transportation, light, heat, etc., involves the use of a vast variety of electrical manufactures, such as insulated wire and cables, starting and controlling apparatus, telephone and telegraph (including radio) apparatus, incandescent and arc lamps, household and industrial apparatus, electric measuring instruments, and other apparatus, devices, and supplies. Statistics of electric lighting fixtures made in establishments engaged primarily in their manufacture are not included in this report, but are shown separately in the general report on manufactures.

Comparative summary.—In Table 1 are summarized the more important data for establishments engaged in this industry, presenting statistics for each census since 1879, with percentages of increase or decrease for each five-year period. With few exceptions, increases are noticeable at each succeeding census, the only decreases shown being in the period 1909 to 1914, in the items, "proprietors and firm members" and "contract work," both of which have little significance.

The large increases, however, from 1914 to 1919, are due in a large measure to conditions brought about by the World War, when high wages and prices affected practically every industry in the country. A truer index to conditions is to be found in the increase in the average number of wage earners and primary horsepower utilized. The addition of the Federal income tax since 1914 will account for the large increase in "Rent and taxes." Contract work, or work performed by employees other than those in the plants reporting, has little significance, since it represents merely the methods of manufacture used by establishments, which vary from year to year.

Principal states, ranked by value of products.—New York, as shown by Table 2, is the leading state in the manufacture of electrical machinery, a position it also held at the censuses of 1914, 1909, and 1904. Ohio is second, having advanced from sixth place since 1914. This state made greater strides in the industry during the period 1914-1919 than any other state, its products advancing from \$36,120,978 in 1914 to \$156,924,143 in 1919, equivalent to an increase of 334.4 per cent. Altogether, 42 states, including the District of Columbia, reported establishments belonging to this classifica-

tion, but an idea of how the industry is centralized may be seen from the fact that 6 states, New York, Ohio, Pennsylvania, New Jersey, Illinois, and Massachusetts, together produced 80.3 per cent of the total value of products reported by the industry, and employed 78.1 per cent of the total number of wage earners.

Persons engaged in the industry.—The classification by sex, for 1919, was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. The age classification of the average number of wage earners in Table 3 is an estimate, obtained by the method described in the "Explanation of terms." Figures by states will be found in Table 26.

Wage earners, by months.—The statistics for wage earners in Table 4 show the regularity of employment, or the reverse, in accordance with existing industrial conditions during the census year reported. The number employed in the industry during 1919 ranged from a maximum of 241,640 in December to a minimum of 196,418 in May, the minimum number being equivalent to 81.3 per cent of the maximum. Figures for the principal states are given separately for 1919, while, for the United States, totals are given for 1909 and 1914, and a segregation of sex for 1919.

Prevailing hours of labor.—Table 5 shows a marked shortening of the working day for the industry since 1914. In that year only 29.3 per cent of the wage earners were reported as being employed less than 54 hours per week, as against 84 per cent in 1919. In 1914 wage earners working over 54 hours per week constituted 37.8 per cent of the total, as compared with 10.8 per cent in 1919.

Size of establishments, by average number of wage earners.—Analysis of Table 6 discloses the significant fact that in 1919, 418 establishments, or 29.8 per cent of the total, employed less than 6 wage earners each, while only 1,087, or one-half of 1 per cent of the total number of wage earners, were employed therein. On the other hand, the class "Over 1,000," comprising 37 establishments, employed 53.5 per cent of the total number of wage earners, illustrating the extent of manufacturing operations in a few large establishments.

Size of establishments, by value of products.—At the censuses of 1909 and 1914, establishments with products ranging in total value from "\$100,000 to \$1,000,000" constituted one group, while in 1919 this group was subdivided into groups of "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and the value of products have been compiled, however, from the 1914 reports. Table 7, therefore, gives combined figures for all items

for 1909, and, in the case of average number of wage earners, the value added by manufacture for 1914. The statistics in the table show the degree of concentration of production in large establishments. In 1919 the group "\$1,000,000 and over" included 182 establishments, or 13 per cent of the total number for the industry, employed 79.7 per cent of the total number of wage earners, and reported 82.1 per cent of the total value of products.

Character of ownership.—Table 8 emphasizes the predominance of the corporate form of ownership. Corporations owned 75.9 per cent of the total number of establishments reporting, employed 98.7 per cent of the wage earners, and reported 98.6 per cent of the total value of products. During the period 1914-1919 the average number of wage earners employed by corporations increased by 94,619, or 82.2 per cent, and the value of products \$657,122,181, or 201.3 per cent.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 9, there was an increase of 211,108 horsepower in the industry, due in a large measure to the gain in the use of rented power, which increased by 160,475 horsepower, or 211.5 per cent. Owned power increased by 50,633 horsepower, or 33.3 per cent.

Fuel consumed.—Table 10 shows the principal kinds of fuel used for the industry in 1919 and 1914, and also gives separately the amounts consumed in states requiring considerable quantities of fuel for manufacturing purposes. Anthracite coal is naturally consumed in the Eastern states, New York, New Jersey, and Pennsylvania together using 88.9 per cent of the total amount reported. New York was also the largest consumer of bituminous coal and coke. Massachusetts led in the consumption of fuel oils, also gasoline and other volatile oils.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

| | 1919 | 1914 | 1909 | 1904 | 1899 | 1889 | 1879 | PER CENT OF INCREASE. ¹ | | | | | |
|--|---------------|---------------|---------------|---------------|-------------|--------------|-------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 | 1889-1899 | 1879-1889 |
| Number of establishments..... | 1,404 | 1,030 | 1,009 | 784 | 581 | 189 | 70 | 36.3 | 2.1 | 28.7 | 34.9 | 207.4 | ..... |
| Persons engaged..... | 271,912 | 144,712 | 105,600 | 71,485 | (2) | (2) | (2) | 87.9 | 37.0 | 47.7 | ..... | ..... | ..... |
| Proprietors and firm members..... | 473 | 363 | 439 | 400 | (2) | (2) | (2) | 28.5 | -10.2 | 9.8 | ..... | ..... | ..... |
| Salaried employees..... | 59,065 | 26,266 | 17,005 | 10,619 | 5,067 | (2) | (2) | 124.9 | 40.7 | 68.6 | 109.6 | ..... | ..... |
| Wage earners (average number)..... | 212,374 | 118,078 | 87,250 | 60,406 | 42,013 | 8,802 | 1,271 | 79.9 | 35.3 | 44.3 | 43.9 | 377.3 | ..... |
| Primary horsepower..... | 438,839 | 227,731 | 158,768 | 105,376 | 43,674 | 7,494 | (2) | 92.7 | 43.4 | 50.7 | 141.3 | ..... | ..... |
| Capital..... | \$357,855,496 | \$355,724,756 | \$267,844,432 | \$174,066,026 | \$3,659,024 | \$18,097,337 | \$1,509,758 | 141.2 | 32.8 | 53.9 | 108.1 | 340.4 | 1,153.3 |
| Salaries and wages..... | 336,369,291 | 169,097,610 | 69,574,640 | 42,932,406 | 25,210,917 | 5,366,188 | 683,104 | 208.3 | 56.8 | 62.1 | 70.3 | 369.8 | 885.6 |
| Salaries..... | 98,180,439 | 35,291,281 | 20,193,395 | 11,090,885 | 4,631,723 | (2) | (2) | 178.2 | 74.8 | 82.1 | 139.5 | ..... | ..... |
| Wages..... | 238,188,852 | 73,806,329 | 49,381,145 | 31,841,521 | 20,579,194 | (2) | (2) | 222.7 | 49.5 | 55.1 | 54.7 | ..... | ..... |
| Paid for contract work..... | 1,213,203 | 200,889 | 368,049 | 266,410 | (2) | (2) | (2) | 318.8 | -21.0 | 38.2 | ..... | ..... | ..... |
| Rent and taxes (including internal revenue)..... | 46,357,187 | 3,280,870 | 1,062,722 | \$1,334,837 | (2) | (2) | (2) | 1,310.4 | 67.5 | 47.0 | ..... | ..... | ..... |
| Cost of materials..... | 425,098,211 | 154,728,076 | 108,560,404 | 66,836,926 | 49,458,272 | 8,819,498 | 1,110,470 | 42.5 | 62.4 | 35.1 | 460.8 | 899.9 | ..... |
| Value of products..... | 997,968,119 | 335,170,194 | 221,308,593 | 140,809,309 | 92,434,435 | 19,114,714 | 2,055,086 | 197.7 | 51.4 | 57.2 | 52.3 | 383.6 | 619.9 |
| Value added by manufacture..... | 572,809,608 | 180,442,118 | 112,742,159 | 73,972,443 | 42,076,169 | 10,295,216 | 1,538,566 | 217.5 | 60.0 | 52.4 | 72.1 | 317.4 | 569.1 |

¹ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.

² Figures not available.

³ Exclusive of internal revenue.

⁴ In addition, electrical machinery, apparatus, and supplies to the value of \$65,558,178, in 1919; \$24,261,961, in 1914; \$18,728,916, in 1909; \$18,742,033, in 1904; and \$13,397,430, in 1899, were reported by establishments engaged primarily in other industries.

⁵ Value of products less cost of materials.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Number of establishments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | | STATE. | Number of establishments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|--------------------|--------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|-----------------------|--------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States..... | 1,404 | 212,374 | 100.0 | ... | \$997,968 | 100.0 | ... | \$572,870 | 100.0 | ... | Kentucky..... | 9 | 255 | 0.1 | 19 | \$1,137 | 0.1 | 17 | \$583 | 0.1 | 17 |
| New York..... | 255 | 37,598 | 17.7 | 1 | 179,973 | 18.0 | 1 | 106,133 | 18.5 | 1 | Washington..... | 12 | 190 | 0.1 | 20 | 1,087 | 0.1 | 18 | 421 | 0.1 | 18 |
| Ohio..... | 189 | 26,672 | 12.6 | 3 | 156,924 | 15.7 | 2 | 84,627 | 14.8 | 2 | North Carolina..... | 7 | 270 | 0.1 | 18 | 663 | 0.1 | 19 | 308 | 0.1 | 21 |
| Pennsylvania..... | 129 | 24,228 | 11.4 | 5 | 132,674 | 13.3 | 3 | 81,316 | 14.2 | 3 | Maryland..... | 13 | 137 | 0.1 | 21 | 523 | 0.1 | 21 | 366 | 0.1 | 20 |
| New Jersey..... | 105 | 26,135 | 12.3 | 4 | 120,341 | 12.1 | 4 | 61,359 | 10.7 | 5 | Nebraska..... | 6 | 88 | 0.1 | 22 | 420 | (1) | 22 | 207 | (1) | 22 |
| Illinois..... | 161 | 27,290 | 12.9 | 2 | 119,528 | 12.0 | 5 | 67,002 | 11.9 | 4 | Iowa..... | 7 | 82 | (1) | 23 | 280 | (1) | 23 | 141 | (1) | 23 |
| Massachusetts..... | 110 | 23,889 | 11.2 | 6 | 91,939 | 9.2 | 6 | 60,102 | 10.5 | 6 | Tennessee..... | 4 | 52 | (1) | 25 | 185 | (1) | 25 | 115 | (1) | 25 |
| Connecticut..... | 54 | 11,403 | 5.4 | 8 | 51,911 | 5.2 | 7 | 28,470 | 5.0 | 7 | Texas..... | 6 | 33 | (1) | 27 | 175 | (1) | 27 | 83 | (1) | 27 |
| Indiana..... | 47 | 11,766 | 5.5 | 7 | 41,594 | 4.2 | 8 | 20,784 | 3.6 | 8 | Louisiana..... | 5 | 32 | (1) | 28 | 154 | (1) | 28 | 98 | (1) | 26 |
| Michigan..... | 54 | 4,190 | 2.0 | 11 | 25,026 | 2.5 | 9 | 15,990 | 2.8 | 9 | Colorado..... | 8 | 38 | (1) | 26 | 139 | (1) | 29 | 82 | (1) | 28 |
| Wisconsin..... | 43 | 5,875 | 2.8 | 10 | 23,680 | 2.4 | 10 | 14,268 | 2.5 | 10 | Oregon..... | 3 | 20 | (1) | 32 | 103 | (1) | 30 | 65 | (1) | 31 |
| Missouri..... | 35 | 6,367 | 3.0 | 9 | 22,008 | 2.2 | 11 | 13,845 | 2.4 | 11 | All other states..... | 29 | 836 | 0.4 | ... | 2,816 | 0.3 | ... | 1,985 | 0.3 | ... |
| California..... | 73 | 2,008 | 0.9 | 12 | 11,368 | 1.1 | 12 | 6,338 | 1.1 | 12 | | | | | | | | | | | |
| Rhode Island..... | 13 | 1,613 | 0.7 | 13 | 7,587 | 0.8 | 13 | 4,440 | 0.8 | 13 | | | | | | | | | | | |
| Minnesota..... | 20 | 942 | 0.4 | 14 | 4,354 | 0.4 | 14 | 2,321 | 0.4 | 14 | | | | | | | | | | | |
| New Hampshire..... | 7 | 426 | 0.2 | 15 | 1,464 | 0.1 | 15 | 821 | 0.1 | 16 | | | | | | | | | | | |

¹ Less than one-tenth of 1 per cent.

ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.

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TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|-----------------------------------|----------------------|---------|---------|--------------|-----------------------|--------------|---|----------------------|---------|---------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| All classes..... | 1919 | 271,912 | 196,023 | 75,889 | 72.1 | 27.9 | Clerks and other subordinate salaried employees. | 1919 | 48,364 | 29,233 | 19,131 | 60.4 | 39.6 |
| | 1914 | 144,712 | 114,742 | 29,970 | 79.3 | 20.7 | | 1914 | 22,388 | 10,325 | 6,063 | 72.9 | 27.1 |
| | 1909 | 105,600 | 81,616 | 23,984 | 77.3 | 22.7 | | 1909 | 14,223 | 10,431 | 3,792 | 73.3 | 26.7 |
| Proprietors and officials..... | 1919 | 11,174 | 10,853 | 321 | 97.1 | 2.9 | Wage earners (average number)... | 1919 | 212,374 | 155,937 | 56,437 | 73.4 | 26.6 |
| | 1914 | 4,246 | 4,104 | 82 | 98.1 | 1.9 | | 1914 | 118,078 | 94,253 | 23,825 | 79.8 | 20.2 |
| | 1909 | 4,121 | 4,055 | 66 | 98.4 | 1.6 | | 1909 | 87,256 | 67,130 | 20,126 | 76.9 | 23.1 |
| Proprietors and firm members. | 1919 | 473 | 461 | 12 | 97.5 | 2.5 | 16 years of age and over..... | 1919 | 210,421 | 154,601 | 55,820 | 73.5 | 26.5 |
| | 1914 | 368 | 357 | 11 | 97.0 | 3.0 | | 1914 | 117,364 | 93,836 | 23,528 | 80.0 | 20.0 |
| | 1909 | 439 | 428 | 11 | 97.5 | 2.5 | | 1909 | 86,463 | 66,622 | 19,841 | 77.1 | 22.9 |
| Salaried officers of corporations | 1919 | 1,882 | 1,825 | 57 | 97.0 | 3.0 | Under 16 years of age..... | 1919 | 1,953 | 1,336 | 617 | 68.4 | 31.6 |
| | 1914 | 1,165 | 1,129 | 36 | 96.9 | 3.1 | | 1914 | 714 | 417 | 297 | 58.4 | 41.6 |
| | 1909 | 997 | 979 | 18 | 98.2 | 1.8 | | 1909 | 803 | 508 | 295 | 63.3 | 36.7 |
| Superintendents and managers | 1919 | 8,819 | 8,567 | 252 | 97.1 | 2.9 | | | | | | | |
| | 1914 | 2,713 | 2,678 | 35 | 98.7 | 1.3 | | | | | | | |
| | 1909 | 2,685 | 2,648 | 37 | 98.6 | 1.4 | | | | | | | |

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Percent mini- mum is of maxi- mum. |
|--|--|---|----------------|---------------|---------------|----------------|---------------|---------------|---------|-----------------|---------------|----------------|----------------|--|
| | | Janu- ary. | Febru- ary. | March. | April. | May. | June. | July. | August. | Septem- ber. | Octo- ber. | Novem- ber. | Decem- ber. | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 212,374 | 200,593 | 205,356 | 201,303 | 198,316 | 196,418 | 198,071 | 204,180 | 212,354 | 218,493 | 227,409 | 235,285 | 241,640 | 81.3 |
| Males..... | 155,937 | 152,763 | 150,069 | 147,042 | 146,084 | 145,070 | 145,752 | 150,865 | 156,269 | 160,140 | 166,730 | 172,269 | 178,161 | 81.4 |
| Females..... | 56,437 | 52,830 | 55,287 | 54,261 | 52,232 | 51,348 | 52,319 | 53,295 | 56,085 | 58,353 | 60,679 | 63,016 | 63,479 | 80.9 |
| 1914..... | 118,078 | 128,766 | 126,610 | 126,240 | 123,742 | 120,956 | 118,743 | 116,340 | 115,347 | 113,768 | 110,944 | 108,203 | 107,877 | 83.3 |
| 1909..... | 87,256 | 77,444 | 79,193 | 80,779 | 81,699 | 83,229 | 85,117 | 80,080 | 88,133 | 91,822 | 95,490 | 98,239 | 98,888 | 78.0 |
| California..... | 2,008 | 1,865 | 1,809 | 1,837 | 1,873 | 1,808 | 1,804 | 2,031 | 2,107 | 2,084 | 2,275 | 2,328 | 2,280 | 77.4 |
| Connecticut..... | 11,403 | 10,529 | 10,411 | 9,769 | 9,648 | 10,168 | 10,797 | 11,442 | 11,706 | 12,218 | 12,864 | 13,460 | 13,828 | 69.8 |
| Illinois..... | 27,290 | 26,772 | 26,804 | 26,660 | 25,705 | 25,868 | 26,040 | 26,241 | 27,346 | 28,129 | 29,117 | 29,837 | 30,965 | 82.8 |
| Indiana..... | 11,756 | 9,859 | 10,177 | 10,251 | 10,475 | 10,943 | 11,265 | 12,156 | 12,771 | 13,324 | 13,017 | 13,521 | 13,313 | 72.9 |
| Massachusetts..... | 23,889 | 22,102 | 22,543 | 21,716 | 21,532 | 22,019 | 22,353 | 23,219 | 24,302 | 25,256 | 26,294 | 27,198 | 28,024 | 77.0 |
| Michigan..... | 4,190 | 3,847 | 3,853 | 3,845 | 3,775 | 3,854 | 3,928 | 4,050 | 4,369 | 4,493 | 4,697 | 4,808 | 4,661 | 76.9 |
| Minnesota..... | 942 | 916 | 925 | 971 | 918 | 918 | 938 | 928 | 924 | 940 | 954 | 967 | 1,005 | 91.1 |
| Missouri..... | 6,367 | 5,867 | 5,367 | 5,464 | 5,545 | 5,750 | 6,184 | 6,493 | 6,779 | 6,720 | 7,182 | 7,360 | 7,694 | 69.6 |
| New Jersey..... | 26,135 | 28,285 | 27,542 | 26,708 | 25,963 | 25,651 | 24,484 | 24,800 | 24,816 | 25,480 | 26,061 | 26,090 | 27,641 | 85.9 |
| New York..... | 37,598 | 36,068 | 37,946 | 36,923 | 36,282 | 36,040 | 36,639 | 35,914 | 36,200 | 37,175 | 38,630 | 40,036 | 41,333 | 86.0 |
| Ohio..... | 26,672 | 25,360 | 25,021 | 25,262 | 24,841 | 24,000 | 23,970 | 25,350 | 27,478 | 28,277 | 29,496 | 30,558 | 31,551 | 72.6 |
| Pennsylvania..... | 24,228 | 25,060 | 24,293 | 23,551 | 22,387 | 21,791 | 22,088 | 22,771 | 23,742 | 24,333 | 25,795 | 27,108 | 27,817 | 78.3 |
| Rhode Island..... | 1,513 | 1,695 | 1,688 | 1,652 | 1,567 | 1,496 | 1,424 | 1,548 | 1,361 | 1,892 | 1,452 | 1,513 | 1,568 | 70.5 |
| Wisconsin..... | 5,875 | 5,727 | 5,671 | 5,456 | 5,360 | 4,945 | 4,916 | 5,400 | 5,839 | 6,200 | 6,872 | 6,981 | 7,118 | 69.0 |
| States showing large proportion of females. | | | | | | | | | | | | | | Per cent av. is of state. |
| Connecticut..... | 4,036 | 3,643 | 3,639 | 3,149 | 3,078 | 3,438 | 3,922 | 4,115 | 4,203 | 4,485 | 4,832 | 4,907 | 5,031 | 35.4 |
| Illinois..... | 7,793 | 7,891 | 7,448 | 7,368 | 7,343 | 7,401 | 7,365 | 7,206 | 7,745 | 8,016 | 8,319 | 8,556 | 8,829 | 28.6 |
| Indiana..... | 3,568 | 3,283 | 3,336 | 3,281 | 3,321 | 3,431 | 3,324 | 3,519 | 3,803 | 3,614 | 3,821 | 3,982 | 3,791 | 30.4 |
| Massachusetts..... | 5,994 | 5,669 | 5,711 | 5,507 | 5,308 | 5,378 | 5,601 | 5,730 | 6,103 | 6,393 | 6,707 | 6,953 | 6,968 | 25.1 |
| Michigan..... | 1,638 | 1,482 | 1,488 | 1,502 | 1,431 | 1,512 | 1,629 | 1,559 | 1,719 | 1,776 | 1,843 | 2,027 | 1,783 | 39.1 |
| Missouri..... | 1,887 | 1,783 | 1,674 | 1,725 | 1,670 | 1,705 | 1,871 | 1,933 | 2,030 | 2,023 | 2,023 | 2,038 | 2,139 | 29.6 |
| New Jersey..... | 8,817 | 9,723 | 9,566 | 9,388 | 8,871 | 8,586 | 8,326 | 8,222 | 8,211 | 8,427 | 8,590 | 8,889 | 9,005 | 33.7 |
| Ohio..... | 7,341 | 7,231 | 7,142 | 7,529 | 6,962 | 6,118 | 6,727 | 6,737 | 7,494 | 7,841 | 7,953 | 8,131 | 8,222 | 27.5 |

MANUFACTURES.

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|--------------------|--------------|---------|--|------------------------|------------------|--------------------|--------|--------------------|-------|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| United States..... | 1919 | 212,374 | 19,533 | 7,722 | 98,016 | 53,203 | 10,885 | 19,783 | 3,028 | 204 |
| | 1914 | 118,078 | (²) | (²) | 4,078 | 30,529 | 38,838 | 41,715 | 2,899 | 19 |
| | 1909 | 87,256 | (²) | (²) | 1,114 | 13,909 | 20,781 | 45,538 | 5,874 | 46 |
| California..... | 1919 | 2,008 | 1,005 | (²) 4 | 836 | 656 | 7 | ..... | ..... | ..... |
| | 1914 | 780 | (²) | (²) | 224 | 152 | 304 | 40 | ..... | ..... |
| Connecticut..... | 1919 | 11,403 | 704 | (²) 11 | 2,385 | 1,628 | 262 | 6,410 | 3 | ..... |
| | 1914 | 5,050 | (²) | (²) | 4 | 695 | 735 | 3,625 | ..... | ..... |
| Illinois..... | 1919 | 27,290 | 1,227 | (²) 309 | 17,856 | 5,639 | 1,775 | 474 | 10 | ..... |
| | 1914 | 16,483 | (²) | (²) | 352 | 14,680 | 750 | 687 | 14 | ..... |
| Indiana..... | 1919 | 11,756 | 133 | (²) 870 | 7,666 | 1,888 | 172 | 995 | 32 | ..... |
| | 1914 | 4,075 | (²) | (²) | 1,025 | 117 | 6 | 2,854 | 73 | ..... |
| Massachusetts..... | 1919 | 23,889 | 250 | (²) 878 | 19,380 | 3,060 | 112 | 39 | 170 | ..... |
| | 1914 | 17,125 | (²) | (²) | 637 | 2,205 | 10,519 | 3,763 | 1 | ..... |
| Michigan..... | 1919 | 4,190 | 16 | (²) 47 | 453 | 2,461 | 370 | 515 | 128 | 200 |
| | 1914 | 1,144 | (²) | (²) | 73 | 118 | 471 | 277 | 205 | ..... |
| Minnesota..... | 1919 | 942 | 39 | ..... | 14 | 404 | 68 | 417 | ..... | ..... |
| | 1914 | 238 | (²) | (²) | 19 | 76 | 18 | 122 | ..... | 1 |
| Missouri..... | 1919 | 6,367 | 5 | (²) 658 | 992 | 1,806 | 2,902 | ..... | 4 | ..... |
| | 1914 | 2,560 | (²) | (²) | 329 | 424 | 1,751 | 52 | 4 | ..... |
| New Jersey..... | 1919 | 26,135 | 2,643 | (²) 4,394 | 13,479 | 4,298 | 66 | 1,255 | ..... | ..... |
| | 1914 | 14,405 | (²) | (²) | 262 | 3,638 | 4,878 | 5,223 | 404 | ..... |
| New York..... | 1919 | 37,598 | 10,747 | (²) 126 | 12,816 | 9,672 | 2,139 | 1,540 | 558 | ..... |
| | 1914 | 23,738 | (²) | (²) | 348 | 3,828 | 3,703 | 15,145 | 696 | 18 |
| Ohio..... | 1919 | 26,672 | 786 | (²) 362 | 6,836 | 10,998 | 722 | 5,468 | 2,050 | ..... |
| | 1914 | 12,605 | (²) | (²) | 657 | 3,850 | 4,098 | 3,795 | 295 | ..... |
| Pennsylvania..... | 1919 | 24,228 | 301 | (²) 41 | 12,491 | 7,945 | 1,891 | 1,552 | 3 | 4 |
| | 1914 | 14,866 | (²) | (²) | 60 | 458 | 10,331 | 3,621 | 396 | ..... |
| Rhode Island..... | 1919 | 1,513 | 144 | ..... | 14 | 1,154 | 82 | 119 | ..... | ..... |
| | 1914 | 1,581 | ..... | ..... | ..... | 34 | 417 | 595 | 535 | ..... |
| Wisconsin..... | 1919 | 5,875 | 1,318 | ..... | 2,951 | 1,088 | 111 | 407 | ..... | ..... |
| | 1914 | 2,115 | (²) | (²) | 3 | 66 | 685 | 1,345 | 26 | ..... |

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.

TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|--------------------------------|---------------------------|---------------------------------|----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|--------------------------|-----------------|---------------|-----------------|---------------|-------|--------|-------|---------|
| | Establishments. | Wage earners (average number). | No wage earners. | 1 to 5 wage earners, inclusive. | 6 to 20 wage earners, inclusive. | 21 to 50 wage earners, inclusive. | 51 to 100 wage earners, inclusive. | 101 to 250 wage earners, inclusive. | 251 to 500 wage earners, inclusive. | 501 to 1,000 wage earners, inclusive. | Over 1,000 wage earners. | | | | | | | | |
| | | | Establishments. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | | | | |
| United States..1919.. | 1 404 | 212,374 | 42 | 370 | 1,087 | 355 | 4,212 | 212 | 7,220 | 117 | 8,539 | 147 | 23,862 | 80 | 27,812 | 38 | 25,947 | 37 | 113,695 |
|1914.. | 1,030 | 118,078 | 35 | 307 | 831 | 263 | 3,108 | 150 | 4,720 | 98 | 6,980 | 95 | 15,031 | 45 | 15,183 | 20 | 13,874 | 17 | 58,351 |
| California..... | 73 | 2,008 | 4 | 41 | 124 | 15 | 169 | 6 | 175 | 4 | 282 | ..... | ..... | 2 | 748 | 1 | 510 | ..... | ..... |
| Connecticut..... | 54 | 11,403 | 3 | 13 | 38 | 8 | 88 | 4 | 141 | 4 | 230 | 11 | 1,730 | 5 | 1,713 | 4 | 2,525 | 2 | 4,938 |
| Illinois..... | 161 | 27,290 | 4 | 33 | 90 | 46 | 568 | 23 | 888 | 21 | 1,544 | 18 | 2,802 | 7 | 2,367 | 4 | 2,731 | 5 | 16,294 |
| Indiana..... | 47 | 11,759 | ..... | 10 | 26 | 13 | 163 | 5 | 198 | 6 | 471 | 6 | 981 | 2 | 669 | 2 | 1,287 | 3 | 7,961 |
| Massachusetts..... | 110 | 23,889 | 3 | 21 | 71 | 32 | 393 | 17 | 555 | 15 | 1,034 | 10 | 1,088 | 6 | 1,948 | 2 | 1,261 | 4 | 16,939 |
| Michigan..... | 54 | 4,190 | 2 | 15 | 42 | 13 | 171 | 6 | 254 | 7 | 573 | 8 | 1,250 | 2 | 658 | ..... | ..... | 1 | 1,242 |
| Minnesota..... | 20 | 942 | 2 | 6 | 23 | 5 | 52 | 2 | 55 | 3 | 173 | ..... | ..... | 2 | 639 | ..... | ..... | ..... | ..... |
| Missouri..... | 36 | 6,367 | ..... | 4 | 12 | 12 | 125 | 5 | 167 | 4 | 285 | 5 | 695 | 2 | 638 | 2 | 1,570 | 1 | 2,874 |
| New Jersey..... | 105 | 26,135 | ..... | 16 | 41 | 24 | 335 | 20 | 745 | 6 | 434 | 14 | 2,433 | 11 | 3,936 | 6 | 4,037 | 8 | 14,174 |
| New York..... | 255 | 37,598 | 9 | 69 | 173 | 66 | 756 | 46 | 1,462 | 17 | 1,325 | 21 | 3,613 | 17 | 6,046 | 6 | 4,288 | 4 | 19,935 |
| Ohio..... | 189 | 26,672 | 5 | 48 | 144 | 40 | 496 | 38 | 1,311 | 11 | 798 | 25 | 4,142 | 11 | 3,762 | 5 | 3,508 | 6 | 12,511 |
| Pennsylvania..... | 129 | 24,223 | 5 | 41 | 116 | 33 | 390 | 18 | 614 | 5 | 359 | 15 | 2,367 | 6 | 1,992 | 4 | 2,890 | 2 | 15,500 |
| Rhode Island..... | 13 | 1,513 | ..... | 4 | 16 | 1 | 14 | 2 | 52 | 2 | 179 | 1 | 138 | 3 | 1,114 | ..... | ..... | ..... | ..... |
| Wisconsin..... | 43 | 5,875 | | 11 | 28 | 7 | 75 | 5 | 138 | 5 | 358 | 9 | 1,365 | 3 | 1,244 | 2 | 1,340 | 1 | 1,327 |

ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.

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TABLE 7.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|-------|-------|---------------------------------|---------|--------|--------------------|---------------|---------------|-----------------------------|---------------|---------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| All classes..... | 1,404 | 1,030 | 1,009 | 212,374 | 118,078 | 87,256 | \$997,968,110 | \$335,170,194 | \$221,308,563 | \$572,869,908 | \$180,442,118 | \$112,742,160 |
| Less than \$5,000..... | 89 | 156 | 150 | 80 | 204 | 256 | 252,654 | 440,280 | 305,175 | 151,102 | 254,658 | 234,883 |
| \$5,000 to \$20,000..... | 271 | 249 | 287 | 982 | 1,329 | 1,493 | 3,293,968 | 2,785,085 | 3,208,873 | 1,892,140 | 1,715,604 | 1,924,861 |
| \$20,000 to \$100,000..... | 422 | 292 | 309 | 5,616 | 5,897 | 6,474 | 20,520,023 | 14,211,891 | 14,715,392 | 11,525,344 | 7,951,750 | 8,466,336 |
| \$100,000 to \$500,000..... | 331 | 224 | 232 | 18,084 | 33,223 | 28,108 | 77,234,924 | 51,612,977 | 70,612,783 | 41,473,572 | 49,290,339 | 41,430,270 |
| \$500,000 to \$1,000,000..... | 109 | 56 | 31 | 18,264 | 77,455 | 50,925 | 77,577,378 | 39,916,257 | 126,375,340 | 43,650,088 | 121,229,707 | 60,689,810 |
| \$1,000,000 and over..... | 182 | 53 | 31 | 109,348 | 77,455 | 50,925 | 819,089,172 | 226,203,104 | 126,375,340 | 474,177,602 | 121,229,707 | 60,689,810 |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 6.3 | 15.1 | 14.9 | 0.5 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 |
| \$5,000 to \$20,000..... | 19.3 | 24.2 | 28.4 | 0.5 | 1.1 | 1.7 | 1.9 | 0.6 | 0.6 | 1.5 | 1.0 | 0.7 |
| \$20,000 to \$100,000..... | 30.1 | 28.4 | 30.6 | 2.6 | 5.0 | 7.4 | 2.1 | 4.2 | 0.6 | 0.3 | 4.4 | 7.5 |
| \$100,000 to \$500,000..... | 23.6 | 21.7 | 23.0 | 8.5 | 28.1 | 32.2 | 7.7 | 15.4 | 34.6 | 7.2 | 27.3 | 36.8 |
| \$500,000 to \$1,000,000..... | 7.8 | 5.4 | 3.1 | 8.6 | 65.6 | 58.4 | 7.8 | 11.0 | 57.1 | 7.6 | 07.2 | 53.8 |
| \$1,000,000 and over..... | 13.0 | 5.1 | 3.1 | 79.7 | 65.6 | 58.4 | 82.1 | 67.5 | 57.1 | 82.8 | 07.2 | 53.8 |

TABLE 8.—CHARACTER OF OWNERSHIP, BY SELECTED STATES: 1919 AND 1914.

| STATE. | Cen- sus year. | NUMBER OF ESTABLISHMENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | VALUE OF PRODUCTS. | | | | | | | | |
|------------------------------|----------------------|--|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|---------------------|------------------------|-------------------------|---------------------|---------------|-----------------------------|-------------------------|---------------------|------------------------|-------------------------|---------------------|--|--|--|--|
| | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | Of establishments owned by— | | | Per cent of total. | | | | | | |
| | | | | | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | | | |
| United States..... | 1919 | 218 | 1,060 | 120 | 212,374 | 1,661 | 209,704 | 1,009 | 0.8 | 98.7 | 0.5 | \$997,968,119 | \$9,127,570 | \$983,623,816 | \$5,216,733 | 0.9 | 98.6 | 0.5 | | | | |
| | 1914 | 196 | 753 | 81 | 118,078 | 2,240 | 115,085 | 753 | 1.9 | 97.5 | 0.6 | 335,170,194 | 6,469,529 | 326,501,635 | 2,199,030 | 1.9 | 97.4 | 0.7 | | | | |
| | 1909 | 178 | 720 | 111 | 87,256 | 1,692 | 84,397 | 1,167 | 1.9 | 96.7 | 1.3 | 221,308,563 | 4,808,989 | 213,088,053 | 3,411,521 | 2.2 | 96.3 | 1.5 | | | | |
| California..... | 1919 | 28 | 31 | 14 | 2,008 | 119 | 1,790 | 90 | 5.9 | 89.6 | 4.5 | 11,368,196 | 603,546 | 10,382,170 | 382,480 | 5.3 | 91.3 | 3.4 | | | | |
| | 1914 | 7 | 20 | 2 | 780 | 35 | 745 | ..... | 4.5 | 95.5 | ..... | 2,861,653 | 104,096 | 2,756,957 | ..... | 3.7 | 90.3 | ..... |  |  |  |  |
| Connecticut..... | 1919 | 5 | 44 | 5 | 11,403 | 19 | 11,375 | 9 | 0.2 | 99.8 | 0.1 | 51,911,332 | 68,652 | 51,810,728 | 31,952 | 0.1 | 99.8 | 0.1 | | | | |
| | 1914 | 5 | 38 | ..... | 5,059 | 23 | 5,036 | ..... | 0.5 | 99.5 | ..... | 14,330,156 | 126,908 | 14,204,248 | ..... | 0.9 | 99.1 | ..... |  |  |  |  |
| Illinois..... | 1919 | 13 | 134 | 14 | 27,290 | 47 | 27,167 | 76 | 0.2 | 99.5 | 0.3 | 119,528,022 | 169,894 | 118,802,411 | 555,717 | 0.1 | 99.4 | 0.5 | | | | |
| | 1914 | 27 | 103 | 12 | 16,483 | 125 | 16,286 | 72 | 0.8 | 98.8 | 0.4 | 46,667,456 | 265,105 | 45,171,971 | 230,380 | 0.6 | 98.9 | 0.5 | | | | |
| Indiana..... | 1919 | 2 | 43 | 2 | 11,756 | ..... | 11,740 | 210 | ..... | 99.9 | 0.1 | 41,694,125 | ..... | 41,558,885 | 235,240 | ..... | 99.9 | 0.1 | | | | |
| | 1914 | 4 | 35 | 2 | 4,075 | 22 | 4,053 | ..... | 0.5 | 99.5 | ..... | 8,870,178 | 51,158 | 8,828,020 | ..... | 0.6 | 99.4 | ..... |  |  |  |  |
| Massachusetts..... | 1919 | 18 | 86 | 6 | 23,889 | 199 | 23,655 | 35 | 0.8 | 99.0 | 0.1 | 91,933,738 | 985,985 | 90,746,156 | 206,597 | 1.1 | 98.7 | 0.2 | | | | |
| | 1914 | 20 | 67 | 4 | 17,125 | 200 | 16,812 | 53 | 1.5 | 98.2 | 0.3 | 43,869,294 | 793,483 | 42,937,503 | 138,308 | 1.8 | 97.9 | 0.3 | | | | |
| Michigan..... | 1919 | 9 | 40 | 5 | 4,190 | 84 | 4,092 | 14 | 2.0 | 97.7 | 0.3 | 25,025,528 | 275,840 | 24,660,021 | 89,067 | 1.1 | 98.5 | 0.4 | | | | |
| | 1914 | 7 | 26 | 2 | 1,144 | 50 | 1,094 | ..... | 4.4 | 95.6 | ..... | 3,415,500 | 99,993 | 3,315,507 | ..... | 2.9 | 97.1 | ..... |  |  |  |  |
| Minnesota ¹ | 1919 | 1 | 16 | 3 | 942 | ..... | 879 | 263 | ..... | 93.3 | 6.7 | 4,353,940 | ..... | 4,171,786 | 218,163 | ..... | 95.8 | 4.2 | | | | |
| Missouri..... | 1919 | 3 | 31 | 1 | 6,367 | 165 | 6,302 | ..... | 1.0 | 99.0 | ..... | 22,007,658 | 244,467 | 21,763,101 | ..... | 1.1 | 98.9 | ..... |  |  |  |  |
| | 1914 | 7 | 12 | ..... | 2,560 | 321 | 2,239 | ..... | 12.5 | 87.5 | ..... | 6,643,210 | 359,782 | 6,283,428 | ..... | 5.4 | 94.0 | ..... |  |  |  |  |
| New Jersey..... | 1919 | 7 | 91 | 7 | 26,135 | 40 | 26,035 | 60 | 0.2 | 99.6 | 0.2 | 120,341,856 | 186,386 | 119,546,759 | 908,211 | 0.2 | 99.3 | 0.5 | | | | |
| | 1914 | 12 | 58 | 6 | 14,405 | 169 | 14,144 | 92 | 1.2 | 98.2 | 0.6 | 40,740,810 | 615,547 | 39,705,778 | 418,485 | 1.5 | 97.5 | 1.0 | | | | |
| New York..... | 1919 | 50 | 184 | 21 | 37,598 | 296 | 37,185 | 117 | 0.8 | 98.9 | 0.3 | 179,972,580 | 2,264,513 | 176,916,881 | 791,186 | 1.3 | 98.3 | 0.4 | | | | |
| | 1914 | 50 | 151 | 14 | 23,738 | 553 | 23,079 | 106 | 2.3 | 97.2 | 0.5 | 73,944,708 | 1,637,412 | 71,990,474 | 316,822 | 2.2 | 97.4 | 0.4 | | | | |
| Ohio..... | 1919 | 26 | 151 | 12 | 26,672 | 179 | 26,329 | 164 | 0.7 | 98.7 | 0.6 | 150,924,143 | 828,705 | 155,381,835 | 713,003 | 0.5 | 99.0 | 0.5 | | | | |
| | 1914 | 20 | 87 | 12 | 12,095 | 88 | 12,462 | 125 | 0.7 | 98.3 | 1.0 | 36,120,978 | 257,038 | 35,520,772 | 343,168 | 0.7 | 98.3 | 1.0 | | | | |
| Pennsylvania..... | 1919 | 26 | 87 | 16 | 24,228 | 323 | 23,788 | 117 | 1.3 | 98.2 | 0.5 | 132,673,856 | 2,777,588 | 129,279,238 | 617,030 | 2.1 | 97.4 | 0.5 | | | | |
| | 1914 | 16 | 73 | 16 | 14,866 | 480 | 14,233 | 153 | 3.2 | 95.8 | 1.0 | 44,395,789 | 1,558,552 | 42,071,501 | 365,736 | 4.4 | 94.8 | 0.8 | | | | |
| Rhode Island..... | 1919 | 2 | 9 | 2 | 1,513 | 41 | 1,472 | ..... | 2.7 | 97.3 | ..... | 7,666,790 | 124,974 | 7,441,816 | ..... | 1.7 | 98.3 | ..... |  |  |  |  |
| | 1914 | 2 | 10 | 1 | 1,581 | 36 | 1,545 | ..... | 2.3 | 97.7 | ..... | 5,468,065 | 77,207 | 5,390,858 | ..... | 1.4 | 98.6 | ..... |  |  |  |  |
| Wisconsin..... | 1919 | 3 | 37 | 3 | 5,875 | 9 | 5,828 | 38 | 0.2 | 99.2 | 0.6 | 23,636,473 | 58,043 | 23,375,737 | 202,693 | 0.2 | 98.9 | 0.9 | | | | |
| | 1914 | 4 | 24 | 1 | 2,115 | 14 | 2,101 | ..... | 0.7 | 99.3 | ..... | 5,896,802 | 52,264 | 5,344,638 | ..... | 1.0 | 99.0 | ..... |  |  |  |  |

¹ Includes the group "All others."² Includes the group "Individuals."³ Not shown separately in 1914.

MANUFACTURES.

TABLE 9.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|--------|--------|-------------|---------|---------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 42,468 | 17,572 | 6,596 | 438,839 | 227,731 | 158,768 | 100.0 | 100.0 | 100.0 |
| Owned..... | 445 | 550 | 601 | 202,477 | 151,844 | 107,764 | 46.1 | 66.7 | 67.9 |
| Steam ¹ | 325 | 350 | 410 | 193,231 | 142,085 | 99,897 | 44.0 | 62.4 | 62.9 |
| Engines..... | 274 | (2) | (2) | 82,000 | (2) | (2) | 14.1 | ..... | ..... |
| Turbines..... | 51 | (2) | (2) | 181,231 | (2) | (2) | 29.9 | ..... | ..... |
| Internal-combustion engines..... | 103 | 181 | 166 | 7,446 | 8,694 | 6,753 | 1.7 | 3.8 | 4.3 |
| Water wheels, turbines, and motors..... | 17 | 19 | 25 | 1,800 | 1,065 | 1,114 | 0.4 | 0.5 | 0.7 |
| Rented..... | 42,023 | 17,022 | 5,995 | 236,362 | 75,887 | 51,004 | 53.9 | 33.3 | 32.1 |
| Electric..... | 42,023 | 17,022 | 5,995 | 235,605 | 74,476 | 50,045 | 53.7 | 32.7 | 31.5 |
| Other..... | ..... | ..... | ..... | 757 | 1,411 | 959 | 0.2 | 0.6 | 0.6 |
| Electric..... | 80,495 | 30,598 | 22,650 | 479,366 | 282,119 | 164,540 | 100.0 | 100.0 | 100.0 |
| Rented..... | 42,023 | 17,022 | 5,995 | 235,605 | 74,476 | 50,045 | 49.1 | 28.4 | 30.4 |
| Generated by establishments reporting..... | 38,472 | 22,546 | 16,655 | 243,761 | 187,643 | 114,495 | 50.9 | 71.6 | 69.6 |

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.² Figures not available.

TABLE 10.—FUEL CONSUMED, BY SELECTED STATES: 1919.

| STATE. | Cen- sus year. | COAL. | | Coke (tons, 2,000 pounds). | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). |
|------------------------------|----------------------|--|--|----------------------------------|-------------------------|--|-------------------------------|
| | | Anthracite (tons, 2,240 pounds). | Bituminous (tons, 2,000 pounds). | | | | |
| United States..... | 1919 | 175,800 | 1,091,704 | 61,617 | 473,332 | 32,328 | 2,786,382 |
| | 1914 | 66,841 | 769,260 | 26,378 | 125,523 | (¹) | 2,767,850 |
| California..... | 1919 | ..... | ..... | 196 | 3,596 | ..... | 91,769 |
| | 1914 | ..... | 60 | 3 | 5,402 | (¹) | 3,329 |
| Connecticut..... | 1919 | 7,770 | 58,243 | 1,010 | 9,907 | 1,276 | 25,796 |
| | 1914 | 3,074 | 24,686 | 27 | 898 | (¹) | 16,103 |
| Illinois..... | 1919 | 424 | 124,772 | 7,002 | 8,674 | 4,581 | 444,098 |
| | 1914 | 159 | 79,135 | 6,319 | 4,970 | (¹) | 326,637 |
| Indiana..... | 1919 | 1,139 | 53,412 | 528 | 7,173 | 369 | 116,249 |
| | 1914 | 1,136 | 24,515 | 6,000 | 3,473 | (¹) | 7,984 |
| Massachusetts..... | 1919 | 6,707 | 95,077 | 6,125 | 237,720 | 9,984 | 171,836 |
| | 1914 | 1,496 | 117,165 | 4,407 | 18,402 | (¹) | 50,431 |
| Michigan..... | 1919 | 41 | 10,210 | 140 | 16 | 761 | 38,846 |
| | 1914 | 15 | 3,974 | 306 | 559 | (¹) | 6,771 |
| Minnesota ² | 1919 | 6 | 1,395 | 36 | ..... | 5 | 35,603 |
| Missouri..... | 1919 | ..... | 13,252 | 428 | 6,229 | 208 | 107,402 |
| | 1914 | 4 | 8,799 | 30 | 951 | (¹) | 19,261 |
| New Jersey..... | 1919 | 52,844 | 120,300 | 721 | 26,058 | 9,317 | 224,893 |
| | 1914 | 29,592 | 44,084 | 50 | 2,930 | (¹) | 107,306 |
| New York..... | 1919 | 37,625 | 274,014 | 26,085 | 92,196 | 2,627 | 225,718 |
| | 1914 | 21,362 | 251,332 | 3,880 | 51,168 | (¹) | 142,082 |
| Ohio..... | 1919 | 2,355 | 104,243 | 12,880 | 31,553 | 1,860 | 611,664 |
| | 1914 | 81 | 59,496 | 1,257 | 5,407 | (¹) | 1,094,338 |
| Pennsylvania..... | 1919 | 65,866 | 204,456 | 5,119 | 24,177 | 533 | 591,494 |
| | 1914 | 3,155 | 122,889 | 2,913 | 20,768 | (¹) | 433,817 |
| Rhode Island..... | 1919 | 309 | 5,691 | 8 | 1,067 | 118 | 41,050 |
| | 1914 | 6,612 | 12,189 | 54 | 4,207 | (¹) | 19,423 |
| Wisconsin..... | 1919 | 476 | 19,929 | 1,314 | 21,611 | 513 | 42,784 |
| | 1914 | 50 | 17,166 | 1,095 | 628 | (¹) | 98,493 |

¹ Included in figures for fuel oils.² Not reported separately in 1914.

SPECIAL STATISTICS.

Certain additional information concerning the quantity and value of products for the industry is collected by means of supplemental schedules. In the foregoing tables statistics are presented for only those establishments engaged primarily in the manufacture of electrical machinery, apparatus, and supplies. There is, however, a certain amount of this class of product manufactured in establishments classified under other industry captions.

Detailed statistics of values.—In order to present full detailed statistics for the industry, the subsidiary electrical products of these establishments have been included in Table 11. This table summarizes in comparative form, for the past four census periods, the values of the various groups of electrical commodities. Porcelain electrical supplies manufactured in the clay-working industries and globes and jars accredited to the glass industry are not included; statistics for these items will be found in the general figures for the industries named.

In comparing statistics of the different censuses, allowances should be made, particularly in the case of some of the less distinctive products, for changes in the form of the schedule used and for the possibility that all manufacturers did not classify their products in the same way.

The more important classes of products are treated separately in tables presenting statistics of production in detail.

TABLE 11.—DETAILED STATISTICS OF VALUES: 1919, 1914, 1909, AND 1904.

| KIND. | 1919 | 1914 | 1909 | 1904 |
|---|-----------------|---------------|------------------|------------------|
| Products, total value..... | \$1,063,526,297 | \$359,432,155 | \$240,037,479 | \$159,551,402 |
| The electrical industry—Electrical machinery and apparatus..... | 997,968,119 | 335,170,194 | 221,308,563 | 140,809,369 |
| Subsidiary electrical products of other industries..... | 65,558,178 | 24,261,961 | 18,728,916 | 18,742,033 |
| <i>Principal groups.</i> | | | | |
| Generating apparatus and parts..... | 89,206,114 | 17,865,542 | 14,077,071 | 11,084,234 |
| Transformers and feeder potential regulators..... | 53,495,570 | 28,276,338 | 14,630,715 | 7,142,026 |
| Motors (not including starters or controllers)..... | 116,893,638 | 44,176,235 | 32,087,482 | 22,370,626 |
| Electric locomotives, mining, industrial, and railway..... | 8,159,825 | 3,720,914 | (¹) | (¹) |
| Batteries, storage..... | 60,036,152 | 13,080,964 | 4,673,209 | 2,645,749 |
| Batteries, primary..... | 32,427,043 | 10,321,491 | 5,934,261 | 1,598,144 |
| Carbons: Furnace, lighting, and welding; brushes, battery and miscellaneous..... | 13,291,615 | 3,602,741 | 1,934,864 | 2,710,935 |
| Arclamps..... | 606,771 | 742,142 | 1,706,959 | 1,674,422 |
| Searchlights, projectors, and focusing lamps..... | 4,342,246 | 2,081,545 | 935,874 | 114,795 |
| Incandescent lamps..... | 57,646,900 | 17,350,385 | 15,714,809 | 6,953,205 |
| Rectifying apparatus, including rotating commutators, electric valves, mercury rectifiers, and vibrating commutators..... | 1,964,876 | 147,965 | (¹) | (¹) |
| Telegraph apparatus..... | 12,816,341 | 2,248,375 | 1,957,432 | 1,111,194 |
| Telephone apparatus..... | 46,214,342 | 22,816,640 | 14,259,357 | 16,863,698 |
| Household and industrial apparatus and devices..... | 54,793,195 | 4,048,915 | 1,954,112 | 395,827 |
| Electric measuring instruments..... | 19,322,164 | 3,786,506 | 7,800,010 | 5,004,763 |
| Magnetolignition apparatus..... | 51,286,793 | 22,250,847 | 6,092,343 | 678,077 |

TABLE 11.—DETAILED STATISTICS OF VALUES: 1919, 1914, 1909, AND 1904—Continued.

| KIND. | 1919 | 1914 | 1909 | 1904 |
|---|--------------|------------------|------------------|------------------|
| Miscellaneous electrical machinery, apparatus, and supplies. | | | | |
| Switchboards, panel boards, and cut-out cabinets for light and power..... | \$17,735,780 | \$8,989,111 | \$5,971,804 | \$3,766,044 |
| Railway switches, signals, and attachments..... | 4,466,611 | 2,393,551 | 2,377,843 | 1,451,337 |
| Circuit breakers, oil..... | 2,733,535 | (²) | (²) | (²) |
| Circuit breakers, air and carbon..... | 1,391,911 | (²) | (²) | (²) |
| Fuses, cut-outs, and fuse plugs..... | 7,895,098 | 1,757,430 | 1,001,719 | 883,079 |
| Insulators..... | 6,504,147 | (²) | (²) | (²) |
| Sockets, receptacles, bases, and attachment plugs..... | 15,008,365 | 5,512,009 | 4,521,729 | 2,010,860 |
| Wiring supplies (current carrier)..... | 6,857,819 | (²) | (²) | (²) |
| Lightning arresters, choke coils, reactors, and other protective devices..... | 2,363,416 | 1,188,773 | 940,171 | 587,124 |
| Insulated wire..... | 67,578,732 | | | |
| Insulated cables, rubber insulation..... | 34,314,305 | 69,505,573 | 51,624,737 | 34,519,699 |
| Insulated cables, paper insulation..... | 26,789,302 | | | |
| Pole-line hardware..... | 9,379,145 | (²) | (²) | (²) |
| Circuit fittings, not elsewhere provided for..... | 5,052,994 | 2,067,683 | 1,080,287 | 3,525,446 |
| Underground conduits..... | 890,749 | 4,874,709 | 6,098,264 | 2,416,245 |
| Interior conduits..... | 18,375,830 | | | |
| Electric lighting fixtures of all kinds..... | 2,703,266 | 3,383,955 | 2,200,668 | 2,294,605 |
| Annunciators and push buttons..... | 708,941 | 263,806 | 236,507 | 185,870 |
| Electric clocks and time mechanisms..... | 1,797,900 | 410,774 | 352,513 | 373,028 |
| Bells, buzzers, and signal gongs..... | 3,610,281 | (²) | (²) | (²) |
| Therapeutic apparatus, including X-ray tubes..... | 8,895,402 | 2,053,098 | 1,107,858 | 1,036,962 |
| All other electrical machinery, apparatus, and supplies..... | 95,232,300 | 27,276,204 | 13,995,176 | |
| All other products..... | 76,573,808 | 17,951,652 | | |
| Amount received for custom work and repairing..... | 27,106,016 | 5,676,592 | 17,765,645 | 26,267,509 |

¹ Figures not available.

² Reported as "Electric switches, signals, and attachments."

³ Not reported separately.

⁴ Not including fixtures made by establishments engaged primarily in the manufacture of "Gas and electric fixtures."

Subsidiary electrical products.—Table 12 shows, for 1919, 1914, and 1909, the value of the various kinds of electrical apparatus included in the totals shown in Table 11, which were manufactured as subsidiary products by establishments in other industries.

TABLE 12.—SUBSIDIARY ELECTRICAL PRODUCTS OF OTHER INDUSTRIES: 1919, 1914, AND 1909.

| KIND. | 1919 | 1914 | 1909 |
|--|--------------|------------------|------------------|
| Number of establishments..... | 177 | 91 | 142 |
| Total value..... | \$55,558,178 | \$24,261,961 | \$18,728,916 |
| Generating apparatus and parts..... | 2,353,520 | 1,363,723 | 1,751,122 |
| Transformers and feeder potential regulators..... | 1,169,175 | 473,538 | 377,845 |
| Motors (not including starters or controllers)..... | 1,480,686 | 900,683 | 1,213,761 |
| Batteries, storage and primary..... | 166,633 | (¹) | (¹) |
| Searchlights, projectors, and focusing lamps..... | 1,438,711 | (¹) | (¹) |
| Telegraph apparatus..... | 113,313 | (¹) | (¹) |
| Household and industrial apparatus and devices..... | 1,897,059 | (¹) | (¹) |
| Electric measuring instruments..... | 118,249 | (¹) | (¹) |
| Magnetolignition apparatus..... | 1,534,998 | 105,541 | 79,183 |
| Insulators..... | 865,727 | (²) | (²) |
| Insulated wire and cables..... | 51,198,390 | 18,183,904 | 11,374,165 |
| All other electrical machinery, apparatus, and supplies..... | 3,212,712 | 3,234,512 | 3,932,840 |

¹ Included in "All other electrical machinery."

² Not reported separately.

Generating apparatus and parts.—Table 13 shows detailed figures, for 1919 and 1914, regarding generating apparatus. A remarkable development is found in this item in the five-year period, the value increas-

ing 382.9 per cent. Another evidence of the progress is seen in the tendency to build larger units, the large generators averaging 348 kilowatt capacity each in 1919 as against 116 kilowatts each in 1914.

TABLE 13.—GENERATING APPARATUS AND PARTS: 1919 AND 1914.

| CLASS. | 1919 | 1914 |
|---|--------------|--------------|
| Total value..... | \$88,260,114 | \$17,805,542 |
| Generators (other than small dynamos under 10 kw.): | | |
| Alternating current— | | |
| Steam-turbine driven, under 2,000 kva.— | | |
| Number..... | 532 | |
| Kilowatts..... | 665,971 | 375 |
| Value..... | (1) | |
| Steam-turbine driven, 2,000 kva. or over— | | |
| Number..... | 144 | 600,185 |
| Kilowatts..... | 1,236,827 | \$3,895,291 |
| Value..... | \$8,262,802 | |
| Other, including water-wheel driven— | | |
| Number..... | 3,123 | 2,137 |
| Kilowatts..... | 821,597 | 587,820 |
| Value..... | \$4,403,290 | \$3,542,184 |
| Direct current— | | |
| Steam-turbine driven— | | |
| Number..... | 2,262 | 264 |
| Kilowatts..... | 408,866 | 14,018 |
| Value..... | \$2,704,563 | \$308,379 |
| Other, including water-wheel driven— | | |
| Number..... | 4,345 | 9,369 |
| Kilowatts..... | 485,266 | 206,305 |
| Value..... | \$3,937,080 | \$2,569,086 |
| Small dynamos (under 10 kw.), starting motors, and automotive generators, not including control equipment, value..... | \$36,602,797 | \$5,933,273 |
| Self-contained lighting outfits (as farm-lighting outfits): | | |
| Number..... | 61,357 | (2) |
| Value..... | \$24,078,536 | (3) |
| Parts and supplies, value..... | \$0,217,046 | \$1,527,359 |

¹ Value included with that of generators of 2,000 kva. or over, to avoid disclosure of individual operations.

² No segregation reported in 1914.

Transformers.—Table 14 shows in comparative form for 1919, 1914, and 1909, the number, capacity, and value of the transformers and regulators manufactured in the industry. During the period 1914 to 1919, the manufacture of transformers increased 230.6 per cent in number, 447.6 per cent in capacity, and 94.8 per cent in value. To avoid a disclosure of individual operations, statistics for reactances and regulators were merged with those for rheostats, resistances, controllers, etc.

TABLE 14.—TRANSFORMERS AND FEEDER POTENTIAL REGULATORS: 1919, 1914, AND 1909.

| CLASS. | 1919 | 1914 | 1909 |
|--|--------------|--------------|--------------|
| Total value..... | \$53,495,570 | \$28,276,338 | \$14,030,715 |
| Transformers: | | | |
| Number..... | 382,929 | 115,843 | 76,729 |
| Kilowatts..... | 14,484,179 | 2,644,794 | 1,035,420 |
| Value..... | \$25,560,901 | \$13,120,065 | \$8,801,019 |
| Under 50 kilowatts— | | | |
| Number..... | 331,069 | 110,177 | 72,776 |
| Value..... | \$10,613,234 | \$7,316,615 | \$4,184,832 |
| 50 to 500 kilowatts— | | | |
| Number..... | 50,061 | 4,857 | |
| Value..... | \$9,190,762 | \$2,625,414 | 3,953 |
| 500 kilowatts or over— | | | |
| Number..... | 1,169 | 899 | \$4,016,187 |
| Value..... | \$5,747,905 | \$3,178,036 | |
| Rheostats, resistances, controllers, motor starters, speed-controlling devices, reactances, regulators, etc..... | \$23,083,265 | \$9,788,378 | \$2,674,963 |
| Converting apparatus—synchronous condensers, motor-generator sets, double-current generators, dynamotors, frequency changers, and rotary-phase converters... | \$4,851,404 | \$5,367,895 | \$3,154,733 |

¹ Rheostats and resistances only.

Motors.—Table 15 shows the number, capacity, and value of the electrical motors manufactured in 1919 and 1914. The value of the motors, including parts and supplies, 1919, is an increase of \$72,717,403, or 164.6 per cent, over the corresponding figure for 1914. Railway motors were included with those for vehicles to avoid a disclosure of individual operations.

TABLE 15.—MOTORS, PARTS, AND SUPPLIES: 1919 AND 1914.

| CLASS. | 1919 | 1914 |
|--------------------------------|---------------|--------------|
| Total value..... | \$116,893,638 | \$44,176,235 |
| Stationary motors: | | |
| Number..... | 1,533,407 | 1,417,092 |
| Horsepower..... | 3,791,062 | 1,2,882,795 |
| Value..... | \$76,171,558 | \$32,286,140 |
| Direct current— | | |
| Number..... | 380,182 | 133,492 |
| Horsepower..... | 734,691 | 980,820 |
| Value..... | \$20,200,313 | \$13,316,459 |
| Alternating current— | | |
| Under 200 horsepower— | | |
| Number..... | 1,151,286 | |
| Horsepower..... | 2,559,526 | |
| Value..... | \$52,430,381 | 281,500 |
| 200 horsepower or over— | | |
| Number..... | 1,939 | 1,901,975 |
| Horsepower..... | 496,845 | \$18,969,060 |
| Value..... | \$3,540,864 | |
| Marine motors: | | |
| Number..... | 2,630 | (2) |
| Horsepower..... | 8,428 | (2) |
| Value..... | \$816,371 | (2) |
| For vehicles and railways: | | |
| Number..... | 49,256 | \$11,890 |
| Horsepower..... | 351,286 | \$39,853 |
| Value..... | \$6,355,102 | \$1,351,442 |
| For fans: | | |
| Number..... | 709,350 | (1) |
| Horsepower..... | 66,915 | (1) |
| Value..... | \$9,008,001 | \$1,635,850 |
| For miscellaneous uses: | | |
| Number..... | 198,305 | (1) |
| Horsepower..... | 141,610 | (1) |
| Value..... | \$4,920,311 | \$1,190,651 |
| Parts and supplies, value..... | \$18,722,295 | \$4,512,230 |

¹ Includes railway motors.

² Not reported separately.

³ Vehicle motors only.

⁴ Figures not available.

Batteries.—Table 16 shows the production of storage and primary batteries, parts, and supplies for 1919, 1914, and 1909. The value of this group of products in 1919 exceeds that of 1914 by \$69,060,740, an increase of 295.1 per cent. Storage batteries increased in value 433.7 per cent, and in weight of plates, 237 per cent, during the last census period.

TABLE 16.—BATTERIES, PARTS, AND SUPPLIES: 1919, 1914, AND 1909.

| CLASS. | 1919 | 1914 | 1909 |
|--------------------------------|--------------|--------------|--------------|
| Total value..... | \$92,463,195 | \$23,402,455 | \$10,612,470 |
| Storage: | | | |
| Batteries, value..... | \$56,648,347 | \$10,615,150 | \$4,243,084 |
| Weight of plates, pounds..... | 138,438,540 | 41,079,047 | 23,119,331 |
| Parts and supplies, value..... | \$3,387,805 | \$2,465,814 | \$431,225 |
| Primary: | | | |
| Dry— | | | |
| Number..... | 79,300,082 | | |
| Value..... | \$17,805,611 | 71,092,438 | 53,983,831 |
| Dry, small, for flash lights— | | | |
| Number..... | 94,483,894 | \$3,719,164 | \$4,583,032 |
| Value..... | \$7,514,833 | | |
| Liquid, including testing— | | | |
| Number..... | 2,050,946 | 306,351 | 344,650 |
| Value..... | \$3,508,624 | \$302,525 | \$720,513 |
| Parts and supplies, value..... | \$3,597,975 | \$799,802 | \$621,665 |

Ohio led all states in the production of storage batteries, followed by Pennsylvania, New York, New Jersey, and Indiana, in the order named. The value of battery supplies and parts—storage and primary—increased from \$3,265,616 in 1914 to \$6,985,780 in 1919, equivalent to 113.9 per cent.

Incandescent lamps.—Statistics for incandescent lamps are given in Table 17 for 1919, 1914, and 1909. Statistics for 1919 show an increase in value over that for 1914 of \$40,296,515, or 232.3 per cent. The tungsten type formed 80.9 per cent of the value of all incandescent lamps manufactured in 1919 and 68.5 per cent in 1914. The gem type was included with vacuum and vapor lamps to avoid a disclosure of individual operations.

TABLE 17.—INCANDESCENT LAMPS: 1919, 1914, AND 1909.

| KIND. | 1919 | 1914 | 1909 |
|---|--------------|--------------|--------------|
| Total value..... | \$57,646,900 | \$17,350,385 | \$15,714,809 |
| Tungsten: | | | |
| Number..... | 211,353,193 | 74,434,059 | 11,738,619 |
| Value..... | \$46,628,343 | \$11,886,354 | \$6,241,133 |
| Carbon filament: | | | |
| Number..... | 13,330,273 | 14,092,055 | 55,038,378 |
| Value..... | \$1,830,644 | \$1,397,572 | \$6,157,066 |
| Decorative and miniature lamps, X-ray bulbs, vacuum tubes, etc., value..... | \$5,892,211 | \$1,702,729 | \$600,619 |
| Gem and vacuum and vapor lamps, value..... | \$2,512,435 | | |
| Other types, value..... | \$783,297 | \$2,363,730 | \$2,715,991 |

Telegraph apparatus.—Table 18 shows the production of telegraph instruments and apparatus in 1919, 1914, and 1909. The first and third groups show, for the period 1914 to 1919, increases in value of 1,211.9 per cent and 1,064.9 per cent, respectively. The figures for radio and wireless do not represent the magnitude of the installations, as they cover only the instruments and appliances turned out by the factories during the census years.

TABLE 18.—TELEGRAPH APPARATUS: 1919, 1914, AND 1909.

| CLASS. | 1919 | 1914 | 1909 |
|---|--------------|-------------|-------------|
| Total value..... | \$12,816,341 | \$2,248,375 | \$1,957,432 |
| Intelligence (key, sounder, etc.), all kinds..... | 2,649,365 | 201,956 | 197,669 |
| Police, fire, district, and miscellaneous..... | 2,092,340 | 1,253,954 | 1,126,658 |
| Radio and wireless..... | 7,834,698 | 672,575 | 448,262 |
| Switchboards, parts, and supplies..... | 239,938 | 119,890 | 184,843 |

Telephone apparatus.—Table 19 shows the statistics for telephone apparatus for 1919, 1914, and 1909. The aggregate value of all telephone apparatus, parts, and supplies produced in 1919 shows an increase of \$23,398,702, or 102.6 per cent, over that reported for 1914. Private branch exchange switchboards, in 1919, show a value of \$2,287,122, as compared with \$448,203 in 1914, an increase of 410.3 per cent. For the same period the value of automatic switchboards increased 331.6 per cent.

TABLE 19.—TELEPHONE APPARATUS: 1919, 1914, AND 1909.

| CLASS. | 1919 | 1914 | 1909 |
|---------------------------------------|--------------|--------------|--------------|
| Total value..... | \$40,214,342 | \$22,815,640 | \$14,259,357 |
| Central switchboards: | | | |
| Manual— | | | |
| Central battery— | | | |
| Number..... | 1,330 | | |
| Value..... | \$6,500,500 | \$10,701,764 | |
| Magneto— | | | |
| Number..... | 4,594 | | |
| Value..... | \$1,344,404 | \$374,851 | |
| Automatic, value..... | \$4,327,510 | \$1,002,722 | |
| Substation instruments: | | | |
| Central battery— | | | |
| Number..... | 642,093 | 641,082 | \$10,137,534 |
| Value..... | \$3,839,978 | \$3,916,869 | |
| Magneto— | | | |
| Number..... | 280,502 | 216,879 | |
| Value..... | \$3,276,004 | \$1,799,834 | |
| Interior systems: | | | |
| Number..... | 173,799 | 62,258 | |
| Value..... | \$1,573,778 | \$510,509 | |
| Private branch exchange switchboards: | | | |
| Number..... | 6,880 | 3,693 | 2,252 |
| Value..... | \$2,287,122 | \$448,203 | \$309,915 |
| Parts and supplies, value..... | \$23,059,380 | \$4,060,888 | \$3,751,908 |

Household and industrial apparatus.—The most remarkable development in the entire industry appears in household and industrial apparatus and devices. Table 20 shows an increase in value for 1919 over 1914 of 1,253.3 per cent.

TABLE 20.—HOUSEHOLD AND INDUSTRIAL APPARATUS AND DEVICES: 1919, 1914, AND 1909.

| KIND. | 1919 | 1914 | 1909 |
|---|--------------|------------------|------------------|
| Total value..... | \$54,793,195 | \$4,048,915 | \$1,954,112 |
| Welding apparatus (not including motor-generator sets)..... | 2,701,378 | 231,082 | 83,505 |
| Electric furnaces (for iron and steel and brass industries)..... | 1,040,337 | (¹) | (¹) |
| Heaters (industrial heaters; air heaters, including those for cars; water heaters)..... | 2,889,734 | 352,017 | |
| Stoves and ranges..... | 3,444,170 | 671,413 | 919,533 |
| Miscellaneous cooking devices (griddles, grills, toasters, percolators, etc.)..... | 7,815,212 | 1,327,183 | |
| Flatirons..... | 5,646,421 | 1,466,620 | 951,074 |
| Vacuum cleaners, vibrators, clippers, cutters, etc..... | 21,842,439 | (¹) | (¹) |
| Other portable motor-driven devices (motor built in)..... | 6,985,809 | (¹) | (¹) |
| Other stationary motor-driven apparatus (motor built in)..... | 2,427,695 | (¹) | (¹) |

¹ Not reported separately.

Electric measuring instruments.—Table 21 gives the value of electric measuring instruments of various kinds for 1919, 1914, and 1909. The statistics show an increase of 119.9 per cent as compared with 1914. Of the total production for 1919, meters for consumers circuits comprised 46.1 per cent; station meters and apparatus, 36.7 per cent; and instruments for testing and scientific purposes, 17.3 per cent.

TABLE 21.—ELECTRIC MEASURING INSTRUMENTS: 1919, 1914, AND 1909.

| KIND. | 1919 | 1914 | 1909 |
|---|--------------|-------------|-------------|
| Total value..... | \$19,322,164 | \$8,786,506 | \$7,800,010 |
| Station meters and apparatus..... | 7,084,983 | 1,585,500 | 1,639,202 |
| Testing and scientific instruments..... | 3,336,172 | 1,073,080 | 546,970 |
| Meters for consumers' circuits..... | 8,901,009 | 6,127,940 | 5,613,838 |

Magnetoignition apparatus.—Table 22 shows the production of magnetoignition apparatus, spark plugs, coils, etc., by states, for 1919, 1914, and 1909. The states are ranked in the table according to the value of products, Ohio leading with 22 per cent of the total value, New Jersey following with 15.2 per cent.

TABLE 22.—MAGNETOIGNITION APPARATUS—GENERATORS, SPARK PLUGS, AND COILS: 1919, 1914, AND 1909.

| STATE. | 1919 | 1914 | 1909 |
|-----------------------|--------------|--------------|-------------|
| United States..... | \$51,286,793 | \$22,260,847 | \$6,092,343 |
| Ohio..... | 11,262,431 | 7,472,268 | 131,055 |
| New Jersey..... | 7,780,531 | 2,922,684 | 460,952 |
| New York..... | 6,000,612 | 1,205,494 | 1,483,735 |
| Pennsylvania..... | 3,509,392 | 538,762 | (1) |
| Indiana..... | 2,404,530 | 2,950,792 | 2,223,221 |
| Illinois..... | 1,842,045 | 413,985 | 253,451 |
| Wisconsin..... | 1,330,480 | 202,130 | 63,606 |
| Minnesota..... | 56,678 | | |
| All other states..... | 17,100,094 | 6,554,731 | 1,467,323 |

¹ Included in "All other states."

Switchboards.—Each system of centralized electrical supply depends upon a switchboard for the manipulation of its circuits and to connect the sources of supply with the consumer. Table 23 shows the value of the switchboards, panel boards, and cut-out cabinets manufactured during 1919 in 11 of the leading states, for 9 of which comparative figures are available for 1914 and 1909.

TABLE 23.—SWITCHBOARDS, PANEL BOARDS, AND CUT-OUT CABINETS FOR LIGHT AND POWER: 1919, 1914, AND 1909.

| STATE. | 1919 | 1914 | 1909 |
|-----------------------|--------------|-------------|-------------|
| United States..... | \$17,735,780 | \$3,989,111 | \$5,971,804 |
| New York..... | 7,483,106 | 5,505,685 | 2,789,297 |
| Pennsylvania..... | 5,197,725 | 1,596,433 | 1,243,356 |
| Ohio..... | 772,683 | 237,916 | 236,930 |
| Illinois..... | 444,605 | 419,931 | 448,185 |
| Massachusetts..... | 375,699 | 157,961 | 304,502 |
| Connecticut..... | 356,104 | 224,481 | 151,385 |
| Wisconsin..... | 317,097 | (1) | (2) |
| Indiana..... | 248,784 | 229,989 | 117,877 |
| California..... | 183,541 | 130,162 | 90,594 |
| Washington..... | 169,928 | (1) | (2) |
| Minnesota..... | 158,464 | 71,971 | 48,385 |
| All other states..... | 2,028,054 | 444,582 | 541,293 |

¹ Included in "All other states."

² Figures not available.

New York contributed 42.2 per cent of the entire output in 1919, Pennsylvania following with 29.3 per cent.

Insulated wire and cables.—Table 24 gives the value of insulated wire and cables produced not only by establishments primarily engaged in the manufacture of electrical machinery, apparatus, and supplies but likewise by those assigned to other industries. A marked increase, amounting to \$59,176,766, or 85.1 per cent, is shown between the censuses of 1914 and 1919. Of the \$128,682,339 representing the total value of insulated wire and cables, \$84,216,921, or 65.4 per cent, was contributed by the industry "electrical machinery, apparatus, and supplies," and \$44,465,418, or 34.6 per cent by wire-drawing mills and wire departments of steel, and brass, bronze, and copper rolling mills. In the production for 1919, New York occupies first place, followed by New Jersey and Illinois, all of which retain the relative rank they had in 1914.

TABLE 24.—INSULATED WIRE AND CABLES: 1919, 1914, AND 1909.

| STATE. | 1919 | 1914 | 1909 |
|---|---------------|--------------|--------------|
| United States..... | \$128,682,339 | \$69,505,573 | \$51,624,737 |
| Industry: | | | |
| Electrical machinery, apparatus, and supplies..... | \$84,216,921 | 51,321,609 | 40,250,572 |
| Wire—wire-drawing mills—wire departments of steel, and brass, bronze, and copper rolling mills..... | \$44,465,418 | 18,183,964 | 11,374,165 |
| Insulated wire: | | | |
| Tons (2,000 pounds)..... | 112,270 | (2) | (1) |
| Value..... | \$67,578,732 | (1) | (1) |
| Insulated cables: | | | |
| Rubber insulation— | | | |
| Tons (2,000 pounds)..... | 52,569 | (1) | (1) |
| Value..... | \$34,314,305 | (1) | (1) |
| Paper insulation— | | | |
| Tons (2,000 pounds)..... | 59,268 | (1) | (1) |
| Value..... | \$26,789,302 | (1) | (1) |
| New York..... | \$27,089,086 | \$19,178,327 | \$9,485,282 |
| New Jersey..... | 25,526,647 | 15,038,971 | 13,045,425 |
| Illinois..... | 19,577,122 | 9,626,775 | 9,487,006 |
| Connecticut..... | 16,801,031 | 6,206,893 | 4,205,609 |
| Massachusetts..... | 15,643,318 | 6,799,411 | 2,194,474 |
| Rhode Island..... | 12,586,795 | 6,045,876 | 7,741,411 |
| Pennsylvania..... | 5,467,492 | 3,299,485 | 2,796,825 |
| Michigan..... | 3,170,516 | (2) | (2) |
| All other states..... | 2,760,332 | 3,309,925 | 1,768,805 |

¹ Figures not available.

² Included in "All other states."

GENERAL TABLES.

Table 25 gives for 1919, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the industry.

Table 26 presents, for 1919, statistics in detail for the industry as a whole, and for each state that can be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 25.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

| INDUSTRY. | Cen- sus year. | Num- ber of estab- lish- ments | Wage earners (aver- age num- ber). | Primary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. | INDUSTRY. | Cen- sus year. | Num- ber of estab- lish- ments | Wage earners (aver- age num- ber). | Primary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. |
|--------------------|----------------------|--|---|-----------------------------|-------------------------|----------------------------|----------------------------|-----------------------|----------------------|--|---|-----------------------------|-------------------------|----------------------------|----------------------------|
| | | | | | Expressed in thousands. | | | | | | | | Expressed in thousands. | | |
| United States..... | 1919 | 1,404 | 212,374 | 438,830 | \$238,189 | \$425,098 | \$997,968 | Missouri..... | 1919 | 35 | 6,367 | 6,128 | \$5,684 | \$8,162 | \$22,008 |
| | 1914 | 1,030 | 118,078 | 227,731 | 73,806 | 154,728 | 335,170 | | 1914 | 19 | 2,560 | 1,918 | 1,536 | 2,416 | 6,643 |
| | 1909 | 1,009 | 87,256 | 158,768 | 49,381 | 108,566 | 221,309 | | 1909 | 20 | 1,060 | 1,180 | 627 | 1,104 | 3,251 |
| California..... | 1919 | 73 | 2,008 | 3,864 | 1,894 | 5,030 | 11,368 | New Hampshire..... | 1919 | 7 | 425 | 571 | 360 | 643 | 1,454 |
| | 1914 | 29 | 780 | 1,116 | 472 | 1,560 | 2,862 | | 1914 | 6 | 228 | 302 | 122 | 165 | 352 |
| | 1909 | 27 | 435 | 442 | 240 | 928 | 1,613 | | 1909 | 6 | 193 | 422 | 87 | 155 | 388 |
| Colorado..... | 1919 | 8 | 38 | 85 | 34 | 57 | 139 | New Jersey..... | 1919 | 106 | 26,135 | 51,664 | 27,306 | 58,983 | 120,341 |
| | 1914 | 8 | 79 | 84 | 42 | 53 | 138 | | 1914 | 76 | 14,405 | 22,860 | 7,807 | 20,549 | 40,741 |
| | | | | | | | | | 1909 | 69 | 11,099 | 11,326 | 5,615 | 14,426 | 28,365 |
| Connecticut..... | 1919 | 54 | 11,403 | 15,368 | 12,454 | 23,442 | 51,911 | New York..... | 1919 | 255 | 37,598 | 136,321 | 45,722 | 73,839 | 179,973 |
| | 1914 | 43 | 5,059 | 6,459 | 2,630 | 7,436 | 14,330 | | 1914 | 215 | 23,738 | 71,453 | 16,187 | 38,025 | 73,945 |
| | 1909 | 41 | 3,505 | 4,457 | 1,603 | 5,211 | 9,824 | | 1909 | 217 | 18,972 | 53,813 | 12,479 | 27,483 | 49,290 |
| Illinois..... | 1919 | 161 | 27,290 | 32,660 | 30,571 | 51,626 | 119,528 | North Carolina..... | 1919 | 7 | 270 | 296 | 131 | 355 | 693 |
| | 1914 | 142 | 16,483 | 21,140 | 12,366 | 19,379 | 45,667 | | 1914 | 4 | 78 | 89 | 31 | 106 | 177 |
| | 1909 | 143 | 9,641 | 11,036 | 6,413 | 13,628 | 26,826 | | 1909 | 3 | 120 | 38 | 31 | 97 | 150 |
| Indiana..... | 1919 | 47 | 11,756 | 32,611 | 11,160 | 20,810 | 41,594 | Ohio..... | 1919 | 189 | 26,672 | 42,753 | 30,652 | 72,297 | 156,924 |
| | 1914 | 41 | 4,075 | 6,426 | 2,423 | 3,931 | 8,879 | | 1914 | 119 | 12,695 | 17,771 | 7,409 | 17,482 | 36,121 |
| | 1909 | 42 | 3,073 | 5,285 | 1,361 | 3,693 | 7,718 | | 1909 | 115 | 8,073 | 11,959 | 3,847 | 7,226 | 18,777 |
| Iowa..... | 1919 | 7 | 82 | 90 | 79 | 140 | 280 | Pennsylvania..... | 1919 | 129 | 24,228 | 58,366 | 30,031 | 51,358 | 132,674 |
| | 1914 | 5 | 94 | 88 | 58 | 87 | 235 | | 1914 | 105 | 14,866 | 30,537 | 8,737 | 17,240 | 44,396 |
| | 1909 | 9 | 64 | 84 | 31 | 74 | 200 | | 1909 | 84 | 11,025 | 33,829 | 6,237 | 13,535 | 31,351 |
| Maryland..... | 1919 | 13 | 137 | 188 | 145 | 157 | 523 | Rhode Island..... | 1919 | 13 | 1,513 | 3,087 | 1,346 | 3,127 | 7,567 |
| | 1914 | 6 | 66 | 80 | 35 | 40 | 121 | | 1914 | 13 | 1,581 | 3,633 | 784 | 3,793 | 5,468 |
| | 1909 | 7 | 121 | 266 | 41 | 54 | 147 | | 1909 | 12 | 1,601 | 2,837 | 678 | 4,595 | 6,410 |
| Massachusetts..... | 1919 | 110 | 23,889 | 36,367 | 27,650 | 31,837 | 91,939 | Wisconsin..... | 1919 | 43 | 5,875 | 7,470 | 6,028 | 9,368 | 23,636 |
| | 1914 | 91 | 17,125 | 29,846 | 10,651 | 17,697 | 43,869 | | 1914 | 29 | 2,115 | 3,616 | 1,340 | 2,064 | 5,397 |
| | 1909 | 83 | 14,507 | 14,835 | 8,209 | 12,735 | 28,143 | | 1909 | 30 | 1,409 | 2,333 | 820 | 1,451 | 3,836 |
| Michigan..... | 1919 | 54 | 4,190 | 5,659 | 4,685 | 9,035 | 25,026 | All other states..... | 1919 | 74 | 1,556 | 4,410 | 1,504 | 2,799 | 6,056 |
| | 1914 | 35 | 1,144 | 1,584 | 656 | 1,740 | 3,416 | | 1914 | 27 | 671 | 2,241 | 840 | 617 | 1,664 |
| | 1909 | 40 | 1,218 | 1,355 | 494 | 1,030 | 2,327 | | 1909 | 48 | 953 | 2,466 | 467 | 921 | 2,167 |
| Minnesota..... | 1919 | 20 | 942 | 881 | 753 | 2,033 | 4,354 | | | | | | | | |
| | 1914 | 17 | 236 | 393 | 161 | 348 | 749 | | | | | | | | |
| | 1909 | 13 | 187 | 205 | 101 | 220 | 526 | | | | | | | | |

MANUFACTURES.

TABLE 26.—DETAILED STATEMENT, BY STATES: 1919.

| STATE. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | EXPENSES. | |
|-----------------------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|----------------|---------|-----------|--|----------|---------------------|---------------|--------------|--------------|--|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | 16 and over. | | Under 16. | | Capital. | Salaries and wages. | | | | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | Male. | Female. | Male. | | Female. | Officials. | Clerks, etc. | | |
| | | | | | | | | Maximum month. | Minimum month. | | | | | | | | | |
| Total..... | 1,404 | 271,912 | 473 | 10,701 | 29,233 | 19,131 | 212,374 | De 241,640 | My 196,418 | 245,324 | 180,152 | 62,920 | 1,557 | 695 | \$857,855,496 | \$35,932,611 | \$62,247,828 | |
| California..... | 73 | 2,714 | 57 | 113 | 325 | 211 | 2,008 | No 2,328 | My 1,803 | 2,322 | 1,478 | 840 | 4 | ..... | 7,690,738 | 342,608 | 602,697 | |
| Colorado..... | 8 | 48 | 2 | 5 | 1 | 2 | 38 | Ja 61 | Aug 28 | 40 | 28 | 12 | ..... | ..... | 124,787 | 7,403 | 3,227 | |
| Connecticut..... | 54 | 13,344 | 15 | 472 | 784 | 670 | 11,403 | De 13,828 | Ap 9,648 | 13,872 | 8,713 | 4,930 | 120 | 109 | 44,916,089 | 1,857,336 | 1,090,873 | |
| Illinois..... | 161 | 30,515 | 46 | 1,310 | 5,094 | 2,705 | 27,290 | De 30,965 | Mh 25,650 | 30,952 | 21,568 | 5,711 | 536 | 137 | 96,811,473 | 4,805,813 | 11,347,195 | |
| Indiana..... | 47 | 14,160 | 6 | 329 | 1,188 | 881 | 11,756 | No 13,521 | Ja 9,859 | 13,003 | 9,122 | 3,763 | 61 | 57 | 35,430,365 | 1,036,050 | 2,379,568 | |
| Iowa..... | 7 | 118 | 4 | 17 | 6 | 9 | 82 | De 96 | Fe 72 | 96 | 81 | 15 | ..... | ..... | 325,058 | 24,861 | 16,940 | |
| Kentucky..... | 9 | 310 | ..... | 21 | 17 | 17 | 255 | De 327 | Aug 162 | 327 | 277 | 50 | ..... | ..... | 1,112,553 | 88,271 | 29,045 | |
| Louisiana..... | 5 | 50 | 1 | 11 | 2 | 4 | 32 | Se 41 | No 25 | 40 | 22 | 18 | ..... | ..... | 115,403 | 22,813 | 4,198 | |
| Maryland..... | 13 | 177 | 8 | 16 | 8 | 8 | 137 | No 143 | Ja 134 | 144 | 129 | 15 | ..... | ..... | 238,919 | 49,598 | 15,810 | |
| Massachusetts..... | 110 | 29,472 | 32 | 1,201 | 2,287 | 2,063 | 23,889 | De 28,024 | Ap 21,582 | 28,008 | 20,884 | 6,900 | 151 | 73 | 90,953,845 | 3,855,415 | 5,158,647 | |
| Michigan..... | 54 | 5,165 | 19 | 230 | 377 | 349 | 4,190 | No 4,908 | Ap 3,775 | 4,667 | 2,876 | 1,776 | 2 | 3 | 15,967,288 | 1,002,059 | 949,048 | |
| Minnesota..... | 20 | 1,230 | 7 | 54 | 151 | 70 | 942 | De 1,005 | Ja 916 | 982 | 635 | 334 | 13 | ..... | 2,372,800 | 255,655 | 299,234 | |
| Missouri..... | 35 | 7,891 | 3 | 331 | 693 | 497 | 6,367 | De 7,694 | Fe 5,357 | 7,507 | 5,335 | 2,091 | 38 | 48 | 21,323,709 | 1,191,116 | 1,258,784 | |
| Nebraska..... | 6 | 116 | 3 | 9 | 7 | 9 | 88 | No 100 | Ja 58 | 96 | 66 | 30 | ..... | ..... | 272,230 | 22,200 | 23,238 | |
| New Hampshire..... | 7 | 461 | 1 | 25 | 2 | 8 | 425 | De 530 | Fe 384 | 530 | 290 | 240 | ..... | ..... | 920,294 | 93,012 | 22,624 | |
| New Jersey..... | 105 | 32,603 | 24 | 1,463 | 2,653 | 2,328 | 20,135 | Ja 28,285 | Jy 24,299 | 27,684 | 18,452 | 8,905 | 207 | 120 | 114,813,488 | 4,793,270 | 5,907,250 | |
| New York..... | 255 | 51,009 | 91 | 2,206 | 7,298 | 3,726 | 37,598 | De 41,333 | Je 35,639 | 41,441 | 32,820 | 8,392 | 174 | 55 | 162,681,033 | 7,205,821 | 14,518,605 | |
| North Carolina..... | 7 | 311 | 5 | 23 | 10 | 3 | 270 | Jy 280 | Oc 254 | 267 | 144 | 123 | ..... | ..... | 378,962 | 54,870 | 17,960 | |
| Ohio..... | 180 | 32,501 | 53 | 925 | 2,817 | 2,034 | 20,672 | De 31,551 | My 22,900 | 35,633 | 27,377 | 8,226 | 24 | 6 | 103,340,897 | 3,690,316 | 5,779,063 | |
| Oregon..... | 3 | 31 | 2 | 4 | 3 | 2 | 20 | Se 23 | Ap 17 | 21 | 18 | 3 | ..... | ..... | 50,256 | 6,916 | 9,285 | |
| Pennsylvania..... | 129 | 33,601 | 60 | 1,291 | 4,366 | 2,655 | 24,228 | De 27,817 | My 21,791 | 27,800 | 23,101 | 4,625 | 8 | 48 | 120,115,738 | 3,826,361 | 10,095,402 | |
| Rhode Island..... | 13 | 1,842 | 7 | 74 | 139 | 109 | 1,513 | Ja 1,695 | Jy 1,348 | 1,566 | 732 | 818 | 9 | 7 | 5,049,062 | 188,710 | 247,346 | |
| Tennessee..... | 4 | 63 | 2 | 6 | 2 | 1 | 52 | Ja 64 | Aug 40 | 47 | 41 | 6 | ..... | ..... | 131,518 | 18,328 | 3,510 | |
| Texas..... | 6 | 44 | 3 | 5 | 1 | 2 | 33 | No 39 | Ja 26 | 37 | 37 | ..... | ..... | ..... | 140,146 | 13,500 | 3,668 | |
| Washington..... | 12 | 268 | 2 | 32 | 21 | 23 | 190 | Ja 274 | Fe 134 | 226 | 178 | 45 | ..... | ..... | 1,931,181 | 73,704 | 40,293 | |
| Wisconsin..... | 43 | 7,757 | 9 | 378 | 877 | 618 | 5,875 | De 7,119 | Je 4,915 | 7,117 | 5,042 | 1,909 | 135 | 31 | 21,861,429 | 1,236,513 | 1,605,244 | |
| All other states..... | 29 | 1,111 | 11 | 51 | 104 | 59 | 886 | ..... | ..... | 849 | 706 | 140 | 2 | 1 | 2,777,175 | 109,120 | 219,014 | |

| STATE. | EXPENSES—continued. | | | | | | POWER. | | | | | | | | | | |
|-----------------------|-------------------------|--------------------|------------------|---|----------------------|--------------|--------------------|---------------|-----------------------------|--------|---------|-------------------------------|-----------------|------------------------------|---------------------------|--------------------|--|
| | Salaries and wages—Con. | | Rent and taxes. | | For materials. | | Value of products. | | Value added by manufacture. | | | Primary horsepower. | | | | | Electric horsepower generated in establishments reporting. |
| | Wage earners. | For contract work. | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Owned. | | | | | | | | | | | |
| | | | | | | Total. | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ³ | Rent- ⁴ | |
| Total..... | \$238,188,852 | \$1,218,203 | \$2,553,802 | \$43,803,385 | \$411,359,101 | \$13,730,110 | \$997,968,119 | \$572,809,908 | 438,830 | 62,000 | 131,231 | 7,440 | 1,800 | 230,362 | 243,761 | ..... |  |
| California..... | 1,894,004 | 16,080 | 67,314 | 334,118 | 4,898,427 | 131,434 | 11,368,196 | 6,338,285 | 3,864 | ..... | ..... | ..... | ..... | ..... | 3,864 | ..... |  |
| Colorado..... | 38,624 | 5,320 | 4,545 | 2,044 | 55,056 | 2,082 | 138,849 | 81,711 | 85 | ..... | ..... | ..... | ..... | ..... | 85 | ..... |  |
| Connecticut..... | 12,453,872 | 3,450 | 45,054 | 1,974,802 | 22,792,830 | 648,968 | 51,911,332 | 28,469,534 | 15,368 | 6,805 | 500 | 8 | 195 | 7,860 | 5,111 | ..... |  |
| Illinois..... | 30,571,419 | 618,802 | 549,727 | 3,199,171 | 50,258,394 | 1,367,905 | 119,528,022 | 67,901,723 | 32,060 | 1,995 | 19,000 | 53 | ..... | 11,532 | 13,285 | ..... |  |
| Indiana..... | 11,160,436 | 500 | 35,064 | 784,024 | 20,292,035 | 547,642 | 41,594,125 | 20,784,448 | 32,611 | 4,360 | 850 | 233 | ..... | 27,178 | 623 | ..... |  |
| Iowa..... | 78,735 | ..... | 2,258 | 2,246 | 135,025 | 3,880 | 280,306 | 140,801 | 96 | ..... | ..... | 10 | ..... | 80 | ..... | ..... |  |
| Kentucky..... | 243,039 | 12,436 | 2,975 | 100,469 | 546,673 | 7,253 | 1,137,031 | 583,205 | 439 | 65 | ..... | ..... | ..... | 374 | 178 | ..... |  |
| Louisiana..... | 27,901 | ..... | 2,912 | 4,700 | 55,292 | 852 | 154,003 | 97,859 | 36 | ..... | ..... | ..... | ..... | 36 | ..... | ..... |  |
| Maryland..... | 144,903 | 4,723 | 7,696 | 80,707 | 152,150 | 4,757 | 522,865 | 305,958 | 188 | ..... | ..... | ..... | ..... | 188 | ..... | ..... |  |
| Massachusetts..... | 27,649,667 | 28,160 | 195,130 | 4,127,531 | 30,545,217 | 1,291,859 | 91,938,738 | 60,101,662 | 36,367 | 3,925 | 24,718 | 75 | 180 | 7,469 | 58,460 | ..... |  |
| Michigan..... | 4,685,479 | 7,565 | 100,420 | 1,597,016 | 222,896 | 37,241 | 25,025,528 | 15,990,472 | 5,059 | 265 | ..... | 37 | ..... | 5,357 | 85 | ..... |  |
| Minnesota..... | 753,004 | 8,343 | 17,378 | 196,213 | 1,976,875 | 56,773 | 4,353,949 | 2,320,601 | 881 | ..... | ..... | ..... | ..... | 881 | ..... | ..... |  |
| Missouri..... | 5,689,802 | 4,471 | 105,832 | 1,022,828 | 7,964,570 | 197,683 | 22,007,658 | 13,845,405 | 6,128 | 350 | 1,000 | ..... | ..... | 4,778 | 2,410 | ..... |  |
| Nebraska..... | 91,539 | ..... | 4,373 | 16,823 | 210,348 | 2,075 | 419,655 | 207,232 | 77 | ..... | ..... | ..... | ..... | 77 | ..... | ..... |  |
| New Hampshire..... | 359,801 | ..... | 3,395 | 29,481 | 634,667 | 8,036 | 1,463,679 | 820,076 | 571 | 45 | 15 | 38 | 240 | 233 | ..... | ..... |  |
| New Jersey..... | 27,305,532 | 267,015 | 203,794 | 4,643,864 | 57,088,248 | 1,894,374 | 120,341,356 | 61,353,734 | 51,664 | 22,157 | 6,200 | 1,482 | 100 | 21,725 | 23,028 | ..... |  |
| New York..... | 45,721,978 | 109,328 | 540,960 | 6,038,405 | 70,723,707 | 3,112,543 | 179,972,580 | 106,133,330 | 136,321 | 10,046 | 45,010 | 135 | 75 | 81,055 | 53,124 | ..... |  |
| North Carolina..... | 131,004 | ..... | 3,083 | 3,469 | 332,228 | 23,077 | 663,207 | 307,902 | 206 | ..... | ..... | 6 | 25 | 104 | 20 | ..... |  |
| Ohio..... | 30,652,032 | 38,738 | 373,956 | 8,177,807 | 70,033,187 | 1,064,020 | 156,924,143 | 84,625,936 | 42,753 | 4,533 | 8 | 2,068 | ..... | 30,144 | 14,160 | ..... |  |
| Oregon..... | 20,998 | ..... | 2,782 | 70,816 | 8,812,100 | 1,067 | 103,127 | 64,819 | 35 | ..... | ..... | ..... | ..... | 35 | ..... | ..... |  |
| Pennsylvania..... | 30,031,295 | 85,531 | 170,410 | 10,011,888 | 49,485,481 | 1,872,161 | 132,673,856 | 81,316,214 | 58,366 | 4,202 | 33,930 | 1,257 | ..... | 18,977 | 62,168 | ..... |  |
| Rhode Island..... | 1,840,361 | ..... | 5,471 | 486,325 | 2,951,553 | 175,211 | 7,593,790 | 4,440,026 | 3,087 | 705 | ..... | ..... | 800 | 1,582 | 464 | ..... |  |
| Tennessee..... | 44,275 | ..... | 215 | 8,770 | 86,555 | 3,715 | 184,829 | 114,559 | 123 | 75 | ..... | ..... | ..... | 48 | ..... | ..... |  |
| Texas..... | 45,765 | ..... | 2,520 | 1,271 | 90,457 | 1,709 | 174,877 | 82,711 | 98 | ..... | ..... | ..... | ..... | 98 | ..... | ..... |  |
| Washington..... | 201,839 | ..... | 8,808 | 27,982 | 640,004 | 5,638 | 1,066,512 | 420,810 | 632 | ..... | ..... | ..... | ..... | 632 | ..... | ..... |  |
| Wisconsin..... | 6,028,437 | 1,806 | 68,875 | 990,926 | 9,001,101 | 366,961 | 23,636,473 | 14,268,411 | 7,470 | 2,110 | ..... | ..... | ..... | 5,360 | 3,767 | ..... |  |
| All other states..... | 827,946 | 15,805 | 10,789 | 32,629 | 1,006,360 | 124,489 | 2,816,433 | 1,685,584 | 2,970 | 211 | ..... | 2,014 | 185 | 560 | 1,949 | ..... |  |

¹ Same number reported for one or more other months.² All other states embrace: Alabama, 1 establishment; Arkansas, 1; District of Columbia, 1; Florida, 1; Georgia, 2; Idaho, 1; Kansas, 2; Maine, 1; Montana, 1; North Dakota, 1; South Carolina, 2; South Dakota, 1; Utah, 2; Vermont, 1; Virginia, 5; West Virginia, 6.³ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).⁴ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

MANUFACTURED ICE.

GENERAL STATISTICS.

General character of the industry.—The statistics for this industry represent the manufacture of ice for sale. Data for cold storage and refrigeration were not obtained at this census, except in some instances, where the manufacture of ice and the cold storage or refrigeration were carried on in the same establishment and it was impossible to segregate the data, the figures given cover the entire operations of such establishments.

Ice was also made in establishments engaged primarily in the manufacture of other products, to the value of \$12,510,832 in 1919 and \$6,934,086 in 1914. The value of such manufactures, however, is not included in the total value of products shown for the manufactured ice industry.

Comparative summary.—Table 1 summarizes the statistics for each census since 1899, with percentages of increase for each five-year period. With few exceptions increases are noticeable at each succeeding census. The large increases, however, from 1914 to 1919, in salaries and wages, cost of materials, and value of products are due largely to a general rise of prices and wages following the World War, and do not, therefore, fairly measure the growth of the industry for that period. A truer index of conditions is found in the average number of wage earners and primary horsepower. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes."

Principal states, ranked by value of products.—New York, as shown by Table 2, reported the greatest value of products in 1919 but in average number of wage earners was outranked by Pennsylvania and Texas. The latter state, in 1919 as in 1914 and 1909, led in the number of establishments.

Persons engaged in the industry.—The classification, by sex, for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. The age classification of the average number of wage earners in Table 3 is an estimate obtained by the method described in the "Explanation of terms." Figures by states will be found in Table 17.

Wage earners, by months, for states.—As shown by Table 4, the number of wage earners employed in the industry ranged from a maximum of 41,078 in July to a minimum of 20,796 in January, the minimum number being equivalent to 50.6 per cent of the maximum. Figures are given separately for all states reporting an average of over 500 wage earners, while for the United States the number of males and females is also shown.

Average number of wage earners, by prevailing hours of labor per week, for states.—Table 5 shows

a marked shortening of the working day for the industry since 1914. In that year only 5.5 per cent of the average number of wage earners were reported as employed fewer than 55 hours per week as against 23.4 per cent in 1919. Due to the nature of the industry a large proportion is reported in the "Over 60" group. In many large establishments two shifts working 12 hours each are employed 6 days in the week.

Size of establishments, by average number of wage earners, for states.—Analysis of Table 6 discloses the significant fact that in 1919, 1,589 establishments, or 55.4 per cent of the total number for the industry, employed fewer than 6 wage earners each, while only 4,236, or 14 per cent of the total number of wage earners, were employed therein, evidencing the predominance of the small establishments based on the average number of wage earners.

Size of establishments, by value of products.—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000," and "\$500,000 to \$1,000,000." Table 7, therefore, gives combined figures for these two groups for 1909 and 1914.

Character of ownership, by states.—Table 8 emphasizes the predominance of the corporate form of ownership. Corporations owned 66.7 per cent of the total number of establishments in 1919, employed 86.6 per cent of the total average number of wage earners, and reported 87.4 per cent of the value of products. During the five-year period 1914 to 1919 the average number of wage earners in corporations increased 6,664, or 34.1 per cent, and the value of products \$67,741,474, or 130.3 per cent.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 9, there was an increase in the total horsepower for the industry of 110,982 horsepower, or 24 per cent, due principally to an increase of 103,447 horsepower, or 356.8 per cent, in rented electric power, while owned power increased only 7,540 horsepower, or 1.8 per cent, during the five-year period.

Fuel consumed, by states.—Table 10 shows the principal kinds of fuel used for the industry in the United States in 1919 and 1914, and also gives separately the amounts consumed in states requiring considerable quantities of fuel for manufacturing purposes. Anthracite coal is naturally consumed in the Eastern states, and three states, New York, New Jersey, and Pennsylvania combined, reported 85.1 per cent of this kind of coal used by the industry in 1919.

MANUFACTURES.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

| | 1919 | 1914 | 1909 | 1904 | 1899 | PER CENT OF INCREASE. ¹ | | | |
|---|---------------|---------------|---------------|--------------|------------------|------------------------------------|-----------|-----------|-----------|
| | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 |
| Number of establishments..... | 2,867 | 2,543 | 2,004 | 1,320 | 775 | 12.7 | 26.9 | 51.8 | 70.3 |
| Persons engaged..... | 38,605 | 29,786 | 21,107 | 13,179 | 8,858 | 29.6 | 41.1 | 60.2 | 48.8 |
| Proprietors and firm members..... | 1,596 | 1,355 | 1,066 | 740 | 447 | 15.6 | 37.1 | 42.9 | 69.9 |
| Salaried employees..... | 6,792 | 5,420 | 3,927 | 2,332 | 1,531 | 25.3 | 38.0 | 68.4 | 52.3 |
| Wage earners (average number)..... | 30,247 | 23,011 | 16,114 | 10,101 | 6,880 | 31.4 | 42.8 | 59.5 | 40.8 |
| Primary horsepower..... | 572,970 | 461,988 | 317,789 | 191,660 | 100,421 | 24.0 | 45.4 | 65.8 | 60.0 |
| Capital..... | \$270,725,786 | \$174,308,511 | \$118,641,538 | \$66,592,001 | \$38,019,507 | 55.3 | 40.9 | 78.2 | 75.2 |
| Salaries and wages..... | \$44,953,968 | \$20,546,202 | \$13,043,881 | \$7,550,273 | \$4,629,076 | 118.8 | 50.6 | 80.7 | 63.1 |
| Salaries..... | \$10,952,131 | \$5,705,611 | \$3,867,911 | \$2,001,111 | \$1,226,331 | 92.0 | 47.5 | 93.3 | 63.2 |
| Wages..... | \$34,001,837 | \$14,840,591 | \$9,775,970 | \$5,549,162 | \$3,402,745 | 129.1 | 51.8 | 76.2 | 63.1 |
| Paid for contract work..... | \$234,167 | \$130,090 | \$82,286 | \$22,442 | \$23,044 | 72.1 | 65.4 | 266.7 | -2.6 |
| Rent and taxes..... | \$5,717,986 | \$2,177,983 | \$1,254,660 | \$712,332 | \$361,238 | 162.5 | 73.6 | 76.1 | 97.2 |
| Cost of materials..... | \$12,877,509 | \$17,765,004 | \$11,817,498 | \$6,011,325 | \$3,312,393 | 141.5 | 56.9 | 88.3 | 81.5 |
| Value of products..... | \$137,004,793 | \$90,389,287 | \$42,953,655 | \$23,790,045 | \$13,780,078 | 120.8 | 40.6 | 80.6 | 72.6 |
| Value added by manufacture ² | \$94,127,289 | \$42,631,263 | \$31,635,557 | \$17,778,720 | \$10,468,585 | 120.8 | 34.8 | 77.9 | 60.8 |
| Ice manufactured, tons of 2,000 pounds ³ | 27,948,463 | 21,043,063 | 14,230,208 | 8,014,137 | ..... | 32.8 | 47.0 | 77.6 | ..... |
| In the ice-manufacturing industry..... | 25,292,846 | 18,324,691 | 12,847,949 | 7,190,448 | 4,294,439 | 38.0 | 44.9 | 75.7 | 67.0 |
| As a subsidiary product by other industries..... | 2,655,617 | 2,718,372 | 1,382,259 | 814,689 | (⁴) | -2.3 | 71.8 | 94.2 | ..... |

¹ A minus sign (-) denotes decrease.² Exclusive of internal revenue.³ Value of products less cost of materials.⁴ The figures for number of establishments, persons engaged, value of products, etc., given in this table, relate only to the ice-manufacturing industry proper.⁵ Figures not available.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Number of establishments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | | STATE. | Number of establishments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|---------------------|--------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|-----------------------|--------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States..... | 2,867 | 30,247 | 100.0 | ..... | \$137,005 | 100.0 | ..... | \$94,127 | 100.0 | ..... | Arkansas..... | 71 | 525 | 1.7 | 23 | \$2,132 | 1.6 | 21 | \$1,378 | 1.6 | 21 |
| New York..... | 132 | 2,133 | 7.1 | 3 | 13,309 | 9.7 | 1 | 9,431 | 10.0 | 1 | Alabama..... | 59 | 553 | 1.8 | 22 | 2,086 | 1.5 | 22 | 1,306 | 1.4 | 23 |
| Pennsylvania..... | 226 | 2,733 | 9.0 | 1 | 12,650 | 9.3 | 2 | 8,545 | 9.1 | 2 | South Carolina..... | 54 | 584 | 1.9 | 21 | 2,012 | 1.5 | 23 | 1,300 | 1.4 | 24 |
| Ohio..... | 141 | 1,952 | 6.5 | 4 | 10,208 | 7.4 | 3 | 7,810 | 7.8 | 4 | Iowa..... | 46 | 504 | 1.7 | 24 | 1,811 | 1.3 | 24 | 1,309 | 1.4 | 22 |
| Illinois..... | 154 | 1,681 | 5.6 | 5 | 10,093 | 7.4 | 4 | 7,579 | 8.1 | 3 | Mississippi..... | 50 | 447 | 1.5 | 25 | 1,515 | 1.1 | 25 | 946 | 1.0 | 26 |
| Texas..... | 265 | 2,362 | 7.8 | 2 | 9,811 | 7.2 | 5 | 6,068 | 7.1 | 5 | West Virginia..... | 54 | 372 | 1.2 | 26 | 1,515 | 1.1 | 25 | 1,032 | 1.1 | 25 |
| California..... | 117 | 1,535 | 5.1 | 6 | 7,112 | 5.2 | 6 | 4,911 | 5.2 | 6 | Arizona..... | 31 | 272 | 0.9 | 27 | 1,410 | 1.0 | 27 | 798 | 0.8 | 28 |
| Missouri..... | 129 | 1,174 | 3.9 | 8 | 6,505 | 4.7 | 7 | 4,397 | 4.7 | 7 | Dist. Columbia..... | 10 | 238 | 0.8 | 30 | 1,081 | 0.8 | 28 | 663 | 0.7 | 29 |
| New Jersey..... | 75 | 838 | 2.8 | 13 | 4,551 | 3.3 | 8 | 3,208 | 3.4 | 8 | Colorado..... | 27 | 242 | 0.8 | 29 | 1,046 | 0.8 | 29 | 802 | 0.9 | 27 |
| Georgia..... | 70 | 1,115 | 3.7 | 9 | 4,440 | 3.2 | 9 | 2,861 | 3.0 | 9 | Nebraska..... | 42 | 257 | 0.8 | 28 | 947 | 0.7 | 30 | 617 | 0.7 | 31 |
| Indiana..... | 107 | 855 | 2.8 | 12 | 4,089 | 3.0 | 10 | 2,676 | 2.8 | 11 | Washington..... | 43 | 181 | 0.6 | 31 | 820 | 0.6 | 31 | 640 | 0.7 | 30 |
| Florida..... | 95 | 1,412 | 4.7 | 7 | 4,052 | 3.0 | 11 | 2,528 | 2.7 | 15 | Massachusetts..... | 12 | 153 | 0.5 | 32 | 745 | 0.5 | 32 | 562 | 0.6 | 32 |
| Louisiana..... | 70 | 785 | 2.6 | 16 | 3,990 | 2.9 | 12 | 2,668 | 2.8 | 12 | Delaware..... | 17 | 131 | 0.4 | 33 | 660 | 0.5 | 33 | 380 | 0.4 | 34 |
| Virginia..... | 103 | 969 | 3.2 | 11 | 3,965 | 2.9 | 13 | 2,767 | 2.9 | 10 | Oregon..... | 30 | 108 | 0.4 | 35 | 556 | 0.4 | 34 | 451 | 0.5 | 33 |
| Tennessee..... | 73 | 1,063 | 3.5 | 10 | 3,774 | 2.8 | 14 | 2,621 | 2.8 | 13 | Connecticut..... | 9 | 67 | 0.2 | 38 | 406 | 0.4 | 35 | 306 | 0.3 | 36 |
| Oklahoma..... | 115 | 831 | 2.7 | 14 | 3,574 | 2.6 | 15 | 2,530 | 2.7 | 14 | New Mexico..... | 13 | 115 | 0.4 | 34 | 469 | 0.3 | 36 | 277 | 0.3 | 37 |
| Kansas..... | 137 | 822 | 2.7 | 15 | 3,500 | 2.6 | 16 | 2,800 | 2.5 | 16 | Utah..... | 17 | 105 | 0.3 | 36 | 396 | 0.3 | 37 | 307 | 0.3 | 35 |
| Michigan..... | 18 | 742 | 2.5 | 19 | 2,822 | 2.1 | 17 | 2,104 | 2.2 | 17 | Minnesota..... | 5 | 93 | 0.3 | 37 | 333 | 0.2 | 38 | 243 | 0.3 | 38 |
| Maryland..... | 61 | 632 | 2.1 | 20 | 2,717 | 2.0 | 18 | 1,741 | 1.8 | 19 | Idaho..... | 15 | 56 | 0.2 | 39 | 272 | 0.2 | 39 | 226 | 0.2 | 39 |
| Kentucky..... | 99 | 764 | 2.5 | 18 | 2,680 | 2.0 | 19 | 1,775 | 1.9 | 18 | Rhode Island..... | 4 | 20 | 0.1 | 41 | 101 | 0.1 | 40 | 68 | 0.1 | 40 |
| North Carolina..... | 63 | 767 | 2.5 | 17 | 2,365 | 1.7 | 20 | 1,604 | 1.7 | 20 | Montana..... | 5 | 14 | (¹) | 43 | 57 | (¹) | 42 | 40 | (¹) | 42 |
| | | | | | | | | | | | South Dakota..... | 3 | 8 | (¹) | 45 | 31 | (¹) | 45 | 20 | (¹) | 44 |
| | | | | | | | | | | | All other states..... | 7 | 52 | 0.2 | ..... | 223 | 0.2 | ..... | 142 | 0.2 | ..... |

¹ Less than one-tenth of 1 per cent.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| CLASS. | Census year. | Total. | Male. | Female. | PER CENT OF TOTAL. | | CLASS. | Census year. | Total. | Male. | Female. | PER CENT OF TOTAL. | |
|--|--------------|--------|--------|---------|--------------------|---------|--|--------------|--------|--------|---------|--------------------|---------|
| | | | | | Male. | Female. | | | | | | Male. | Female. |
| All classes..... | 1919 | 38,605 | 37,139 | 1,466 | 96.2 | 3.8 | Clerks and other subordinate salaried employees..... | 1919 | 2,919 | 1,874 | 1,045 | 64.2 | 35.8 |
| | 1914 | 29,786 | 29,004 | 682 | 97.7 | 2.3 | | 1914 | 2,368 | 1,872 | 526 | 78.1 | 21.9 |
| | 1909 | 21,107 | 20,726 | 381 | 98.2 | 1.8 | | 1909 | 1,588 | 1,302 | 286 | 82.0 | 18.0 |
| Proprietors and officials..... | 1919 | 5,439 | 5,260 | 179 | 96.7 | 3.3 | Wage earners (average number)..... | 1919 | 30,247 | 30,005 | 242 | 99.2 | 0.8 |
| | 1914 | 4,377 | 4,278 | 99 | 97.7 | 2.3 | | 1914 | 23,011 | 22,944 | 67 | 99.7 | 0.3 |
| | 1909 | 3,405 | 3,333 | 72 | 97.9 | 2.1 | | 1909 | 16,114 | 16,091 | 23 | 99.9 | 0.1 |
| Proprietors and firm members..... | 1919 | 1,566 | 1,460 | 106 | 93.2 | 6.8 | 16 years of age and over..... | 1919 | 30,063 | 29,822 | 241 | 99.2 | 0.8 |
| | 1914 | 1,355 | 1,277 | 78 | 94.2 | 5.8 | | 1914 | 22,792 | 22,725 | 67 | 99.7 | 0.3 |
| | 1909 | 1,066 | 1,007 | 59 | 94.5 | 5.5 | | 1909 | 15,995 | 15,972 | 23 | 99.9 | 0.1 |
| Salaried officers of corporations..... | 1919 | 1,736 | 1,683 | 53 | 96.9 | 3.1 | Under 16 years of age..... | 1919 | 184 | 183 | 1 | 99.5 | 0.5 |
| | 1914 | 1,254 | 1,234 | 20 | 98.4 | 1.6 | | 1914 | 219 | 219 | ..... | 100.0 | ..... |
| | 1909 | 971 | 959 | 12 | 98.8 | 1.2 | | 1909 | 119 | 119 | ..... | 100.0 | ..... |
| Superintendents and managers..... | 1919 | 2,137 | 2,117 | 20 | 99.1 | 0.9 | | | | | | | |
| | 1914 | 1,763 | 1,767 | 1 | 99.9 | 0.1 | | | | | | | |
| | 1909 | 1,368 | 1,367 | 1 | 99.9 | 0.1 | | | | | | | |

MANUFACTURED ICE.

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TABLE 4.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maximum. |
|---------------------|--------------------------------------|---|------------|--------|--------|--------|--------|--------|---------|------------|----------|-----------|-----------|---------------------------------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 30,247 | <i>20,796</i> | 21,408 | 23,275 | 27,310 | 31,644 | 37,788 | 41,078 | 40,077 | 37,999 | 31,834 | 25,631 | 23,224 | 50.6 |
| Males..... | 30,005 | <i>20,604</i> | 21,213 | 23,056 | 27,102 | 31,370 | 37,524 | 40,773 | 40,073 | 37,716 | 31,615 | 25,413 | 23,001 | 50.5 |
| Females..... | 242 | <i>192</i> | 195 | 219 | 208 | 274 | 264 | 305 | 304 | 283 | 219 | 218 | 223 | 63.0 |
| 1914..... | 23,011 | <i>15,144</i> | 16,600 | 17,128 | 21,023 | 25,686 | 30,825 | 32,628 | 32,104 | 28,806 | 23,065 | 18,085 | 15,090 | 46.6 |
| 1909..... | 16,114 | <i>8,847</i> | 10,008 | 11,803 | 14,917 | 18,061 | 20,875 | 22,872 | 22,644 | 21,403 | 16,526 | 13,020 | 11,302 | 43.1 |
| Alabama..... | 553 | <i>361</i> | <i>367</i> | 393 | 500 | 588 | 680 | 726 | 759 | 726 | 614 | 518 | 414 | 47.0 |
| Arkansas..... | 525 | <i>297</i> | 306 | 363 | 469 | 578 | 673 | 835 | 775 | 717 | 545 | 410 | 332 | 36.6 |
| California..... | 1,535 | <i>1,177</i> | 1,190 | 1,269 | 1,420 | 1,560 | 1,695 | 1,938 | 1,927 | 1,829 | 1,747 | 1,396 | 1,272 | 60.7 |
| Florida..... | 1,412 | <i>1,312</i> | 1,345 | 1,401 | 1,373 | 1,407 | 1,415 | 1,457 | 1,400 | 1,549 | 1,472 | 1,366 | 1,447 | 84.7 |
| Georgia..... | 1,115 | <i>965</i> | 971 | 985 | 1,020 | 1,130 | 1,174 | 1,320 | 1,204 | 1,283 | 1,190 | 1,056 | 992 | 73.1 |
| Illinois..... | 1,681 | <i>1,084</i> | 1,131 | 1,321 | 1,568 | 1,676 | 1,980 | 2,252 | 2,303 | 2,164 | 1,919 | 1,477 | 1,288 | 47.1 |
| Indiana..... | 855 | <i>488</i> | 515 | 594 | 732 | 831 | 1,142 | 1,321 | 1,311 | 1,172 | 877 | 672 | 605 | 36.9 |
| Iowa..... | 504 | <i>535</i> | 521 | 470 | 322 | 405 | 556 | 717 | 712 | 636 | 503 | 349 | 315 | 43.7 |
| Kansas..... | 822 | <i>468</i> | 487 | 561 | 685 | 875 | 1,097 | 1,266 | 1,309 | 1,151 | 841 | 617 | 517 | 35.0 |
| Kentucky..... | 754 | <i>451</i> | <i>420</i> | 496 | 660 | 844 | 1,059 | 1,140 | 1,120 | 990 | 788 | 572 | 499 | 36.8 |
| Louisiana..... | 785 | <i>600</i> | <i>609</i> | 631 | 759 | 843 | 968 | 1,003 | 988 | 951 | 775 | 673 | 630 | 59.7 |
| Maryland..... | 632 | <i>426</i> | 434 | 475 | 577 | 704 | 800 | 851 | 859 | 793 | 686 | 520 | 453 | 49.6 |
| Michigan..... | 742 | <i>400</i> | 678 | 510 | 616 | 762 | 930 | 1,084 | 1,027 | 854 | 628 | 560 | 780 | 42.4 |
| Missouri..... | 1,174 | <i>708</i> | 817 | 932 | 1,141 | 1,267 | 1,467 | 1,630 | 1,642 | 1,522 | 1,243 | 899 | 766 | 45.4 |
| New Jersey..... | 838 | <i>648</i> | <i>678</i> | 619 | 712 | 875 | 1,060 | 1,004 | 1,123 | 1,042 | 856 | 786 | 700 | 50.9 |
| New York..... | 2,133 | <i>1,531</i> | 1,632 | 1,777 | 1,954 | 2,212 | 2,581 | 2,628 | 2,664 | 2,490 | 2,350 | 1,995 | 1,842 | 57.5 |
| North Carolina..... | 757 | <i>608</i> | 616 | 543 | 721 | 886 | 998 | 1,031 | 1,006 | 966 | 749 | 616 | 540 | 48.8 |
| Ohio..... | 1,952 | <i>1,148</i> | 1,148 | 1,311 | 1,648 | 1,952 | 2,847 | 2,959 | 2,894 | 2,540 | 2,069 | 1,559 | 1,349 | 38.8 |
| Oklahoma..... | 831 | <i>469</i> | 487 | 569 | 712 | 895 | 1,081 | 1,294 | 1,338 | 1,172 | 827 | 590 | 548 | 35.1 |
| Pennsylvania..... | 2,733 | <i>1,903</i> | 1,957 | 2,133 | 2,527 | 2,806 | 3,673 | 3,603 | 3,506 | 3,398 | 2,893 | 2,397 | 2,000 | 51.8 |
| South Carolina..... | 584 | <i>336</i> | 388 | 421 | 514 | 649 | 737 | 773 | 791 | 732 | 613 | 527 | 477 | 48.8 |
| Tennessee..... | 1,003 | <i>691</i> | 712 | 787 | 979 | 1,192 | 1,412 | 1,508 | 1,551 | 1,284 | 1,060 | 831 | 749 | 44.6 |
| Texas..... | 2,362 | <i>1,627</i> | 1,556 | 1,768 | 2,155 | 2,553 | 2,935 | 3,256 | 3,305 | 3,034 | 2,467 | 2,001 | 1,707 | 46.2 |
| Virginia..... | 969 | <i>659</i> | <i>641</i> | 724 | 864 | 1,032 | 1,212 | 1,459 | 1,231 | 1,199 | 1,053 | 822 | 732 | 43.9 |

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|--------------------|--------------|--------|--|--------------------|------------------|--------------------|-------|--------------------|-------|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| United States..... | 1919 | 30,247 | 215 | 7 | 4,781 | 362 | 1,720 | 5,980 | 4,177 | 13,105 |
| | 1914 | 23,011 | (²) | (²) | 548 | 57 | 664 | 2,182 | 3,741 | 15,819 |
| | 1909 | 16,114 | (²) | (²) | 305 | 30 | 283 | 965 | 2,007 | 12,524 |
| Alabama..... | 1919 | 553 | | | 15 | | 24 | 25 | 85 | 404 |
| Arkansas..... | 1919 | 525 | 5 | | 11 | | 25 | 40 | 82 | 362 |
| California..... | 1919 | 1,535 | 9 | | 516 | 14 | 177 | 627 | 49 | 143 |
| | 1914 | 1,139 | (²) | (²) | 25 | 2 | 4 | 464 | 314 | 330 |
| Florida..... | 1919 | 1,412 | 2 | | 98 | 10 | 16 | 205 | 39 | 1,012 |
| | 1914 | 760 | (²) | (²) | 17 | 2 | 59 | 120 | 44 | 538 |
| Georgia..... | 1919 | 1,115 | | | 11 | | 13 | 65 | 40 | 968 |
| | 1914 | 890 | | | | | 26 | 5 | 42 | 817 |
| Illinois..... | 1919 | 1,681 | 10 | | 161 | 86 | 28 | 700 | 327 | 269 |
| | 1914 | 1,312 | (²) | (²) | 22 | | 74 | 446 | 153 | 617 |
| Indiana..... | 1919 | 855 | 7 | | 13 | | 5 | 40 | 167 | 623 |
| | 1914 | 926 | | | | | 15 | 3 | 276 | 632 |
| Iowa..... | 1919 | 504 | | | 14 | 4 | 126 | 203 | 111 | 46 |
| Kansas..... | 1919 | 822 | 6 | 3 | 176 | | 80 | 110 | 161 | 280 |
| | 1914 | 634 | (²) | (²) | 9 | | 21 | | 106 | 498 |
| Kentucky..... | 1919 | 754 | 1 | | 48 | 1 | 17 | 91 | 102 | 494 |
| | 1914 | 766 | (²) | (²) | 13 | 3 | 5 | 16 | 52 | 677 |
| Louisiana..... | 1919 | 785 | | | 55 | | 23 | 66 | 134 | 507 |
| | 1914 | 782 | (²) | (²) | 19 | 4 | | 6 | 107 | 616 |
| Maryland..... | 1919 | 632 | | | | | 6 | 322 | 30 | 274 |
| | 1914 | 532 | (²) | (²) | 1 | | 31 | 30 | 18 | 462 |

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.³ Not shown separately in 1914.

MANUFACTURES.

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914—Continued.

| STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|-----------------------------------|--------------|--------|--|--------------------|------------------|--------------------|-----|--------------------|-----|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| Michigan ² | 1919 | 742 | | | 605 | | | 65 | 25 | 47 |
| Missouri..... | 1919 | 1,174 | 66 | | 78 | 11 | 29 | 348 | 87 | 555 |
| | 1914 | 1,059 | (²) | (²) | 18 | | 10 | 83 | 148 | 800 |
| New Jersey..... | 1919 | 838 | 23 | | 289 | 12 | 61 | 230 | 19 | 204 |
| | 1914 | 621 | (²) | (²) | 16 | | 36 | 104 | 87 | 378 |
| New York..... | 1919 | 2,138 | 23 | | 1,187 | 140 | 179 | 94 | 367 | 148 |
| | 1914 | 1,407 | (²) | (²) | 112 | 15 | 126 | 253 | 272 | 629 |
| North Carolina..... | 1919 | 757 | 1 | | 91 | 3 | 6 | 6 | 273 | 377 |
| | 1914 | 519 | | | | | | 15 | 140 | 364 |
| Ohio..... | 1919 | 1,952 | 22 | | 73 | 39 | 231 | 380 | 296 | 902 |
| | 1914 | 1,277 | (²) | (²) | 95 | 7 | 24 | 139 | 311 | 701 |
| Oklahoma..... | 1919 | 831 | | | 27 | 18 | 126 | 149 | 53 | 458 |
| | 1914 | 628 | (²) | (²) | 7 | | 10 | 16 | 41 | 454 |
| Pennsylvania..... | 1919 | 2,733 | 5 | | 216 | 9 | 118 | 702 | 601 | 1,082 |
| | 1914 | 2,124 | (²) | (²) | 49 | 5 | 32 | 150 | 376 | 1,612 |
| South Carolina ² | 1919 | 584 | | | 10 | | 10 | 6 | 102 | 456 |
| Tennessee..... | 1919 | 1,063 | 1 | | 34 | | 7 | 11 | 125 | 885 |
| | 1914 | 927 | (²) | (²) | 3 | | 5 | 4 | 50 | 865 |
| Texas..... | 1919 | 2,362 | 17 | | 359 | 10 | 243 | 343 | 201 | 1,189 |
| | 1914 | 1,926 | (²) | (²) | 12 | | 39 | 75 | 167 | 1,633 |
| Virginia..... | 1919 | 969 | 2 | | 22 | 2 | 48 | 244 | 227 | 420 |
| | 1914 | 714 | (²) | (²) | 2 | | | 16 | 150 | 546 |

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.³ Not shown separately in 1914.

TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | |
|---------------------|-----------------|-----------------------------------|---------------------------|-------------------|---------------------------------|-------------------|----------------------------------|-------------------|-----------------------------------|-------------------|------------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|-------------------|---------------------------------------|-----|
| | Establishments. | Wage earners (average number). | No wage earners. | | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | 251 to 500 wage earners, inclusive. | | 501 to 1,000 wage earners, inclusive. | |
| | | | Estab-lish-ments. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | |
| United States..... | 1919.. | 2,867 | 30,247 | 51 | 1,538 | 4,236 | 931 | 10,360 | 280 | 8,730 | 48 | 3,186 | 17 | 2,682 | 1 | 468 | 1 | 576 |
| | 1914.. | 2,543 | 23,011 | 23 | 1,453 | 4,168 | 824 | 8,935 | 201 | 6,024 | 33 | 2,211 | 9 | 1,073 | | | | |
| Alabama..... | 59 | 553 | 2 | 25 | 63 | 27 | 291 | 4 | 127 | 1 | 72 | | | | | | | |
| Arkansas..... | 71 | 525 | | 38 | 115 | 29 | 312 | 4 | 98 | | | | | | | | | |
| California..... | 117 | 1,535 | 5 | 57 | 129 | 35 | 351 | 14 | 511 | 5 | 345 | 1 | 199 | | | | | |
| Florida..... | 95 | 1,412 | 1 | 39 | 118 | 36 | 374 | 13 | 397 | 4 | 267 | 2 | 256 | | | | | |
| Georgia..... | 70 | 1,115 | | 81 | 104 | 28 | 350 | 7 | 213 | 3 | 201 | 1 | 247 | | | | | |
| Illinois..... | 154 | 1,681 | | 70 | 222 | 60 | 629 | 22 | 720 | 2 | 110 | | | | | | | |
| Indiana..... | 107 | 855 | 1 | 61 | 187 | 36 | 365 | 8 | 243 | 1 | 60 | | | | | | | |
| Iowa..... | 46 | 504 | 1 | 28 | 85 | 11 | 126 | 5 | 162 | | | 1 | 131 | | | | | |
| Kansas..... | 137 | 822 | 5 | 94 | 216 | 31 | 349 | 6 | 182 | 1 | 75 | | | | | | | |
| Kentucky..... | 99 | 754 | 2 | 62 | 181 | 32 | 343 | 2 | 49 | | | 1 | 181 | | | | | |
| Louisiana..... | 70 | 785 | 1 | 19 | 73 | 43 | 462 | 7 | 250 | | | | | | | | | |
| Maryland..... | 61 | 632 | 1 | 37 | 95 | 13 | 170 | 9 | 245 | | | 1 | 122 | | | | | |
| Michigan..... | 18 | 742 | | 9 | 27 | 6 | 74 | 2 | 65 | | | | | | | | | |
| Missouri..... | 129 | 1,174 | 2 | 85 | 200 | 31 | 343 | 8 | 234 | 1 | 98 | 2 | 260 | | | 1 | 576 | |
| New Jersey..... | 75 | 838 | | 32 | 90 | 31 | 338 | 11 | 255 | | | 1 | 155 | | | | | |
| New York..... | 132 | 2,138 | 1 | 42 | 139 | 55 | 684 | 30 | 979 | 3 | 186 | | | | | | | |
| North Carolina..... | 63 | 757 | 1 | 28 | 84 | 20 | 226 | 13 | 394 | 1 | 53 | 1 | 150 | | | | | |
| Ohio..... | 141 | 1,952 | 5 | 69 | 219 | 61 | 548 | 11 | 373 | 3 | 228 | 1 | 116 | 1 | 468 | | | |
| Oklahoma..... | 115 | 831 | | 68 | 180 | 39 | 388 | 6 | 152 | 2 | 111 | | | | | | | |
| Pennsylvania..... | 226 | 2,733 | 6 | 113 | 297 | 73 | 817 | 27 | 877 | 5 | 309 | 2 | 433 | | | | | |
| South Carolina..... | 54 | 584 | | 29 | 102 | 18 | 222 | 6 | 205 | 1 | 55 | | | | | | | |
| Tennessee..... | 73 | 1,063 | 1 | 39 | 114 | 20 | 230 | 9 | 301 | 2 | 135 | 2 | 283 | | | | | |
| Texas..... | 265 | 2,362 | 3 | 158 | 472 | 78 | 916 | 22 | 738 | 4 | 236 | | | | | | | |
| Virginia..... | 106 | 969 | | 59 | 145 | 34 | 365 | 11 | 288 | 1 | 68 | 1 | 110 | | | | | |

MANUFACTURED ICE.

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TABLE 7.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|------------------|-------|---------------------------------|--------|--------|--------------------|--------------|--------------|-----------------------------|--------------|--------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| All classes..... | 2,867 | 2,543 | 2,004 | 30,247 | 23,011 | 16,114 | \$137,004,798 | \$60,386,267 | \$42,953,055 | \$94,127,289 | \$42,631,263 | \$31,635,557 |
| Less than \$5,000..... | 367 | 488 | 403 | 352 | 742 | 672 | 1,019,837 | 1,412,978 | 1,201,209 | 657,276 | 939,830 | 829,666 |
| \$5,000 to \$20,000..... | 1,013 | 1,208 | 973 | 3,211 | 5,509 | 4,553 | 11,654,111 | 13,100,305 | 10,748,790 | 7,350,855 | 9,122,668 | 7,881,271 |
| \$20,000 to \$100,000..... | 1,167 | 768 | 587 | 12,738 | 11,730 | 8,634 | 54,631,803 | 32,338,308 | 23,741,981 | 36,850,216 | 22,658,730 | 17,469,508 |
| \$100,000 to \$500,000..... | 306 | 78 | 41 | 11,303 | 4,940 | 2,250 | 50,258,222 | 13,534,676 | 7,257,970 | 39,882,152 | 9,910,135 | 5,455,112 |
| \$500,000 to \$1,000,000..... | 10 | 1 | | 1,313 | | | 6,508,306 | | | 4,395,123 | | |
| \$1,000,000 and over..... | 4 | | | 1,330 | | | 6,932,519 | | | 4,991,667 | | |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 12.8 | 19.2 | 20.1 | 1.2 | 3.2 | 4.2 | 0.7 | 2.3 | 2.8 | 0.7 | 2.2 | 2.6 |
| \$5,000 to \$20,000..... | 35.3 | 47.5 | 48.6 | 10.6 | 24.3 | 28.3 | 8.5 | 21.7 | 25.0 | 7.8 | 21.4 | 24.9 |
| \$20,000 to \$100,000..... | 40.7 | 30.2 | 29.3 | 42.1 | 51.0 | 53.6 | 39.9 | 53.6 | 55.3 | 39.1 | 53.1 | 55.2 |
| \$100,000 to \$500,000..... | 10.7 | 3.1 | | 37.4 | 21.5 | 14.0 | 41.1 | 22.4 | 16.9 | 42.4 | 23.2 | 17.2 |
| \$500,000 to \$1,000,000..... | 0.3 | (¹) | | 4.3 | | | 4.7 | | | 4.7 | | |
| \$1,000,000 and over..... | 0.1 | | | 4.4 | | | 5.1 | | | 5.3 | | |

¹ Less than one-tenth of 1 per cent.

TABLE 8.—CHARACTER OF OWNERSHIP, BY SELECTED STATES: 1919 AND 1914.

| STATE. | Cen- sus year. | NUMBER OF ESTABLISH- MENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | VALUE OF PRODUCTS. | | | | | | | | |
|---------------------|----------------------|---|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|---------------------|--------------------|-------------------------|---------------------|---------------|-----------------------------|-------------------------|---------------------|--------------------|-------------------------|---------------------|--|--|--|--|
| | | Indiv- iduals. | Cor- pora- tions. | All oth- ers. | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | Of establishments owned by— | | | Per cent of total. | | | | | | |
| | | | | | | Indiv- iduals. | Cor- pora- tions. | All oth- ers. | Indiv- iduals. | Cor- pora- tions. | All oth- ers. | | Indiv- iduals. | Cor- pora- tions. | All oth- ers. | Indiv- iduals. | Cor- pora- tions. | All oth- ers. | | | | |
| United States..... | 1919 | 545 | 1,911 | 411 | 30,247 | 2,061 | 26,183 | 2,003 | 6.8 | 85.6 | 6.6 | \$137,004,798 | \$8,825,646 | \$119,718,423 | \$8,400,720 | 6.4 | 87.4 | 6.2 | | | | |
| | 1914 | 450 | 1,732 | 355 | 23,011 | 1,883 | 19,519 | 1,609 | 8.2 | 84.8 | 7.0 | 60,386,267 | 4,448,618 | 51,970,949 | 3,950,700 | 7.4 | 88.1 | 6.0 | | | | |
| | 1909 | 330 | 1,387 | 287 | 16,114 | 1,471 | 13,463 | 1,180 | 9.1 | 83.5 | 7.3 | 42,953,055 | 3,495,344 | 36,701,422 | 2,756,289 | 8.1 | 85.4 | 6.4 | | | | |
| Alabama..... | 1919 | 10 | 37 | 12 | 553 | 48 | 377 | 128 | 8.7 | 68.2 | 23.1 | 2,085,975 | 163,101 | 1,562,913 | 350,961 | 7.8 | 74.9 | 17.3 | | | | |
| | 1914 | 10 | 33 | 12 | 478 | 46 | 345 | 87 | 9.6 | 72.2 | 18.2 | 1,201,106 | 85,570 | 931,770 | 183,700 | 7.1 | 77.6 | 15.3 | | | | |
| Arkansas..... | 1919 | 14 | 45 | 12 | 525 | 68 | 368 | 89 | 13.0 | 70.1 | 17.0 | 2,132,331 | 257,098 | 1,592,748 | 281,685 | 12.1 | 74.7 | 13.2 | | | | |
| | 1914 | 9 | 41 | 15 | 424 | 27 | 320 | 77 | 6.4 | 75.5 | 18.2 | 1,114,551 | 60,433 | 855,884 | 182,204 | 6.0 | 77.7 | 10.3 | | | | |
| California..... | 1919 | 20 | 80 | 17 | 1,535 | 37 | 1,461 | 37 | 2.4 | 95.2 | 2.4 | 7,112,470 | 190,880 | 6,724,609 | 196,981 | 2.7 | 94.5 | 2.8 | | | | |
| | 1914 | 16 | 71 | 8 | 1,139 | 29 | 1,098 | 12 | 2.5 | 96.4 | 1.1 | 3,587,334 | 92,942 | 3,447,574 | 40,818 | 2.6 | 96.1 | 1.3 | | | | |
| Florida..... | 1919 | 20 | 63 | 12 | 1,412 | 102 | 1,218 | 92 | 7.2 | 86.3 | 0.5 | 4,051,516 | 271,211 | 3,405,611 | 284,694 | 6.7 | 80.3 | 7.0 | | | | |
| | 1914 | 14 | 66 | 12 | 760 | 58 | 1,050 | 52 | 7.6 | 85.5 | 0.8 | 2,202,769 | 138,304 | 1,919,737 | 144,078 | 6.3 | 87.2 | 6.6 | | | | |
| Georgia..... | 1919 | 8 | 50 | 12 | 1,115 | 51 | 1,003 | 61 | 4.6 | 90.0 | 5.5 | 4,440,229 | 280,086 | 3,963,442 | 195,801 | 6.3 | 89.3 | 4.4 | | | | |
| | 1914 | 20 | 44 | 10 | 890 | 84 | 758 | 49 | 9.4 | 85.2 | 5.4 | 2,064,684 | 196,044 | 1,758,800 | 110,080 | 9.5 | 85.2 | 5.3 | | | | |
| Illinois..... | 1919 | 21 | 127 | 6 | 1,681 | 112 | 1,539 | 33 | 0.7 | 91.4 | 2.0 | 10,093,263 | 376,304 | 9,558,273 | 158,086 | 3.7 | 94.7 | 1.6 | | | | |
| | 1914 | 23 | 100 | 5 | 1,312 | 122 | 1,164 | 26 | 9.3 | 88.7 | 2.0 | 3,888,962 | 271,611 | 3,039,591 | 77,260 | 8.0 | 89.7 | 2.3 | | | | |
| Indiana..... | 1919 | 16 | 73 | 18 | 855 | 54 | 718 | 83 | 6.3 | 84.0 | 0.7 | 4,089,390 | 213,353 | 3,549,464 | 326,573 | 5.2 | 80.8 | 8.0 | | | | |
| | 1914 | 22 | 65 | 19 | 920 | 96 | 723 | 107 | 10.4 | 78.1 | 11.6 | 2,029,250 | 213,747 | 1,594,513 | 220,990 | 10.5 | 78.6 | 10.9 | | | | |
| Iowa..... | 1919 | 4 | 28 | 14 | 504 | 13 | 430 | 61 | 2.6 | 85.3 | 12.1 | 1,841,012 | 46,810 | 1,513,915 | 280,287 | 2.5 | 82.2 | 15.2 | | | | |
| | 1914 | 6 | 24 | 4 | 192 | 13 | 171 | 8 | 6.8 | 89.1 | 4.2 | 578,924 | 36,252 | 511,773 | 30,899 | 6.3 | 88.4 | 5.3 | | | | |
| Kansas..... | 1919 | 39 | 64 | 34 | 822 | 74 | 656 | 92 | 9.0 | 79.8 | 11.2 | 3,509,107 | 309,870 | 2,821,105 | 378,132 | 8.8 | 80.4 | 10.8 | | | | |
| | 1914 | 19 | 66 | 16 | 634 | 52 | 519 | 63 | 8.2 | 81.9 | 9.9 | 1,794,797 | 159,430 | 1,507,100 | 128,287 | 8.0 | 84.0 | 7.1 | | | | |
| Kentucky..... | 1919 | 15 | 74 | 10 | 754 | 64 | 662 | 28 | 8.5 | 87.8 | 3.7 | 2,689,130 | 257,343 | 2,310,472 | 112,315 | 9.6 | 86.3 | 4.2 | | | | |
| | 1914 | 14 | 68 | 11 | 766 | 73 | 638 | 55 | 9.5 | 83.3 | 7.2 | 1,471,866 | 120,979 | 1,261,729 | 83,158 | 8.6 | 85.7 | 6.6 | | | | |
| Louisiana..... | 1919 | 12 | 55 | 3 | 785 | 81 | 665 | 39 | 10.3 | 84.7 | 5.0 | 3,990,334 | 329,086 | 3,518,856 | 141,792 | 8.3 | 88.2 | 3.6 | | | | |
| | 1914 | 13 | 58 | 5 | 732 | 78 | 633 | 71 | 10.0 | 80.0 | 9.1 | 1,962,071 | 170,373 | 1,657,143 | 134,555 | 8.7 | 84.5 | 6.9 | | | | |
| Maryland..... | 1919 | 18 | 35 | 8 | 632 | 46 | 556 | 30 | 7.3 | 85.0 | 4.7 | 2,717,377 | 204,590 | 2,301,665 | 151,116 | 7.5 | 86.0 | 5.6 | | | | |
| | 1914 | 16 | 33 | 13 | 532 | 43 | 439 | 50 | 8.1 | 82.5 | 0.4 | 1,562,983 | 87,771 | 1,356,204 | 118,918 | 5.6 | 86.8 | 7.6 | | | | |
| Michigan..... | 1919 | 1 | 13 | 4 | 742 | ..... | 719 | 123 | ..... | 96.9 | 3.1 | 2,821,688 | ..... | 2,685,800 | 135,888 | ..... | 95.2 | 4.8 | | | | |
| | 1914 | 1 | 10 | ..... | 443 | ..... | 1,443 | ..... | ..... | 100.0 | ..... | 764,956 | ..... | 764,956 | ..... | ..... | 100.0 | ..... |  |  |  |  |
| Missouri..... | 1919 | 28 | 79 | 22 | 1,174 | 72 | 1,054 | 48 | 6.1 | 89.8 | 4.1 | 6,504,840 | 351,252 | 5,968,732 | 184,856 | 5.4 | 91.8 | 2.8 | | | | |
| | 1914 | 17 | 71 | 29 | 1,059 | 73 | 899 | 87 | 6.9 | 84.9 | 8.2 | 3,100,895 | 179,624 | 2,739,470 | 187,801 | 5.8 | 88.2 | 6.0 | | | | |
| New Jersey..... | 1919 | 14 | 54 | 7 | 838 | 75 | 725 | 38 | 8.9 | 86.5 | 4.5 | 4,550,965 | 590,907 | 3,824,761 | 135,307 | 13.0 | 84.0 | 3.0 | | | | |
| | 1914 | 13 | 52 | 6 | 621 | 74 | 516 | 31 | 11.9 | 83.1 | 5.0 | 1,556,361 | 222,051 | 1,277,917 | 50,393 | 14.3 | 82.1 | 3.6 | | | | |
| New York..... | 1919 | 18 | 106 | 8 | 2,138 | 150 | 1,897 | 91 | 7.0 | 88.7 | 4.3 | 13,308,590 | 912,834 | 11,007,178 | 788,578 | 6.9 | 87.2 | 5.9 | | | | |
| | 1914 | 21 | 82 | 8 | 1,407 | 118 | 1,223 | 66 | 8.4 | 86.9 | 4.7 | 4,896,778 | 349,030 | 4,304,030 | 243,718 | 7.1 | 87.9 | 5.0 | | | | |
| North Carolina..... | 1919 | 10 | 48 | 5 | 757 | 36 | 705 | 16 | 4.8 | 93.1 | 2.1 | 2,365,122 | 118,141 | 2,196,375 | 50,000 | 5.0 | 92.9 | 2.1 | | | | |
| | 1914 | 7 | 44 | 10 | 519 | 36 | 462 | 21 | 0.9 | 89.0 | 4.0 | 1,125,864 | 36,500 | 1,034,878 | 54,486 | 3.2 | 91.9 | 4.8 | | | | |
| Ohio..... | 1919 | 34 | 88 | 19 | 1,952 | 148 | 1,730 | 74 | 7.6 | 88.6 | 3.8 | 10,208,061 | 578,198 | 9,334,473 | 295,390 | 5.7 | 91.4 | 2.9 | | | | |
| | 1914 | 21 | 91 | 20 | 1,277 | 117 | 1,117 | 43 | 9.2 | 87.6 | 3.4 | 3,134,302 | 247,086 | 2,729,927 | 156,690 | 7.9 | 87.1 | 5.0 | | | | |
| Oklahoma..... | 1919 | 15 | 79 | 21 | 831 | 30 | 736 | 65 | 3.6 | 88.6 | 7.8 | 3,574,431 | 111,862 | 3,191,432 | 271,087 | 3.1 | 89.3 | 7.6 | | | | |
| | 1914 | 10 | 69 | 18 | 528 | 25 | 435 | 68 | 4.7 | 82.4 | 12.0 | 1,004,146 | 76,958 | 1,336,356 | 190,832 | 4.8 | 83.3 | 11.9 | | | | |
| Pennsylvania..... | 1919 | 47 | 148 | 31 | 2,733 | 200 | 2,399 | 144 | 7.3 | 87.4 | 5.3 | 12,686,299 | 954,193 | 10,901,763 | 830,343 | 7.5 | 85.9 | 6.5 | | | | |
| | 1914 | 40 | 122 | 27 | 2,124 | 136 | 1,847 | 141 | 6.4 | 87.0 | 6.6 | 5,194,493 | 362,679 | 4,443,117 | 388,697 | 7.0 | 85.5 | 7.5 | | | | |
| South Carolina..... | 1919 | 8 | 39 | 7 | 584 | 51 | 492 | 41 | 8.7 | 84.2 | 7.0 | 2,012,380 | 186,541 | 1,704,274 | 121,565 | 9.3 | 84.7 | 6.0 | | | | |
| | 1914 | 6 | 26 | 4 | 388 | 33 | 302 | 33 | 9.0 | 82.1 | 9.0 | 818,223 | 68,540 | 692,766 | 56,917 | 8.4 | 84.7 | 7.0 | | | | |
| Tennessee..... | 1919 | 9 | 49 | 15 | 1,063 | 35 | 914 | 114 | 3.3 | 86.0 | 10.7 | 3,774,291 | 135,832 | 3,300,578 | 337,881 | 3.6 | 87.4 | 9.0 | | | | |
| | 1914 | 3 | 52 | 15 | 927 | 49 | 784 | 94 | 5.3 | 84.6 | 10.1 | 1,762,193 | 75,262 | 1,499,125 | 187,806 | 4.3 | 85.1 | 10.7 | | | | |
| Texas..... | 1919 | 37 | 184 | 44 | 2,362 | 119 | 1,985 | 258 | 5.0 | 84.0 | 10.9 | 9,811,001 | 356,490 | 8,431,509 | 1,023,062 | 3.6 | 85.9 | 10.4 | | | | |
| | 1914 | 36 | 179 | 40 | 1,926 | 115 | 1,676 | 135 | 6.0 | 87.0 | 7.0 | 5,328,302 | 267,097 | 4,629,499 | 431,706 | 5.0 | 86.9 | 8.1 | | | | |
| Virginia..... | 1919 | 30 | 65 | 11 | 969 | 150 | 748 | 71 | 15.5 | 77.2 | 7.3 | 3,964,639 | 527,466 | 3,067,394 | 339,779 | 13.3 | 78.1 | 8.6 | | | | |
| | 1914 | 27 | 49 | 11 | 714 | 166 | 491 | 57 | 23.2 | 68.8 | 8.0 | 1,795,645 | 236,187 | 1,384,256 | 125,202 | 15.9 | 77.1 | 7.0 | | | | |

MANUFACTURES.

TABLE 9.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|-------|-------|-------------|---------|---------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 10,585 | 7,260 | 4,635 | 572,970 | 461,988 | 317,789 | 100.0 | 100.0 | 100.0 |
| Owned..... | 4,927 | 5,317 | 4,297 | 437,487 | 429,947 | 310,211 | 76.4 | 93.1 | 97.6 |
| Steam..... | 4,434 | 5,013 | 4,170 | 406,042 | 414,685 | 304,085 | 71.0 | 89.8 | 95.9 |
| Engines..... | 4,324 | (2) | (2) | 398,312 | (2) | (2) | 68.6 | ..... | ..... |
| Turbines..... | 110 | (2) | (2) | 13,630 | (2) | (2) | 2.4 | ..... | ..... |
| Internal-combustion engines..... | 435 | 244 | 82 | 28,003 | 12,535 | 3,264 | 4.9 | 2.7 | 1.0 |
| Water wheels, turbines, and motors..... | 58 | 60 | 45 | 2,542 | 2,727 | 2,262 | 0.4 | 0.6 | 0.7 |
| Rented..... | 5,658 | 1,943 | 338 | 135,483 | 32,041 | 7,578 | 23.6 | 6.9 | 2.4 |
| Electric..... | 5,658 | 1,943 | 338 | 132,438 | 28,991 | 5,414 | 23.1 | 6.2 | 1.7 |
| Other..... | ..... | ..... | ..... | 3,045 | 3,050 | 2,164 | 0.5 | 0.7 | 0.7 |
| Electric..... | 8,100 | 4,204 | 1,140 | 158,552 | 50,546 | 14,253 | 100.0 | 100.0 | 100.0 |
| Rented..... | 5,658 | 1,943 | 338 | 132,438 | 28,991 | 5,414 | 83.5 | 57.4 | 38.0 |
| Generated by establishments reporting..... | 2,511 | 2,261 | 802 | 26,114 | 21,555 | 8,839 | 16.5 | 42.6 | 62.0 |

† Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

* Not reported separately.

TABLE 10.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

| STATE. | Cen- sus year. | COAL. | | Coke (tons, 2,000 lbs.). | Fuel oils (barrels). | Gasoline and other vola- tile oils (bar- rels). | Gas (1,000 cubic feet). | STATE. | Cen- sus year. | COAL. | | Coke (tons, 2,000 lbs.). | Fuel oils (barrels). | Gasoline and other vola- tile oils (bar- rels). | Gas (1,000 cubic feet). |
|--------------------|----------------------|--|--|-----------------------------------|-------------------------|--|----------------------------------|-----------------------|----------------------|--|--|-----------------------------------|-------------------------|--|----------------------------------|
| | | An- thracyte (tons, 2,240 lbs.). | Bitumi- nous (tons, 2,000 lbs.). | | | | | | | An- thracyte (tons, 2,240 lbs.). | Bitumi- nous (tons, 2,000 lbs.). | | | | |
| United States..... | 1919 | 205,875 | 3,309,630 | 32,327 | 1,622,473 | 11,076 | 6,170,964 | Michigan..... | 1919 | ..... | 13,285 | ..... | ..... | ..... | ..... |
| | 1914 | 213,541 | 3,386,275 | 30,493 | 1,292,008 | (1) | 7,592,003 | | 1914 | 15 | 25,205 | ..... | 25 | (1) | ..... |
| Alabama..... | 1919 | ..... | 81,926 | ..... | 5,300 | 102 | ..... | Missouri..... | 1919 | ..... | 295,493 | ..... | 141,324 | 114 | 2,633 |
| | 1914 | ..... | 84,980 | 2,228 | 77 | (1) | ..... |  | 1914 | ..... | 317,521 | ..... | 6,589 | (1) | 108,447 |
| Arkansas..... | 1919 | 1,090 | 46,084 | ..... | 4,896 | 51 | 677,858 | New Jersey..... | 1919 | 53,119 | 92,057 | 414 | 3,379 | 46 | ..... |
| | 1914 | 1,520 | 43,695 | ..... | 482 | (1) | 564,063 | | 1914 | 63,048 | 58,547 | 300 | 684 | (1) | ..... |
| California..... | 1919 | ..... | 1 | ..... | 322,530 | 479 | 71,600 | New York..... | 1919 | 71,655 | 181,928 | 3,124 | 12,805 | 145 | 12,740 |
| | 1914 | ..... | 100 | ..... | 588,536 | (1) | 560 | | 1914 | 99,705 | 240,779 | 552 | 3,008 | (1) | 4,097 |
| Florida..... | 1919 | 9 | 38,713 | 777 | 146,605 | 1,848 | 1,320 | North Carolina..... | 1919 | ..... | 64,087 | ..... | ..... | 20 | ..... |
| | 1914 | 1,000 | 52,533 | 9,600 | 40,208 | (1) | ..... |  | 1914 | 232 | 50,540 | 200 | 93 | (1) | 3,000 |
| Georgia..... | 1919 | ..... | 149,910 | 450 | ..... | 447 | ..... | Ohio..... | 1919 | 256 | 251,359 | ..... | 2 | 1,645 | 422,734 |
| | 1914 | ..... | 132,344 | ..... | 14 | (1) | ..... |  | 1914 | 309 | 230,011 | 4 | 315 | (1) | 828,456 |
| Illinois..... | 1919 | 1,302 | 259,087 | 660 | 375 | 47 | 74 | Oklahoma..... | 1919 | 992 | 33,460 | ..... | 69,016 | 343 | 1,893,013 |
| | 1914 | ..... | 322,908 | 215 | 178 | (1) | 90 | | 1914 | ..... | 48,382 | 1,056 | 5,383 | (1) | 833,827 |
| Indiana..... | 1919 | ..... | 201,988 | ..... | 211 | 103 | ..... | Pennsylvania..... | 1919 | 50,388 | 383,915 | ..... | 5,003 | 278 | 223,699 |
| | 1914 | 6 | 173,110 | 5,000 | 109 | (1) | ..... |  | 1914 | 84,340 | 365,421 | ..... | 2,654 | (1) | 107,230 |
| Iowa..... | 1919 | 80 | 66,625 | ..... | 2,765 | ..... | ..... | South Carolina..... | 1919 | 1,250 | 57,954 | ..... | 5,281 | 206 | ..... |
| | 1914 | ..... | 51,541 | ..... | 2,121 | (1) | ..... |  | 1914 | 525 | 45,711 | 300 | 14 | (1) | ..... |
| Kansas..... | 1919 | 8 | 94,086 | 725 | 79,735 | 883 | 343,426 | Tennessee..... | 1919 | ..... | 147,690 | 560 | 24 | 63 | ..... |
| | 1914 | ..... | 77,934 | ..... | 34,734 | (1) | 771,973 | | 1914 | ..... | 130,069 | ..... | 71 | (1) | ..... |
| Kentucky..... | 1919 | ..... | 119,709 | ..... | 195 | 119 | 241,694 | Texas..... | 1919 | 7,133 | 184,012 | 21,822 | 528,865 | 2,546 | 980,332 |
| | 1914 | ..... | 136,330 | ..... | 225 | (1) | 348,409 | | 1914 | 1,660 | 240,747 | 2,022 | 412,171 | (1) | 2,608,586 |
| Louisiana..... | 1919 | ..... | 61,207 | 263 | 175,832 | 152 | 619,288 | Virginia..... | 1919 | 1,969 | 132,444 | 13 | 1,584 | 161 | ..... |
| | 1914 | 2,753 | 99,638 | ..... | 48,973 | (1) | 278,697 | | 1914 | ..... | 103,482 | 3,000 | 205 | (1) | ..... |
| Maryland..... | 1919 | 6,850 | 84,691 | ..... | 4,639 | 274 | 4,000 | All other states..... | 1919 | 9,984 | 267,925 | 3,519 | 111,207 | 814 | 676,533 |
| | 1914 | 3,395 | 92,403 | 766 | 319 | (1) | 12 | | 1914 | 5,033 | 262,344 | 5,250 | 145,820 | (1) | 1,134,578 |

† Included in figures for fuel oils.

SPECIAL STATISTICS.

Detailed statistics of materials, products, and equipment.—Certain additional detailed information concerning the quantity and cost of ammonia used, the quantity and value of products, and equipment used, was collected, by means of a supplemental schedule, data for which are presented in Table 11.

The consumption of ammonia by establishments making ice as a subsidiary product was not shown prior to 1914. Anhydrous ammonia represented 94.8 per cent of the total cost of ammonia used in 1919, both in the industry proper and in industries in which ice was made as a subsidiary product.

TABLE 11.—DETAILED STATISTICS OF QUANTITY, COST, AND VALUE: 1919, 1914, 1909, AND 1904.

| | 1919 | 1914 | 1909 | 1904 |
|---|---------------|------------------|------------------|------------------|
| QUANTITY AND COST OF AMMONIA USED. | | | | |
| Ammonia, total cost... | \$2,658,658 | \$1,887,359 | (¹) | (¹) |
| The ice industry..... | \$2,410,100 | \$1,528,975 | \$1,021,913 | \$613,138 |
| Other industries manufacturing ice as a subsidiary product..... | \$248,558 | \$358,384 | (¹) | (¹) |
| Anhydrous: | | | | |
| Pounds..... | 7,758,984 | 6,777,617 | (¹) | (¹) |
| The ice industry..... | 7,003,581 | 5,405,617 | 3,400,284 | 1,932,497 |
| Other industries..... | 755,403 | 1,371,700 | (¹) | (¹) |
| Used in— | | | (¹) | (¹) |
| Compressor system..... | 6,875,012 | 6,021,506 | (¹) | (¹) |
| Absorption system..... | 883,972 | 756,111 | (¹) | (¹) |
| Cost..... | \$2,519,427 | \$1,777,005 | (¹) | (¹) |
| The ice industry..... | \$2,274,889 | \$1,421,198 | \$926,505 | \$522,275 |
| Other industries..... | \$244,538 | \$355,809 | (¹) | (¹) |
| Aqua: | | | | |
| Pounds..... | 1,740,825 | 1,971,046 | (¹) | (¹) |
| The ice industry..... | 1,675,626 | 1,927,664 | 1,070,698 | 1,495,934 |
| Other industries..... | 65,199 | 43,382 | (¹) | (¹) |
| Used in— | | | (¹) | (¹) |
| Compressor system..... | 94,102 | 1,971,046 | (¹) | (¹) |
| Absorption system..... | 1,646,723 | (¹) | (¹) | (¹) |
| Cost..... | \$139,231 | \$110,254 | (¹) | (¹) |
| The ice industry..... | \$135,211 | \$107,770 | \$95,408 | \$90,863 |
| Other industries..... | \$4,020 | \$2,485 | (¹) | (¹) |
| PRODUCTS. | | | | |
| Total value..... | \$149,515,630 | \$67,320,353 | \$47,202,845 | \$25,689,957 |
| The ice industry..... | \$137,004,798 | \$60,386,267 | \$42,953,055 | \$23,790,045 |
| Subsidiary products from other industries..... | \$12,510,832 | \$6,934,086 | \$4,249,790 | \$1,899,912 |
| Ice: | | | | |
| Tons (2,000 pounds)..... | 27,948,463 | 21,043,063 | 14,230,208 | 8,014,137 |
| The ice industry..... | 25,292,846 | 18,324,691 | 12,647,049 | 7,190,448 |
| Other industries..... | 2,655,617 | 2,718,372 | 1,582,259 | 814,689 |
| Value..... | \$138,785,342 | \$62,192,413 | \$44,139,053 | \$24,350,415 |
| The ice industry..... | \$126,284,510 | \$55,253,327 | \$39,889,263 | \$22,450,503 |
| Other industries..... | \$12,500,832 | \$6,934,086 | \$4,249,790 | \$1,899,912 |
| By kinds— | | | | |
| Can ice— | | | | |
| Tons..... | 26,577,637 | 19,035,368 | 13,177,991 | (¹) |
| The ice industry..... | 24,083,632 | 17,145,699 | 11,671,547 | 6,695,789 |
| Other industries..... | 2,494,005 | 2,489,789 | 1,506,444 | (¹) |
| Value..... | \$133,082,307 | \$55,595,861 | \$41,123,901 | (¹) |
| The ice industry..... | \$121,235,615 | \$52,150,438 | \$37,085,533 | \$21,020,547 |
| Other industries..... | \$11,846,692 | \$6,443,373 | \$4,038,368 | (¹) |
| Plate ice— | | | | |
| Tons..... | 1,370,826 | 1,407,695 | 1,052,217 | (¹) |
| The ice industry..... | 1,209,214 | 1,179,082 | 976,402 | 503,659 |
| Other industries..... | 161,612 | 228,613 | 75,815 | (¹) |
| Value..... | \$5,713,085 | \$3,598,552 | \$3,015,152 | (¹) |
| The ice industry..... | \$5,048,895 | \$3,107,839 | \$2,893,730 | \$1,429,956 |
| Other industries..... | \$664,140 | \$490,713 | \$211,422 | (¹) |
| Cold-storage receipts..... | \$7,142,998 | \$5,127,940 | \$3,083,702 | \$1,339,542 |
| All other products..... | \$3,577,290 | (¹) | (¹) | (¹) |
| EQUIPMENT. | | | | |
| Machines: | | | | |
| Number..... | 5,323 | 4,949 | (¹) | (¹) |
| Capacity, tons (per day of 24 hours)..... | 260,179 | 129,998 | (¹) | (¹) |
| Storage space, cubic feet: | | | | |
| For ice storage..... | 115,313,000 | 100,574,000 | (¹) | (¹) |
| For cold storage..... | 79,953,000 | 82,694,000 | (¹) | (¹) |

¹ Figures not available.

The total value of products given in the table includes receipts from cold storage and refrigeration by establishments in the ice industry proper, but does not include receipts from this source by establishments making ice as a subsidiary product. The value of ice produced in establishments engaged primarily in its manufacture increased \$71,026,183, or 128.5 per cent, between 1914 and 1919 as compared with \$15,369,064, or 38.5 per cent, between 1909 and 1914. The percentages of increase in quantities for the same periods were 38 and 44.9, respectively. The output of ice by establishments manufacturing it as a subsidiary product constituted 9.5 per cent of the total production in 1919 against 12.9 per cent in 1914.

Of the total number of machines in use, 4,523, or 85 per cent, with a combined capacity of 232,359 tons per day of 24 hours, or an average of 51 tons per machine, were reported by establishments manufacturing ice as their principal product, and 800, or 15 per cent, with a daily capacity of 36,820 tons, or an average of 46 tons per machine, by establishments making ice as a subsidiary product.

Quantity and value of manufactured ice, by states.—Table 12 shows for 1919 and 1914, by states, the number of establishments in the ice industry and in industries manufacturing ice as a subsidiary product with the total quantity and value of ice made by each class. The relative importance of the several states is but little affected by the addition of the ice reported by establishments in other industries. The total production of the seven leading states in 1919, each of which reported more than 1,000,000 tons for the year, aggregated 15,314,199 tons, or 54.8 per cent of the total output. The greatest absolute increase for the five-year period from 1914 to 1919, 970,061 tons, is shown by Illinois; the next largest, 924,517 tons, by New York; and Pennsylvania third largest with 584,055 tons.

Number of establishments, by systems used.—The distribution of the number of establishments by systems used in 1919 and 1914 is presented in Table 13. Of the establishments engaged primarily in the manufacture of ice for sale in 1919, 85 per cent used the compressor system solely, 12.2 per cent used the absorption, and 2.7 per cent used both systems. The compressor system predominated in every state in 1919, except Indiana and Kentucky, where 50 per cent and 50.5 per cent, respectively, of the establishments used the absorption system.

Number of machines used, by system and capacity.—In Table 14 is shown, for 1919, the number of machines by rated capacity (tons of refrigeration, ice making or ice equivalent) per day of 24 hours, by system used. The compressor system used 88.6 per cent of the anhydrous ammonia, and the absorption system 94.6 per cent of all aqua ammonia reported.

MANUFACTURES.

Quantity of ice manufactured, by kind of water used.— Table 15 shows for 1919, by states, the quantity and kind of ice produced from distilled and raw water. Of the total ice produced by establishments in the ice industry in 1919, the report showed that 62.7 per cent

of the output was made from distilled water. The production of can ice largely predominated in all the states, only 1,209,214 tons, or 4.8 per cent of the total amount of ice produced, having been made by the plate method.

TABLE 12.—MANUFACTURED ICE, QUANTITY AND VALUE, BY STATES: 1919 AND 1914.

| STATE. | Census year. | NUMBER OF ESTABLISHMENTS MANUFACTURING ICE. | | | ICE MANUFACTURED. | | | | | |
|------------------------------|--------------|---|------------------|----------------------|-----------------------------|---------------|--------------------------------------|------------------|--|------------------|
| | | Total. | In ice industry. | In other industries. | Total. | | By establishments manufacturing ice. | | By establishments in other industries. | |
| | | | | | Quantity (tons 2,000 lbs.). | Value. | Quantity (tons 2,000 lbs.). | Value. | Quantity (tons 2,000 lbs.). | Value. |
| United States..... | 1919 | 3,455 | 2,867 | 588 | 27,948,463 | \$138,795,342 | 25,292,846 | \$126,284,510 | 2,655,617 | \$12,510,832 |
| | 1914 | 3,077 | 2,543 | 534 | 21,043,063 | 62,102,413 | 18,324,691 | 55,258,327 | 2,718,372 | 6,834,086 |
| Alabama..... | 1919 | 71 | 59 | 12 | 422,113 | 2,244,289 | 379,541 | 1,968,210 | 42,572 | 276,059 |
| | 1914 | 64 | 55 | 9 | 362,774 | 1,307,818 | 307,856 | 1,148,893 | 54,918 | 158,925 |
| Arizona..... | 1919 | 34 | 31 | 3 | 161,663 | 1,240,408 | 158,848 | 1,211,618 | 2,815 | 37,760 |
| | 1914 | 29 | 27 | 2 | 126,008 | 746,473 | (¹) | (¹) | (¹) | (¹) |
| Arkansas..... | 1919 | 76 | 71 | 5 | 382,443 | 2,106,607 | 359,838 | 1,989,355 | 22,605 | 117,252 |
| | 1914 | 71 | 65 | 6 | 280,290 | 1,119,125 | 246,254 | 1,056,181 | 14,036 | 62,044 |
| California..... | 1919 | 136 | 117 | 19 | 1,551,703 | 5,832,421 | 1,492,981 | 5,520,410 | 58,722 | 312,011 |
| | 1914 | 116 | 95 | 21 | 1,047,941 | 2,801,304 | 1,021,559 | 2,633,426 | 26,382 | 167,878 |
| Colorado..... | 1919 | 34 | 27 | 7 | 230,199 | 1,093,891 | 205,671 | 974,430 | 24,528 | 119,401 |
| | 1914 | 34 | 32 | 2 | 177,570 | 608,434 | (¹) | (¹) | (¹) | (¹) |
| Connecticut..... | 1919 | 14 | 9 | 5 | 121,664 | 718,889 | 80,337 | 491,738 | 41,327 | 227,151 |
| | 1914 | 9 | 5 | 4 | 66,275 | 188,304 | 53,410 | 159,365 | 12,805 | 28,030 |
| Delaware..... | 1919 | 20 | 17 | 3 | 95,399 | 680,074 | 93,006 | 659,583 | 2,393 | 20,491 |
| | 1914 | 20 | 18 | 2 | 87,880 | 308,861 | (¹) | (¹) | (¹) | (¹) |
| District of Columbia..... | 1919 | 14 | 10 | 4 | 287,549 | 927,721 | 225,897 | 799,276 | 41,652 | 128,445 |
| | 1914 | 13 | 8 | 5 | 272,268 | 584,633 | 119,900 | 283,642 | 152,308 | 300,991 |
| Florida..... | 1919 | 102 | 95 | 7 | 695,316 | 4,129,174 | 653,918 | 3,865,492 | 41,398 | 263,682 |
| | 1914 | 98 | 92 | 6 | 481,158 | 2,241,031 | 449,675 | 2,102,276 | 31,488 | 183,765 |
| Georgia..... | 1919 | 74 | 70 | 4 | 762,180 | 4,248,183 | 742,747 | 4,184,969 | 19,442 | 63,214 |
| | 1914 | 77 | 74 | 3 | 575,595 | 1,946,668 | 563,280 | 1,916,117 | 12,315 | 80,451 |
| Idaho..... | 1919 | 21 | 15 | 6 | 45,306 | 277,036 | 39,948 | 233,343 | 5,358 | 43,093 |
| | 1914 | 16 | 10 | 6 | 20,307 | 119,747 | 16,594 | 98,460 | 3,718 | 21,287 |
| Illinois..... | 1919 | 190 | 154 | 36 | 2,430,812 | 10,675,692 | 2,194,093 | 9,735,215 | 236,710 | 940,477 |
| | 1914 | 165 | 128 | 37 | 1,460,751 | 3,659,844 | 1,283,858 | 3,289,012 | 176,893 | 370,532 |
| Indiana..... | 1919 | 126 | 107 | 19 | 915,408 | 4,094,065 | 828,773 | 3,720,194 | 86,635 | 373,871 |
| | 1914 | 130 | 106 | 24 | 734,353 | 2,089,023 | 643,622 | 1,879,178 | 90,731 | 209,845 |
| Iowa..... | 1919 | 63 | 46 | 17 | 324,844 | 1,907,033 | 289,910 | 1,680,358 | 34,634 | 226,676 |
| | 1914 | 44 | 34 | 10 | 214,232 | 651,341 | 188,928 | 552,076 | 25,304 | 99,265 |
| Kansas..... | 1919 | 157 | 137 | 20 | 656,785 | 3,823,696 | 563,202 | 3,292,601 | 93,683 | 531,095 |
| | 1914 | 118 | 101 | 17 | 596,831 | 1,912,032 | 487,763 | 1,666,166 | 109,068 | 245,876 |
| Kentucky..... | 1919 | 112 | 99 | 13 | 595,960 | 2,810,094 | 507,993 | 2,525,987 | 87,967 | 284,107 |
| | 1914 | 107 | 93 | 14 | 459,000 | 1,406,826 | 427,662 | 1,317,550 | 31,938 | 89,276 |
| Louisiana..... | 1919 | 77 | 70 | 7 | 770,962 | 3,839,473 | 751,625 | 3,713,911 | 19,437 | 125,582 |
| | 1914 | 70 | 76 | 3 | 598,680 | 1,911,018 | 590,933 | 1,879,672 | 7,747 | 31,346 |
| Maryland..... | 1919 | 76 | 61 | 15 | 646,494 | 2,741,496 | 611,908 | 2,592,398 | 34,586 | 149,068 |
| | 1914 | 68 | 62 | 6 | 552,978 | 1,494,246 | 535,737 | 1,451,238 | 17,241 | 43,068 |
| Massachusetts..... | 1919 | 15 | 12 | 3 | 177,568 | 894,111 | 155,268 | 745,098 | 22,298 | 149,013 |
| | 1914 | 8 | 6 | 2 | 80,526 | 191,402 | (¹) | (¹) | (¹) | (¹) |
| Michigan..... | 1919 | 25 | 18 | 7 | 477,538 | 3,040,957 | 422,120 | 2,788,832 | 55,416 | 257,075 |
| | 1914 | 16 | 11 | 5 | 229,901 | 845,471 | 178,236 | 744,353 | 51,665 | 101,118 |
| Minnesota ² | 1919 | 8 | 5 | 3 | 126,513 | 365,315 | 118,341 | 333,078 | 8,172 | 32,237 |
| Mississippi..... | 1919 | 61 | 50 | 11 | 266,592 | 1,750,879 | 223,573 | 1,476,380 | 43,019 | 274,496 |
| | 1914 | 66 | 58 | 8 | 259,741 | 1,116,537 | 223,732 | 973,667 | 36,009 | 142,870 |
| Missouri..... | 1919 | 166 | 129 | 37 | 1,491,062 | 6,744,289 | 1,320,000 | 5,946,217 | 171,062 | 798,072 |
| | 1914 | 160 | 117 | 33 | 1,463,066 | 3,316,290 | 1,167,077 | 2,649,853 | 205,989 | 683,437 |
| Montana ² | 1919 | 8 | 5 | 3 | 18,395 | 106,258 | 7,381 | 51,057 | 11,014 | 55,201 |
| Nebraska..... | 1919 | 51 | 33 | 18 | 274,415 | 1,391,894 | 180,453 | 890,139 | 93,962 | 501,755 |
| | 1914 | 29 | 18 | 11 | 193,424 | 568,550 | 117,464 | 818,050 | 76,960 | 250,500 |
| New Jersey..... | 1919 | 83 | 75 | 8 | 838,874 | 4,549,590 | 801,716 | 4,358,697 | 37,158 | 190,893 |
| | 1914 | 76 | 71 | 5 | 648,650 | 1,524,329 | 629,763 | 1,438,740 | 18,887 | 35,589 |
| New Mexico..... | 1919 | 16 | 13 | 3 | 80,399 | 496,357 | 75,157 | 448,598 | 5,242 | 47,759 |
| | 1914 | 18 | 15 | 3 | 55,385 | 243,513 | (¹) | (¹) | (¹) | (¹) |

¹ Combined to avoid disclosure of individual operations.

² Figures for 1914 can not be shown without disclosing operations of individual establishments.

MANUFACTURED ICE.

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TABLE 12.—MANUFACTURED ICE, QUANTITY AND VALUE, BY STATES: 1919 AND 1914—Continued.

| STATE. | Census year. | NUMBER OF ESTABLISHMENTS MANUFACTURING ICE. | | | ICE MANUFACTURED. | | | | | |
|-------------------------------------|--------------|---|------------------|----------------------|-----------------------------|--------------|--------------------------------------|--------------|--|-------------|
| | | Total. | In ice industry. | In other industries. | Total. | | By establishments manufacturing ice. | | By establishments in other industries. | |
| | | | | | Quantity (tons 2,000 lbs.). | Value. | Quantity (tons 2,000 lbs.). | Value. | Quantity (tons 2,000 lbs.). | Value. |
| | | | | | | | | | | |
| New York..... | 1919 | 152 | 132 | 20 | 3,484,522 | \$18,863,030 | 3,214,659 | \$12,731,812 | 269,863 | \$1,131,218 |
| | 1914 | 141 | 111 | 30 | 2,590,005 | 5,408,204 | 2,143,681 | 4,649,480 | 416,324 | 758,724 |
| North Carolina..... | 1919 | 70 | 63 | 7 | 412,055 | 2,434,805 | 383,574 | 2,255,308 | 28,481 | 179,497 |
| | 1914 | 68 | 61 | 7 | 266,783 | 1,119,084 | 256,568 | 1,060,550 | 10,215 | 52,534 |
| Ohio..... | 1919 | 212 | 141 | 71 | 1,936,127 | 10,720,401 | 1,551,814 | 9,117,501 | 384,313 | 1,602,900 |
| | 1914 | 193 | 132 | 61 | 1,445,060 | 8,395,737 | 1,136,071 | 2,680,137 | 308,989 | 715,550 |
| Oklahoma..... | 1919 | 124 | 115 | 9 | 542,043 | 3,520,067 | 507,683 | 3,314,621 | 34,890 | 206,046 |
| | 1914 | 104 | 97 | 7 | 366,407 | 1,636,330 | 317,507 | 1,518,395 | 48,900 | 117,935 |
| Oregon..... | 1919 | 46 | 30 | 16 | 102,840 | 486,040 | 79,234 | 359,947 | 23,606 | 126,093 |
| | 1914 | 44 | 27 | 17 | 85,013 | 392,860 | 68,128 | 300,191 | 19,885 | 92,669 |
| Pennsylvania..... | 1919 | 295 | 226 | 69 | 2,715,576 | 12,698,211 | 2,513,490 | 11,812,878 | 202,086 | 885,333 |
| | 1914 | 256 | 189 | 67 | 2,131,521 | 6,819,716 | 1,959,742 | 4,934,429 | 171,779 | 885,287 |
| Rhode Island ¹ | 1919 | 8 | 4 | 4 | 19,499 | 162,470 | 12,078 | 100,552 | 7,391 | 51,918 |
| South Carolina..... | 1919 | 58 | 54 | 4 | 299,783 | 2,037,147 | 292,275 | 1,996,884 | 7,508 | 40,263 |
| | 1914 | 39 | 36 | 3 | 188,227 | 842,639 | 177,768 | 807,736 | 10,469 | 34,003 |
| Tennessee..... | 1919 | 80 | 73 | 7 | 558,481 | 3,829,948 | 521,814 | 3,629,365 | 36,667 | 200,583 |
| | 1914 | 80 | 70 | 10 | 515,844 | 1,836,148 | 474,482 | 1,704,370 | 41,362 | 130,778 |
| Texas..... | 1919 | 291 | 265 | 26 | 1,704,397 | 9,651,555 | 1,537,828 | 8,819,334 | 166,569 | 832,221 |
| | 1914 | 291 | 255 | 36 | 1,388,864 | 5,805,733 | 1,149,074 | 4,931,332 | 239,790 | 824,401 |
| Virginia..... | 1919 | 115 | 108 | 9 | 649,544 | 3,477,990 | 636,111 | 3,392,452 | 13,433 | 85,538 |
| | 1914 | 95 | 87 | 8 | 481,236 | 1,663,432 | 446,047 | 1,557,065 | 35,189 | 106,367 |
| Washington..... | 1919 | 70 | 42 | 28 | 180,023 | 788,512 | 142,738 | 616,385 | 37,285 | 172,127 |
| | 1914 | 58 | 32 | 26 | 194,679 | 680,666 | 112,244 | 431,349 | 82,435 | 249,217 |
| West Virginia..... | 1919 | 68 | 54 | 14 | 324,846 | 1,549,528 | 271,155 | 1,341,448 | 53,691 | 208,080 |
| | 1914 | 61 | 47 | 14 | 255,235 | 792,800 | 208,767 | 661,040 | 51,478 | 131,260 |
| All other states ² | 1919 | 36 | 27 | 9 | 190,596 | 846,166 | 144,248 | 603,789 | 46,348 | 242,377 |
| | 1914 | 29 | 22 | 4 | 135,005 | 397,944 | 626,329 | 2,358,298 | 36,045 | 138,329 |

¹ Figures for 1914 can not be shown without disclosing operations of individual establishments.

² All other states for 1919 embrace: Maine, 2 establishments; Nevada, 5; North Dakota, 1; South Dakota, 4; Utah, 19; Wisconsin, 4; and Wyoming, 1. All other states for 1914 include Minnesota, 2 establishments; Montana, 2; Nevada, 5; Rhode Island, 2; South Dakota, 1; Utah, 11; Wisconsin, 2; and Wyoming, 1.

TABLE 13.—NUMBER OF ESTABLISHMENTS, BY SYSTEMS USED: 1919 AND 1914.

| STATE. | TOTAL. | | USING COMPRESSOR SYSTEM SOLELY. | | USING ABSORPTION SYSTEM SOLELY. | | USING BOTH SYSTEMS. | | STATE. | TOTAL. | | USING COMPRESSOR SYSTEM SOLELY. | | USING ABSORPTION SYSTEM SOLELY. | | USING BOTH SYSTEMS. | |
|---------------------------|--------|-------|---------------------------------|-------|---------------------------------|-------|---------------------|-------|-----------------------|--------|------|---------------------------------|------|---------------------------------|-------|---------------------|-------|
| | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 |
| United States..... | 12,867 | 2,543 | 2,438 | 2,077 | 351 | 417 | 77 | 49 | Mississippi..... | 50 | 58 | 43 | 46 | 6 | 11 | 1 | 1 |
| Alabama..... | 59 | 55 | 37 | 33 | 17 | 20 | 5 | 2 | Missouri..... | 129 | 117 | 113 | 108 | 13 | 9 | 3 | 2 |
| Arizona..... | 31 | 27 | 31 | 26 | ..... | 1 | ..... | ..... | Montana..... | 5 | 1 | 5 | 1 | ..... | ..... | ..... | ..... |
| Arkansas..... | 71 | 65 | 68 | 57 | 3 | 7 | ..... | 1 | Nebraska..... | 33 | 18 | 29 | 16 | 3 | 2 | 1 | ..... |
| California..... | 117 | 95 | 116 | 90 | ..... | 1 | 1 | 4 | New Jersey..... | 75 | 71 | 65 | 60 | 6 | 11 | 4 | ..... |
| Colorado..... | 27 | 32 | 25 | 29 | 2 | 3 | ..... | ..... | New Mexico..... | 13 | 15 | 11 | 13 | 1 | 2 | 1 | ..... |
| Connecticut..... | 9 | 5 | 9 | 5 | ..... | ..... | ..... | ..... | New York..... | 132 | 111 | 121 | 100 | 9 | 11 | 2 | ..... |
| Delaware..... | 17 | 18 | 17 | 18 | ..... | ..... | ..... | ..... | North Carolina..... | 63 | 61 | 53 | 49 | 9 | 9 | 1 | 3 |
| District of Columbia..... | 10 | 8 | 10 | 8 | ..... | ..... | ..... | ..... | Ohio..... | 141 | 132 | 111 | 104 | 21 | 24 | 9 | 4 |
| Florida..... | 95 | 92 | 55 | 44 | 34 | 46 | 6 | 2 | Oklahoma..... | 115 | 97 | 108 | 91 | 5 | 5 | 2 | 1 |
| Georgia..... | 70 | 74 | 58 | 50 | 9 | 23 | 3 | 1 | Oregon..... | 30 | 27 | 30 | 27 | ..... | ..... | ..... | ..... |
| Idaho..... | 15 | 10 | 14 | 10 | 1 | ..... | ..... | ..... | Pennsylvania..... | 226 | 189 | 211 | 175 | 11 | 9 | 4 | 5 |
| Illinois..... | 154 | 128 | 131 | 108 | 19 | 20 | 4 | ..... | Rhode Island..... | 4 | 2 | 4 | 2 | ..... | ..... | ..... | ..... |
| Indiana..... | 107 | 106 | 44 | 46 | 53 | 53 | 9 | 7 | South Carolina..... | 54 | 36 | 46 | 28 | 7 | 4 | 1 | 4 |
| Iowa..... | 46 | 34 | 42 | 31 | 2 | 2 | 2 | 1 | South Dakota..... | 3 | 1 | 3 | 1 | ..... | ..... | ..... | ..... |
| Kansas..... | 137 | 101 | 124 | 90 | 9 | 9 | 4 | 2 | Tennessee..... | 73 | 70 | 51 | 50 | 17 | 19 | 5 | 1 |
| Kentucky..... | 99 | 93 | 45 | 34 | 50 | 55 | 4 | 4 | Texas..... | 265 | 255 | 257 | 241 | 6 | 11 | 2 | 3 |
| Louisiana..... | 70 | 76 | 51 | 58 | 18 | 18 | 1 | ..... | Utah..... | 17 | 10 | 16 | 10 | 1 | ..... | ..... | ..... |
| Maryland..... | 61 | 62 | 58 | 58 | 2 | 4 | 1 | ..... | Virginia..... | 106 | 87 | 95 | 71 | 10 | 15 | 1 | 1 |
| Massachusetts..... | 12 | 6 | 10 | 5 | 2 | 1 | ..... | ..... | Washington..... | 42 | 32 | 41 | 31 | 1 | 1 | ..... | ..... |
| Michigan..... | 18 | 11 | 17 | 11 | 1 | ..... | ..... | ..... | West Virginia..... | 54 | 47 | 52 | 36 | 2 | 11 | ..... | ..... |
| Minnesota..... | 5 | 2 | 5 | 2 | ..... | ..... | ..... | ..... | All other states..... | 7 | 6 | 6 | 6 | 1 | ..... | ..... | ..... |

¹ Includes 1 establishment using the vacuum system.

MANUFACTURES.

TABLE 14.—NUMBER OF MACHINES USED, BY SYSTEM AND CAPACITY: 1919.

| CAPACITY. | Total number of machines. | SYSTEM. | | CAPACITY. | Total number of machines. | SYSTEM. | |
|-------------------------------|---------------------------|--------------|--------------|--------------------------------|---------------------------|--------------|--------------|
| | | Com-pressor. | Absorp-tion. | | | Com-pressor. | Absorp-tion. |
| United States..... | 4,523 | 3,962 | 561 | 20 but less than 30 tons..... | 707 | 600 | 101 |
| Less than 10 tons..... | 523 | 477 | 46 | 30 but less than 50 tons..... | 735 | 632 | 103 |
| 10 but less than 20 tons..... | 807 | 684 | 123 | 50 but less than 100 tons..... | 956 | 839 | 117 |
| | | | | 100 tons or more..... | 795 | 724 | 71 |

TABLE 15.—QUANTITY OF ICE MANUFACTURED, BY KIND OF WATER USED: 1919.

| STATE. | QUANTITY (TONS 2,000 POUNDS). | | | | | STATE. | QUANTITY (TONS 2,000 POUNDS). | | | | |
|---------------------------|-------------------------------|------------------|------------|------------|------------|-----------------------|-------------------------------|------------------|------------|------------|------------|
| | Total. | Distilled water. | | Raw water. | | | Total. | Distilled water. | | Raw water. | |
| | | Can ice. | Plate ice. | Can ice. | Plate ice. | | | Can ice. | Plate ice. | Can ice. | Plate ice. |
| United States..... | 25,292,846 | 15,703,906 | 144,660 | 8,379,726 | 1,064,554 | Mississippi..... | 223,573 | 206,363 | | 17,210 | |
| Alabama..... | 379,541 | 323,907 | 13,782 | 39,362 | 2,400 | Missouri..... | 1,320,000 | 1,069,341 | 1,909 | 248,750 | |
| Arizona..... | 158,848 | 80,980 | | 77,888 | | Montana..... | 7,381 | | | 7,381 | |
| Arkansas..... | 359,838 | 274,879 | 5,424 | 79,535 | | Nebraska..... | 180,453 | 100,051 | | 74,422 | |
| California..... | 1,492,981 | 445,321 | 250 | 1,019,199 | 28,211 | New Jersey..... | 801,716 | 504,577 | 32,627 | 214,312 | 50,200 |
| Colorado..... | 205,671 | 202,246 | 2,745 | 680 | | New Mexico..... | 75,157 | 67,686 | | 7,471 | |
| Connecticut..... | 80,337 | 51,060 | | 11,653 | 16,724 | New York..... | 3,214,659 | 1,140,940 | 29,655 | 1,950,184 | 93,880 |
| Delaware..... | 93,006 | 5,998 | 950 | 20,616 | 59,442 | North Carolina..... | 383,574 | 347,477 | | 36,097 | |
| District of Columbia..... | 225,897 | 60,122 | 4,000 | 15,513 | 146,182 | Ohio..... | 1,551,814 | 1,146,434 | | 399,500 | 5,880 |
| Florida..... | 653,918 | 575,697 | 7,358 | 57,363 | 13,500 | Oklahoma..... | 507,683 | 485,549 | | 13,878 | 8,266 |
| Georgia..... | 742,747 | 626,304 | 2,475 | 77,068 | 36,900 | Oregon..... | 79,234 | 2,133 | | 73,376 | 3,725 |
| Idaho..... | 39,948 | 1,508 | | 24,138 | 14,242 | Pennsylvania..... | 2,513,490 | 1,361,629 | 27,224 | 821,761 | 302,876 |
| Illinois..... | 2,194,093 | 1,005,655 | | 1,188,438 | | Rhode Island..... | 12,078 | 6,001 | | 3,128 | 2,949 |
| Indiana..... | 828,773 | 730,910 | 219 | 97,644 | | South Carolina..... | 292,275 | 178,990 | | 113,285 | |
| Iowa..... | 289,910 | 175,665 | | 100,760 | 13,485 | South Dakota..... | 5,795 | 2,700 | | 3,095 | |
| Kansas..... | 563,202 | 492,279 | 1,800 | 69,123 | | Tennessee..... | 521,814 | 481,555 | 4,280 | 23,379 | 12,600 |
| Kentucky..... | 507,993 | 409,226 | | 38,767 | | Texas..... | 1,537,828 | 1,230,297 | 730 | 306,726 | 75 |
| Louisiana..... | 761,525 | 701,941 | | 49,684 | | Utah..... | 89,940 | 80,637 | | 2,996 | 6,316 |
| Maryland..... | 611,908 | 293,533 | | 139,400 | 178,975 | Virginia..... | 636,111 | 431,150 | 8,532 | 175,369 | 21,060 |
| Massachusetts..... | 155,268 | 9,317 | | 119,258 | 26,693 | Washington..... | 142,738 | 35,853 | | 86,902 | 19,983 |
| Michigan..... | 422,120 | 32,578 | | 389,542 | | West Virginia..... | 271,155 | 235,950 | 700 | 34,499 | |
| Minnesota..... | 118,341 | | | 118,341 | | All other states..... | 48,504 | 22,461 | | 26,053 | |

GENERAL TABLES.

Comparative statistics, by states.—Table 16 gives, for 1919, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the ice industry.

Detailed statement, by states.—Table 17 presents, for 1919, statistics in detail for the industry as a whole, and for each state that can be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 16.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

| STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber.) | Primary horse- power. | Expressed in thousands. | | |
|---------------------------|----------------------|---|---|-----------------------------|----------------------------|----------------------------|----------------------------|
| | | | | | Wages. | Cost of mate- rials. | Value of prod- ucts. |
| United States..... | 1919 | 2,867 | 30,247 | 572,970 | \$34,002 | \$42,878 | \$137,005 |
| | 1914 | 2,543 | 23,011 | 401,988 | 14,841 | 17,755 | 60,388 |
| | 1909 | 2,004 | 16,114 | 317,789 | 9,779 | 11,817 | 42,053 |
| Alabama..... | 1919 | 59 | 553 | 9,658 | 476 | 780 | 2,083 |
| | 1914 | 55 | 478 | 8,209 | 204 | 271 | 1,201 |
| | 1909 | 45 | 343 | 6,117 | 138 | 201 | 777 |
| Arizona..... | 1919 | 31 | 272 | 4,557 | 372 | 612 | 1,410 |
| | 1914 | 27 | 203 | 3,153 | 186 | 271 | 807 |
| | 1909 | 23 | 117 | 2,509 | 112 | 144 | 501 |
| Arkansas..... | 1919 | 71 | 525 | 13,516 | 490 | 754 | 2,132 |
| | 1914 | 65 | 424 | 11,052 | 238 | 345 | 1,115 |
| | 1909 | 49 | 352 | 8,281 | 192 | 207 | 820 |
| California..... | 1919 | 117 | 1,535 | 32,113 | 1,955 | 2,202 | 7,112 |
| | 1914 | 95 | 1,139 | 20,411 | 982 | 926 | 3,887 |
| | 1909 | 77 | 600 | 9,971 | 572 | 564 | 2,331 |
| Colorado..... | 1919 | 27 | 242 | 5,025 | 274 | 243 | 1,045 |
| | 1914 | 32 | 231 | 4,793 | 181 | 182 | 654 |
| | 1909 | 30 | 251 | 4,361 | 190 | 126 | 570 |
| Connecticut..... | 1919 | 9 | 67 | 1,040 | 91 | 190 | 493 |
| | 1914 | 5 | 80 | 1,346 | 64 | 63 | 192 |
| | 1909 | 7 | 66 | 1,029 | 42 | 43 | 159 |
| Delaware..... | 1919 | 17 | 131 | 1,697 | 194 | 279 | 660 |
| | 1914 | 18 | 151 | 1,694 | 93 | 59 | 294 |
| | 1909 | 15 | 71 | 1,028 | 31 | 40 | 163 |
| District of Columbia..... | 1919 | 10 | 238 | 6,258 | 300 | 418 | 1,031 |
| | 1914 | 8 | 140 | 4,300 | 97 | 106 | 408 |
| Florida..... | 1919 | 95 | 1,412 | 18,011 | 1,153 | 1,524 | 4,052 |
| | 1914 | 92 | 760 | 12,475 | 446 | 617 | 2,203 |
| | 1909 | 70 | 461 | 8,585 | 224 | 384 | 1,207 |
| Georgia..... | 1919 | 70 | 1,115 | 14,249 | 1,060 | 1,579 | 4,440 |
| | 1914 | 74 | 890 | 15,524 | 454 | 611 | 2,005 |
| | 1909 | 61 | 494 | 8,125 | 210 | 275 | 1,163 |
| Idaho..... | 1919 | 15 | 56 | 1,258 | 70 | 48 | 272 |
| | 1914 | 10 | 42 | 822 | 38 | 29 | 112 |
| | 1909 | 4 | 19 | 355 | 14 | 12 | 65 |
| Illinois..... | 1919 | 154 | 1,081 | 41,110 | 2,226 | 2,515 | 10,093 |
| | 1914 | 128 | 1,312 | 26,183 | 970 | 1,005 | 3,589 |
| | 1909 | 83 | 804 | 13,288 | 534 | 442 | 1,928 |
| Indiana..... | 1919 | 107 | 855 | 12,075 | 800 | 1,413 | 4,080 |
| | 1914 | 106 | 926 | 11,663 | 553 | 638 | 2,029 |
| | 1909 | 85 | 593 | 7,726 | 304 | 326 | 1,311 |
| Iowa..... | 1919 | 46 | 504 | 5,850 | 539 | 532 | 1,841 |
| | 1914 | 34 | 192 | 3,469 | 150 | 202 | 579 |
| | 1909 | 18 | 151 | 2,045 | 101 | 64 | 290 |
| Kansas..... | 1919 | 137 | 822 | 16,506 | 938 | 1,119 | 3,509 |
| | 1914 | 101 | 634 | 17,228 | 436 | 507 | 1,795 |
| | 1909 | 86 | 593 | 14,630 | 342 | 480 | 1,480 |
| Kentucky..... | 1919 | 90 | 754 | 12,548 | 662 | 914 | 2,689 |
| | 1914 | 93 | 766 | 12,568 | 350 | 440 | 1,472 |
| | 1909 | 78 | 472 | 9,040 | 243 | 307 | 1,135 |
| Louisiana..... | 1919 | 70 | 785 | 14,730 | 783 | 1,323 | 3,900 |
| | 1914 | 76 | 782 | 12,078 | 442 | 676 | 1,952 |
| | 1909 | 69 | 633 | 10,556 | 357 | 499 | 1,501 |
| Maryland..... | 1919 | 61 | 632 | 11,993 | 709 | 977 | 2,717 |
| | 1914 | 62 | 532 | 11,463 | 325 | 422 | 1,593 |
| | 1909 | 42 | 355 | 7,192 | 230 | 300 | 1,022 |
| Massachusetts..... | 1919 | 12 | 153 | 3,995 | 201 | 183 | 745 |
| | 1914 | 6 | 57 | 2,400 | 49 | 76 | 180 |
| | 1909 | 7 | 55 | 2,034 | 42 | 67 | 203 |
| Michigan..... | 1919 | 18 | 742 | 8,137 | 1,188 | 717 | 2,822 |
| | 1914 | 11 | 443 | 4,433 | 389 | 128 | 765 |
| | 1909 | 5 | 87 | 1,969 | 77 | 40 | 199 |
| Mississippi..... | 1919 | 50 | 447 | 6,298 | \$372 | \$569 | \$1,515 |
| | 1914 | 58 | 476 | 8,430 | 219 | 327 | 1,046 |
| | 1909 | 51 | 341 | 7,003 | 189 | 213 | 886 |
| Missouri..... | 1919 | 129 | 1,174 | 26,116 | 1,426 | 2,108 | 6,505 |
| | 1914 | 117 | 1,059 | 26,787 | 748 | 1,041 | 3,107 |
| | 1909 | 92 | 761 | 22,904 | 472 | 667 | 2,084 |
| Nebraska..... | 1919 | 33 | 257 | 4,238 | 342 | 330 | 947 |
| | 1914 | 18 | 102 | 1,704 | 68 | 121 | 380 |
| | 1909 | 7 | 30 | 1,193 | 21 | 40 | 125 |
| New Jersey..... | 1919 | 75 | 838 | 14,454 | 1,033 | 1,343 | 4,551 |
| | 1914 | 71 | 621 | 13,658 | 434 | 527 | 1,556 |
| | 1909 | 59 | 456 | 10,121 | 317 | 336 | 1,497 |
| New Mexico..... | 1919 | 13 | 115 | 2,259 | 124 | 191 | 468 |
| | 1914 | 15 | 76 | 2,115 | 48 | 52 | 232 |
| | 1909 | 10 | 50 | 1,373 | 33 | 42 | 144 |
| New York..... | 1919 | 132 | 2,138 | 54,531 | 3,000 | 3,878 | 13,309 |
| | 1914 | 111 | 1,407 | 37,746 | 1,176 | 1,667 | 4,897 |
| | 1909 | 89 | 1,124 | 21,375 | 835 | 1,044 | 3,808 |
| North Carolina..... | 1919 | 63 | 757 | 7,415 | 646 | 761 | 2,365 |
| | 1914 | 61 | 519 | 8,329 | 203 | 342 | 1,126 |
| | 1909 | 45 | 318 | 5,386 | 127 | 180 | 659 |
| Ohio..... | 1919 | 141 | 1,952 | 34,630 | 2,618 | 2,898 | 10,208 |
| | 1914 | 132 | 1,277 | 27,978 | 904 | 876 | 3,134 |
| | 1909 | 97 | 802 | 19,058 | 559 | 564 | 2,270 |
| Oklahoma..... | 1919 | 115 | 831 | 18,394 | 944 | 1,044 | 3,574 |
| | 1914 | 97 | 528 | 15,105 | 868 | 402 | 1,603 |
| | 1909 | 77 | 449 | 10,359 | 270 | 307 | 1,273 |
| Oregon..... | 1919 | 30 | 108 | 2,440 | 158 | 105 | 556 |
| | 1914 | 27 | 106 | 2,650 | 92 | 118 | 376 |
| | 1909 | 25 | 69 | 1,589 | 63 | 76 | 257 |
| Pennsylvania..... | 1919 | 226 | 2,733 | 51,516 | 3,202 | 4,138 | 12,080 |
| | 1914 | 189 | 2,124 | 43,937 | 1,289 | 1,453 | 5,195 |
| | 1909 | 170 | 1,606 | 35,890 | 1,023 | 1,225 | 4,823 |
| South Carolina..... | 1919 | 54 | 584 | 8,954 | 466 | 713 | 2,012 |
| | 1914 | 36 | 368 | 5,271 | 164 | 260 | 818 |
| | 1909 | 32 | 218 | 2,964 | 85 | 129 | 433 |
| Tennessee..... | 1919 | 73 | 1,063 | 11,087 | 887 | 1,154 | 3,774 |
| | 1914 | 70 | 927 | 13,050 | 492 | 405 | 1,702 |
| | 1909 | 57 | 779 | 9,327 | 362 | 281 | 1,324 |
| Texas..... | 1919 | 205 | 2,362 | 55,879 | 2,223 | 3,145 | 9,811 |
| | 1914 | 255 | 1,926 | 42,271 | 1,138 | 1,660 | 6,628 |
| | 1909 | 182 | 1,437 | 29,905 | 839 | 1,092 | 3,844 |
| Utah..... | 1919 | 17 | 105 | 2,152 | 124 | 89 | 396 |
| | 1914 | 10 | 38 | 1,505 | 41 | 43 | 228 |
| | 1909 | 4 | 20 | 474 | 16 | 29 | 93 |
| Virginia..... | 1919 | 106 | 909 | 18,670 | 976 | 1,198 | 3,065 |
| | 1914 | 87 | 714 | 13,057 | 378 | 501 | 1,700 |
| | 1909 | 74 | 475 | 8,553 | 220 | 268 | 1,143 |
| Washington..... | 1919 | 42 | 181 | 4,318 | 271 | 180 | 820 |
| | 1914 | 32 | 150 | 3,080 | 147 | 144 | 551 |
| | 1909 | 25 | 163 | 2,210 | 140 | 141 | 558 |
| West Virginia..... | 1919 | 54 | 372 | 8,100 | 420 | 483 | 1,515 |
| | 1914 | 47 | 364 | 8,380 | 200 | 185 | 766 |
| | 1909 | 35 | 233 | 5,554 | 113 | 111 | 476 |
| All other states..... | 1919 | 24 | 187 | 3,378 | 222 | 229 | 747 |
| | 1914 | 12 | 32 | 1,575 | 40 | 57 | 172 |
| | 1909 | 19 | 140 | 3,669 | 112 | 130 | 481 |

MANUFACTURES.

TABLE 17.—DETAILED STATEMENT,

| PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | Capital. <i>Dollars.</i> 270,725,786 | |
|----------------------------------|---------------------------|--------|-------------------------------|---|--------------|---------|-----------------|----------------------|----------------|--|--------|--------------|-------|-----------|--|--|
| STATE. | Number of establishments. | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | | | Total. | 16 and over. | | Under 16. | | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | Male. | | Female. | Male. | Female. | | |
| | | | | | | | | Maximum month. | Minimum month. | | | | | | | |
| 1 | United States..... | 2,867 | 38,605 | 1,566 | 3,873 | 1,874 | 1,045 | 30,247 | Jy 41,078 | Ja 20,706 | 31,101 | 30,654 | 258 | 187 | 2 | |
| 2 | Alabama..... | 59 | 713 | 41 | 76 | 26 | 17 | 553 | Au 759 | Fe 357 | 572 | 557 | 3 | 12 | ..... |  |
| 3 | Arizona..... | 31 | 360 | 23 | 36 | 25 | 4 | 272 | Jy 365 | Ja 184 | 226 | 226 | ..... | ..... | ..... |  |
| 4 | Arkansas..... | 71 | 688 | 50 | 76 | 18 | 13 | 525 | Jy 835 | Ja 297 | 508 | 507 | 1 | ..... | ..... |  |
| 5 | California..... | 117 | 1,895 | 85 | 140 | 83 | 46 | 1,535 | Jy 1,988 | Ja 1,177 | 1,561 | 1,554 | 3 | 4 | ..... |  |
| 6 | Colorado..... | 27 | 316 | 12 | 37 | 18 | 7 | 242 | Au 403 | Ja 166 | 284 | 284 | ..... | ..... | ..... |  |
| 7 | Connecticut..... | 9 | 103 | 8 | 16 | 7 | 5 | 67 | Au 95 | Fe 38 | 61 | 58 | 3 | ..... | ..... |  |
| 8 | Delaware..... | 17 | 165 | 10 | 16 | 1 | 7 | 131 | Au 213 | Ja 75 | 109 | 108 | ..... | ..... | ..... |  |
| 9 | District of Columbia..... | 10 | 296 | 1 | 33 | 22 | 2 | 238 | Au 263 | De 210 | 244 | 242 | 2 | ..... | ..... |  |
| 10 | Florida..... | 95 | 1,702 | 51 | 127 | 87 | 25 | 1,412 | Se 1,549 | Ja 1,312 | 1,527 | 1,499 | 20 | 2 | ..... |  |
| 11 | Georgia..... | 70 | 1,412 | 81 | 122 | 124 | 20 | 1,115 | Jy 1,320 | Ja 995 | 1,163 | 1,152 | ..... | 10 | 1 | |
| 12 | Idaho..... | 15 | 84 | 11 | 10 | 4 | 3 | 56 | Au 93 | Ja 32 | 60 | 59 | 1 | ..... | ..... |  |
| 13 | Illinois..... | 154 | 2,140 | 42 | 255 | 98 | 64 | 1,681 | Au 2,303 | Ja 1,084 | 1,592 | 1,572 | 20 | ..... | ..... |  |
| 14 | Indiana..... | 107 | 1,188 | 60 | 184 | 42 | 47 | 855 | Jy 1,321 | Ja 488 | 821 | 803 | 12 | 6 | ..... |  |
| 15 | Iowa..... | 46 | 661 | 35 | 65 | 32 | 25 | 504 | Jy 717 | De 313 | 336 | 333 | 3 | ..... | ..... |  |
| 16 | Kansas..... | 137 | 1,098 | 113 | 105 | 25 | 33 | 822 | Au 1,309 | Ja 468 | 804 | 881 | 5 | 8 | ..... |  |
| 17 | Kentucky..... | 99 | 961 | 35 | 118 | 31 | 23 | 754 | Jy 1,140 | Fe 420 | 741 | 736 | 3 | 2 | ..... |  |
| 18 | Louisiana..... | 70 | 1,022 | 19 | 137 | 60 | 21 | 785 | Jy 1,003 | Fe 509 | 801 | 782 | 5 | 14 | ..... |  |
| 19 | Maryland..... | 61 | 775 | 41 | 60 | 36 | 6 | 632 | Au 859 | Ja 426 | 783 | 781 | 2 | ..... | ..... |  |
| 20 | Massachusetts..... | 12 | 182 | 4 | 15 | 9 | 1 | 153 | Au 182 | Ja 119 | 160 | 160 | ..... | ..... | ..... |  |
| 21 | Michigan..... | 18 | 868 | 14 | 66 | 12 | 34 | 742 | Jy 1,084 | Ja 460 | 769 | 748 | 21 | ..... | ..... |  |
| 22 | Minnesota..... | 5 | 122 | ..... | 15 | 7 | 7 | 93 | Au 105 | Ja 76 | 94 | 93 | 1 | ..... | ..... |  |
| 23 | Mississippi..... | 50 | 557 | 29 | 57 | 17 | 7 | 447 | Au 623 | Ja 302 | 479 | 478 | 1 | ..... | ..... |  |
| 24 | Missouri..... | 129 | 1,554 | 85 | 174 | 70 | 51 | 1,174 | Au 1,642 | Ja 762 | 1,351 | 1,320 | 24 | 1 | ..... |  |
| 25 | Montana..... | 5 | 24 | 5 | 1 | 2 | 2 | 14 | Je 18 | Ja 10 | 14 | 14 | ..... | ..... | ..... |  |
| 26 | Nebraska..... | 33 | 335 | 31 | 25 | 18 | 4 | 257 | Au 407 | De 140 | 191 | 190 | 1 | ..... | ..... |  |
| 27 | New Jersey..... | 75 | 1,033 | 28 | 116 | 32 | 19 | 838 | Au 1,123 | Fe 572 | 961 | 933 | 3 | 25 | ..... |  |
| 28 | New Mexico..... | 13 | 137 | 2 | 12 | 4 | 4 | 115 | Au 178 | Ja 57 | 132 | 131 | 1 | ..... | ..... |  |
| 29 | New York..... | 132 | 2,558 | 37 | 220 | 104 | 59 | 2,138 | Au 2,604 | Ja 1,531 | 2,172 | 2,138 | 5 | 20 | ..... |  |
| 30 | North Carolina..... | 63 | 922 | 25 | 100 | 26 | 14 | 757 | Jy 1,031 | Ja 503 | 687 | 673 | 2 | 12 | ..... |  |
| 31 | Ohio..... | 141 | 2,544 | 85 | 215 | 87 | 205 | 1,952 | Jy 2,959 | Ja 1,148 | 2,176 | 2,143 | 33 | ..... | ..... |  |
| 32 | Oklahoma..... | 115 | 1,185 | 84 | 167 | 66 | 37 | 831 | Au 1,338 | Ja 469 | 918 | 881 | 5 | 31 | 1 | |
| 33 | Oregon..... | 30 | 159 | 24 | 18 | 5 | 4 | 103 | Jy 167 | Ja 66 | 115 | 115 | ..... | ..... | ..... |  |
| 34 | Pennsylvania..... | 226 | 3,468 | 118 | 201 | 238 | 88 | 2,733 | Je 3,673 | Ja 1,903 | 2,876 | 2,837 | 30 | 9 | ..... |  |
| 35 | Rhode Island..... | 4 | 27 | 3 | 2 | ..... | 2 | 20 | Je 34 | Ja 0 | 34 | 33 | ..... | 1 | ..... |  |
| 36 | South Carolina..... | 54 | 727 | 23 | 80 | 32 | 8 | 584 | Au 791 | Ja 386 | 646 | 646 | ..... | ..... | ..... |  |
| 37 | South Dakota..... | 3 | 11 | 2 | 1 | ..... | ..... | 8 | Jy 14 | Ja 4 | 4 | 4 | ..... | ..... | ..... |  |
| 38 | Tennessee..... | 73 | 1,296 | 43 | 99 | 73 | 18 | 1,063 | Au 1,551 | Ja 691 | 1,063 | 1,051 | 5 | 7 | ..... |  |
| 39 | Texas..... | 265 | 3,168 | 140 | 357 | 250 | 59 | 2,362 | Au 3,305 | Ja 1,527 | 2,252 | 2,239 | 4 | 9 | ..... |  |
| 40 | Utah..... | 17 | 119 | 5 | 5 | 4 | ..... | 105 | Se 177 | Ja 48 | 80 | 80 | ..... | ..... | ..... |  |
| 41 | Virginia..... | 106 | 1,227 | 58 | 127 | 49 | 24 | 969 | Jy 1,459 | Fe 641 | 983 | 958 | 21 | 4 | ..... |  |
| 42 | Washington..... | 42 | 280 | 24 | 30 | 11 | 14 | 181 | Au 235 | Ja 142 | 195 | 193 | 1 | 1 | ..... |  |
| 43 | West Virginia..... | 54 | 473 | 22 | 48 | 17 | 14 | 372 | Jy 513 | Ja 235 | 409 | 407 | 2 | ..... | ..... |  |
| 44 | All other states..... | 7 | 70 | 1 | 13 | 2 | 2 | 52 | ..... | ..... | 57 | 48 | 9 | ..... | ..... |  |

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

MANUFACTURED ICE.

967

BY STATES: 1919.

| EXPENSES. | | | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | | | Electric horse-power generated in establishments reporting. | 1 |
|-------------------------|-------------------------|--------------------------|----------------------|----------------------|---|--------------------------|--------------------------|---------------------------|-----------------------------|---------------------|----------|-------------------------------|-----------------|------------------------------|---------------------------|--------------------|---|---|
| Salaries and wages. | | | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | | | | |
| Officials. | Clerks, etc. | Wage earners. | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Owned. | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ¹ | Rent. ² | | |
| Dollars. 8, 106, 245 | Dollars. 2, 842, 388 | Dollars. 34, 001, 837 | Dollars. 234, 167 | Dollars. 771, 325 | Dollars. 4, 946, 061 | Dollars. 17, 271, 245 | Dollars. 25, 606, 264 | Dollars. 137, 004, 798 | Dollars. 94, 127, 289 | 572, 970 | 393, 312 | 13, 030 | 28, 003 | 2, 542 | 135, 483 | 26, 114 | | |
| 163, 803 | 39, 028 | 475, 817 | 604 | 1, 070 | 56, 852 | 302, 378 | 477, 371 | 2, 085, 975 | 1, 306, 226 | 9, 658 | 7, 764 | ..... | 45 | ..... | 1, 849 | 108 | | |
| 87, 814 | 26, 848 | 871, 838 | 5, 288 | 5, 973 | 46, 015 | 204, 608 | 347, 630 | 1, 410, 148 | 797, 910 | 4, 557 | 20 | 539 | 40 | ..... | 1, 177 | 101 | | |
| 134, 874 | 29, 814 | 490, 260 | 418 | 57, 070 | 58, 978 | 306, 117 | 448, 880 | 2, 132, 331 | 1, 377, 834 | 13, 516 | 11, 401 | 670 | 570 | ..... | 875 | 435 | | |
| 370, 238 | 158, 515 | 1, 955, 056 | 5, 763 | 41, 966 | 299, 748 | 846, 972 | 1, 354, 723 | 7, 112, 470 | 4, 910, 775 | 32, 113 | 9, 039 | 475 | 1, 784 | 155 | 20, 660 | 1, 459 | | |
| 54, 700 | 25, 900 | 274, 403 | 400 | 3, 660 | 37, 326 | 54, 106 | 189, 173 | 1, 045, 477 | 802, 138 | 5, 025 | 4, 750 | 35 | 18 | ..... | 216 | 211 | | |
| 30, 655 | 14, 792 | 90, 988 | ..... | 2, 077 | 26, 345 | 73, 778 | 115, 933 | 405, 820 | 308, 109 | 1, 646 | 1, 150 | 45 | 105 | ..... | 340 | 91 | | |
| 31, 200 | 0, 370 | 193, 847 | 421 | ..... | 14, 582 | 177, 765 | 101, 041 | 659, 583 | 380, 177 | 1, 597 | 1, 064 | ..... | 25 | ..... | 365 | 20 | | |
| 62, 842 | 37, 473 | 299, 524 | ..... | 7, 800 | 54, 777 | 180, 429 | 237, 589 | 1, 080, 006 | 692, 048 | 0, 258 | 1, 954 | ..... | 1, 475 | 391 | 2, 438 | 596 | | |
| 214, 707 | 102, 939 | 1, 153, 136 | 1, 400 | 33, 537 | 96, 851 | 613, 646 | 910, 304 | 4, 051, 516 | 2, 527, 606 | 18, 011 | 15, 049 | 1, 618 | 742 | 1 | 601 | 1, 405 | | |
| 251, 083 | 163, 300 | 1, 059, 699 | 2, 498 | 5, 723 | 138, 267 | 671, 600 | 907, 493 | 4, 440, 229 | 2, 861, 136 | 14, 249 | 12, 070 | 125 | 27 | ..... | 1, 427 | 672 | | |
| 23, 010 | 6, 102 | 69, 755 | 85 | 1, 590 | 7, 542 | 15, 281 | 32, 358 | 272, 221 | 224, 582 | 1, 258 | 60 | 75 | ..... | ..... | 1, 133 | ..... |  |  |
| 820, 353 | 153, 305 | 2, 226, 295 | 2, 865 | 23, 603 | 464, 795 | 968, 532 | 1, 645, 986 | 10, 033, 263 | 7, 578, 745 | 41, 110 | 16, 095 | 2, 185 | 27 | 30 | 22, 773 | 1, 278 | | |
| 307, 030 | 84, 963 | 868, 498 | 14, 501 | 9, 657 | 118, 709 | 668, 170 | 745, 125 | 4, 089, 390 | 2, 076, 035 | 12, 075 | 10, 268 | 145 | 62 | ..... | 1, 600 | 376 | | |
| 157, 449 | 46, 356 | 539, 271 | 3, 029 | 5, 675 | 56, 446 | 180, 727 | 345, 750 | 1, 841, 012 | 1, 803, 535 | 6, 859 | 4, 140 | ..... | 445 | ..... | 1, 274 | 371 | | |
| 200, 887 | 46, 304 | 937, 639 | 450 | 4, 875 | 121, 461 | 416, 531 | 702, 497 | 3, 509, 107 | 2, 390, 079 | 10, 506 | 13, 400 | 50 | 1, 162 | 185 | 1, 700 | 607 | | |
| 180, 038 | 44, 180 | 602, 432 | 3, 015 | 10, 319 | 66, 163 | 338, 513 | 575, 381 | 2, 689, 130 | 1, 775, 236 | 12, 548 | 10, 706 | 187 | 440 | 3 | 1, 212 | 506 | | |
| 281, 494 | 73, 401 | 783, 099 | 9, 523 | 2, 330 | 170, 966 | 538, 073 | 784, 574 | 3, 900, 334 | 2, 097, 687 | 14, 730 | 12, 120 | 160 | 320 | 50 | 2, 080 | 1, 544 | | |
| 99, 136 | 40, 338 | 708, 752 | ..... | 3, 277 | 71, 770 | 402, 305 | 574, 454 | 2, 717, 377 | 1, 740, 018 | 11, 993 | 9, 757 | 40 | 1, 045 | 70 | 481 | 1, 050 | | |
| 22, 956 | 10, 655 | 201, 347 | ..... | 9, 829 | 49, 694 | 80, 906 | 152, 086 | 745, 098 | 592, 106 | 3, 995 | 3, 540 | 108 | 176 | 150 | 21 | 759 | | |
| 153, 121 | 80, 101 | 1, 180, 323 | ..... | ..... | 81, 290 | 462, 670 | 907, 493 | 2, 821, 688 | 2, 104, 252 | 8, 137 | 1, 328 | ..... | ..... | ..... | 6, 809 | 3 | | |
| 25, 740 | 11, 115 | 90, 034 | ..... | ..... | 22, 190 | 34, 657 | 55, 194 | 333, 078 | 243, 227 | 1, 671 | ..... | ..... | ..... | ..... | 1, 571 | ..... |  |  |
| 89, 631 | 25, 609 | 371, 546 | 100 | 2, 039 | 61, 042 | 219, 950 | 348, 935 | 1, 615, 223 | 946, 338 | 6, 208 | 5, 750 | ..... | 150 | ..... | 389 | 129 | | |
| 361, 527 | 92, 033 | 1, 426, 044 | 7, 010 | 36, 840 | 242, 273 | 684, 972 | 1, 423, 021 | 6, 504, 840 | 4, 306, 847 | 29, 116 | 24, 486 | 785 | 529 | ..... | 3, 315 | 1, 504 | | |
| 3, 000 | 2, 706 | 24, 270 | ..... | 1, 556 | 1, 113 | 3, 661 | 13, 465 | 58, 662 | 38, 596 | 264 | 20 | ..... | ..... | ..... | 244 | ..... |  |  |
| 38, 405 | 24, 135 | 342, 153 | 4, 100 | 5, 846 | 19, 900 | 79, 548 | 250, 570 | 947, 238 | 617, 168 | 4, 238 | 1, 467 | ..... | 690 | 65 | 2, 016 | 191 | | |
| 243, 141 | 48, 955 | 1, 032, 529 | 5, 870 | 2, 300 | 106, 270 | 440, 000 | 903, 241 | 4, 550, 965 | 3, 207, 724 | 14, 454 | 12, 145 | 700 | 679 | 90 | 750 | 722 | | |
| 18, 838 | 5, 414 | 123, 999 | ..... | 12, 581 | 19, 425 | 83, 911 | 107, 089 | 468, 474 | 277, 474 | 2, 269 | 1, 389 | ..... | 186 | 20 | 665 | 104 | | |
| 673, 572 | 183, 748 | 2, 909, 561 | 50, 899 | 256, 714 | 541, 810 | 1, 283, 892 | 2, 593, 800 | 13, 308, 590 | 9, 430, 898 | 54, 531 | 26, 040 | 634 | 2, 510 | ..... | 25, 338 | 2, 789 | | |
| 163, 026 | 49, 025 | 646, 201 | 5, 403 | 15, 588 | 76, 097 | 322, 201 | 458, 941 | 2, 395, 122 | 1, 603, 680 | 7, 415 | 6, 249 | 175 | 132 | 85 | 774 | 253 | | |
| 516, 357 | 237, 438 | 2, 617, 976 | 3, 800 | 14, 067 | 272, 991 | 1, 394, 055 | 1, 504, 006 | 10, 208, 061 | 7, 310, 000 | 34, 930 | 26, 474 | 795 | 841 | ..... | 6, 820 | 1, 019 | | |
| 257, 928 | 78, 322 | 944, 215 | 4, 496 | 4, 125 | 168, 141 | 379, 480 | 604, 580 | 3, 574, 431 | 2, 530, 356 | 18, 304 | 14, 280 | 725 | 2, 201 | ..... | 1, 128 | 769 | | |
| 45, 922 | 12, 120 | 157, 943 | 555 | 15, 450 | 22, 438 | 20, 927 | 83, 731 | 550, 002 | 451, 344 | 2, 440 | 115 | ..... | ..... | ..... | 195 | 2, 130 | | |
| 593, 307 | 304, 740 | 3, 201, 913 | 33, 547 | 75, 392 | 427, 414 | 1, 879, 957 | 2, 258, 215 | 12, 686, 299 | 8, 548, 127 | 51, 516 | 41, 355 | 306 | 2, 350 | 295 | 7, 210 | 2, 961 | | |
| 1, 600 | 470 | 23, 888 | 300 | 7, 304 | 1, 115 | 17, 411 | 14, 673 | 100, 552 | 68, 468 | ..... | ..... | ..... | 225 | ..... | 4 | ..... |  |  |
| 132, 937 | 44, 032 | 466, 240 | ..... | 3, 004 | 43, 197 | 312, 699 | 399, 969 | 2, 012, 380 | 1, 290, 712 | 8, 954 | 6, 845 | 667 | 376 | ..... | 1, 066 | 224 | | |
| 1, 800 | ..... | 12, 027 | ..... | ..... | 484 | 1, 924 | 8, 963 | 31, 034 | 20, 147 | ..... | ..... | ..... | ..... | ..... | 146 | ..... |  |  |
| 194, 783 | 98, 067 | 887, 257 | 1, 247 | 4, 677 | 109, 353 | 537, 912 | 615, 748 | 3, 774, 291 | 2, 620, 633 | 11, 087 | 10, 650 | 20 | 24 | 80 | 313 | 416 | | |
| 675, 413 | 309, 083 | 2, 222, 930 | 59, 519 | 18, 788 | 442, 743 | 1, 250, 185 | 1, 894, 730 | 9, 811, 061 | 6, 066, 146 | 55, 879 | 42, 694 | 1, 933 | 5, 064 | 210 | 5, 378 | 2, 763 | | |
| 7, 600 | 3, 400 | 124, 260 | 240 | 664 | 12, 134 | 23, 751 | 65, 584 | 305, 855 | 306, 520 | 2, 152 | 1, 480 | 153 | ..... | 57 | 402 | 40 | | |
| 243, 817 | 72, 883 | 975, 667 | 6, 996 | 54, 502 | 161, 183 | 458, 512 | 739, 599 | 3, 964, 639 | 2, 766, 553 | 18, 670 | 14, 875 | 414 | 997 | 275 | 2, 109 | 393 | | |
| 57, 862 | 16, 874 | 271, 390 | ..... | 9, 031 | 37, 270 | 70, 495 | 109, 842 | 810, 065 | 639, 827 | 4, 318 | 724 | ..... | 45 | ..... | 3, 549 | 90 | | |
| 89, 365 | 27, 676 | 419, 867 | 375 | 360 | 53, 033 | 244, 319 | 238, 922 | 1, 514, 801 | 1, 031, 560 | 8, 100 | 6, 344 | 295 | 450 | 25 | 988 | 120 | | |
| 24, 592 | 3, 294 | 71, 339 | ..... | 560 | 4, 969 | 17, 749 | 60, 753 | 222, 652 | 144, 145 | 869 | 690 | ..... | 103 | ..... | 73 | 75 | | |

* Same number reported for one or more other months.

* None reported for one or more other months.

* All other states embrace: Maine, 2 establishments; Nevada, 2; North Dakota, 1; Wisconsin, 1; and Wyoming, 1.

MUSICAL INSTRUMENTS.

SUMMARY AND ANALYSIS.

Scope of the report.—This report presents statistics for the manufacture of (1) pianos, organs, and piano and organ materials; (2) musical instruments and materials not specified; and (3) phonographs, graphophones, and talking machines. The products of the establishments assigned to these three classes are so dissimilar that a combination of the three would have little, if any, significance. For this reason each class is treated in a separate section. The manufacture of phonographs has so increased as to make it the most

important of the three industries with regard to the value of products.

Table 1 presents combined statistics for five classes of establishments engaged in the manufacture of pianos; organs; piano and organ materials; metal and stringed instruments and materials; and phonographs, graphophones, and talking machines for the census years from 1849 to 1919, inclusive. This is the only table showing combined statistics for the five industries.

TABLE 1.—COMPARATIVE SUMMARY FOR THE COMBINED INDUSTRY: 1849-1919.

| CENSUS YEAR. | MUSICAL INSTRUMENTS AND MATERIALS. | | | | | | | |
|-------------------------|------------------------------------|--------------------------------|---------------------|---------------|--------------|--------------------|--------------------|-----------------------------|
| | Number of establishments. | Wage earners (average number). | Primary horsepower. | Capital. | Wages. | Cost of materials. | Value of products. | Value added by manufacture. |
| 1919..... | 778 | 68,741 | 91,258 | \$268,318,333 | \$75,867,659 | \$137,459,827 | \$320,005,140 | \$183,445,322 |
| 1914..... | 737 | 48,768 | 57,002 | 168,618,245 | 30,854,658 | 49,323,415 | 119,688,728 | 70,365,313 |
| 1909..... | 712 | 45,041 | 49,417 | 120,895,331 | 26,594,346 | 47,753,728 | 104,743,048 | 56,980,920 |
| 1904..... | 639 | 38,617 | 34,250 | 80,965,997 | 21,373,049 | 33,277,702 | 79,811,415 | 46,533,713 |
| 1899..... | 630 | 24,081 | 23,288 | 51,054,864 | 13,383,392 | 19,403,551 | 46,665,252 | 27,261,761 |
| 1889 ¹ | 674 | 18,006 | 11,788 | 29,650,489 | 11,048,648 | 14,436,163 | 36,868,160 | 22,432,066 |
| 1879..... | 420 | 11,350 | (²) | 14,446,705 | 7,098,704 | 8,361,227 | 19,254,730 | 10,803,512 |
| 1869..... | 337 | 7,167 | 2,018 | 9,554,761 | 5,107,291 | 4,834,552 | 13,005,908 | 9,071,366 |
| 1859..... | 248 | 4,758 | (²) | 4,622,000 | 2,520,788 | 2,325,209 | 6,067,718 | 4,642,509 |
| 1849..... | 204 | 2,331 | (²) | 1,545,935 | 1,054,728 | 698,167 | 2,580,715 | 1,882,548 |

¹ Exclusive of 2 establishments manufacturing phonographs and graphophones (1 in Connecticut and 1 in New York).

² Figures not available.

PIANOS AND ORGANS AND MATERIALS.

GENERAL STATISTICS.

General character of the industry.—This section covers the manufacture of pianos, organs, and piano and organ materials. The piano branch of the industry includes establishments making chiefly upright and grand pianos, with or without player attachments; the organ branch includes establishments whose chief products are pipe and reed organs and orchestrions; and the branch manufacturing materials includes those establishments making primarily piano actions, back frames, cases, hammers, keys, keyboards, pedal attachments, plates and strings, organ reeds, pipes, stops, etc., perforated music rolls, sounding boards, and piano and organ hardware.

Importance and growth of the industry.—Table 2 summarizes the more important figures relative to the combined industry and to each of the three branches for the census years 1904 to 1919, inclusive, giving the percentages of increase or decrease.

In the industry as a whole, increases are noticeable for the five-year period 1914–1919, except for persons engaged in the industry, each class of which showed a decrease. The relatively large increases, however, in salaries and wages, cost of materials, and value of products are due largely to a general rise in prices and wages following the World War, and do not therefore fairly measure the growth of the industry. The increase in primary horsepower is a truer index of actual conditions. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes." Contract work, or work performed by employees other than those in the plants reporting, has little significance since it represents merely the methods of manufacture used by establishments, which vary from year to year. The piano branch of the industry, the value of products of which formed, in 1919, 71.5 per cent of the total, as compared with 70.6 per cent in 1914, 74.1 per cent in 1909, and 71 per cent in 1904, kept pace with the general increase shown by the industry as a whole. Organs, however, showed a consistent decrease, due probably to the increasing popularity of the phonograph. In 1919 organs formed 4 per cent of the total value of products of the industry, as against 7.1 per cent in 1914, 5.3 per cent in 1909, and 9.1 per cent in 1904. The third branch of the industry, piano and organ materials, showed increases in every item except number of establishments and contract work. A segregation of the detail for this branch is shown in Table 3, giving

statistics for those establishments making piano materials and for those manufacturing organ materials.

States, ranked by value of products.—New York, as shown by Table 4, which presents data for the industry as a whole, is the leading state in production of pianos and organs, followed by Illinois; these two states held the same position in the census of 1914. Although 25 states reported establishments in this industry, 8 states—New York, Illinois, Massachusetts, Connecticut, Indiana, Ohio, Michigan, and New Jersey in the order named—reported 89.9 per cent of the total value of products and employed 89.4 per cent of the total number of wage earners.

Persons engaged in the industry.—Table 5 shows for 1919, 1914, and 1909 for the industry combined and for its three branches separately the number of persons engaged, distributed by sex, and the average number of wage earners, distributed also by age. The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age, the age classification being an estimate obtained by the method described in the "Explanation of terms." Figures for states will be found in Table 17.

Wage earners, by months.—The statistics for wage earners in Table 6 show the regularity of employment, or the reverse, in accordance with the existing industrial conditions during the census year. The table presents statistics for the combined industry, also for each branch separately. Figures for the principal states are shown where possible, while for the United States the number of males and females is also shown. The number of wage earners employed in the industry as a whole ranged from a maximum of 38,426 in August to a minimum of 32,458 in January, the minimum number being equivalent to 84.5 per cent of the maximum.

Prevailing hours of labor.—Table 7 shows a marked shortening of the working day for the industry since 1914. In that year only 18.7 per cent of the total wage earners of the industry as a whole were reported as employed fewer than 54 hours per week as against 75.3 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 10.9 per cent of the total, as compared with 2.8 per cent in 1919. In the piano industry 82.2 per cent of the wage earners worked fewer than 54 hours per week in 1919, as against 17.9 per cent in 1914. The organ industry in 1919 showed 46.4 per cent of its wage earners working 54

hours or less, as against 9.8 per cent in 1914. The material branch of the industry showed 66 per cent of its wage earners working fewer than 54 hours per week in 1919, as against 23 per cent in 1914. In the groups "60" and "Over 60" the percentages of wage earners for the three branches were, pianos, 2.1 per cent; organs, 16.5 per cent; and materials, 1.8 per cent in 1919, compared with 9.4 per cent, 30.5 per cent, and 8.6 per cent, respectively, in 1914.

Size of establishments, by average number of wage earners.—Analysis of Table 8 discloses the significant fact that, in 1919, 66 establishments, or 17.7 per cent of the total number for the industry, employed fewer than 6 wage earners each, while only 152, or two-fifths of 1 per cent of the total number of wage earners, were employed therein, evidencing the predominance of the small establishments based on the average number of wage earners. On the other hand, the classes "501 to 1,000" and "Over 1,000" wage earners, comprising only 10 establishments, employed 6,498 wage earners, or 18.1 per cent of the total average number, illustrating the extent of manufacturing operations in a few large establishments.

The conditions cited above were reflected in the piano branch of the industry, wherein the 7 largest establishments employed 4,899, or 21.3 per cent of the total number of wage earners reported for this branch. Thirteen establishments employed fewer than 6 wage earners each, 34 persons, or less than one-fifth of 1 per cent, being employed therein. A good proportion of the establishments in the organ branch were small ones, 28 of which employed only 62 wage earners altogether; 11 establishments, classified in the groups "51 to 100" and "101 to 250," employed 1,127, or 58.1 per cent of the total. Approximately the same conditions prevailed in the establishments making materials, 25 establishments, employing fewer than 6 wage earners each, reported only 56 persons employed, this number being one-half of 1 per cent of the total number of wage earners. There were no establishments reporting over 1,000 wage earners, but the

classes "251 to 500" and "501 to 1,000" embraced 16 factories employing 6,376, or 57.9 per cent of the total.

Size of establishments, by value of products.—At the censuses of 1909 and 1914, establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into groups of "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns of 1914. Table 9, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of the average number of wage earners and value added by manufacture for 1914. The statistics in the table are presented only for the industry as a whole, and bring out the degree of concentration of production in large establishments. In the two highest groups, 102 establishments, or 27.4 per cent of the total number for the industry, employed 26,601 wage earners, or 74.1 per cent of the total average number, and reported products to the value of \$111,405,568, or 74.3 per cent of the total value.

Character of ownership.—Table 10 emphasizes the predominance of the corporate form of ownership. Corporations owned 75.5 per cent of the number of establishments in 1919, employed 94.8 per cent of the wage earners, and reported 95 per cent of the total value of products.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 11, there was an increase in total horsepower for the combined industry of 7.8 per cent. The organ branch of the industry showed a decrease in proportion of owned power used, from 54.3 per cent in 1914 to 47.6 per cent in 1919.

Fuel consumed.—Table 12 shows the principal kinds of fuel used for the industry in 1919 and 1914 and also gives separately the amount consumed in the states requiring considerable quantities of fuel for manufacturing purposes. Of the fuel consumed, New York reported 59.4 per cent of the total amount of anthracite in 1919, Illinois, 37.7 per cent of the bituminous coal, and Ohio, 35.7 per cent of the gas.

PIANOS AND ORGANS AND MATERIALS.

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TABLE 2.—PIANOS, ORGANS, AND MATERIALS—COMPARATIVE SUMMARY: 1919, 1914, 1909, AND 1904.

| | 1919 | 1914 | 1909 | 1904 | PER CENT OF INCREASE. ¹ | | |
|--|---------------|---------------|---------------|--------------|------------------------------------|-----------|-----------|
| | | | | | 1914-1919 | 1909-1914 | 1904-1909 |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | |
| Number of establishments..... | 372 | 478 | 507 | 444 | -22.2 | -5.7 | 14.2 |
| Persons engaged..... | 39,931 | 41,723 | 41,882 | 30,106 | -4.3 | -0.4 | 16.0 |
| Proprietors and firm members..... | 127 | 221 | 297 | 803 | -42.5 | -25.6 | -2.0 |
| Salaried employees..... | 3,897 | 3,046 | 3,565 | 2,722 | -1.2 | 10.7 | 31.0 |
| Wage earners (average number)..... | 36,907 | 37,555 | 38,020 | 38,081 | -4.4 | -1.2 | 14.9 |
| Primary horsepower..... | 47,804 | 44,849 | 41,623 | 30,134 | 7.8 | 6.5 | 38.1 |
| Capital..... | \$155,200,792 | \$130,989,794 | \$103,234,301 | \$68,481,910 | 18.5 | 26.9 | 50.7 |
| Salaries and wages..... | 45,833,617 | 29,835,273 | 23,313,754 | 22,255,008 | 57.1 | 5.4 | 27.2 |
| Salaries..... | 8,963,702 | 6,482,625 | 5,552,186 | 3,727,930 | 38.3 | 16.8 | 48.9 |
| Wages..... | 37,919,855 | 23,352,651 | 22,761,568 | 18,527,078 | 62.4 | 2.6 | 22.9 |
| Paid for contract work..... | 69,618 | 310,198 | 292,907 | 340,880 | -77.6 | 5.9 | -14.1 |
| Rent and taxes (including internal revenue)..... | 4,955,530 | 1,772,396 | 1,331,324 | * 875,430 | 170.6 | 33.1 | ..... |
| Cost of materials..... | 73,274,893 | 41,252,791 | 43,704,737 | 27,986,627 | 77.0 | -5.7 | 55.4 |
| Value of products..... | 149,850,945 | 88,948,145 | 89,789,514 | 60,092,630 | 68.5 | -0.9 | 35.8 |
| Value added by manufacture ² | 70,576,052 | 47,695,354 | 40,024,807 | 38,106,003 | 60.0 | 3.6 | 20.8 |
| PIANOS. | | | | | | | |
| Number of establishments..... | 191 | 255 | 294 | 240 | -25.1 | -13.3 | 18.1 |
| Persons engaged..... | 25,760 | 26,828 | 28,415 | 23,207 | -4.0 | -5.6 | 22.4 |
| Proprietors and firm members..... | 33 | 85 | 120 | 137 | ..... | -32.5 | -8.0 |
| Salaried employees..... | 2,770 | 2,866 | 2,792 | 2,068 | -3.3 | 2.7 | 35.0 |
| Wage earners (average number)..... | 22,957 | 23,877 | 25,497 | 21,002 | -3.0 | -6.4 | 21.4 |
| Primary horsepower..... | 28,732 | 25,081 | 23,246 | 17,467 | 10.6 | 11.8 | 33.1 |
| Capital..... | \$110,100,536 | \$101,740,424 | \$81,544,094 | \$49,649,135 | 14.1 | 24.8 | 64.2 |
| Salaries and wages..... | 31,871,896 | 20,414,519 | 20,192,875 | 15,016,936 | 56.1 | 1.1 | 34.5 |
| Salaries..... | 6,397,666 | 4,709,840 | 4,455,688 | 2,846,685 | 35.8 | 5.7 | 56.5 |
| Wages..... | 25,474,200 | 15,704,679 | 15,737,277 | 12,170,251 | 62.2 | -0.2 | 29.3 |
| Paid for contract work..... | 27,640 | 276,470 | 217,604 | 294,189 | -00.0 | 27.1 | -26.0 |
| Rent and taxes (including internal revenue)..... | 3,620,088 | 1,232,676 | 1,063,707 | * 602,268 | 180.0 | 21.5 | ..... |
| Cost of materials..... | 54,364,660 | 29,001,046 | 32,818,770 | 19,687,770 | 86.9 | -11.4 | 67.5 |
| Value of products..... | 107,088,050 | 62,776,036 | 66,566,273 | 46,922,471 | 70.6 | -5.7 | 41.9 |
| Value added by manufacture ² | 52,723,394 | 33,683,990 | 33,750,503 | 27,334,701 | 66.5 | -0.2 | 23.5 |
| ORGANS. | | | | | | | |
| Number of establishments..... | 68 | 85 | 86 | 94 | ..... | ..... | ..... |
| Persons engaged..... | 2,285 | 3,518 | 2,754 | 4,033 | -35.0 | 27.7 | -31.7 |
| Proprietors and firm members..... | 60 | 74 | 83 | 87 | ..... | ..... | ..... |
| Salaried employees..... | 283 | 381 | 288 | 323 | -24.4 | 32.3 | -10.8 |
| Wage earners (average number)..... | 1,941 | 3,063 | 2,383 | 3,623 | -30.6 | 28.5 | -34.2 |
| Primary horsepower..... | 3,251 | 3,696 | 3,334 | 4,085 | -11.3 | 10.0 | -18.4 |
| Capital..... | \$6,770,587 | \$8,042,405 | \$4,553,609 | \$7,203,878 | -15.8 | 70.6 | -30.8 |
| Salaries and wages..... | 2,592,190 | 2,617,194 | 1,777,649 | 2,406,921 | -0.6 | 41.0 | -26.1 |
| Salaries..... | 523,672 | 523,779 | 349,008 | 372,362 | (¹) | 50.1 | -6.3 |
| Wages..... | 1,978,518 | 1,093,416 | 1,428,641 | 2,034,559 | -0.7 | 39.5 | -29.8 |
| Paid for contract work..... | 26,806 | 12,444 | 36,950 | 18,038 | 115.4 | -66.3 | 104.9 |
| Rent and taxes (including internal revenue)..... | 118,443 | 68,031 | 52,288 | * 75,339 | 74.1 | 30.2 | ..... |
| Cost of materials..... | 2,217,097 | 2,659,980 | 1,722,923 | 2,068,638 | -16.6 | 54.4 | -16.7 |
| Value of products..... | 5,973,208 | 6,297,348 | 4,745,655 | 6,041,844 | -5.1 | 32.7 | -21.5 |
| Value added by manufacture ² | 3,750,171 | 3,637,308 | 3,022,732 | 3,973,206 | 3.3 | 20.3 | -23.9 |
| PIANO AND ORGAN MATERIALS | | | | | | | |
| Number of establishments..... | 113 | 138 | 127 | 101 | -18.1 | 8.7 | 25.7 |
| Persons engaged..... | 11,886 | 11,377 | 10,713 | 8,866 | 4.5 | 6.2 | 20.8 |
| Proprietors and firm members..... | 38 | 62 | 88 | 79 | ..... | ..... | ..... |
| Salaried employees..... | 830 | 699 | 485 | 331 | 20.0 | 44.1 | 46.5 |
| Wage earners (average number)..... | 11,009 | 10,618 | 10,140 | 8,456 | 3.7 | 4.7 | 19.9 |
| Primary horsepower..... | 15,821 | 14,702 | 15,043 | 8,582 | 7.6 | -2.3 | 75.3 |
| Capital..... | \$32,323,609 | \$21,200,965 | \$17,130,698 | \$11,628,897 | 52.5 | 23.7 | 47.4 |
| Salaries and wages..... | 12,509,661 | 6,908,563 | 6,343,230 | 4,831,151 | 81.2 | 8.8 | 31.3 |
| Salaries..... | 2,042,424 | 1,249,003 | 747,680 | 508,883 | 63.5 | 67.1 | 46.9 |
| Wages..... | 10,467,137 | 5,654,567 | 5,595,650 | 4,322,268 | 85.1 | 1.1 | 29.5 |
| Paid for contract work..... | 15,172 | 21,234 | 38,344 | 28,653 | -28.7 | -44.5 | 33.8 |
| Rent and taxes (including internal revenue)..... | 1,210,999 | 411,680 | 215,349 | * 187,823 | 195.6 | 91.2 | ..... |
| Cost of materials..... | 16,693,140 | 9,501,766 | 9,223,044 | 6,380,219 | 75.7 | 3.0 | 45.7 |
| Value of products..... | 36,789,627 | 19,875,762 | 18,474,816 | 13,128,315 | 85.1 | 7.6 | 40.7 |
| Value added by manufacture ² | 20,096,487 | 10,378,996 | 9,251,672 | 6,798,096 | 93.7 | 12.1 | 36.1 |

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.
² Exclusive of internal revenue.

* Value of products less cost of materials
¹ Less than one-tenth of 1 per cent.

TABLE 3.—PIANO MATERIALS AND ORGAN MATERIALS—SUMMARY: 1919.

| | Total. | ESTABLISHMENTS MANUFACTURING PRINCIPALLY— | | | Total. | ESTABLISHMENTS MANUFACTURING PRINCIPALLY— | |
|-------------------------------|--------------|---|------------------|---------------------------------|--------------|---|------------------|
| | | Piano materials. | Organ materials. | | | Piano materials. | Organ materials. |
| Number of establishments..... | 113 | 97 | 16 | Cost of materials..... | \$16,693,140 | \$16,329,129 | \$364,011 |
| Wage earners..... | 11,009 | 10,769 | 240 | Value of products..... | 36,789,627 | 35,959,944 | 829,683 |
| Capital..... | \$32,323,609 | \$31,769,045 | \$554,624 | Value added by manufacture..... | 20,096,487 | 19,627,815 | 468,672 |
| Wages..... | 10,467,137 | 10,231,122 | 236,015 | | | | |

MANUFACTURES.

TABLE 4.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Number of establishments. | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | | STATE. | Number of establishments. | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|--------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States. | 372 | 35,907 | 100.0 | .... | \$149,851 | 100.0 | .... | \$76,576 | 100.0 | ... | Pennsylvania..... | 23 | 972 | 2.7 | 9 | \$3,798 | 2.5 | 9 | \$1,641 | 2.1 | 9 |
| New York..... | 131 | 11,317 | 31.5 | 1 | 52,231 | 34.9 | 1 | 23,596 | 30.8 | 1 | Maryland..... | 7 | 720 | 2.0 | 10 | 2,670 | 1.8 | 11 | 1,824 | 2.1 | 10 |
| Illinois..... | 52 | 8,575 | 23.9 | 2 | 36,255 | 24.2 | 2 | 20,717 | 27.1 | 2 | Vermont..... | 3 | 444 | 1.2 | 12 | 1,423 | 0.9 | 13 | 823 | 1.1 | 12 |
| Massachusetts..... | 40 | 3,950 | 11.0 | 3 | 13,342 | 8.9 | 3 | 7,535 | 9.8 | 3 | Minnesota..... | 3 | 76 | 0.2 | 18 | 427 | 0.3 | 16 | 255 | 0.3 | 15 |
| Ohio..... | 22 | 1,820 | 5.1 | 5 | 6,707 | 4.5 | 6 | 3,643 | 4.8 | 6 | California..... | 5 | 94 | 0.3 | 15 | 321 | 0.2 | 17 | 171 | 0.2 | 16 |
| Michigan..... | 11 | 1,305 | 3.6 | 8 | 6,098 | 4.1 | 7 | 2,910 | 3.8 | 8 | All other states.... | 75 | 6,634 | 18.4 | .... | 26,489 | 17.7 | .... | 13,655 | 17.9 | ... |

TABLE 5.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| INDUSTRY AND CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | INDUSTRY AND CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|--|----------------------|--------|--------|--------------|-----------------------|--------------|--|----------------------|--------|-------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | ORGANS. | | | | | | |
| All classes..... | 1919 | 39,931 | 33,678 | 6,253 | 84.3 | 15.7 | All classes..... | 1919 | 2,285 | 1,978 | 307 | 86.6 | 13.4 |
| | 1914 | 41,723 | 38,115 | 3,608 | 91.4 | 8.6 | | 1914 | 3,518 | 3,233 | 285 | 91.9 | 8.1 |
| | 1909 | 41,882 | 39,005 | 2,877 | 93.1 | 6.9 | | 1909 | 2,754 | 2,592 | 162 | 94.1 | 5.9 |
| Proprietors and officials..... | 1919 | 1,412 | 1,347 | 65 | 95.4 | 4.6 | Proprietors and officials..... | 1919 | 177 | 170 | 7 | 96.0 | 4.0 |
| | 1914 | 1,357 | 1,317 | 40 | 97.1 | 2.9 | | 1914 | 198 | 194 | 4 | 98.0 | 2.0 |
| | 1909 | 1,378 | 1,340 | 38 | 97.2 | 2.8 | | 1909 | 175 | 168 | 7 | 99.0 | 4.0 |
| Proprietors and firm members... | 1919 | 127 | 121 | 6 | 95.3 | 4.7 | Proprietors and firm members... | 1919 | 56 | 56 | .... | 100.0 | .... |
| | 1914 | 221 | 217 | 4 | 98.2 | 1.8 | | 1914 | 74 | 72 | 2 | 97.3 | 2.7 |
| | 1909 | 297 | 285 | 12 | 96.0 | 4.0 | | 1909 | 83 | 78 | 5 | 94.0 | 6.0 |
| Salaried officers of corporations... | 1919 | 595 | 556 | 39 | 93.4 | 6.6 | Salaried officers of corporations... | 1919 | 60 | 54 | 6 | 90.0 | 10.0 |
| | 1914 | 613 | 582 | 31 | 94.9 | 5.1 | | 1914 | 61 | 59 | 2 | 96.7 | 3.3 |
| | 1909 | 546 | 524 | 22 | 96.0 | 4.0 | | 1909 | 42 | 40 | 2 | 95.2 | 4.8 |
| Superintendents and managers... | 1919 | 690 | 670 | 20 | 97.1 | 2.9 | Superintendents and managers... | 1919 | 61 | 60 | 1 | 98.4 | 1.6 |
| | 1914 | 523 | 513 | 5 | 99.0 | 1.0 | | 1914 | 63 | 63 | .... | 100.0 | .... |
| | 1909 | 535 | 531 | 4 | 99.3 | 0.7 | | 1909 | 50 | 50 | .... | 100.0 | .... |
| Clerks and other subordinate salaried employees. | 1919 | 2,612 | 1,482 | 1,130 | 56.7 | 43.3 | Clerks and other subordinate salaried employees. | 1919 | 167 | 84 | 83 | 50.3 | 49.7 |
| | 1914 | 2,810 | 1,825 | 985 | 64.9 | 35.1 | | 1914 | 257 | 131 | 126 | 51.0 | 49.0 |
| | 1909 | 2,484 | 1,788 | 696 | 72.0 | 28.0 | | 1909 | 196 | 127 | 69 | 64.8 | 35.2 |
| Wage earners (average number)..... | 1919 | 35,907 | 30,849 | 5,058 | 85.9 | 14.1 | Wage earners (average number)..... | 1919 | 1,041 | 1,724 | 217 | 88.8 | 11.2 |
| | 1914 | 37,556 | 34,973 | 2,583 | 93.1 | 6.9 | | 1914 | 3,063 | 2,908 | 155 | 94.9 | 5.1 |
| | 1909 | 38,020 | 35,877 | 2,143 | 94.4 | 5.6 | | 1909 | 2,383 | 2,297 | 86 | 96.4 | 3.6 |
| 16 years of age and over..... | 1919 | 35,310 | 30,416 | 4,894 | 86.1 | 13.9 | 16 years of age and over..... | 1919 | 1,899 | 1,687 | 212 | 88.8 | 11.2 |
| | 1914 | 37,198 | 34,645 | 2,553 | 93.1 | 6.9 | | 1914 | 3,045 | 2,892 | 153 | 95.0 | 5.0 |
| | 1909 | 37,316 | 35,840 | 1,476 | 94.7 | 5.3 | | 1909 | 2,366 | 2,280 | 86 | 96.4 | 3.6 |
| Under 16 years of age..... | 1919 | 597 | 433 | 164 | 72.5 | 27.5 | Under 16 years of age..... | 1919 | 42 | 37 | 5 | 88.1 | 11.9 |
| | 1914 | 358 | 328 | 30 | 91.6 | 8.4 | | 1914 | 18 | 16 | 2 | 88.9 | 11.1 |
| | 1909 | 704 | 537 | 167 | 76.3 | 23.7 | | 1909 | 17 | 17 | .... | 100.0 | .... |
| PIANOS. | | | | | | | PIANO AND ORGAN MATERIALS. | | | | | | |
| All classes..... | 1919 | 25,760 | 22,051 | 2,809 | 89.1 | 10.9 | All classes..... | 1919 | 11,880 | 8,749 | 3,137 | 73.6 | 26.4 |
| | 1914 | 26,828 | 25,320 | 1,508 | 94.4 | 5.6 | | 1914 | 11,377 | 9,562 | 1,815 | 84.0 | 16.0 |
| | 1909 | 28,415 | 27,222 | 1,193 | 95.8 | 4.2 | | 1909 | 10,713 | 9,191 | 1,522 | 85.8 | 14.2 |
| Proprietors and officials..... | 1919 | 836 | 805 | 31 | 96.3 | 3.7 | Proprietors and officials..... | 1919 | 399 | 372 | 27 | 93.2 | 6.8 |
| | 1914 | 795 | 775 | 20 | 97.5 | 2.5 | | 1914 | 364 | 348 | 16 | 95.6 | 4.4 |
| | 1909 | 907 | 886 | 21 | 97.7 | 2.3 | | 1909 | 296 | 286 | 10 | 96.6 | 3.4 |
| Proprietors and firm members... | 1919 | 33 | 30 | 3 | 90.9 | 9.1 | Proprietors and firm members... | 1919 | 38 | 35 | 3 | 92.1 | 7.9 |
| | 1914 | 85 | 84 | 1 | 98.8 | 1.2 | | 1914 | 62 | 61 | 1 | 98.4 | 1.6 |
| | 1909 | 126 | 121 | 5 | 96.0 | 4.0 | | 1909 | 88 | 86 | 2 | 97.7 | 2.3 |
| Salaried officers of corporations... | 1919 | 382 | 362 | 20 | 94.8 | 5.2 | Salaried officers of corporations... | 1919 | 153 | 140 | 13 | 91.5 | 8.5 |
| | 1914 | 397 | 379 | 18 | 95.5 | 4.5 | | 1914 | 155 | 144 | 11 | 92.9 | 7.1 |
| | 1909 | 397 | 385 | 12 | 97.0 | 3.0 | | 1909 | 107 | 99 | 8 | 92.5 | 7.5 |
| Superintendents and managers... | 1919 | 421 | 413 | 8 | 98.1 | 1.9 | Superintendents and managers... | 1919 | 208 | 197 | 11 | 94.7 | 5.3 |
| | 1914 | 313 | 312 | 1 | 99.7 | 0.3 | | 1914 | 147 | 143 | 4 | 97.3 | 2.7 |
| | 1909 | 384 | 380 | 4 | 99.0 | 1.0 | | 1909 | 101 | 101 | .... | 100.0 | .... |
| Clerks and other subordinate salaried employees. | 1919 | 1,967 | 1,168 | 799 | 59.4 | 40.6 | Clerks and other subordinate salaried employees. | 1919 | 478 | 230 | 248 | 48.1 | 51.9 |
| | 1914 | 2,156 | 1,440 | 707 | 67.2 | 32.8 | | 1914 | 397 | 245 | 152 | 61.7 | 38.3 |
| | 1909 | 2,011 | 1,483 | 528 | 73.7 | 26.3 | | 1909 | 277 | 178 | 99 | 64.3 | 35.7 |
| Wage earners (average number)..... | 1919 | 22,957 | 20,078 | 1,879 | 91.4 | 8.6 | Wage earners (average number)..... | 1919 | 11,009 | 8,147 | 2,862 | 74.0 | 26.0 |
| | 1914 | 23,877 | 23,096 | 781 | 96.7 | 3.3 | | 1914 | 10,618 | 8,909 | 1,647 | 84.5 | 15.5 |
| | 1909 | 25,497 | 24,853 | 644 | 97.5 | 2.5 | | 1909 | 10,140 | 8,727 | 1,413 | 86.1 | 13.9 |
| 16 years of age and over..... | 1919 | 22,613 | 20,709 | 1,904 | 91.6 | 8.4 | 16 years of age and over..... | 1919 | 10,799 | 8,020 | 2,779 | 74.3 | 25.7 |
| | 1914 | 23,674 | 22,907 | 767 | 96.8 | 3.2 | | 1914 | 10,479 | 8,846 | 1,633 | 84.4 | 15.6 |
| | 1909 | 25,146 | 24,530 | 616 | 97.6 | 2.4 | | 1909 | 9,804 | 8,530 | 1,274 | 87.0 | 13.0 |
| Under 16 years of age..... | 1919 | 344 | 269 | 75 | 78.2 | 21.8 | Under 16 years of age..... | 1919 | 210 | 127 | 83 | 60.5 | 39.5 |
| | 1914 | 203 | 189 | 14 | 93.1 | 6.9 | | 1914 | 137 | 123 | 14 | 89.8 | 10.2 |
| | 1909 | 351 | 323 | 28 | 92.0 | 8.0 | | 1909 | 336 | 197 | 139 | 58.6 | 41.4 |

PIANOS AND ORGANS AND MATERIALS.

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TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| INDUSTRY AND STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maximum. |
|----------------------------------|--------------------------------------|---|-----------|--------|--------|--------|--------|--------|---------|------------|----------|-----------|-----------|---------------------------------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 35,907 | 32,453 | 33,952 | 35,138 | 36,175 | 36,386 | 36,950 | 38,013 | 38,426 | 38,361 | 34,134 | 34,550 | 36,330 | 84.5 |
| Males..... | 30,849 | 28,069 | 29,279 | 30,318 | 31,278 | 31,404 | 31,906 | 32,756 | 33,134 | 33,192 | 28,951 | 29,041 | 30,800 | 84.0 |
| Females..... | 5,058 | 4,383 | 4,673 | 4,820 | 4,897 | 4,982 | 5,044 | 5,257 | 5,292 | 5,169 | 5,183 | 5,515 | 5,530 | 79.0 |
| 1914..... | 37,555 | 36,992 | 40,150 | 40,442 | 39,902 | 38,715 | 37,306 | 35,350 | 35,170 | 35,098 | 35,049 | 35,245 | 36,057 | 87.0 |
| 1909..... | 38,020 | 36,900 | 37,241 | 37,530 | 37,079 | 37,096 | 37,455 | 39,269 | 37,238 | 38,522 | 39,752 | 39,978 | 40,011 | 90.6 |
| Illinois..... | 8,575 | 7,873 | 8,050 | 8,290 | 8,444 | 8,482 | 8,511 | 8,653 | 8,797 | 8,783 | 9,045 | 9,007 | 8,965 | 87.0 |
| Maryland..... | 720 | 677 | 691 | 710 | 704 | 721 | 722 | 724 | 727 | 740 | 733 | 747 | 744 | 90.6 |
| Massachusetts..... | 3,950 | 3,584 | 3,484 | 3,685 | 3,823 | 3,951 | 3,956 | 4,072 | 4,098 | 4,172 | 4,218 | 4,292 | 4,315 | 77.3 |
| Michigan..... | 1,305 | 1,147 | 1,141 | 1,136 | 1,154 | 1,182 | 1,144 | 1,335 | 1,420 | 1,421 | 1,488 | 1,548 | 1,594 | 71.0 |
| New York..... | 11,317 | 10,898 | 11,484 | 11,942 | 12,351 | 12,285 | 12,535 | 12,005 | 13,005 | 12,902 | 7,072 | 8,084 | 9,471 | 61.3 |
| Ohio..... | 1,820 | 1,409 | 1,553 | 1,568 | 1,075 | 1,736 | 1,820 | 1,955 | 1,957 | 1,915 | 2,028 | 2,069 | 2,152 | 65.5 |
| Pennsylvania..... | 972 | 824 | 927 | 942 | 947 | 952 | 957 | 983 | 994 | 1,000 | 1,009 | 1,011 | 1,018 | 90.8 |
| PIANOS. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 22,957 | 21,585 | 22,224 | 22,882 | 23,363 | 23,461 | 23,954 | 24,202 | 24,508 | 24,719 | 20,902 | 21,201 | 22,483 | 84.6 |
| Males..... | 20,978 | 19,687 | 20,310 | 20,963 | 21,401 | 21,483 | 21,990 | 22,244 | 22,533 | 22,767 | 18,093 | 19,029 | 20,322 | 83.4 |
| Females..... | 1,979 | 1,898 | 1,905 | 1,919 | 1,962 | 1,978 | 1,964 | 1,958 | 1,975 | 1,952 | 1,904 | 2,172 | 2,161 | 87.4 |
| 1914..... | 23,877 | 25,168 | 25,221 | 25,372 | 25,276 | 24,555 | 23,752 | 22,497 | 22,393 | 22,915 | 23,130 | 23,091 | 23,144 | 88.3 |
| 1909..... | 25,497 | 24,677 | 24,914 | 25,194 | 25,232 | 25,316 | 25,037 | 24,256 | 24,925 | 25,873 | 26,680 | 26,021 | 26,952 | 90.0 |
| Connecticut..... | 608 | 544 | 545 | 564 | 616 | 610 | 605 | 593 | 601 | 628 | 651 | 683 | 655 | 79.6 |
| Illinois..... | 6,991 | 6,417 | 6,530 | 6,730 | 6,862 | 6,863 | 6,946 | 6,988 | 7,122 | 7,222 | 7,439 | 7,377 | 7,366 | 86.3 |
| Indiana..... | 1,432 | 1,160 | 1,184 | 1,197 | 1,246 | 1,318 | 1,425 | 1,511 | 1,554 | 1,556 | 1,578 | 1,672 | 1,783 | 66.1 |
| Maryland..... | 523 | 480 | 494 | 513 | 507 | 524 | 525 | 527 | 530 | 543 | 536 | 551 | 545 | 87.1 |
| Massachusetts..... | 2,228 | 1,885 | 1,952 | 2,060 | 2,107 | 2,276 | 2,283 | 2,338 | 2,301 | 2,342 | 2,349 | 2,389 | 2,394 | 78.7 |
| Michigan..... | 1,122 | 1,065 | 1,055 | 1,048 | 1,033 | 1,038 | 1,051 | 1,066 | 1,136 | 1,174 | 1,212 | 1,268 | 1,288 | 80.6 |
| New Jersey..... | 713 | 689 | 725 | 794 | 800 | 788 | 826 | 727 | 704 | 657 | 652 | 544 | 641 | 65.9 |
| New York..... | 6,008 | 7,229 | 7,510 | 7,734 | 7,817 | 7,707 | 7,924 | 7,994 | 8,048 | 8,050 | 8,322 | 4,021 | 5,040 | 47.5 |
| Ohio..... | 787 | 595 | 645 | 635 | 663 | 683 | 763 | 835 | 885 | 877 | 936 | 948 | 979 | 60.8 |
| Pennsylvania..... | 774 | 747 | 753 | 757 | 758 | 764 | 761 | 784 | 788 | 790 | 795 | 797 | 794 | 93.7 |
| ORGANS. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 1,941 | 1,770 | 1,814 | 1,854 | 1,909 | 1,941 | 1,951 | 2,000 | 1,961 | 1,937 | 2,005 | 2,039 | 2,111 | 83.8 |
| Males..... | 1,724 | 1,587 | 1,616 | 1,651 | 1,695 | 1,716 | 1,722 | 1,770 | 1,747 | 1,723 | 1,776 | 1,808 | 1,877 | 84.5 |
| Females..... | 217 | 183 | 198 | 203 | 214 | 225 | 229 | 230 | 214 | 214 | 229 | 231 | 234 | 78.2 |
| 1914..... | 3,063 | 3,191 | 3,217 | 3,231 | 3,194 | 3,115 | 3,103 | 3,077 | 2,994 | 2,918 | 2,920 | 2,866 | 2,630 | 88.7 |
| 1909..... | 2,383 | 2,400 | 2,391 | 2,361 | 2,366 | 2,394 | 2,333 | 2,379 | 2,356 | 2,358 | 2,383 | 2,418 | 2,460 | 95.0 |
| PIANO AND ORGAN MATERIALS. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 11,009 | 9,103 | 9,914 | 10,402 | 10,903 | 10,984 | 11,045 | 11,816 | 11,957 | 11,705 | 11,227 | 11,310 | 11,735 | 76.1 |
| Males..... | 8,147 | 6,795 | 7,344 | 7,704 | 8,182 | 8,205 | 8,254 | 8,742 | 8,854 | 8,702 | 8,177 | 8,204 | 8,601 | 75.7 |
| Females..... | 2,862 | 2,308 | 2,570 | 2,698 | 2,721 | 2,779 | 2,791 | 3,074 | 3,103 | 3,003 | 3,050 | 3,112 | 3,135 | 73.6 |
| 1914..... | 10,616 | 11,633 | 11,712 | 11,839 | 11,522 | 11,035 | 10,451 | 9,770 | 9,789 | 9,805 | 9,899 | 9,888 | 9,983 | 82.6 |
| 1909..... | 10,140 | 9,823 | 9,936 | 9,975 | 10,082 | 9,985 | 10,080 | 9,634 | 9,957 | 10,291 | 10,689 | 10,639 | 10,599 | 91.9 |
| Connecticut..... | 1,291 | 934 | 1,092 | 1,155 | 1,211 | 1,230 | 1,295 | 1,381 | 1,369 | 1,382 | 1,434 | 1,472 | 1,437 | 66.2 |
| Illinois..... | 1,311 | 1,214 | 1,275 | 1,308 | 1,318 | 1,315 | 1,279 | 1,374 | 1,391 | 1,278 | 1,325 | 1,347 | 1,308 | 87.3 |
| Massachusetts..... | 1,581 | 1,321 | 1,403 | 1,489 | 1,515 | 1,534 | 1,539 | 1,594 | 1,653 | 1,686 | 1,717 | 1,755 | 1,766 | 74.3 |
| New Jersey..... | 758 | 684 | 756 | 766 | 750 | 731 | 745 | 701 | 787 | 785 | 760 | 805 | 766 | 85.0 |
| New York..... | 4,141 | 3,420 | 3,753 | 3,979 | 4,308 | 4,324 | 4,342 | 4,616 | 4,669 | 4,549 | 3,893 | 3,755 | 4,107 | 73.4 |
| Ohio..... | 980 | 768 | 858 | 888 | 936 | 1,000 | 1,007 | 1,066 | 1,016 | 982 | 1,034 | 1,062 | 1,113 | 69.0 |

MANUFACTURES.

TABLE 7.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| INDUSTRY AND STATE. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | INDUSTRY AND STATE. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | |
|----------------------------------|--------|--|--------------------|-------|--------------------|--------|--------------------|--------|---------------------|--------|--|---------------|--------------------|-------|--------------------|-----|--------------------|
| | | 44 and under. | Between 44 and 48. | 48.1 | Between 48 and 54. | 54. | Between 54 and 60. | 60. | | | Over 60. | 44 and under. | Between 44 and 48. | 48.1 | Between 48 and 54. | 54. | Between 54 and 60. |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | | | | |
| 1919..... | 35,907 | 2,329 | 311 | 9,037 | 15,362 | 5,297 | 2,578 | 993 | | | | | | | | | |
| 1914..... | 37,558 | (*) | (*) | 1,754 | 5,269 | 19,951 | 6,498 | 3,814 | | | | | | | | | |
| 1909..... | 38,020 | (*) | (*) | 1,270 | 2,534 | 17,372 | 6,065 | 10,789 | | | | | | | | | |
| Illinois: | | | | | | | | | | | | | | | | | |
| 1919..... | 8,575 | 1,627 | | 548 | 5,170 | 687 | 448 | 95 | | | | | | | | | |
| 1914..... | 8,334 | (*) | (*) | 318 | 1,768 | 3,814 | 1,804 | 630 | | | | | | | | | |
| Maryland: | | | | | | | | | | | | | | | | | |
| 1919..... | 720 | | 2 | 327 | 196 | 25 | 1 | 169 | | | | | | | | | |
| 1914..... | 773 | | | | | 297 | 242 | 234 | | | | | | | | | |
| Massachusetts: | | | | | | | | | | | | | | | | | |
| 1919..... | 3,950 | 175 | | 1,891 | 1,623 | 259 | 2 | | | | | | | | | | |
| 1914..... | 3,906 | (*) | (*) | 244 | 641 | 2,376 | 135 | 10 | | | | | | | | | |
| Michigan: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,305 | | | 133 | 443 | 366 | 363 | | | | | | | | | | |
| 1914..... | 1,070 | | | | 2 | 98 | 335 | 305 | 270 | | | | | | | | |
| New York: | | | | | | | | | | | | | | | | | |
| 1919..... | 11,317 | 458 | 62 | 3,867 | 5,588 | 667 | 572 | 105 | | | | | | | | | |
| 1914..... | 12,602 | (*) | (*) | 317 | 1,694 | 9,123 | 981 | 487 | | | | | | | | | |
| Ohio: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,820 | | | 871 | 346 | 540 | 19 | 44 | | | | | | | | | |
| 1914..... | 1,745 | (*) | (*) | 282 | 848 | 138 | 248 | 229 | | | | | | | | | |
| Pennsylvania: | | | | | | | | | | | | | | | | | |
| 1919..... | 972 | | 39 | 640 | 94 | 125 | 38 | 27 | | | | | | | | | |
| 1914..... | 922 | (*) | (*) | 59 | 105 | 296 | 198 | 264 | | | | | | | | | |
| PIANOS. | | | | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | | | | |
| 1919..... | 22,057 | 2,166 | 208 | 6,437 | 10,063 | 2,248 | 1,355 | 480 | | | | | | | | | |
| 1914..... | 23,877 | (*) | (*) | 1,305 | 2,974 | 13,043 | 4,320 | 1,965 | 270 | | | | | | | | |
| Connecticut: | | | | | | | | | | | | | | | | | |
| 1919..... | 608 | 45 | | 201 | 227 | | 135 | | | | | | | | | | |
| 1914..... | 599 | | | | | 273 | 326 | | | | | | | | | | |
| Illinois: | | | | | | | | | | | | | | | | | |
| 1919..... | 6,991 | 1,567 | | 334 | 4,190 | 539 | 361 | | | | | | | | | | |
| 1914..... | 6,682 | (*) | (*) | 234 | 1,051 | 3,405 | 1,554 | 438 | | | | | | | | | |
| Indiana: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,432 | | 208 | | 191 | 727 | 306 | | | | | | | | | | |
| 1914..... | 1,585 | (*) | (*) | 319 | | 34 | 596 | 636 | | | | | | | | | |
| Maryland: | | | | | | | | | | | | | | | | | |
| 1919..... | 523 | | | 327 | 196 | | | | | | | | | | | | |
| 1914..... | 518 | | | | | 293 | 225 | | | | | | | | | | |
| Massachusetts: | | | | | | | | | | | | | | | | | |
| 1919..... | 2,228 | 171 | | 1,367 | 690 | | | | | | | | | | | | |
| 1914..... | 2,352 | (*) | (*) | 240 | 448 | 1,567 | 97 | | | | | | | | | | |
| PIANOS—continued. | | | | | | | | | | | | | | | | | |
| Michigan: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,122 | | | | | | | | | | | 133 | 260 | 366 | 363 | | |
| 1914..... | 925 | | | | | | | | | | | | 25 | 310 | 320 | 270 | |
| New Jersey: | | | | | | | | | | | | | | | | | |
| 1919..... | 713 | 26 | | | | | | | | | | 162 | 525 | | | | |
| 1914..... | 852 | (*) | (*) | | | | | | | | | 5 | | 847 | | | |
| New York: | | | | | | | | | | | | | | | | | |
| 1919..... | 6,908 | 357 | | | | | | | | | | 2,899 | 3,406 | 230 | 16 | | |
| 1914..... | 8,202 | (*) | (*) | | | | | | | | | 244 | 1,120 | 6,106 | 716 | 16 | |
| Ohio: | | | | | | | | | | | | | | | | | |
| 1919..... | 787 | | | | | | | | | | | 403 | 158 | 212 | 14 | | |
| 1914..... | 707 | (*) | (*) | | | | | | | | | 96 | 257 | 117 | 93 | 144 | |
| Pennsylvania: | | | | | | | | | | | | | | | | | |
| 1919..... | 774 | | | | | | | | | | | 610 | 64 | 90 | | 10 | |
| 1914..... | 646 | (*) | (*) | | | | | | | | | 25 | 60 | 295 | 101 | 165 | |
| ORGANS. | | | | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,941 | 11 | | | | | | | | | | 239 | 651 | 214 | 500 | 320 | |
| 1914..... | 3,063 | (*) | (*) | | | | | | | | | 104 | 197 | 1,129 | 698 | 935 | |
| PIANO AND ORGAN MATERIALS. | | | | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | | | | |
| 1919..... | 11,009 | 152 | 103 | 2,361 | 4,648 | 2,835 | | 717 | 193 | | | | | | | | |
| 1914..... | 10,616 | (*) | (*) | 345 | 2,098 | 5,779 | 1,480 | 914 | | | | | | | | | |
| Connecticut: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,291 | | | | | | | | | | | 23 | | 1,268 | | | |
| 1914..... | 1,544 | (*) | (*) | | | | | | | | | 4 | 49 | 1,439 | 44 | 8 | |
| Illinois: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,311 | 60 | | | | | | | | | | 156 | 930 | 77 | | 88 | |
| 1914..... | 1,420 | (*) | (*) | | | | | | | | | 84 | 688 | 403 | 168 | 77 | |
| Massachusetts: | | | | | | | | | | | | | | | | | |
| 1919..... | 1,581 | | | | | | | | | | | 524 | 820 | 235 | 2 | | |
| 1914..... | 1,349 | (*) | (*) | | | | | | | | | 1 | 140 | 1,163 | 35 | 10 | |
| New Jersey: | | | | | | | | | | | | | | | | | |
| 1919..... | 758 | | | | | | | | | | | 253 | 386 | | 119 | | |
| 1914..... | 777 | (*) | (*) | | | | | | | | | 60 | 37 | 157 | 312 | 211 | |
| New York: | | | | | | | | | | | | | | | | | |
| 1919..... | 4,141 | 92 | 62 | | | | | | | | | 792 | 2,141 | 409 | 540 | 105 | |
| 1914..... | 3,752 | (*) | (*) | | | | | | | | | 6 | 549 | 2,530 | 212 | 455 | |
| Ohio: | | | | | | | | | | | | | | | | | |
| 1919..... | 980 | | | | | | | | | | | 466 | 188 | 326 | | | |
| 1914..... | 915 | (*) | (*) | | | | | | | | | 185 | 591 | | 132 | 7 | |

¹ Includes 48 and under in 1914.² Corresponding figures not available.

PIANOS AND ORGANS AND MATERIALS.

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TABLE 8.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| INDUSTRY AND STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------|-----------------------------------|---------------------------|---------------|---------------------------------|---------------|----------------------------------|---------------|-----------------------------------|---------------|------------------------------------|---------------|-------------------------------------|---------------|-------------------------------------|---------------|---------------------------------------|---------------|--------------------------|---------------|
| | Establishments. | Wage earners (average number). | No wage earners. | | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | 251 to 500 wage earners, inclusive. | | 501 to 1,000 wage earners, inclusive. | | Over 1,000 wage earners. | |
| | | | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | | | | | | | | | | | | | | |
| United States..1919.. | 372 | 35,907 | 10 | 56 | 152 | 63 | 757 | 81 | 2,750 | 54 | 4,133 | 68 | 10,834 | 30 | 10,774 | 9 | 5,205 | 1 | 1,233 | |
| 1914.. | 478 | 37,556 | 11 | 93 | 234 | 100 | 1,259 | 92 | 3,193 | 76 | 5,723 | 68 | 11,119 | 32 | 11,296 | 5 | 3,338 | 1 | 1,394 | |
| Illinois..... | 52 | 8,575 | 2 | 3 | 11 | 4 | 48 | 10 | 377 | 9 | 662 | 14 | 2,052 | 5 | 1,725 | 4 | 2,467 | 1 | 1,233 | |
| Maryland..... | 7 | 720 | | 2 | 3 | | | 2 | 47 | | | 2 | 343 | | 327 | | | | | |
| Massachusetts..... | 40 | 3,950 | | 6 | 18 | 7 | 65 | 6 | 212 | 6 | 458 | 7 | 1,237 | 6 | 1,057 | | | | | |
| Michigan..... | 11 | 1,305 | | | | | | 3 | 81 | 3 | 262 | 3 | 596 | 1 | 366 | | | | | |
| New York..... | 131 | 11,317 | | 15 | 42 | 30 | 370 | 32 | 1,098 | 18 | 1,288 | 20 | 3,064 | 10 | 3,745 | 3 | 1,710 | | | |
| Ohio..... | 22 | 1,820 | | 6 | 17 | 2 | 24 | 3 | 89 | 4 | 322 | 6 | 901 | 1 | 467 | | | | | |
| Pennsylvania..... | 23 | 972 | | 10 | 25 | 4 | 58 | 6 | 190 | 1 | 89 | 1 | 141 | 1 | 469 | | | | | |
| PIANOS. | | | | | | | | | | | | | | | | | | | | |
| United States..1919.. | 191 | 22,957 | 2 | 11 | 34 | 25 | 312 | 47 | 1,537 | 33 | 2,512 | 40 | 7,666 | 17 | 6,000 | 6 | 3,663 | 1 | 1,233 | |
| 1914.. | 255 | 23,877 | 2 | 32 | 87 | 52 | 644 | 52 | 1,769 | 50 | 3,832 | 44 | 7,221 | 17 | 5,592 | 5 | 3,338 | 1 | 1,394 | |
| Connecticut..... | 5 | 608 | | | | | | 2 | 77 | | | 3 | 531 | | | | | | | |
| Illinois..... | 33 | 6,091 | 1 | | | 2 | 20 | 5 | 182 | 4 | 335 | 13 | 1,896 | 4 | 1,408 | 3 | 1,917 | 1 | 1,233 | |
| Indiana..... | 8 | 1,432 | | | | | | 1 | 33 | 2 | 132 | 4 | 692 | | | 1 | 576 | | | |
| Maryland..... | 3 | 523 | | | | | | 1 | 22 | | | 1 | 174 | | 327 | | | | | |
| Massachusetts..... | 14 | 2,228 | | | | 3 | 34 | | | 3 | 243 | 4 | 686 | 4 | 1,265 | | | | | |
| Michigan..... | 8 | 1,122 | | | | | | 3 | 81 | 1 | 79 | 3 | 596 | 1 | 366 | | | | | |
| New Jersey..... | 6 | 713 | 1 | 1 | 4 | | | 1 | 26 | 1 | 100 | 1 | 158 | 1 | 425 | | | | | |
| New York..... | 79 | 6,908 | | 4 | 13 | 14 | 184 | 26 | 858 | 15 | 1,045 | 14 | 2,182 | 4 | 1,455 | 2 | 1,171 | | | |
| Ohio..... | 10 | 787 | | | | 1 | 14 | 2 | 58 | 4 | 322 | 3 | 393 | | | | | | | |
| Pennsylvania..... | 11 | 774 | | 5 | 16 | 2 | 27 | 1 | 32 | 1 | 89 | 1 | 141 | 1 | 469 | | | | | |
| ORGANS. | | | | | | | | | | | | | | | | | | | | |
| United States..1919.. | 68 | 1,941 | 4 | 24 | 62 | 11 | 122 | 18 | 630 | 8 | 580 | 3 | 547 | | | | | | | |
| 1914.. | 85 | 3,063 | 2 | 33 | 71 | 17 | 229 | 17 | 594 | 10 | 684 | 4 | 746 | 2 | 739 | | | | | |
| PIANO AND ORGAN MATERIALS. | | | | | | | | | | | | | | | | | | | | |
| United States..1919.. | 113 | 11,009 | 4 | 21 | 56 | 27 | 323 | 16 | 592 | 13 | 1,041 | 16 | 2,621 | 13 | 4,774 | 3 | 1,602 | | | |
| 1914.. | 138 | 10,616 | 7 | 28 | 76 | 31 | 386 | 23 | 830 | 16 | 1,207 | 20 | 3,152 | 13 | 4,965 | | | | | |
| Connecticut..... | 6 | 1,291 | | 1 | 5 | 2 | 23 | | | | | | | 2 | 750 | 1 | 513 | | | |
| Illinois..... | 9 | 1,311 | | | | 2 | 25 | 1 | 45 | 3 | 215 | 1 | 156 | 1 | 317 | 1 | 550 | | | |
| Massachusetts..... | 21 | 1,581 | 2 | 4 | 10 | 4 | 34 | 4 | 143 | 2 | 151 | 3 | 551 | 2 | 692 | | | | | |
| New Jersey..... | 11 | 758 | | 1 | 3 | 3 | 48 | 2 | 75 | 2 | 160 | 3 | 472 | | | | | | | |
| New York..... | 36 | 4,141 | | 6 | 18 | 11 | 130 | 4 | 170 | 3 | 243 | 5 | 751 | 6 | 2,290 | 1 | 539 | | | |
| Ohio..... | 6 | 980 | | 2 | 5 | | | | | | | 3 | 508 | 1 | 467 | | | | | |

MANUFACTURES.

TABLE 9.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|-------|-------|---------------------------------|--------|--------|--------------------|--------------|--------------|-----------------------------|--------------|--------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| All classes..... | 372 | 478 | 507 | 35,907 | 37,556 | 38,020 | \$149,850,945 | \$88,948,145 | \$89,789,544 | \$76,576,052 | \$47,695,354 | \$46,024,807 |
| Less than \$5,000..... | 18 | 47 | 53 | 12 | 54 | 86 | 48,287 | 121,034 | 168,073 | 29,608 | 80,923 | 110,908 |
| \$5,000 to \$20,000..... | 49 | 73 | 85 | 179 | 397 | 435 | 546,366 | 766,881 | 900,917 | 341,274 | 457,229 | 559,824 |
| \$20,000 to \$100,000..... | 74 | 145 | 166 | 1,207 | 3,572 | 3,907 | 4,023,635 | 8,035,328 | 8,952,604 | 2,353,335 | 4,161,844 | 4,794,745 |
| \$100,000 to \$500,000..... | 129 | 172 | 193 | 7,908 | 26,947 | 27,551 | 33,827,089 | 42,809,542 | 63,736,264 | 16,273,549 | 33,083,250 | 32,049,304 |
| \$500,000 to \$1,000,000..... | 64 | 30 | 10 | 10,925 | 6,586 | 6,041 | 44,159,833 | 20,692,404 | 16,031,686 | 22,134,527 | 9,912,108 | 8,510,026 |
| \$1,000,000 and over..... | 38 | 11 | 10 | 15,676 | 6,586 | 6,041 | 67,245,735 | 16,522,956 | 16,031,686 | 35,443,759 | 9,912,108 | 8,510,026 |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 4.8 | 9.8 | 10.5 | (1) | 0.1 | 0.2 | (1) | 0.1 | 0.2 | (1) | 0.2 | 0.2 |
| \$5,000 to \$20,000..... | 13.2 | 15.3 | 16.8 | 0.5 | 1.1 | 1.1 | 0.4 | 0.9 | 1.0 | 0.4 | 1.0 | 1.2 |
| \$20,000 to \$100,000..... | 19.9 | 30.3 | 32.7 | 3.4 | 9.5 | 10.3 | 2.7 | 9.0 | 10.0 | 3.1 | 8.7 | 10.4 |
| \$100,000 to \$500,000..... | 34.7 | 36.0 | 38.1 | 22.0 | 71.8 | 72.5 | 22.6 | 48.1 | 71.0 | 21.2 | 69.4 | 69.6 |
| \$500,000 to \$1,000,000..... | 17.2 | 6.3 | 2.0 | 30.4 | 17.5 | 15.9 | 29.5 | 23.3 | 17.9 | 28.9 | 20.8 | 18.5 |
| \$1,000,000 and over..... | 10.2 | 2.3 | 2.0 | 43.7 | 17.5 | 15.9 | 44.9 | 18.6 | 17.9 | 46.3 | 20.8 | 18.5 |

1 Less than one-tenth of 1 per cent.

TABLE 10.—CHARACTER OF OWNERSHIP, BY STATES: 1919 AND 1914.

| STATE. | Cen- sus year. | NUMBER OF ESTABLISHMENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | VALUE OF PRODUCTS. | | | | | | | | |
|--------------------|----------------------|--|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|---------------------|------------------------|-------------------------|---------------------|---------------|-----------------------------|--------------------|----------------|------------------------|--------------------|---------------------|--|--|--|--|
| | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | Of establishments owned by— | | | Per cent of total. | | | | | | |
| | | | | | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | Individ- uals. | Corpora- tions. | All others. | Indi- vid- uals. | Corpora- tions. | All oth- ers. | | | | |
| United States..... | 1919 | 64 | 281 | 27 | 35,907 | 792 | 34,045 | 1,070 | 2.2 | 94.8 | 3.0 | \$149,850,945 | \$3,218,328 | \$142,375,308 | \$4,257,309 | 2.1 | 95.0 | 2.8 | | | | |
| | 1914 | 105 | 322 | 51 | 37,556 | 1,727 | 34,722 | 1,107 | 4.6 | 92.5 | 2.9 | 88,948,145 | 4,621,448 | 81,651,530 | 2,675,167 | 5.2 | 91.8 | 3.0 | | | | |
| | 1909 | 125 | 314 | 68 | 38,020 | 2,751 | 32,722 | 2,547 | 7.2 | 86.1 | 6.7 | 89,789,544 | 7,923,309 | 76,965,192 | 4,900,983 | 8.8 | 85.7 | 5.5 | | | | |
| Illinois..... | 1919 | 7 | 44 | 1 | 8,575 | 119 | 8,456 | ..... | 1.4 | 98.6 | ..... | 36,255,055 | 377,591 | 35,877,464 | ..... | 1.0 | 99.0 | ..... |  |  |  |  |
| | 1914 | 11 | 55 | 5 | 8,334 | 85 | 8,215 | 34 | 1.0 | 98.6 | 0.4 | 19,705,601 | 190,768 | 19,354,624 | 160,209 | 1.0 | 98.2 | 0.8 | | | | |
| Massachusetts..... | 1919 | 10 | 27 | 3 | 3,950 | 37 | 3,103 | 810 | 0.9 | 78.6 | 20.5 | 13,342,488 | 111,895 | 10,076,519 | 3,154,074 | 0.8 | 75.5 | 23.6 | | | | |
| | 1914 | 14 | 34 | 4 | 3,906 | 190 | 3,378 | 338 | 4.9 | 86.5 | 8.7 | 8,213,341 | 418,137 | 6,872,022 | 923,182 | 5.1 | 83.7 | 11.2 | | | | |
| Michigan..... | 1919 | 1 | 10 | ..... | 1,305 | ..... | 1,305 | ..... | ..... | ..... | ..... | 6,097,874 | ..... | 6,097,874 | ..... | ..... | 100.0 | ..... |  |  |  |  |
| | 1914 | 4 | 12 | 1 | 1,070 | 182 | 988 | ..... | 7.7 | 92.3 | ..... | 2,681,855 | 140,765 | 2,541,080 | ..... | 5.2 | 94.8 | ..... |  |  |  |  |
| New York..... | 1919 | 16 | 105 | 10 | 11,317 | 305 | 10,933 | 79 | 2.7 | 96.6 | 0.7 | 52,231,101 | 1,499,818 | 50,424,285 | 306,988 | 2.9 | 96.5 | 0.6 | | | | |
| | 1914 | 25 | 114 | 21 | 12,602 | 629 | 11,653 | 320 | 5.0 | 92.5 | 2.5 | 33,071,781 | 2,393,702 | 29,907,739 | 770,340 | 7.2 | 90.4 | 2.3 | | | | |
| Ohio..... | 1919 | 3 | 16 | 3 | 1,820 | 5 | 1,776 | 39 | 0.3 | 97.6 | 2.1 | 6,797,129 | 29,978 | 6,606,020 | 161,131 | 0.4 | 97.2 | 2.4 | | | | |
| | 1914 | 6 | 15 | 6 | 1,745 | 23 | 1,636 | 86 | 1.3 | 93.8 | 4.9 | 3,544,686 | 61,528 | 3,276,414 | 206,744 | 1.7 | 92.4 | 5.8 | | | | |
| Pennsylvania..... | 1919 | 7 | 12 | 4 | 972 | 41 | 923 | 8 | 4.2 | 95.0 | 0.8 | 3,798,015 | 263,407 | 3,506,828 | 27,780 | 6.9 | 92.3 | 0.7 | | | | |
| | 1914 | 10 | 13 | 5 | 922 | 95 | 778 | 49 | 10.3 | 84.4 | 5.3 | 2,083,727 | 192,354 | 1,734,056 | 157,317 | 9.2 | 83.2 | 7.5 | | | | |

1 Includes the group "All others."

2 Includes the group "Individuals."

PIANOS AND ORGANS AND MATERIALS.

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TABLE 11.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| INDUSTRY AND POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|-------|-------|-------------|--------|--------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | | | |
| Primary power, total..... | 3,076 | 2,079 | 1,147 | 47,804 | 44,349 | 41,623 | 100.0 | 100.0 | 100.0 |
| Owned..... | 257 | 321 | 393 | 32,628 | 35,027 | 35,702 | 68.3 | 79.0 | 85.8 |
| Steam ¹ | 213 | 263 | 302 | 30,912 | 32,792 | 33,314 | 64.7 | 74.0 | 80.0 |
| Engines..... | 191 | (2) | (2) | 30,050 | (2) | (2) | 62.9 | (1) | (2) |
| Turbines..... | 27 | (2) | (2) | 862 | (2) | (2) | 1.8 | (1) | (2) |
| Internal-combustion engines..... | 25 | 39 | 55 | 1,280 | 1,592 | 1,282 | 2.7 | 3.6 | 3.1 |
| Water wheels, turbines, and motors..... | 14 | 19 | 36 | 436 | 643 | 1,106 | 0.9 | 1.4 | 2.7 |
| Rented..... | 2,819 | 1,758 | 754 | 15,176 | 9,322 | 5,921 | 31.7 | 21.0 | 14.2 |
| Electric..... | 2,819 | 1,758 | 754 | 15,030 | 9,046 | 5,355 | 31.4 | 20.4 | 12.9 |
| Other..... | | | | 146 | 276 | 566 | 0.3 | 0.6 | 1.4 |
| Electric..... | 8,208 | 3,170 | 1,662 | 28,766 | 21,492 | 13,256 | 100.0 | 100.0 | 100.0 |
| Rented..... | 2,819 | 1,758 | 754 | 15,030 | 9,046 | 5,355 | 52.2 | 42.1 | 40.4 |
| Generated by establishments reporting..... | 5,389 | 1,412 | 908 | 13,736 | 12,446 | 7,901 | 47.8 | 57.9 | 59.6 |
| PIANOS. | | | | | | | | | |
| Primary power, total..... | 1,761 | 902 | 553 | 28,732 | 25,981 | 23,240 | 100.0 | 100.0 | 100.0 |
| Owned..... | 154 | 178 | 192 | 20,545 | 21,491 | 20,702 | 71.5 | 82.7 | 89.1 |
| Steam ¹ | 147 | 163 | 166 | 19,822 | 20,636 | 19,897 | 69.0 | 79.4 | 85.6 |
| Engines..... | 122 | (2) | (2) | 19,015 | (2) | (2) | 66.2 | (2) | (2) |
| Turbines..... | 25 | (2) | (2) | 807 | (2) | (2) | 2.8 | (2) | (2) |
| Internal-combustion engines..... | 6 | 10 | 16 | 623 | 710 | 561 | 2.2 | 2.7 | 2.4 |
| Water wheels, turbines, and motors..... | 1 | 5 | 10 | 190 | 145 | 244 | 0.3 | 0.6 | 1.1 |
| Rented..... | 1,607 | 784 | 361 | 8,187 | 4,490 | 2,544 | 28.5 | 17.3 | 10.9 |
| Electric..... | 1,607 | 784 | 361 | 8,152 | 4,347 | 2,256 | 28.4 | 16.7 | 9.7 |
| Other..... | | | | 35 | 143 | 288 | 0.1 | 0.6 | 1.2 |
| Electric..... | 2,656 | 1,882 | 1,053 | 17,270 | 12,689 | 7,345 | 100.0 | 100.0 | 100.0 |
| Rented..... | 1,607 | 784 | 361 | 8,152 | 4,347 | 2,256 | 47.2 | 34.3 | 30.7 |
| Generated by establishments reporting..... | 1,049 | 1,098 | 692 | 9,118 | 8,342 | 5,089 | 52.8 | 65.7 | 69.3 |
| ORGANS. | | | | | | | | | |
| Primary power, total..... | 477 | 536 | 172 | 3,251 | 3,066 | 3,334 | 100.0 | 100.0 | 100.0 |
| Owned..... | 22 | 29 | 54 | 1,545 | 1,989 | 2,496 | 47.6 | 54.3 | 74.9 |
| Steam ¹ | 14 | 19 | 31 | 1,390 | 1,770 | 2,205 | 41.8 | 48.3 | 65.2 |
| Engines..... | 14 | (2) | (2) | 1,390 | (2) | (2) | 41.8 | (2) | (2) |
| Turbines..... | | (2) | (2) | | (2) | (2) | | (2) | (2) |
| Internal-combustion engines..... | 8 | 10 | 23 | 188 | 219 | 291 | 5.8 | 6.0 | 8.7 |
| Rented..... | 455 | 507 | 118 | 1,703 | 1,677 | 838 | 52.4 | 45.7 | 25.1 |
| Electric..... | 455 | 507 | 118 | 1,697 | 1,677 | 813 | 52.2 | 45.7 | 24.4 |
| Other..... | | | | 6 | | 25 | 0.2 | | 0.7 |
| Electric..... | 586 | 519 | 157 | 2,106 | 1,968 | 1,225 | 100.0 | 100.0 | 100.0 |
| Rented..... | 455 | 507 | 118 | 1,697 | 1,677 | 813 | 80.6 | 85.2 | 66.4 |
| Generated by establishments reporting..... | 131 | 12 | 39 | 400 | 291 | 412 | 19.4 | 14.8 | 33.6 |
| PIANO AND ORGAN MATERIALS. | | | | | | | | | |
| Primary power, total..... | 838 | 581 | 422 | 15,821 | 14,702 | 15,043 | 100.0 | 100.0 | 100.0 |
| Owned..... | 81 | 114 | 147 | 10,535 | 11,547 | 12,504 | 66.6 | 78.5 | 83.1 |
| Steam ¹ | 57 | 81 | 105 | 9,730 | 10,386 | 11,223 | 61.5 | 70.6 | 74.0 |
| Engines..... | 55 | (2) | (2) | 9,675 | (2) | (2) | 61.2 | (2) | (2) |
| Turbines..... | 2 | (2) | (2) | 55 | (2) | (2) | 0.3 | (2) | (2) |
| Internal-combustion engines..... | 11 | 19 | 16 | 469 | 663 | 419 | 3.0 | 4.5 | 2.8 |
| Water wheels, turbines, and motors..... | 13 | 14 | 26 | 336 | 498 | 802 | 2.1 | 3.4 | 5.7 |
| Rented..... | 757 | 467 | 275 | 5,286 | 3,155 | 2,539 | 33.4 | 21.5 | 16.9 |
| Electric..... | 757 | 467 | 275 | 5,181 | 3,022 | 2,256 | 32.7 | 20.6 | 15.2 |
| Other..... | | | | 105 | 133 | 283 | 0.7 | 0.9 | 1.7 |
| Electric..... | 4,986 | 769 | 452 | 9,390 | 6,835 | 4,650 | 100.0 | 100.0 | 100.0 |
| Rented..... | 757 | 467 | 275 | 5,181 | 3,022 | 2,256 | 55.2 | 44.2 | 48.8 |
| Generated by establishments reporting..... | 4,209 | 302 | 177 | 4,209 | 3,813 | 2,400 | 44.8 | 55.8 | 51.2 |

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

² Not reported separately.

MANUFACTURES.

TABLE 12.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

| INDUSTRY AND STATE. | Census year. | COAL. | | Coke (tons, 2,000 lbs.). | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). |
|----------------------------------|--------------|--------------------------------|--------------------------------|--------------------------|----------------------|---|-------------------------|
| | | Anthracite (tons, 2,240 lbs.). | Bituminous (tons, 2,000 lbs.). | | | | |
| PIANOS AND ORGANS AND MATERIALS. | | | | | | | |
| United States..... | 1919 | 27,455 | 184,556 | 5,854 | 2,236 | 335 | 82,128 |
| | 1914 | 36,812 | 185,934 | 5,869 | 1,979 | (1) | 79,622 |
| Illinois..... | 1919 | 98 | 69,519 | 1,546 | 740 | 263 | 3,875 |
| | 1914 | 1,099 | 63,220 | 1,168 | 41 | (1) | 5,433 |
| Maryland ¹ | 1919 | 1,832 | 1,819 | | 600 | | 165 |
| Massachusetts..... | 1919 | 147 | 16,921 | 72 | 129 | 32 | 28,263 |
| | 1914 | 2,260 | 18,789 | 353 | 99 | (1) | 8,285 |
| Michigan..... | 1919 | | 11,479 | | | 2 | |
| | 1914 | 161 | 12,215 | | | | 65 |
| New York..... | 1919 | 16,321 | 32,586 | 627 | 287 | | 10,981 |
| | 1914 | 23,871 | 28,093 | 588 | 837 | (1) | 14,378 |
| Ohio..... | 1919 | 7 | 5,145 | 1,773 | | 22 | 29,312 |
| | 1914 | | 7,957 | 1,808 | 24 | (1) | 42,906 |
| Pennsylvania..... | 1919 | 632 | 3,745 | | | 6 | 1,052 |
| | 1914 | 610 | 1,868 | 1,020 | | | 2,491 |
| PIANOS. | | | | | | | |
| United States..... | 1919 | 17,571 | 144,707 | 1,074 | 927 | 15 | 6,123 |
| | 1914 | 26,891 | 138,619 | 2,507 | 1,549 | (1) | 26,556 |
| Connecticut ¹ | 1919 | 127 | 5,085 | | | | |
| Illinois..... | 1919 | 90 | 59,226 | 400 | 40 | | 3,061 |
| | 1914 | 1,020 | 55,296 | 423 | 5 | (1) | 2,877 |
| Indiana..... | 1919 | | 16,389 | | | 10 | |
| | 1914 | | 20,434 | 192 | 216 | (1) | |
| Maryland ¹ | 1919 | 1,825 | 1,269 | | 600 | | |
| Massachusetts..... | 1919 | | 11,365 | 72 | | | 120 |
| | 1914 | 1,345 | 10,445 | 300 | | | 7,724 |
| Michigan..... | 1919 | | 10,023 | | | | 20 |
| | 1914 | 161 | 10,367 | | | | |
| New Jersey..... | 1919 | 5,813 | 990 | | | | 357 |
| | 1914 | 6,035 | 2,433 | | | | 55 |
| New York..... | 1919 | 9,041 | 22,133 | 602 | 287 | | 2,177 |
| | 1914 | 17,364 | 17,634 | 542 | 765 | (1) | 11,901 |
| Ohio..... | 1919 | | 4,705 | | | 5 | 45 |
| | 1914 | | 7,261 | 30 | 10 | | 1,077 |
| Pennsylvania..... | 1919 | 477 | 3,430 | | | | 343 |
| | 1914 | 547 | 1,250 | 1,020 | | | 74 |
| ORGANS. | | | | | | | |
| United States..... | 1919 | 1,047 | 7,796 | 52 | 480 | 5 | 15,557 |
| | 1914 | 812 | 12,691 | 22 | 171 | (1) | 13,814 |
| PIANO AND ORGAN MATERIALS. | | | | | | | |
| United States..... | 1919 | 8,837 | 32,053 | 4,728 | 829 | 315 | 60,448 |
| | 1914 | 9,109 | 34,624 | 3,340 | 259 | (1) | 39,252 |
| Connecticut..... | 1919 | 688 | 6,073 | 1,603 | | | |
| | 1914 | 1,018 | 8,139 | 557 | 25 | (1) | 205 |
| Illinois..... | 1919 | | 7,670 | 1,100 | 700 | 263 | 684 |
| | 1914 | 79 | 6,251 | 745 | 31 | (1) | 2,478 |
| Massachusetts..... | 1919 | 93 | 5,198 | | 129 | 32 | 26,403 |
| | 1914 | 880 | 7,682 | 49 | 99 | (1) | 545 |
| New Jersey ¹ | 1919 | 862 | 1,463 | 225 | | | 809 |
| New York..... | 1919 | 7,198 | 9,472 | 25 | | | 4,132 |
| | 1914 | 6,454 | 7,800 | 46 | 72 | (1) | 1,697 |
| Ohio..... | 1919 | 7 | 348 | 1,773 | | 12 | 27,681 |
| | 1914 | | 636 | 1,778 | 10 | (1) | 31,811 |

¹ Included in figures for fuel oils.

* Not shown separately in 1914.

SPECIAL STATISTICS.

Certain additional information concerning the quantity and value of products is collected by means of supplemental schedules. At the last four censuses, data were obtained from establishments engaged primarily in the manufacture of pianos and organs, consisting of a detailed statement of the number and value of the different kinds of pianos and organs manufactured.

Production of pianos.—Table 13 shows in comparative form for 1904 to 1919, inclusive, the number

and value of the upright and grand pianos made in the United States and in the 10 states for which figures can be shown without disclosing the operations of individual establishments. From 1909 to 1919 there was a decrease in the number of upright pianos manufactured, this decrease being more noticeable in Illinois, Massachusetts, and New York, although the value of products increased in that period 52.3 per cent and from 1914 to 1919, 60.4 per cent. The total number and value of grand pianos

manufactured show large increases at each census period shown in the table, the increase showing especially in the states of Illinois, Massachusetts, New York, Ohio, and Pennsylvania.

The value of products reported in this branch of the industry by New York, Massachusetts, and Illinois, in the order named, constituted 71.6 per cent of the total reported for the industry. These states held the same relative rank in 1914, reporting 74.4 per cent of the value of products for that year.

TABLE 13.—PIANOS (WITH AND WITHOUT PLAYER ATTACHMENTS)—NUMBER AND VALUE, BY STATES: 1919, 1914, 1909, AND 1904.

| STATE. | Census year. | Total value. | UPRIGHT. | | GRAND. | |
|---------------------------------|--------------|--------------|----------|--------------|----------|--------------|
| | | | Num-ber. | Value. | Num-ber. | Value. |
| United States.... | 1919 | \$94,521,939 | 314,239 | \$82,908,637 | 22,318 | \$11,613,302 |
| | 1914 | 55,811,863 | 315,764 | 51,696,899 | 10,510 | 4,614,967 |
| | 1909 | 58,493,846 | 355,804 | 54,455,177 | 8,741 | 4,035,669 |
| | 1904 | 41,470,479 | 255,825 | 37,815,056 | 7,372 | 3,601,423 |
| Per cent of total.. | 1919 | 100.0 | 93.4 | 87.7 | 6.0 | 12.3 |
| | 1914 | 100.0 | 95.8 | 91.8 | 3.2 | 5.2 |
| | 1909 | 100.0 | 97.6 | 93.1 | 2.4 | 6.9 |
| | 1904 | 100.0 | 97.2 | 91.2 | 2.8 | 5.8 |
| Connecticut..... | 1919 | 2,074,922 | 8,477 | 2,056,285 | 55 | 18,636 |
| | 1914 | 972,343 | 6,127 | 972,343 | (1) | (1) |
| | 1909 | 1,716,695 | 9,759 | 1,710,695 | (1) | (1) |
| | 1904 | 1,238,667 | 9,221 | 1,231,242 | 19 | 7,425 |
| Illinois..... | 1919 | 25,034,422 | 91,684 | 23,990,487 | 1,999 | 1,034,935 |
| | 1914 | 14,562,820 | 92,893 | 14,277,117 | 733 | 285,703 |
| | 1909 | 14,753,394 | 107,903 | 14,040,471 | 350 | 136,923 |
| | 1904 | 9,696,142 | 78,899 | 9,614,431 | 238 | 81,711 |
| Indiana ¹ | 1919 | 6,870,350 | 24,981 | 6,823,010 | 96 | 47,340 |
| | 1914 | 3,513,127 | 23,669 | 3,513,127 | (1) | (1) |
| | 1909 | 3,319,190 | 22,891 | 3,319,190 | (1) | (1) |
| Massachusetts..... | 1919 | 7,651,746 | 20,379 | 5,337,984 | 3,676 | 2,313,762 |
| | 1914 | 5,033,930 | 23,596 | 4,315,701 | 1,948 | 718,220 |
| | 1909 | 5,323,716 | 25,644 | 4,411,927 | 2,533 | 916,780 |
| | 1904 | 5,129,833 | 20,967 | 4,022,237 | 2,159 | 1,107,596 |
| Michigan ¹ | 1919 | 5,012,774 | 18,870 | 4,979,627 | 61 | 33,147 |
| | 1914 | 2,203,745 | 13,707 | 2,203,745 | (1) | (1) |
| | 1909 | 3,732,973 | 25,165 | 3,732,973 | (1) | (1) |
| New Jersey ¹ | 1919 | 1,246,918 | 3,585 | 970,256 | 779 | 276,662 |
| | 1914 | 895,711 | 4,618 | 895,711 | (1) | (1) |
| | 1909 | 693,917 | 3,970 | 693,917 | (1) | (1) |
| New York..... | 1919 | 35,002,633 | 108,860 | 28,653,453 | 13,208 | 6,349,180 |
| | 1914 | 22,285,369 | 115,812 | 19,606,064 | 5,403 | 2,678,395 |
| | 1909 | 22,764,394 | 127,482 | 20,393,863 | 4,298 | 2,370,521 |
| | 1904 | 16,684,911 | 98,491 | 14,819,717 | 3,541 | 1,865,194 |
| Ohio..... | 1919 | 2,957,768 | 11,769 | 2,656,893 | 585 | 300,965 |
| | 1914 | 1,924,679 | 10,239 | 1,762,273 | 365 | 162,406 |
| | 1909 | 1,901,294 | 11,118 | 1,778,629 | 229 | 122,665 |
| | 1904 | 1,855,610 | 11,119 | 1,762,910 | 160 | 72,700 |
| Pennsylvania ¹ | 1919 | 2,634,332 | 10,823 | 2,827,617 | 242 | 99,320 |
| | 1914 | 1,363,114 | 6,618 | 1,302,706 | 165 | 60,408 |
| | 1909 | 1,818,070 | 9,306 | 1,784,220 | 96 | 33,850 |
| Wisconsin ¹ | 1919 | 2,634,332 | 9,984 | 2,627,909 | 15 | 6,423 |
| | 1914 | 1,440,721 | 11,766 | 1,440,721 | (1) | (1) |
| | 1909 | 540,350 | 4,785 | 540,350 | (1) | (1) |
| All other states..... | 1919 | 3,109,137 | 6,827 | 1,976,205 | 1,602 | 1,132,932 |
| | 1914 | 2,116,314 | 6,719 | 1,406,488 | 1,896 | 709,826 |
| | 1909 | 1,894,863 | 7,831 | 1,436,942 | 1,205 | 457,921 |
| | 1904 | 6,871,316 | 40,123 | 6,344,519 | 1,255 | 526,797 |

¹ Included in "All other states," to avoid disclosing individual operations.

² Figures for 1904 included in "All other states," to avoid disclosing individual operations.

Production of organs.—Table 14 shows the number and value of the reed and pipe organs reported for the United States and for five specified states for 1919, 1914, 1909, and 1904.

The total value of organs manufactured increased from 1909 to 1919, while the total number manufactured has steadily decreased during that period, although the number of pipe organs manufactured

was greatest in 1914. The figures for pipe organs include those for 721 orchestrions valued at \$546,404. Measured by value of products, Illinois was the leading state in 1919 and 1914 in both reed and pipe organs, reporting 23 per cent and 22.4 per cent for 1919 and 31.4 per cent and 19.5 per cent in 1914, respectively, of the total value of products for each period.

TABLE 14.—ORGANS—NUMBER AND VALUE, BY STATES: 1919, 1914, 1909, AND 1904.

| STATE. | Census year. | Total value. ¹ | REED. | | PIPE. | |
|-----------------------|--------------|---------------------------|----------|-------------|----------|-------------|
| | | | Num-ber. | Value. | Num-ber. | Value. |
| United States..... | 1919 | \$6,620,616 | 26,429 | \$1,888,677 | 1,872 | \$4,731,939 |
| | 1914 | 6,378,312 | 40,533 | 1,718,011 | 2,273 | 4,660,301 |
| | 1909 | 5,809,016 | 64,111 | 2,595,429 | 1,224 | 2,713,587 |
| | 1904 | 6,152,032 | 113,065 | 4,162,063 | 901 | 1,989,979 |
| Per cent of total.. | 1919 | 100.0 | 93.4 | 28.5 | 6.6 | 71.5 |
| | 1914 | 100.0 | 94.7 | 26.9 | 5.3 | 73.1 |
| | 1909 | 100.0 | 98.1 | 48.9 | 1.9 | 51.1 |
| | 1904 | 100.0 | 99.2 | 67.7 | 0.8 | 32.3 |
| Illinois..... | 1919 | 1,463,598 | 7,765 | 434,760 | 797 | 1,053,838 |
| | 1914 | 1,448,429 | 12,506 | 540,043 | 589 | 998,386 |
| | 1909 | 1,281,415 | 28,644 | 973,783 | 154 | 307,632 |
| | 1904 | 1,960,543 | 55,619 | 1,739,220 | 140 | 230,323 |
| Massachusetts..... | 1919 | 303,952 | 17 | 1,840 | 39 | 302,112 |
| | 1914 | 379,204 | (2) | (2) | 73 | 379,204 |
| | 1909 | 330,693 | (2) | (2) | 151 | 330,693 |
| | 1904 | 671,770 | 2,073 | 150,883 | 137 | 520,887 |
| New York..... | 1919 | 642,782 | 500 | 94,393 | 229 | 548,389 |
| | 1914 | 734,771 | (2) | (2) | 679 | 734,771 |
| | 1909 | 330,373 | (2) | (2) | 245 | 330,373 |
| | 1904 | 133,471 | (2) | (2) | 58 | 133,471 |
| Ohio..... | 1919 | 194,298 | (2) | (2) | 70 | 194,298 |
| | 1914 | 187,691 | (2) | (2) | 85 | 187,691 |
| | 1909 | 199,964 | (2) | (2) | 85 | 199,964 |
| | 1904 | 346,063 | 1,949 | 94,577 | 137 | 251,486 |
| Pennsylvania..... | 1919 | 158,365 | 800 | 44,797 | 32 | 113,568 |
| | 1914 | 215,444 | (2) | (2) | 81 | 215,444 |
| | 1909 | 192,901 | (2) | (2) | 82 | 192,901 |
| | 1904 | 417,614 | 5,715 | 242,059 | 87 | 175,555 |
| All other states..... | 1919 | 3,827,621 | 17,347 | 1,812,887 | 705 | 2,514,734 |
| | 1914 | 3,412,773 | 28,027 | 1,177,908 | 799 | 2,234,865 |
| | 1909 | 2,964,670 | 36,467 | 1,621,615 | 507 | 1,343,024 |
| | 1904 | 2,613,571 | 47,709 | 1,935,314 | 342 | 678,257 |

¹ Includes orchestrions.

² Included in "All other states," to avoid disclosing individual operations.

Detailed statistics of quantity and value.—Table 15 shows in detail the statistics of products manufactured in the piano and organ branches of the industry for 1919, 1914, and 1909.

The production of pianos increased 10,283, or 3.2 per cent, in number, and \$38,210,076, or 67.9 per cent, in value, from 1914 to 1919, while from 1909 to 1919, the number decreased 27,988, or 7.7 per cent, but the value increased \$36,028,093, or 61.6 per cent.

The manufacture of upright pianos without player attachments decreased by 91,687, or 40.3 per cent, in number, and \$2,473,884, or 7.9 per cent, in value, during the period 1914 to 1919. This decrease is offset by the increase in the production of pianos for or with player attachments, which was 86,651, or 98.4 per cent, in number, and \$32,250,414, or 159.1 per cent, in value, during this period. These figures do not include the 2,145 automatic pianos, valued at \$896,346, nor 1,366 electric pianos, valued at \$538,865.

The production of player attachments in the piano and organ industry greatly increased, 15,329, or 236.1 per cent, in number, and \$985,664, or 115.3 per cent, in value of products, from 1914 to 1919.

TABLE 15.—DETAILED STATISTICS OF QUANTITY AND VALUE:
1919, 1914, AND 1909.

| PRODUCT. | 1919 | 1914 | 1909 |
|---|---------------|------------------|------------------|
| Total value ¹ | \$113,061,318 | \$69,072,383 | \$70,056,223 |
| Pianos: | | | |
| Number..... | 336,557 | 326,274 | 364,545 |
| Value..... | \$94,521,939 | \$56,311,863 | \$58,493,846 |
| Upright— | | | |
| Without player attachment— | | | |
| Number..... | 135,999 | 227,686 | 321,309 |
| Value..... | \$28,957,498 | \$31,431,332 | \$45,180,176 |
| With player attachment— | | | |
| Number..... | 174,729 | 84,856 | 34,495 |
| Value..... | \$52,515,928 | \$18,892,308 | \$9,275,001 |
| Grand— | | | |
| Baby grand— | | | |
| Without player attachment— | | | |
| Number..... | 17,900 | 9,679 | 8,720 |
| Value..... | \$8,519,054 | \$4,201,302 | \$4,009,769 |
| With player attachment— | | | |
| Number..... | 2,034 | 831 | 21 |
| Value..... | \$1,711,314 | \$413,665 | \$28,900 |
| Parlor— | | | |
| Without player attachment— | | | |
| Number..... | 2,172 | (²) | (²) |
| Value..... | \$1,109,501 | | |
| With player attachment— | | | |
| Number..... | 125 | (²) | (²) |
| Value..... | \$119,378 | | |
| Concert— | | | |
| Number..... | 87 | (²) | (²) |
| Value..... | \$54,055 | | |
| Automatic— | | | |
| Number..... | 2,145 | 3,622 | (²) |
| Value..... | \$896,346 | \$1,373,206 | |
| Electric— | | | |
| Number..... | 1,366 | (²) | (²) |
| Value..... | \$538,865 | | |
| Player attachments and actions made separately: | | | |
| Number..... | 21,322 | 6,493 | 10,898 |
| Value..... | \$1,840,438 | \$854,774 | \$1,474,630 |
| Organs: | | | |
| Number..... | 28,301 | 42,806 | 65,335 |
| Value..... | \$6,620,616 | \$6,378,312 | \$5,309,016 |
| Pipe— | | | |
| Number..... | 1,151 | 1,185 | 1,224 |
| Value..... | \$4,185,535 | \$3,620,210 | \$2,713,537 |

¹ In addition, products to the value of \$1,382,353 in 1919 and \$754,148 in 1914 were reported by establishments engaged primarily in other industries.

² Not reported separately.

TABLE 15.—DETAILED STATISTICS OF QUANTITY AND VALUE:
1919, 1914, AND 1909—Continued.

| PRODUCT. | 1919 | 1914 | 1909 |
|---------------------------------------|-------------|-------------|------------------|
| Organs—Continued. | | | |
| Reed— | | | |
| Number..... | 26,429 | 40,533 | 64,111 |
| Value..... | \$1,868,677 | \$1,718,011 | \$2,595,429 |
| Orchestrions— | | | |
| Number..... | 721 | 1,088 | (²) |
| Value..... | \$546,404 | \$1,040,091 | |
| Perforated music rolls, value..... | \$3,103,554 | \$833,357 | \$210,150 |
| Parts, materials, and supplies..... | \$1,432,797 | | |
| Piano and organ, value..... | \$1,258,303 | \$2,013,197 | \$2,442,611 |
| Other musical instruments, value..... | \$174,494 | | |
| Repairs, value..... | \$1,252,156 | | |
| All other products, value..... | \$4,289,818 | \$1,780,880 | \$2,119,970 |

² Not reported separately.

The total number of organs decreased during each period shown in the table, while the value increased 3.8 per cent from 1914 to 1919. The production of reed organs decreased in number at each period shown, while pipe organs decreased in both number and value from 1914 to 1919.

Eight establishments, whose chief product was pianos, manufactured organs valued at \$1,663,455, while five, whose chief product was organs, manufactured pianos valued at \$86,012.

Eight establishments, whose chief products were pianos and organs, manufactured orchestrions valued at \$546,404. The value of perforated music rolls made in establishments manufacturing pianos and organs increased \$2,887,404, or 1,335.8 per cent, since 1909, the first census to report these data separately.

GENERAL TABLES.

Table 16 shows, for 1919, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products as reported for the combined industries. Table 17 presents, for 1919, by states, the more detailed statistics of the industry.

TABLE 16.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

| STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. | STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. |
|--------------------|----------------------|---|---|----------------------------------|-------------------------|----------------------------|----------------------------|-----------------------|----------------------|---|---|----------------------------------|-------------------------|----------------------------|----------------------------|
| | | | | | Expressed in thousands. | | | | | | | | Expressed in thousands. | | |
| | | | | | | | | | | | | | | | |
| United States..... | 1919 | 372 | 35,907 | 47,804 | \$37,920 | \$73,275 | \$149,851 | Minnesota..... | 1919 | 3 | 76 | 204 | \$85 | \$172 | \$427 |
| | 1914 | 478 | 37,556 | 44,349 | 23,353 | 41,253 | 88,948 | | 1914 | 4 | 108 | 249 | 79 | 156 | 315 |
| | 1909 | 507 | 38,020 | 41,623 | 22,762 | 43,765 | 89,790 | | 1909 | 5 | 143 | 153 | 100 | 126 | 294 |
| California..... | 1919 | 5 | 94 | 196 | 97 | 149 | 321 | New Jersey..... | 1919 | 19 | 1,642 | 2,315 | 1,517 | 2,233 | 5,424 |
| | 1914 | 8 | 94 | 89 | 74 | 132 | 252 | | 1914 | 24 | 1,960 | 2,102 | 1,096 | 1,738 | 3,503 |
| | 1909 | 11 | 57 | 53 | 60 | 41 | 150 | | 1909 | 18 | 1,393 | 1,121 | 721 | 1,076 | 2,229 |
| Connecticut..... | 1919 | 13 | 2,028 | 2,734 | 1,909 | 3,587 | 7,397 | New York..... | 1919 | 131 | 11,317 | 12,589 | 12,368 | 28,635 | 52,231 |
| | 1914 | 19 | 2,267 | 2,696 | 1,277 | 2,570 | 5,230 | | 1914 | 160 | 12,602 | 11,527 | 7,976 | 15,756 | 33,072 |
| | 1909 | 17 | 2,304 | 2,559 | 1,251 | 3,022 | 5,538 | | 1909 | 184 | 11,938 | 10,905 | 7,752 | 17,495 | 38,080 |
| Illinois..... | 1919 | 52 | 8,575 | 10,475 | 9,118 | 15,538 | 35,255 | Ohio..... | 1919 | 22 | 1,820 | 2,747 | 1,840 | 3,154 | 6,797 |
| | 1914 | 71 | 8,334 | 8,597 | 5,237 | 8,322 | 19,706 | | 1914 | 27 | 1,745 | 2,201 | 1,022 | 1,673 | 3,545 |
| | 1909 | 68 | 8,777 | 8,123 | 5,009 | 8,642 | 19,176 | | 1909 | 30 | 1,841 | 2,254 | 1,092 | 1,922 | 3,926 |
| Indiana..... | 1919 | 10 | 1,474 | 2,259 | 1,617 | 3,467 | 7,179 | Pennsylvania..... | 1919 | 23 | 972 | 1,970 | 973 | 2,157 | 3,798 |
| | 1914 | 15 | 1,614 | 3,253 | 1,054 | 1,647 | 3,934 | | 1914 | 28 | 922 | 1,233 | 555 | 1,058 | 2,034 |
| | 1909 | 15 | 1,667 | 2,650 | 994 | 1,703 | 3,686 | | 1909 | 30 | 1,182 | 1,260 | 505 | 1,248 | 2,382 |
| Massachusetts..... | 1919 | 40 | 3,950 | 4,462 | 4,392 | 5,808 | 13,342 | Wisconsin..... | 1919 | 13 | 519 | 652 | 524 | 1,574 | 2,937 |
| | 1914 | 52 | 3,906 | 5,105 | 2,510 | 3,702 | 8,213 | | 1914 | 16 | 495 | 553 | 307 | 866 | 1,470 |
| | 1909 | 59 | 4,245 | 4,454 | 2,668 | 4,149 | 9,106 | | 1909 | 11 | 369 | 339 | 202 | 490 | 893 |
| Michigan..... | 1919 | 11 | 1,305 | 2,098 | 1,379 | 3,182 | 6,098 | All other states..... | 1919 | 30 | 2,135 | 5,103 | 2,101 | 3,619 | 7,645 |
| | 1914 | 17 | 1,070 | 1,927 | 677 | 1,259 | 2,682 | | 1914 | 47 | 2,439 | 4,817 | 1,469 | 2,874 | 4,942 |
| | 1909 | 17 | 1,779 | 2,690 | 1,075 | 2,009 | 4,226 | | 1909 | 42 | 2,325 | 5,062 | 1,333 | 1,842 | 4,504 |

¹ Excludes statistics for 3 establishments, to avoid disclosing individual operations.

MANUFACTURES.

TABLE 17.—DETAILED STATEMENT,

| INDUSTRY AND STATE. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | Capital. |
|---------------------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|----------------|--|---------|-----------|---------|----------|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | Total. | 16 and over. | | Under 16. | | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | Male. | Female. | Male. | Female. | |
| | | | | | | | | Maximum month. | Minimum month. | | | | | |

PIANOS AND ORGANS AND MATERIALS.

| | | | | | | | | | | | | | | | | |
|----|-------------------------------------|-----|--------|-----|-------|-------|-------|--------|-----------|-----------|--------|--------|-------|-------|-------|---------------|
| 1 | United States..... | 372 | 39,931 | 127 | 1,285 | 1,482 | 1,130 | 35,907 | Au 38,426 | Ja 32,458 | 38,750 | 32,658 | 5,445 | 465 | 182 | \$155,200,792 |
| 2 | California..... | 5 | 117 | 2 | 7 | 5 | 9 | 94 | My 116 | De 72 | 110 | 82 | 28 | ..... | 74 | 523,600 |
| 3 | Illinois..... | 52 | 9,590 | 10 | 224 | 309 | 322 | 8,575 | Oc 9,045 | Ja 7,873 | 9,134 | 7,683 | 1,225 | 152 | 74 | 45,409,050 |
| 4 | Maryland..... | 7 | 778 | 3 | 16 | 22 | 17 | 720 | No 747 | Ja 677 | 743 | 697 | 27 | 17 | 2 | 3,520,239 |
| 5 | Massachusetts..... | 40 | 4,267 | 15 | 133 | 86 | 83 | 3,950 | De 4,315 | Ja 3,334 | 4,359 | 3,658 | 536 | 121 | 44 | 12,725,285 |
| 6 | Michigan..... | 11 | 1,461 | 1 | 42 | 82 | 31 | 1,305 | De 1,694 | My 1,132 | 1,584 | 1,372 | 159 | 44 | 9 | 8,877,220 |
| 7 | Minnesota..... | 3 | 100 | 3 | 8 | 10 | 3 | 76 | Ap 85 | Ja 68 | 77 | 75 | 2 | ..... | ..... | 824,484 |
| 8 | New York..... | 131 | 12,614 | 39 | 440 | 484 | 334 | 11,317 | Au 13,005 | Oc 7,972 | 11,573 | 9,584 | 1,648 | 24 | 17 | 48,025,215 |
| 9 | Ohio..... | 22 | 2,025 | 11 | 84 | 68 | 42 | 1,820 | De 2,152 | Ja 1,400 | 2,155 | 1,810 | 343 | 2 | ..... | 6,023,146 |
| 10 | Pennsylvania..... | 23 | 1,094 | 17 | 46 | 33 | 26 | 972 | De 1,018 | Ja 924 | 1,015 | 887 | 90 | 38 | ..... | 4,434,109 |
| 11 | Vermont..... | 3 | 504 | 1 | 10 | 32 | 17 | 444 | De 520 | Ja 347 | 521 | 479 | 42 | ..... | ..... | 1,703,729 |
| 12 | All other states ¹ | 75 | 7,471 | 25 | 275 | 291 | 246 | 6,634 | ..... | ..... | 7,479 | 6,031 | 1,345 | 67 | 36 | 23,324,676 |

PIANOS.

| | | | | | | | | | | | | | | | | |
|----|-------------------------------------|-----|--------|-------|-----|-------|-----|--------|-----------|-----------|--------|--------|-------|-------|-------|-------------|
| 1 | United States..... | 191 | 25,760 | 33 | 803 | 1,168 | 799 | 22,957 | Se 24,719 | Oc 20,902 | 24,665 | 22,131 | 2,162 | 287 | 85 | 116,106,536 |
| 2 | Connecticut..... | 5 | 684 | ..... | 41 | 13 | 22 | 608 | No 683 | Ja 544 | 655 | 582 | 65 | 5 | 3 | 3,111,770 |
| 3 | Illinois..... | 33 | 7,731 | 7 | 168 | 337 | 278 | 6,991 | Oc 7,439 | Ja 6,417 | 7,539 | 6,629 | 721 | 129 | 60 | 42,005,469 |
| 4 | Indiana..... | 8 | 1,591 | ..... | 34 | 84 | 41 | 1,432 | De 1,783 | Ja 1,160 | 1,727 | 1,406 | 230 | 18 | 4 | 4,873,370 |
| 5 | Massachusetts..... | 14 | 2,419 | 3 | 70 | 67 | 51 | 2,228 | De 2,394 | Ja 1,885 | 2,394 | 2,215 | 114 | 57 | 8 | 8,545,273 |
| 6 | Michigan..... | 8 | 1,257 | ..... | 34 | 77 | 24 | 1,122 | De 1,288 | My 1,038 | 1,288 | 1,103 | 132 | 44 | 9 | 7,882,678 |
| 7 | New Jersey..... | 6 | 813 | 1 | 19 | 62 | 18 | 713 | Je 826 | No 544 | 777 | 619 | 158 | ..... | ..... | 1,903,371 |
| 8 | New York..... | 79 | 7,868 | 15 | 304 | 396 | 245 | 6,908 | Se 8,050 | Oc 3,822 | 6,957 | 6,537 | 415 | 4 | 1 | 33,857,048 |
| 9 | Ohio..... | 10 | 902 | ..... | 52 | 37 | 26 | 787 | De 979 | Ja 595 | 979 | 825 | 152 | 2 | ..... | 3,054,450 |
| 10 | Pennsylvania..... | 11 | 855 | 6 | 27 | 28 | 20 | 774 | No 795 | Ja 747 | 794 | 728 | 63 | 3 | ..... | 3,714,979 |
| 11 | Wisconsin..... | 7 | 521 | ..... | 27 | 18 | 28 | 448 | De 477 | Ja 387 | 477 | 432 | 32 | 13 | ..... | 2,183,302 |
| 12 | All other states ² | 10 | 1,009 | 1 | 27 | 49 | 46 | 946 | ..... | ..... | 1,078 | 995 | 71 | 12 | ..... | 4,974,220 |

ORGANS.

| | | | | | | | | | | | | | | | | |
|---|-------------------------------------|----|-------|----|-----|-------|----|-------|----------|----------|-------|-------|-------|-------|-------|-----------|
| 1 | United States..... | 68 | 2,285 | 56 | 121 | 84 | 83 | 1,941 | De 2,111 | Ja 1,770 | 2,132 | 1,850 | 235 | 41 | 6 | 6,770,537 |
| 2 | Illinois..... | 10 | 317 | 2 | 15 | 13 | 14 | 273 | Jy 291 | Ja 242 | 290 | 246 | 39 | 3 | 2 | 925,235 |
| 3 | Massachusetts..... | 5 | 166 | 3 | 12 | 3 | 7 | 141 | De 155 | Ja 128 | 155 | 145 | 10 | ..... | ..... | 472,119 |
| 4 | New York..... | 16 | 321 | 18 | 13 | 8 | 14 | 268 | De 324 | Ja 213 | 326 | 259 | 63 | 2 | 2 | 691,561 |
| 5 | Ohio..... | 6 | 75 | 10 | 10 | ..... | 2 | 53 | De 60 | Ja 46 | 59 | 54 | 5 | ..... | ..... | 154,935 |
| 6 | Pennsylvania..... | 7 | 103 | 8 | 12 | 3 | 1 | 79 | De 95 | Fe 63 | 95 | 63 | ..... | 32 | ..... | 260,055 |
| 7 | Wisconsin..... | 4 | 88 | 3 | 12 | 2 | 3 | 68 | No 85 | Ja 45 | 80 | 68 | 12 | ..... | ..... | 379,841 |
| 8 | All other states ³ | 20 | 1,215 | 12 | 47 | 55 | 42 | 1,099 | ..... | ..... | 1,127 | 1,015 | 106 | 4 | 2 | 3,877,741 |

PIANO AND ORGAN MATERIALS.

| | | | | | | | | | | | | | | | | |
|---|-------------------------------------|-----|--------|----|-----|-----|-----|--------|-----------|----------|--------|-------|-------|-------|-------|------------|
| 1 | United States..... | 113 | 11,886 | 38 | 361 | 230 | 248 | 11,009 | Au 11,957 | Ja 9,103 | 11,953 | 8,677 | 3,048 | 137 | 91 | 32,323,669 |
| 2 | Connecticut..... | 6 | 1,379 | 4 | 38 | 26 | 20 | 1,291 | De 1,487 | Ja 984 | 1,487 | 1,097 | 340 | 21 | 29 | 3,073,105 |
| 3 | Illinois..... | 9 | 1,402 | 1 | 41 | 19 | 30 | 1,311 | Au 1,391 | Ja 1,214 | 1,305 | 1,808 | 465 | 20 | 12 | 2,478,268 |
| 4 | Massachusetts..... | 21 | 1,682 | 9 | 51 | 16 | 25 | 1,681 | No 1,855 | Fe 1,303 | 1,810 | 1,298 | 412 | 64 | 36 | 3,707,893 |
| 5 | New Jersey..... | 11 | 896 | 4 | 39 | 42 | 53 | 758 | No 805 | Ja 684 | 706 | 430 | 330 | 0 | ..... | 1,837,785 |
| 6 | New York..... | 36 | 4,425 | 6 | 123 | 80 | 75 | 4,141 | Au 4,667 | Ja 3,426 | 4,200 | 3,088 | 1,170 | 18 | 14 | 13,476,066 |
| 7 | Ohio..... | 6 | 1,048 | 1 | 22 | 31 | 14 | 980 | De 1,113 | Ja 768 | 1,117 | 931 | 186 | ..... | ..... | 2,813,705 |
| 8 | Pennsylvania..... | 5 | 186 | 3 | 7 | 2 | 5 | 119 | Oc 128 | Ja 108 | 126 | 96 | 27 | 3 | ..... | 450,076 |
| 9 | All other states ⁴ | 19 | 918 | 10 | 40 | 14 | 26 | 828 | ..... | ..... | 1,052 | 929 | 118 | 5 | ..... | 3,566,804 |

¹ Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).³ All other states embrace: Alabama, 1 establishment; Connecticut, 13; Indiana, 10; Iowa, 2; Kentucky, 6; Louisiana, 1; Maine, 1; Missouri, 2; New Hampshire, 1; New Jersey, 19; North Carolina, 1; Rhode Island, 1; Virginia, 3; Washington, 1; Wisconsin, 13.⁴ All other states embrace: Alabama, 1 establishment; Iowa, 1; Kentucky, 2; Maine, 1; Maryland, 3; Minnesota, 2.

PIANOS AND ORGANS AND MATERIALS.

983

BY STATES: 1919.

| EXPENSES. | | | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | |
|---------------------|--------------|---------------|--------------------|------------------|---|----------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------------|-----------------|------------------------------|---------------------------|--|
| Salaries and wages. | | | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | Electric horsepower generated in establishments reporting. |
| Officials. | Clerks, etc. | Wage earners. | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Owned. | | | | |
| | | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal combustion engines. | Water power. ¹ | |

PIANOS AND ORGANS AND MATERIALS.

| | | | | | | | | | | | | | | | | | |
|-------------|-------------|--------------|----------|-------------|-------------|--------------|-------------|---------------|--------------|--------|--------|-------|-------|-------|--------|--------|----|
| \$5,610,886 | \$3,352,896 | \$37,919,855 | \$69,618 | \$1,223,231 | \$3,732,299 | \$71,719,369 | \$1,555,524 | \$149,850,945 | \$70,578,052 | 47,804 | 30,050 | 802 | 1,280 | 436 | 15,176 | 13,736 | 1 |
| 17,725 | 10,632 | 96,655 | ..... | 9,577 | 1,848 | 145,707 | 3,720 | 320,975 | 171,548 | 196 | ..... | ..... | ..... | ..... | 196 | ..... | 2 |
| 1,138,109 | 929,464 | 9,118,090 | 2,546 | 143,327 | 1,234,156 | 15,156,406 | 381,068 | 36,255,055 | 20,710,681 | 10,475 | 6,860 | 600 | 25 | ..... | 2,990 | 4,233 | 3 |
| 84,849 | 35,992 | 816,636 | 1,708 | 14,016 | 67,480 | 1,022,890 | 23,271 | 2,670,421 | 1,624,260 | 619 | 350 | ..... | 225 | ..... | 44 | 577 | 4 |
| 631,885 | 182,065 | 4,391,735 | 17,120 | 145,341 | 271,327 | 5,624,624 | 182,026 | 13,342,488 | 7,534,938 | 4,462 | 2,952 | 67 | 96 | 122 | 1,235 | 1,703 | 5 |
| 269,897 | 162,821 | 1,379,252 | ..... | 7,357 | 190,901 | 3,123,073 | 50,067 | 6,097,874 | 2,915,734 | 2,098 | 1,362 | ..... | 6 | ..... | 730 | 482 | 6 |
| 33,125 | 35,530 | 84,738 | ..... | ..... | 11,296 | 164,666 | 7,318 | 427,328 | 255,344 | 204 | 126 | ..... | ..... | ..... | 79 | 49 | 7 |
| 1,943,684 | 1,016,182 | 12,367,547 | 35,758 | 735,452 | 1,040,686 | 28,166,605 | 468,350 | 52,231,101 | 23,596,148 | 12,589 | 7,200 | 150 | 348 | 13 | 4,818 | 1,985 | 8 |
| 252,321 | 130,663 | 1,839,917 | 2,380 | 73,281 | 187,579 | 3,100,652 | 53,385 | 6,797,129 | 3,643,092 | 2,747 | 600 | ..... | 455 | ..... | 1,692 | 207 | 9 |
| 125,101 | 97,542 | 973,362 | 6,743 | 18,527 | 117,996 | 2,123,590 | 33,560 | 3,798,015 | 1,640,855 | 1,970 | 1,662 | ..... | 23 | ..... | 285 | 386 | 10 |
| 70,546 | 66,122 | 430,504 | ..... | ..... | 18,910 | 575,272 | 24,708 | 1,422,795 | 822,817 | 1,425 | 1,030 | ..... | ..... | 95 | 300 | 388 | 11 |
| 1,043,534 | 685,293 | 6,421,419 | 3,363 | 70,353 | 590,120 | 12,515,834 | 317,253 | 26,487,764 | 13,654,627 | 11,019 | 7,849 | 55 | 102 | 206 | 2,807 | 3,726 | 12 |

PIANOS.

| | | | | | | | | | | | | | | | | | |
|-----------|-----------|------------|--------|---------|-----------|------------|-----------|-------------|------------|--------|--------|-------|-------|-------|-------|-------|----|
| 3,731,556 | 2,666,010 | 25,474,200 | 27,640 | 910,874 | 2,700,214 | 63,322,488 | 1,042,168 | 107,088,050 | 52,723,394 | 28,732 | 19,015 | 807 | 623 | 100 | 8,187 | 9,118 | 1 |
| 128,985 | 36,203 | 645,322 | ..... | 8,260 | 15,578 | 1,450,353 | 26,664 | 2,505,958 | 1,022,941 | 357 | 720 | ..... | ..... | ..... | 137 | 262 | 2 |
| 924,736 | 857,240 | 7,654,467 | ..... | 119,170 | 1,145,210 | 12,648,005 | 308,056 | 80,848,147 | 17,893,483 | 8,421 | 5,485 | 600 | ..... | ..... | 2,336 | 2,998 | 3 |
| 203,638 | 224,249 | 1,578,620 | ..... | ..... | 187,659 | 3,293,090 | 82,577 | 6,978,030 | 3,901,993 | 2,184 | 1,715 | ..... | ..... | ..... | 469 | 990 | 4 |
| 348,484 | 138,346 | 2,703,293 | ..... | 102,478 | 219,381 | 3,312,415 | 111,706 | 8,123,257 | 4,699,136 | 2,502 | 1,812 | ..... | ..... | 100 | 633 | 1,435 | 5 |
| 247,497 | 149,324 | 1,170,048 | ..... | 7,357 | 181,579 | 2,774,180 | 49,311 | 5,297,445 | 2,915,734 | 1,797 | 1,037 | ..... | ..... | ..... | 730 | 482 | 6 |
| 54,304 | 102,950 | 723,249 | ..... | 21,208 | 34,945 | 1,142,034 | 40,790 | 2,205,253 | 1,022,370 | 1,440 | 1,305 | ..... | ..... | ..... | 135 | 875 | 7 |
| 1,409,868 | 823,039 | 8,085,286 | 20,800 | 578,278 | 623,270 | 21,729,348 | 310,071 | 37,978,813 | 15,939,394 | 6,784 | 3,575 | 150 | 303 | ..... | 2,756 | 915 | 8 |
| 135,497 | 97,090 | 743,274 | ..... | 43,742 | 63,078 | 1,940,773 | 19,126 | 3,475,543 | 1,515,944 | 935 | 600 | ..... | 95 | ..... | 240 | 207 | 9 |
| 77,669 | 88,854 | 759,417 | 5,200 | 8,580 | 114,004 | 1,720,480 | 23,699 | 3,022,688 | 1,272,509 | 1,555 | 1,450 | ..... | ..... | ..... | 105 | 375 | 10 |
| 81,209 | 73,303 | 438,023 | 1,640 | 3,239 | 45,008 | 1,456,583 | 27,538 | 2,669,704 | 1,185,583 | 582 | 350 | ..... | ..... | ..... | 232 | ..... | 11 |
| 119,760 | 105,242 | 973,201 | ..... | 18,562 | 70,502 | 1,842,001 | 44,830 | 3,883,212 | 1,990,351 | 1,705 | 966 | ..... | 225 | ..... | 514 | 900 | 12 |

ORGANS.

| | | | | | | | | | | | | | | | | | |
|---------|---------|-----------|--------|--------|--------|-----------|---------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|---|
| 339,262 | 184,410 | 1,978,518 | 26,806 | 45,505 | 72,938 | 2,111,833 | 105,264 | 5,973,268 | 3,750,171 | 3,251 | 1,300 | ..... | 188 | ..... | 1,703 | 409 | 1 |
| 49,832 | 25,326 | 267,981 | 1,796 | 10,144 | 19,276 | 327,024 | 15,562 | 869,167 | 526,581 | 425 | 125 | ..... | ..... | ..... | 300 | 40 | 2 |
| 34,588 | 9,006 | 101,091 | 17,050 | 720 | 3,024 | 125,643 | 0,089 | 445,083 | 313,351 | 167 | 40 | ..... | 90 | ..... | 37 | 50 | 3 |
| 20,642 | 20,718 | 288,558 | 6,676 | 11,963 | 10,357 | 168,304 | 18,487 | 683,169 | 496,378 | 384 | 110 | ..... | 20 | ..... | 254 | ..... | 4 |
| 14,810 | 2,012 | 67,275 | 2,380 | 2,404 | 1,356 | 91,593 | 1,505 | 233,193 | 140,095 | ..... | ..... | ..... | 20 | ..... | 49 | ..... | 5 |
| 18,823 | 3,865 | 81,334 | 1,473 | 1,835 | 1,823 | 92,943 | 2,124 | 224,472 | 129,405 | 214 | 125 | ..... | 23 | ..... | 66 | ..... | 6 |
| 21,850 | 240 | 81,091 | ..... | 1,250 | 2,463 | 70,576 | 3,367 | 249,557 | 166,614 | 68 | ..... | ..... | ..... | ..... | 68 | ..... | 7 |
| 178,717 | 123,243 | 1,030,888 | 3,431 | 17,129 | 33,709 | 1,226,750 | 58,130 | 3,268,627 | 1,983,747 | 1,924 | 960 | ..... | 35 | ..... | 920 | 319 | 8 |

PIANO AND ORGAN MATERIALS.

| | | | | | | | | | | | | | | | | | |
|-----------|---------|------------|--------|---------|---------|------------|---------|------------|------------|--------|-------|-------|-------|-------|-------|-------|---|
| 1,539,948 | 502,476 | 10,467,137 | 15,172 | 266,852 | 950,147 | 16,285,048 | 403,092 | 36,780,627 | 20,090,487 | 15,821 | 9,675 | 55 | 409 | 336 | 5,286 | 4,209 | 1 |
| 151,885 | 49,555 | 1,096,609 | ..... | 12,080 | 81,155 | 1,899,882 | 57,484 | 4,266,704 | 2,309,338 | 1,628 | 1,173 | 55 | 61 | 201 | 138 | 1,440 | 2 |
| 103,541 | 46,898 | 1,195,642 | 750 | 14,013 | 69,670 | 2,180,777 | 60,350 | 4,537,741 | 2,290,614 | 1,629 | 1,250 | ..... | 25 | ..... | 354 | 1,225 | 3 |
| 248,813 | 35,313 | 1,527,351 | 70 | 42,143 | 48,022 | 2,186,566 | 65,131 | 4,774,148 | 2,522,451 | 1,793 | 1,100 | ..... | 0 | 22 | 665 | 218 | 4 |
| 195,505 | 82,453 | 620,329 | ..... | 13,108 | 151,786 | 850,097 | 22,829 | 2,822,142 | 1,949,216 | 755 | 585 | ..... | 0 | 5 | 159 | 157 | 5 |
| 513,174 | 172,375 | 3,993,403 | 14,282 | 145,211 | 407,059 | 6,268,953 | 139,792 | 18,579,119 | 7,160,374 | 5,421 | 3,575 | ..... | 25 | 13 | 1,808 | 1,070 | 6 |
| 102,014 | 61,551 | 1,029,368 | ..... | 27,075 | 123,115 | 1,058,286 | 32,754 | 3,088,393 | 1,987,363 | 1,743 | ..... | ..... | 340 | ..... | 1,403 | ..... | 7 |
| 28,699 | 4,823 | 132,611 | 70 | 8,112 | 2,169 | 304,167 | 7,737 | 550,855 | 238,951 | 201 | 87 | ..... | ..... | ..... | 114 | ..... | 8 |
| 136,317 | 49,508 | 882,764 | ..... | 5,110 | 67,171 | 1,526,320 | 22,015 | 3,180,525 | 1,632,100 | 2,651 | 1,905 | ..... | 6 | 95 | 645 | 88 | 9 |

¹ All other states embrace: California, 3 establishments; Connecticut, 2; Iowa, 1; Kentucky, 3; Maryland, 2; Minnesota, 1; Missouri, 2; New Jersey, 2; North Carolina, 1; Vermont, 1; Virginia, 2.
² All other states embrace: California, 2 establishments; Indiana, 2; Kentucky, 1; Louisiana, 1; Maryland, 2; Michigan, 3; New Hampshire, 1; Rhode Island, 1; Vermont, 2; Virginia, 1; Washington, 1; Wisconsin, 2.

MUSICAL INSTRUMENTS AND MATERIALS, NOT SPECIFIED.

GENERAL STATISTICS.

General character of the industry.—The establishments in this industry were engaged primarily in the manufacture of various kinds of wind, percussive, and stringed musical instruments, and materials therefor. The instruments include, among others, accordions, banjos, bones, bugles, castanets, concertinas, cornets, trombones, trumpets, and other metal instruments for band and orchestral use; cymbals, drums, bass and snare; fifes, flageolets, flutes, piccolos, guitars, harps, lutes, lyres, mandolins, mechanical musical instruments, musical bells, sonnettes of wood and metal, ukuleles, steel guitars, violoncellos, and all other instruments of the violin type; xylophones and zithers. Parts of these instruments, such as strings, drum-heads, violin bows and bridges, etc., are also produced for sale, as such, direct to musicians or to manufacturers of complete instruments. Thus there is some duplication within the industry. The number and value of products were not reported separately. In addition to the production here presented, products

to the value of \$513,884 were reported by establishments engaged primarily in other industries.

Comparative summary.—Table 18 summarizes the statistics of establishments engaged in the manufacture of musical instruments and materials not specified, for each census from 1879 to 1919, and gives percentages of increase. There was comparatively little change from 1879 to 1914 in the more important items given in the table. Figures for 1919 show a marked increase in all items with the exception of number of establishments, which shows a slight decrease from 1914 to 1919.

In 1919 Indiana ranked first as measured by value of products, to which position it advanced in 1914; Illinois retained second place, and New York third. In both censuses these three states reported more than one-half of the total value of products.

Persons engaged in the industry.—Table 19 shows for 1919 and 1914 the number of persons engaged in the industry distributed by sex and age.

TABLE 18.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

| | 1919 | 1914 | 1909 | 1904 | 1899 | 1889 | 1879 | PER CENT OF INCREASE. ¹ | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|------------------|------------------|------------------------------------|-----------|-----------|-----------|-----------|------------------|
| | | | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 | 1889-1899 | 1879-1889 |
| Number of establishments..... | 240 | 241 | 187 | 181 | 220 | 283 | 84 | -0.4 | 28.0 | 3.3 | -21.0 | -21.8 | ..... |
| Persons engaged..... | 4,957 | 2,410 | 2,269 | 2,554 | 2,799 | (²) | (²) | 105.7 | 6.2 | -11.2 | -8.8 | ..... | ..... |
| Proprietors and firm members..... | 223 | 234 | 187 | 190 | 236 | (²) | (²) | -4.7 | 25.1 | -1.6 | -19.5 | ..... | ..... |
| Salaried employees..... | 621 | 345 | 260 | 225 | 158 | (²) | (²) | 80.0 | 32.7 | 15.6 | 42.4 | ..... | ..... |
| Wage earners (average number)..... | 4,113 | 1,831 | 1,822 | 2,139 | 2,405 | 1,050 | 573 | 124.6 | 0.5 | -14.8 | -11.1 | 127.7 | (²) |
| Primary horsepower..... | 3,286 | 1,895 | 1,423 | 1,603 | 1,417 | 696 | (²) | 76.2 | 31.1 | -11.2 | 13.1 | 103.6 | ..... |
| Capital..... | \$7,876,132 | \$3,857,787 | \$3,207,669 | \$3,743,469 | \$3,896,101 | \$1,329,329 | \$654,850 | 104.2 | 17.0 | -11.9 | -3.9 | 193.1 | 108.0 |
| Salaries and wages..... | 5,016,828 | 1,545,709 | 1,335,128 | 1,413,834 | 1,373,784 | 862,177 | 298,052 | 224.6 | 15.8 | -5.6 | 2.9 | 59.3 | 194.2 |
| Salaries..... | 1,032,172 | 385,197 | 342,853 | 251,766 | 141,745 | (²) | (²) | 168.0 | 12.4 | 36.2 | 77.6 | ..... | ..... |
| Wages..... | 3,984,656 | 1,160,512 | 992,275 | 1,162,068 | 1,232,039 | (²) | (²) | 243.4 | 17.0 | -14.6 | -5.7 | ..... | ..... |
| Paid for contract work..... | 32,027 | 14,601 | 14,990 | 1,042 | 6,254 | (²) | (²) | 119.3 | -2.6 | 1,338.0 | -83.3 | ..... | ..... |
| Rent and taxes..... | 415,070 | 128,708 | 80,309 | 187,457 | 180,617 | (²) | (²) | 222.5 | 49.1 | ..... | ..... | ..... | ..... |
| Cost of materials..... | 4,444,729 | 1,022,534 | 889,600 | 1,129,939 | 1,205,337 | 510,604 | 385,776 | 394.7 | 14.9 | -21.3 | -6.3 | 136.0 | 32.4 |
| Value of products..... | 12,506,334 | 3,624,667 | 3,228,108 | 3,481,710 | 3,394,734 | 1,838,613 | 853,746 | 245.0 | 12.3 | -7.3 | 2.6 | 79.7 | 121.2 |
| Value added by manufacture ³ | 8,061,605 | 2,602,083 | 2,338,508 | 2,351,771 | 2,189,307 | 1,377,949 | 467,970 | 209.8 | 11.3 | -0.6 | 7.4 | 58.9 | 194.4 |

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

² Figures not available.

³ Figures not strictly comparable.

⁴ Exclusive of internal revenue.

⁵ Value of products less cost of materials.

MUSICAL INSTRUMENTS AND MATERIALS.

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TABLE 19.—PERSONS ENGAGED IN THE INDUSTRY: 1919 AND 1914.

| CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|--------------------------------------|----------------------|----------------|----------------|--------------|-----------------------|--------------|--|----------------------|----------------|----------------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| All classes..... | 1919 1914 | 4,957 2,410 | 3,908 2,002 | 1,049 408 | 78.8 83.1 | 21.2 16.9 | Clerks and other subordinate salaried employees. | 1919 1914 | 426 248 | 166 85 | 260 163 | 39.0 84.3 | 61.0 15.7 |
| Proprietors and officials..... | 1919 1914 | 418 331 | 410 324 | 8 7 | 98.1 97.9 | 1.9 2.1 | Wage earners (average number)..... | 1919 1914 | 4,113 1,831 | 3,332 1,593 | 781 238 | 81.0 87.0 | 19.0 13.0 |
| Proprietors and firm members... | 1919 1914 | 223 234 | 220 229 | 3 5 | 98.7 97.9 | 1.3 2.1 | 16 years of age and over..... | 1919 1914 | 4,043 1,801 | 3,235 1,571 | 758 230 | 81.3 87.2 | 18.7 12.8 |
| Salaried officers of corporations... | 1919 1914 | 67 46 | 64 44 | 3 2 | 95.5 95.7 | 4.5 4.3 | Under 16 years of age..... | 1919 1914 | 70 30 | 47 22 | 23 8 | 67.1 73.3 | 32.9 26.7 |
| Superintendents and managers... | 1919 1914 | 128 51 | 126 51 | 2 | 98.4 100.0 | 1.6 | | | | | | | |

GENERAL TABLES.

Comparative summary and detailed statement, by states.—Table 20 shows for 1919 and 1914 and in totals for 1909, comparative statistics, by states, for number of establishments, average number of wage earners,

primary horsepower, wages, cost of materials, and value of products; and Table 21 presents for 1919, by states, the more detailed statistics of the industry.

TABLE 20.—COMPARATIVE SUMMARY, BY STATES: 1919 AND 1914.

| STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Expressed in thousands. | | | STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Pri- mary horse- power. | Expressed in thousands. | | |
|--------------------|----------------------|---|---|----------------------------------|-------------------------|----------------------------|----------------------------|-----------------------|----------------------|---|---|----------------------------------|-------------------------|----------------------------|----------------------------|
| | | | | | Wages. | Cost of mate- rials. | Value of prod- ucts. | | | | | | Wages. | Cost of mate- rials. | Value of prod- ucts. |
| United States..... | 1919 1914 1909 | 240 241 187 | 4,113 1,831 1,822 | 3,286 1,865 1,423 | \$3,985 1,101 992 | \$4,445 1,023 890 | \$12,506 3,025 3,228 | Minnesota..... | 1919 1914 | 3 4 | 3 4 | 5 12 | \$4 2 | \$1 2 | \$10 21 |
| California..... | 1919 1914 | 16 17 | 89 20 | 96 9 | 95 17 | 72 15 | 222 65 | Missouri..... | 1919 1914 | 5 5 | 7 9 | 3 3 | 6 5 | 11 6 | 27 17 |
| Illinois..... | 1919 1914 | 23 27 | 669 378 | 623 352 | 695 237 | 799 250 | 2,171 719 | New Jersey..... | 1919 1914 | 8 7 | 291 242 | 317 244 | 264 112 | 422 128 | 987 354 |
| Indiana..... | 1919 1914 | 14 12 | 1,337 395 | 825 503 | 1,229 264 | 1,101 155 | 3,148 742 | New York..... | 1919 1914 | 67 61 | 352 227 | 261 192 | 380 136 | 678 185 | 2,060 636 |
| Massachusetts..... | 1919 1914 | 25 25 | 246 282 | 202 302 | 238 205 | 280 163 | 792 419 | Pennsylvania..... | 1919 1914 | 22 18 | 115 73 | 93 97 | 109 46 | 108 24 | 328 133 |
| Michigan..... | 1919 1914 | 11 14 | 378 139 | 268 76 | 380 95 | 258 47 | 866 329 | Washington..... | 1919 1914 | 5 8 | 2 | 2 3 | 1 | 1 1 | 7 13 |
| | | | | | | | | All other states..... | 1919 1914 | 41 43 | 626 60 | 526 72 | 576 41 | 714 47 | 1,888 177 |

MANUFACTURES.

TABLE 21.—DETAILED STATEMENT, BY STATES: 1919.

| STATE. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | WAGE EARNERS DEC. 15 OR NEAREST REPRESENTATIVE DAY. | | | | | | EXPENSES. | | |
|-------------------------------------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------|----------------|---|--------------|---------|-----------|---------|-------------|---------------------|--------------|----------------------|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Average number. | Wage earners. | | Total. | 16 and over. | | Under 16. | | Capital. | Salaries and wages. | | |
| | | | | | Male. | Female. | | Maximum month. | Minimum month. | | Male. | Female. | Male. | Female. | | Officials. | Clerks, etc. | |
| | | | | | | | | | | | | | | | | | | Number, 15th day of— |
| United States..... | 240 | 4,957 | 223 | 195 | 166 | 260 | 4,113 | Dec 4,377 | Jan 3,853 | 4,361 | 3,513 | 774 | 50 | 24 | \$7,876,182 | \$642,109 | \$390,063 | |
| California..... | 16 | 117 | 24 | 2 | 1 | 1 | 89 | Dec 103 | Jan 86 | 104 | 78 | 23 | 3 | ..... | 89,534 | 4,000 | 1,900 | |
| Illinois..... | 23 | 706 | 8 | 35 | 27 | 27 | 669 | No 785 | Jan 584 | 717 | 635 | 55 | 18 | 9 | 1,416,943 | 170,559 | 62,494 | |
| Indiana..... | 14 | 1,499 | 9 | 24 | 47 | 82 | 1,337 | Se 1,350 | Jan 1,318 | 1,346 | 1,177 | 167 | 1 | 1 | 2,333,730 | 80,064 | 83,836 | |
| Iowa..... | 4 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 8,250 | ..... | ..... |  |
| Massachusetts..... | 25 | 304 | 22 | 17 | 6 | 13 | 246 | Dec 272 | Jan 201 | 272 | 222 | 36 | 14 | ..... | 446,430 | 53,120 | 17,572 | |
| Michigan..... | 11 | 474 | 7 | 31 | 9 | 40 | 378 | Jan 407 | Se 362 | 360 | 266 | 93 | ..... | 1 | 582,327 | 64,173 | 59,399 | |
| Minnesota..... | 3 | 6 | 3 | ..... | ..... | ..... | 3 | (2) | (2) | 3 | 3 | ..... | ..... | ..... | 3,240 | ..... | ..... |  |
| Missouri..... | 5 | 13 | 3 | 3 | ..... | ..... | 7 | (2) | (2) | 7 | 7 | ..... | ..... | ..... | 33,298 | 4,200 | ..... |  |
| New Jersey..... | 8 | 322 | 4 | 12 | 6 | 9 | 291 | Jy 307 | Jan 257 | 297 | 160 | 115 | 12 | 10 | 681,088 | 44,597 | 10,236 | |
| New York..... | 67 | 505 | 75 | 20 | 37 | 15 | 352 | No 473 | Jan 300 | 457 | 340 | 116 | 1 | ..... | 713,163 | 76,964 | 65,536 | |
| Pennsylvania..... | 22 | 159 | 23 | 7 | 5 | 9 | 115 | Se 130 | Jan 91 | 130 | 129 | ..... | 1 | ..... | 356,230 | 13,324 | 12,417 | |
| Washington..... | 5 | 5 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 8,170 | ..... | ..... |  |
| Wisconsin..... | 7 | 208 | 6 | 21 | 6 | 11 | 104 | Dec 192 | Mh 142 | 172 | 145 | 26 | ..... | 1 | 371,911 | 45,051 | 15,290 | |
| All other states ¹ | 30 | 572 | 27 | 17 | 22 | 44 | 492 | ..... | ..... | 496 | 351 | 143 | ..... | 2 | 831,868 | 81,057 | 52,383 | |

| STATE. | EXPENSES—continued. | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | | | |
|-------------------------------------|-------------------------------|--------------------|-----------------|------------------|---|----------------------|--------------------|-----------------------------|-------------------------|--------|-------------------------------|-----------------|------------------------------|--|--------------------|--|
| | Salaries and wages—Continued. | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | Electric horsepower generated in establishments reporting. | | |
| | | | Wage earners. | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | | | Fuel and rent of power. | Total. | Owned. | | | | | |
| | | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ⁴ | Rent. ⁵ | |
| United States..... | \$3,984,656 | \$32,027 | \$137,045 | \$278,025 | \$4,295,490 | \$140,239 | \$12,506,334 | \$8,061,605 | 3,286 | 142 | ..... | 88 | 100 | 2,956 | 27 | |
| California..... | 94,677 | 8,392 | 5,238 | 372 | 69,773 | 2,515 | 222,236 | 149,943 | 96 | ..... | ..... | ..... | ..... | 96 | ..... |  |
| Illinois..... | 694,716 | 5,732 | 22,234 | 37,112 | 773,058 | 26,256 | 2,170,915 | 1,371,601 | 628 | 35 | ..... | ..... | ..... | 593 | ..... |  |
| Indiana..... | 1,228,834 | 313 | 2,935 | 105,259 | 1,057,050 | 43,319 | 3,148,410 | 2,047,141 | 825 | ..... | ..... | 20 | ..... | 805 | 25 | |
| Iowa..... | ..... | ..... | 276 | 66 | 1,166 | 99 | 7,704 | 6,439 | 3 | ..... | ..... | ..... | ..... | 3 | ..... |  |
| Massachusetts..... | 238,470 | 4,483 | 18,750 | 4,226 | 272,990 | 6,090 | 792,714 | 512,734 | 262 | 42 | ..... | 7 | 90 | 123 | ..... |  |
| Michigan..... | 380,253 | 200 | 4,126 | 26,221 | 245,348 | 13,121 | 866,101 | 607,632 | 268 | ..... | ..... | ..... | ..... | 268 | ..... |  |
| Minnesota..... | 3,914 | ..... | 905 | 76 | 626 | 115 | 9,981 | 8,940 | 5 | ..... | ..... | ..... | ..... | 5 | ..... |  |
| Missouri..... | 5,621 | ..... | 753 | 159 | 10,720 | 184 | 27,372 | 16,468 | 3 | ..... | ..... | ..... | ..... | 3 | ..... |  |
| New Jersey..... | 263,851 | 1,420 | 4,422 | 36,767 | 408,977 | 12,850 | 987,216 | 565,389 | 317 | 45 | ..... | 13 | 5 | 254 | ..... |  |
| New York..... | 379,677 | 8,292 | 48,518 | 43,485 | 664,943 | 18,164 | 2,059,667 | 1,381,560 | 261 | ..... | ..... | 19 | ..... | 242 | ..... |  |
| Pennsylvania..... | 109,017 | 3,096 | 10,286 | 2,126 | 103,113 | 5,212 | 327,973 | 219,648 | 93 | 20 | ..... | 4 | ..... | 69 | ..... |  |
| Washington..... | 1,715 | ..... | 1,715 | 52 | 831 | 29 | 6,040 | 5,780 | 2 | ..... | ..... | ..... | ..... | 2 | ..... |  |
| Wisconsin..... | 152,911 | ..... | 1,151 | 12,090 | 107,336 | 10,555 | 542,793 | 424,002 | 7 | ..... | ..... | ..... | ..... | 77 | ..... |  |
| All other states ² | 423,710 | 90 | 15,731 | 10,014 | 578,369 | 14,830 | 1,336,612 | 743,423 | 446 | ..... | ..... | 25 | 5 | 416 | 2 | |

¹ Same number reported for one or more other months.² Same number reported throughout the year.³ All other states embrace: Colorado, 2 establishments; Connecticut, 6; Florida, 1; Kentucky, 1; Maine, 2; Maryland, 1; North Carolina, 1; Ohio, 11; Oklahoma, 1; Oregon, 1; Texas, 1; Vermont, 1; West Virginia, 1.⁴ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).⁵ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

PHONOGRAPHS, GRAPHOPHONES, AND TALKING MACHINES.

GENERAL STATISTICS.

General character of the industry.—Establishments manufacturing mechanical devices for registering and producing speech, music, and other sounds are included in this industry. Those manufacturing records, blanks, needles, and parts and accessories, cabinets, and other supplies and materials used in the industry are also included.

Comparative summary.—Table 22 summarizes the statistics of establishments engaged in the manufacture of phonographs, graphophones, and talking machines for each census year from 1899 to 1919 and gives percentages of increase. The development of the industry was most marked in the period 1914 to 1919, when there was an increase of 22,460, or 197.6 per cent, in the number of persons engaged, while the value of products shows an increase of \$131,431,954, or 484.7 per cent.

Principal states, ranked by value of products.—Table 23 shows the more important statistics of the industry, by states, ranked by value of products reported for 1919. Connecticut ranked higher than some of those named in the table, but data for that state could not be shown without disclosing the operations of individual establishments.

Statistics are shown for seven states separately. New Jersey, which ranks first, reported 35 per cent of the total, having advanced from seventh place since 1914, while New York dropped from first place in 1914 to third in 1919, and Illinois from second to fourth.

Persons engaged in the industry.—Table 24 shows for 1919 and 1914 the number of persons engaged in the industry, distributed by sex, and the average number of wage earners distributed also by age. The sex and age classification of the average number of wage earners in this table is an estimate obtained by the method described in the "Explanation of terms."

Wage earners employed, by months.—Table 25 gives for the industry the total average number of wage earners employed during 1919 and 1914, together with the number employed on the 15th day of each month or the nearest representative day for the United States as a whole, and in 1919 for states in which the average number of wage earners was 500 or more, together with the per cent that the minimum is of the maximum.

Prevailing hours of labor.—Table 26 shows a marked shortening of the working day for the industry since 1914. In that year 15.3 per cent were reported as employed fewer than 54 hours per week as against 72.6 per cent in 1919.

Size of establishments, by average number of wage earners.—Table 27 discloses the fact that 41 establishments, or 24.7 per cent of the total, employed fewer than 6 wage earners each, while only 83, or three-tenths of 1 per cent of the total number of wage earners, were employed therein, evidencing the predominance of small establishments based on the average number of wage earners. The classes "501 to 1,000" and "Over 1,000" wage earners comprising 10 establishments employed 20,347 wage earners, or 70.8 per cent of the total average number.

Size of establishments, by value of products.—The statistics in Table 28 show the degree of concentration of production in large establishments. In 1919 the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over" employed 25,384, or 88 per cent of the total average number of wage earners, and reported products to the value of \$143,946,448, or 90.8 per cent of the total value of products.

Character of ownership.—Table 29 emphasizes the predominance of the corporate form of ownership. Corporations owned 79.5 per cent of the total number of establishments for the industry for 1919, employed 98.8 per cent of the total average number of wage earners, and reported 98.8 per cent of the value of products.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 30, there was an increase in the total horsepower for the industry of 28,480 horsepower, or 243.7 per cent, due wholly to a large increase in rented power.

Fuel consumed.—Table 31 shows the principal kinds of fuel used in the industry in 1919 and 1914 for the United States, and for the states in 1919 in which considerable quantities of fuel were consumed. New Jersey reported 68 per cent of the anthracite coal, 45.4 per cent of the bituminous coal, 54.1 per cent of the fuel oils, and 74.7 per cent of the gas.

MANUFACTURES.

TABLE 22.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

| | 1919 | 1914 | 1909 | 1904 | 1899 | PER CENT OF INCREASE. ¹ | | | |
|---|---------------|--------------|--------------|-------------|-------------|------------------------------------|-----------|-----------|-----------|
| | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 |
| Number of establishments..... | 166 | 18 | 18 | 14 | 11 | ..... | ..... | ..... | ..... |
| Persons engaged..... | 33,826 | 11,366 | 5,028 | 3,940 | 1,415 | 197.6 | 91.7 | 50.5 | 178.4 |
| Proprietors and firm members..... | 43 | 11 | 2 | 6 | 4 | ..... | ..... | ..... | ..... |
| Salaried employees..... | 5,062 | 1,974 | 727 | 537 | 144 | 156.4 | 171.5 | 35.4 | 272.9 |
| Wage earners (average number)..... | 28,721 | 9,381 | 5,199 | 3,397 | 1,267 | 206.2 | 80.4 | 53.0 | 168.1 |
| Primary horsepower..... | 40,168 | 11,688 | 6,371 | 2,522 | 1,082 | 243.7 | 83.4 | 152.6 | 133.1 |
| Capital..... | \$105,241,350 | \$33,770,511 | \$14,363,361 | \$4,740,618 | \$3,348,282 | 211.6 | 136.1 | 64.3 | 161.0 |
| Salaries and wages..... | 42,650,716 | 8,770,064 | 3,785,766 | 2,350,392 | 787,035 | 386.3 | 131.7 | 61.1 | 198.4 |
| Salaries..... | 8,687,568 | 2,420,189 | 945,283 | 666,489 | 179,145 | 257.6 | 157.0 | 41.8 | 272.0 |
| Wages..... | 33,963,148 | 6,349,875 | 2,840,503 | 1,683,903 | 608,490 | 435.6 | 123.2 | 68.7 | 176.7 |
| Paid for contract work..... | 1,751,018 | ..... | 250 | 4,240 | 10,415 | ..... | ..... | -93.9 | -50.3 |
| Rent and taxes..... | 9,082,122 | 153,941 | 50,587 | 31,037 | 11,066 | 5,799.7 | 204.3 | ..... | ..... |
| Cost of materials..... | 59,740,205 | 7,048,040 | 3,099,391 | 4,101,136 | 827,529 | 747.6 | 127.4 | -25.5 | 402.8 |
| Value of products..... | 158,547,870 | 27,115,916 | 11,725,996 | 10,237,075 | 2,246,274 | 484.7 | 131.2 | 14.5 | 355.7 |
| Value added by manufacture ² | 98,807,665 | 20,667,876 | 8,626,605 | 6,076,939 | 1,418,745 | 392.4 | 132.6 | 42.0 | 328.3 |

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.² Exclusive of internal revenue.³ Value of products less cost of materials.

TABLE 23.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Number of establishments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | | STATE. | Number of establishments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|------------------|--------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|--------------------------------|------------------------|-------|------------------------------------|--------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|--------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amt. (expressed in thousands). | Per cent distribution. | Rank. | | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amt. (expressed in thousands). | Per cent distribution. | Rank. |
| | | | | | | | | | | | | | | | | | | | | | |
| United States... | 166 | 28,721 | 100.0 | ---- | \$158,548 | 100.0 | ---- | \$98,808 | 100.0 | --- | Indiana..... | 13 | 2,178 | 7.0 | 3 | \$7,977 | 5.0 | 5 | \$3,968 | 4.0 | 5 |
| New Jersey..... | 15 | 12,266 | 42.7 | 1 | 55,419 | 35.0 | 1 | 34,769 | 35.2 | 1 | Ohio..... | 20 | 1,424 | 5.0 | 6 | \$6,221 | 3.9 | 6 | \$3,265 | 3.3 | 7 |
| New York..... | 32 | 1,876 | 6.5 | 5 | 16,552 | 10.4 | 3 | 7,499 | 7.6 | 3 | Michigan..... | 10 | 708 | 2.8 | 9 | 4,230 | 2.7 | 8 | 2,558 | 2.6 | 8 |
| Illinois..... | 36 | 1,019 | 6.7 | 4 | 12,842 | 8.1 | 4 | 5,745 | 5.8 | 4 | Wisconsin..... | 9 | 898 | 3.1 | 8 | 3,862 | 2.4 | 9 | 2,016 | 2.0 | 9 |
| | | | | | | | | | | | All other states ¹ | 31 | 7,362 | 25.6 | ---- | \$1,445 | 32.4 | ---- | \$8,998 | 39.5 | ---- |

¹ Includes Connecticut, which ranked second according to value of products, and Iowa, which ranked seventh.

TABLE 24.—PERSONS ENGAGED IN THE INDUSTRY: 1919 AND 1914.

| CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|--------------------------------------|----------------------|------------------|-----------------|----------------|-----------------------|---------------|---|----------------------|-----------------|-----------------|--------------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| | | | | | | | | | | | | | |
| All classes..... | 1919 1914 | 33,826 11,366 | 26,540 9,854 | 7,286 1,512 | 78.5 86.7 | 21.5 13.3 | Clerks and other subordinate salaried employees. | 1919 1914 | 4,203 1,791 | 2,269 1,236 | 1,934 555 | 54.0 69.0 | 46.0 31.0 |
| Proprietors and officials..... | 1919 1914 | 902 194 | 881 188 | 21 6 | 97.7 96.9 | 2.3 3.1 | Wage earners (average number)..... | 1919 1914 | 28,721 9,381 | 23,390 8,430 | 5,331 951 | 81.4 89.9 | 18.6 10.1 |
| Proprietors and firm members... | 1919 1914 | 43 11 | 43 6 | 5 | 100.0 54.5 | 45.5 | 16 years of age and over..... | 1919 1914 | 28,604 9,376 | 23,341 8,426 | 5,263 950 | 81.4 89.9 | 18.6 10.1 |
| Salaried officers of corporations... | 1919 1914 | 234 43 | 229 43 | ..... ..... | 97.9 100.0 | 2.1 | Under 16 years of age..... | 1919 1914 | 57 5 | 40 4 | 8 1 | 86.0 80.0 | 14.0 20.0 |
| Superintendents and managers... | 1919 1914 | 625 140 | 609 139 | 16 1 | 97.4 99.3 | 2.6 0.7 | | | | | | | |

PHONOGRAPHS, GRAPHOPHONES, ETC.

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TABLE 25.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maximum. |
|-----------------|--------------------------------------|---|-----------|--------|--------|--------|--------|--------|---------|------------|----------|-----------|-----------|---------------------------------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 28,721 | 28,997 | 25,642 | 26,754 | 27,581 | 28,269 | 29,601 | 24,021 | 24,309 | 31,248 | 33,334 | 34,656 | 35,180 | 68.2 |
| Males..... | 23,390 | 19,675 | 21,280 | 22,429 | 23,197 | 23,898 | 25,221 | 19,598 | 19,889 | 24,498 | 26,414 | 27,108 | 27,575 | 71.0 |
| Females..... | 5,331 | 4,422 | 4,362 | 4,325 | 4,384 | 4,371 | 4,380 | 4,423 | 4,420 | 6,750 | 6,920 | 7,548 | 7,605 | 86.0 |
| 1914..... | 9,381 | 9,276 | 9,050 | 8,433 | 9,441 | 9,871 | 9,177 | 9,523 | 9,073 | 8,743 | 9,017 | 9,036 | 10,007 | 87.4 |
| Illinois..... | 1,919 | 1,845 | 1,391 | 1,479 | 1,574 | 1,647 | 1,724 | 1,974 | 2,150 | 2,205 | 2,401 | 2,583 | 2,649 | 47.0 |
| Indiana..... | 2,178 | 1,895 | 2,037 | 2,064 | 2,064 | 2,131 | 2,200 | 2,255 | 2,260 | 2,276 | 2,315 | 2,309 | 2,321 | 81.6 |
| Michigan..... | 798 | 713 | 649 | 637 | 655 | 719 | 766 | 796 | 831 | 878 | 910 | 988 | 1,036 | 61.5 |
| New Jersey..... | 12,266 | 9,880 | 10,707 | 11,426 | 11,793 | 12,175 | 12,516 | 12,250 | 12,161 | 12,722 | 13,424 | 14,121 | 14,024 | 70.0 |
| New York..... | 1,876 | 1,457 | 1,580 | 1,714 | 1,887 | 1,882 | 1,844 | 1,750 | 1,882 | 1,929 | 2,145 | 2,145 | 2,285 | 63.5 |
| Ohio..... | 1,424 | 908 | 982 | 1,102 | 1,212 | 1,278 | 1,391 | 1,546 | 1,585 | 1,595 | 1,763 | 1,851 | 1,855 | 48.2 |
| Wisconsin..... | 898 | 818 | 881 | 844 | 865 | 837 | 844 | 902 | 929 | 950 | 960 | 976 | 990 | 82.6 |

TABLE 26.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | STATE. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | |
|----------------|--------|--|--------------------|--------|--------------------|-------|--------------------|-----|-------------|--------|--|--------------------|-------|--------------------|-------|--------------------|-----|
| | | 44 and under. | Between 44 and 48. | 48.1 | Between 48 and 54. | 54. | Between 54 and 60. | 60. | | | 44 and under. | Between 44 and 48. | 48.1 | Between 48 and 54. | 54. | Between 54 and 60. | 60. |
| United States: | | | | | | | | | New Jersey: | | | | | | | | |
| 1919..... | 28,721 | 722 | 107 | 11,451 | 8,570 | 2,335 | 5,097 | 439 | 1919..... | 12,266 | 8 | 95 | 9,853 | 121 | 12 | 2,286 | 6 |
| 1914..... | 9,381 | (¹) | (¹) | 28 | 1,409 | 4,984 | 2,960 | | 1914..... | 7,735 | | | | 4,993 | 2,772 | | |
| Illinois: | | | | | | | | | New York: | | | | | | | | |
| 1919..... | 1,919 | 529 | 270 | 726 | 253 | 141 | | | 1919..... | 1,876 | 122 | 95 | 1,179 | 310 | 82 | 88 | |
| 1914..... | 84 | (¹) | (¹) | 15 | 2 | 17 | | | 1914..... | 44 | (¹) | (¹) | 13 | 22 | 9 | | |
| Indiana: | | | | | | | | | Ohio: | | | | | | | | |
| 1919..... | 2,178 | | | 195 | 941 | 707 | 335 | | 1919..... | 1,424 | | | 11 | 923 | | 480 | 10 |
| Michigan: | | | | | | | | | 1914..... | 19 | | | | | 19 | | |
| 1919..... | 798 | | 3 | 469 | 39 | 287 | | | Wisconsin: | | | | | | | 872 | 26 |
| | | | | | | | | | 1919..... | 898 | | | | | | | |

¹ Includes 48 and under for 1914.

* Corresponding figures not available.

TABLE 27.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------|--------------------------------|---------------------------|---------------------------------|---------------|----------------------------------|---------------|-----------------------------------|---------------|------------------------------------|---------------|-------------------------------------|---------------|-------------------------------------|---------------|---------------------------------------|---------------|--------------------------|---------------|--|
| | Establishments. | Wage earners (average number). | No wage earners. | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | 251 to 500 wage earners, inclusive. | | 501 to 1,000 wage earners, inclusive. | | Over 1,000 wage earners. | | |
| | | | Establishments. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | |
| United States.....1919.. | 166 | 28,721 | 11 | 30 | 83 | 34 | 422 | 35 | 1,114 | 17 | 1,180 | 24 | 3,938 | 5 | 1,637 | 6 | 4,353 | 4 | 15,989 | |
|1914.. | 18 | 9,381 | ..... | 2 | 7 | 9 | 180 | 1 | 28 | 2 | 114 | ..... | ..... | ..... | ..... | 1 | 779 | 3 | 8,323 | |
| Illinois..... | 36 | 1,919 | 1 | 7 | 21 | 10 | 135 | 7 | 181 | 4 | 324 | 7 | 1,258 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Indiana..... | 13 | 2,178 | 1 | 1 | 1 | 3 | 39 | ..... | ..... | 2 | 148 | 3 | 411 | 2 | 638 | 1 | 941 | ..... | ..... |  |
| Michigan..... | 10 | 798 | ..... | 2 | 7 | 3 | 43 | 1 | 38 | 1 | 85 | 2 | 344 | 1 | 278 | ..... | ..... | ..... | ..... |  |
| New Jersey..... | 15 | 12,266 | 1 | 2 | 8 | 2 | 18 | 3 | 102 | 1 | 72 | 2 | 300 | ..... | ..... | 1 | 613 | 3 | 11,153 | |
| New York..... | 32 | 1,876 | 5 | 5 | 17 | 4 | 56 | 9 | 295 | 4 | 255 | 3 | 412 | 1 | 311 | 1 | 530 | ..... | ..... |  |
| Ohio..... | 20 | 1,424 | 2 | 5 | 15 | 5 | 51 | 3 | 90 | 2 | 118 | 3 | 381 | ..... | ..... | 1 | 760 | ..... | ..... |  |
| Wisconsin..... | 9 | 898 | ..... | 1 | 2 | ..... | ..... | 5 | 192 | ..... | ..... | 2 | 294 | 1 | 410 | ..... | ..... | ..... | ..... |  |

MANUFACTURES.

TABLE 28.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919 AND 1914.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | AVERAGE NUMBER OF WAGE EARNERS. | | VALUE OF PRODUCTS. | | VALUE ADDED BY MANUFACTURE. | |
|-------------------------------|---------------------------|-------|---------------------------------|--------|--------------------|--------------|-----------------------------|--------------|
| | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 |
| All classes..... | 166 | 18 | 28,721 | 9,381 | \$158,547,870 | \$27,115,916 | \$98,807,665 | \$20,067,876 |
| Less than \$5,000..... | 11 | 7 | 44 | 15 | 25,077 | 30,828 | 7,618 | 25,010 |
| \$5,000 to \$20,000..... | 18 | 3 | 622 | 207 | 203,567 | 488,114 | 122,091 | 275,321 |
| \$20,000 to \$100,000..... | 40 | 10 | 2,764 | 1,946 | 2,507,878 | 8,053,293 | 1,363,364 | 5,943,827 |
| \$100,000 to \$500,000..... | 51 | 15 | 23,338 | 19,159 | 11,864,900 | 185,893,155 | 5,943,827 | 4,089,778 |
| \$500,000 to \$1,000,000..... | 13 | 15 | | | 8,053,293 | 126,596,974 | 4,089,778 | 87,280,987 |
| \$1,000,000 and over..... | 24 | 15 | | | 185,893,155 | | 87,280,987 | 19,767,545 |
| PER CENT DISTRIBUTION. | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 6.6 | 10.8 | (?) | 0.2 | (?) | 0.1 | (?) | 0.1 |
| \$5,000 to \$20,000..... | 10.8 | 16.7 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| \$20,000 to \$100,000..... | 29.5 | 55.6 | 2.2 | 2.2 | 1.6 | 1.8 | 1.4 | 1.4 |
| \$100,000 to \$500,000..... | 30.7 | 30.7 | 9.6 | 7.5 | 7.5 | 6.0 | 6.0 | 6.0 |
| \$500,000 to \$1,000,000..... | 7.8 | 7.8 | 6.8 | 5.1 | 5.1 | 4.1 | 4.1 | 4.1 |
| \$1,000,000 and over..... | 14.6 | 127.8 | 81.3 | 197.6 | 85.7 | 198.1 | 88.3 | 198.6 |

1 Includes the group "\$100,000 to \$500,000."

2 Less than one-tenth of 1 per cent.

TABLE 29.—CHARACTER OF OWNERSHIP: 1919.

| CHARACTER OF OWNERSHIP. | 1919 | Per cent of total. | CHARACTER OF OWNERSHIP. | 1919 | Per cent of total. | CHARACTER OF OWNERSHIP. | 1919 | Per cent of total. |
|-------------------------------|------|--------------------|-------------------------------------|--------|--------------------|-------------------------|---------------|--------------------|
| Number of establishments..... | 166 | 100.0 | Average number of wage earners..... | 28,721 | 100.0 | Value of products..... | \$158,547,870 | 100.0 |
| Individual..... | 28 | 16.9 | Individual..... | 277 | 1.0 | Individual..... | 1,173,444 | 0.7 |
| Corporation..... | 132 | 79.5 | Corporation..... | 28,363 | 98.8 | Corporation..... | 166,786,680 | 98.8 |
| All other..... | 6 | 3.6 | All other..... | 81 | 0.3 | All other..... | 687,746 | 0.4 |

TABLE 30.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919 AND 1914.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | HORSEPOWER. | | | | POWER. | NUMBER OF ENGINES OR MOTORS. | | HORSEPOWER. | | | |
|--------------------------------|------------------------------------|-------|-------------|--------|---------------------------|-------|---|------------------------------------|------|-------------|-------|---------------------------|-------|
| | | | Amount. | | Per cent distribution. | | | | | Amount. | | Per cent distribution. | |
| | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 | | 1919 | 1914 | 1919 | 1914 | 1919 | 1914 |
| Primary power, total..... | 2,456 | 143 | 40,168 | 11,088 | 100.0 | 100.0 | Primary power—Continued. | | | | | | |
| Owned..... | 64 | 22 | 22,514 | 9,975 | 56.0 | 85.3 | Rented..... | 2,392 | 121 | 17,654 | 1,713 | 44.0 | 14.7 |
| Steam..... | 54 | 20 | 21,973 | 9,865 | 54.7 | 84.4 | Electric..... | 2,392 | 121 | 17,649 | 1,713 | 43.9 | 14.7 |
| Engines..... | 46 | (1) | 9,084 | (1) | 24.1 | ..... | Other..... | | | 5 | ..... | (?) | ..... |
| Turbines..... | 8 | (1) | 12,289 | (1) | 30.6 | ..... | Electric..... | 3,641 | 574 | 32,193 | 7,400 | 100.0 | 100.0 |
| Internal-combustion engines... | 8 | 2 | 366 | 110 | 0.9 | 0.9 | Rented..... | 2,392 | 121 | 17,649 | 1,713 | 54.8 | 23.1 |
| Water wheels..... | 2 | ..... | 175 | ..... | 0.4 | ..... | Generated by establishments re- porting..... | 1,249 | 453 | 14,544 | 5,687 | 45.2 | 76.9 |

1 Figures not available.

2 Less than one-tenth of 1 per cent.

TABLE 31.—FUEL CONSUMED, BY STATES: 1919.

| STATE. | COAL. | | Coke (tons, 2,000 pounds). | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). | STATE. | COAL. | | Coke (tons, 2,000 pounds). | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). |
|----------------|----------------------------------|----------------------------------|----------------------------|----------------------|---|-------------------------|-----------------|----------------------------------|----------------------------------|----------------------------|----------------------|---|-------------------------|
| | Anthracite (tons, 2,240 pounds). | Bituminous (tons, 2,000 pounds). | | | | | | Anthracite (tons, 2,240 pounds). | Bituminous (tons, 2,000 pounds). | | | | |
| United States: | | | | | | | | | | | | | |
| 1919..... | 42,195 | 127,659 | 16 | 2,008 | 1,216 | 51,448 | Michigan..... | | 5,457 | | | 12 | 339 |
| 1914..... | 24,133 | 37,730 | | | | 53,616 | New Jersey..... | 28,708 | 57,878 | | 1,573 | 84 | 9,519 |
| Illinois..... | 157 | 7,813 | | | | 15 | New York..... | 1,698 | 5,937 | | 12 | 8 | 3,880 |
| Indiana..... | | 18,087 | 16 | 23 | 4 | 280 | Ohio..... | | 6,762 | | | 1,060 | 7,207 |
| | | | | | | | Wisconsin..... | | 3,993 | | | 45 | 250 |

SPECIAL STATISTICS.

Products—Quantity and value.—Table 32 shows the number and value of phonographs, graphophones, and talking machines, and records and blanks for 1919, 1914, and 1909, and the value only for 1904, as the number was not reported for that census. In 1919 complete instruments formed 57.8 per cent of the total value of products; records and blanks, 28.2; and parts and supplies, 10 per cent.

Parts and supplies are frequently sold to establishments engaged in the manufacture of the complete machines; therefore the figures presented include some duplication.

Of the 166 establishments reporting in 1919, the returns showed that 29 manufactured phonographs, graphophones, or talking machines and also made other products of the industry.

TABLE 32.—DETAILED STATISTICS OF QUANTITY AND VALUE: 1919, 1914, 1909, AND 1904.

| PRODUCT. | 1919 | 1914 | 1909 | 1904 | PRODUCT. | 1919 | 1914 | 1909 | 1904 |
|--------------------------------|---------------|--------------|--------------|--------------|--------------------------------|--------------|-----------|-----------|-------------|
| Total value ¹ | \$158,547,870 | \$27,115,010 | \$11,725,096 | \$10,237,075 | Needles: | | | | |
| Phonographs, graphophones, and | | | | | Steel needles, value..... | \$1,359,754 | (*) | (*) | (*) |
| talking machines: ² | | | | | Other needles, value..... | \$240,248 | | | |
| For disk records— | | | | | Parts and accessories, not in- | | | | |
| Number..... | 2,137,596 | | | | cluded in finished instruments | | | | |
| Value..... | \$88,836,368 | | | | reported: | | | | |
| For cylinder records— | | | | | Cabinets, value..... | \$3,653,418 | (*) | (*) | (*) |
| Number..... | 65,957 | 514,154 | 344,681 | (*) | Other parts and accessories, | | | | |
| Value..... | \$1,315,886 | \$15,290,491 | \$5,406,684 | \$2,966,343 | value..... | \$10,615,739 | \$356,935 | \$844,631 | ..... |
| Dictating machines— | | | | | Custom work and repairing, | | | | |
| Number..... | 22,853 | | | | value..... | \$268,803 | \$2,110 | (*) | (*) |
| Value..... | \$1,416,689 | | | | All other products, value..... | \$6,242,170 | \$354,956 | \$467,577 | \$2,592,185 |
| Records and blanks: | | | | | | | | | |
| Number..... | 106,996,510 | 27,221,260 | 27,183,950 | (*) | | | | | |
| Value..... | \$44,689,795 | \$11,111,418 | \$5,007,104 | \$4,678,547 | | | | | |
| Disk records— | | | | | | | | | |
| Number..... | 101,084,961 | 23,314,176 | 8,572,805 | (*) | | | | | |
| Value..... | \$42,930,923 | \$10,377,475 | \$2,567,711 | | | | | | |
| Cylinder records and blanks— | | | | | | | | | |
| Number..... | 5,911,549 | 3,907,114 | 18,611,154 | (*) | | | | | |
| Value..... | \$1,758,872 | \$733,943 | \$2,439,387 | | | | | | |

¹ In addition, in 1919, phonographs, and graphophones and parts, valued at \$7,173,143; in 1914, valued at \$66,531; and in 1909, valued at \$31,899 were made by establishments engaged primarily in the manufacture of products other than those covered by this industry designation.

² Not segregated, to avoid disclosure of individual operations.

³ Figures not available.

⁴ Included in "Parts and accessories."

⁵ Included in "All other products."

MANUFACTURES.

GENERAL TABLE.

Comparative statistics can not be presented. Table 33 presents, for 1919, statistics in detail, for all states for which data can be shown without disclosing the operations of individual establishments.

TABLE 33.—DETAILED STATEMENT, BY STATES: 1919.

| STATE. | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | | EXPENSES. | | |
|----------------------------------|--------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|---------------------|--|--------|--------------|---------|-----------|---------|---------------|---------------------|--------------|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | | Total. | 16 and over. | | Under 16. | | Capital. | Salaries and wages. | |
| | | | | | Male. | Female. | Average number. | Number 15th day of— | | | Male. | Female. | Male. | Female. | | Officials. | Clerks, etc. |
| | | | | | | | | Maximum month. | Minimum month. | | | | | | | | |
| United States... | 166 | 33,826 | 43 | 859 | 2,269 | 1,934 | 23,721 | De 35,180 | Ja 23,907 | 35,184 | 27,512 | 7,603 | 58 | 11 | \$105,241,359 | \$3,374,652 | \$5,312,916 |
| Illinois..... | 36 | 2,225 | 12 | 122 | 91 | 81 | 1,919 | De 2,649 | Ja 1,245 | 2,667 | 2,475 | 171 | 16 | 5 | 6,570,855 | 404,373 | 249,708 |
| Indiana..... | 13 | 2,368 | 3 | 57 | 36 | 94 | 2,178 | De 2,321 | Ja 1,895 | 2,330 | 1,952 | 358 | 20 | ..... | 4,766,616 | 305,533 | 87,677 |
| Michigan..... | 10 | 929 | 1 | 46 | 42 | 42 | 798 | De 1,026 | Mh 637 | 1,019 | 907 | 106 | 6 | ..... | 2,599,218 | 110,525 | 140,431 |
| New Jersey..... | 15 | 13,603 | ..... | 201 | 508 | 628 | 12,266 | No 14,121 | Ja 9,880 | 14,041 | 11,235 | 2,800 | 6 | ..... | 44,615,918 | 928,044 | 1,485,180 |
| New York..... | 32 | 2,408 | 13 | 162 | 208 | 149 | 1,876 | De 2,295 | Ja 1,457 | 2,270 | 1,878 | 387 | 5 | ..... | 8,307,292 | 521,757 | 360,007 |
| Ohio..... | 20 | 1,050 | 5 | 46 | 55 | 126 | 1,424 | De 1,885 | Ja 908 | 1,889 | 1,640 | 243 | 2 | 4 | 3,492,734 | 129,472 | 194,887 |
| Wisconsin..... | 9 | 1,019 | 1 | 39 | 41 | 40 | 898 | De 990 | Ja 818 | 990 | 900 | 90 | ..... | ..... | 3,566,517 | 138,598 | 127,473 |
| All other states ¹ .. | 31 | 9,558 | 8 | 186 | 1,223 | 774 | 7,362 | ..... | ..... | 9,978 | 6,525 | 3,448 | 3 | 2 | 31,322,209 | 839,350 | 2,067,603 |

| STATE. | EXPENSES—continued. | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | | |
|----------------------------------|-------------------------------|--------------------|------------------|---|----------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------------|-----------------|------------------------------|---------------------------|--|--------|
| | Salaries and wages—Continued. | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | Electric horsepower generated in establishments reporting. | |
| | | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Owned. | | | | | |
| | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ² | Rent- ³ | |
| United States... | \$33,963,148 | \$1,751,018 | \$304,179 | \$3,777,943 | \$58,223,578 | \$1,516,627 | \$153,547,870 | \$98,807,065 | 40,168 | 9,684 | 12,289 | 366 | 175 | 17,654 | 14,544 |
| Illinois..... | 2,210,993 | 63,401 | 68,386 | 360,962 | 7,007,723 | 88,535 | 12,841,682 | 5,745,424 | 1,873 | 250 | ..... | ..... | ..... | 1,623 | 300 |
| Indiana..... | 1,757,676 | 2,070 | 3,391 | 217,951 | 3,926,077 | 83,458 | 7,977,495 | 3,967,960 | 2,807 | 1,550 | 150 | ..... | ..... | 1,107 | 1,626 |
| Michigan..... | 668,203 | 712,169 | 2,669 | 114,676 | 1,632,731 | 40,112 | 4,230,492 | 2,557,649 | 611 | 300 | ..... | ..... | ..... | 311 | ..... |
| New Jersey..... | 15,521,113 | 33,268 | 36,315 | 3,374,291 | 19,931,717 | 728,900 | 55,419,321 | 34,758,704 | 20,257 | 4,467 | 12,064 | 26 | ..... | 3,701 | 11,737 |
| New York..... | 2,091,094 | 854,044 | 111,305 | 186,005 | 8,934,855 | 117,942 | 16,551,523 | 7,498,726 | 2,412 | 935 | 75 | 62 | 100 | 1,240 | 353 |
| Ohio..... | 1,785,629 | 23,574 | 19,813 | 78,596 | 2,910,371 | 45,202 | 6,220,534 | 3,284,901 | 1,498 | 695 | ..... | 25 | ..... | 778 | 60 |
| Wisconsin..... | 939,276 | ..... | 16,076 | 78,844 | 1,815,877 | 29,588 | 3,861,727 | 2,016,262 | 1,046 | 660 | ..... | 75 | ..... | 321 | 75 |
| All other states ¹ .. | 8,988,164 | 62,486 | 46,224 | 4,366,028 | 12,064,227 | 382,830 | 51,445,096 | 38,998,039 | 9,664 | 837 | ..... | 254 | ..... | 8,573 | 403 |

¹ All other states embrace: California, 2 establishments; Connecticut, 3; Iowa, 2; Massachusetts, 2; Minnesota, 4; Missouri, 2; Montana, 1; North Carolina, 2; Oregon, 2; Pennsylvania, 8; Rhode Island, 1; Tennessee, 1; Virginia, 1.

² Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

³ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

THE RUBBER INDUSTRY.

GENERAL STATISTICS.

General character of the industry.—This report presents statistics for establishments engaged primarily in the manufacture of rubber goods or products in which rubber is the principal material. The reports received were classified into three groups: (1) Establishments whose principal products were rubber belting and hose; (2) establishments making rubber boots and shoes; and (3) establishments engaged primarily in the manufacture of rubber tires, tubes, and other rubber goods.

Rubber products were also manufactured by establishments engaged primarily in the manufacture of other products to the value of \$9,134,403 in 1919, and \$752,503 in 1914.

Importance and growth of the industry.—Table 1 summarizes the statistics for each census since 1879, with percentages of increase for each five-year period. With few exceptions, increases are noticeable at each succeeding census. The exceptionally large increases, however, from 1914 to 1919, in salaries and wages, cost of materials, and value of products, are due largely to a general rise of prices and wages following the World War, and do not, therefore, fairly measure the growth of the industry for that period. A truer index of the growth of the industry is found in the increase of the average number of wage earners, and the primary horsepower. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes." "Contract work" or work performed by employees other than those in the plants reporting, has little significance, since it represents merely the methods of manufacture used by establishments, which vary from year to year.

States, ranked by value of products.—Ohio, as shown by Table 2, is preeminently the leading state in the manufacture of rubber goods, and has maintained this rank for the last several censuses. In 1919, this state reported 48.5 per cent of the total value of products and 40.2 per cent of the total number of wage earners. Massachusetts, second in importance, contributed only 13.3 per cent and 15.7 per cent, respectively, of these two items. Although 30 states reported rubber manufactures, the industry has become centralized in Ohio, Massachusetts, New Jersey, Connecticut, Michigan, Pennsylvania, Wisconsin, New York, Indiana, and Rhode Island, named in the order of their rank by value of products. Combined, these 10 states produced 96.6 per cent of the total value of

products for the industry in 1919 and employed 96.2 per cent of the total average number of wage earners.

Persons engaged in the industry.—The classification by sex, for 1919, was reported separately, but for 1914 and 1909, was obtained in the same manner as the distribution by age. The age classification of the average number of wage earners in Table 3 is an estimate obtained by the method described in the "Explanation of terms." Figures by states will be found in Table 16.

Wage earners, by months.—The statistics for wage earners in Table 4 shows the regularity or irregularity of employment, in accordance with the existing industrial conditions during the census year reported. The number employed in the industry during 1919 ranged from a maximum of 173,824 in October, to a minimum of 144,931 in January, the minimum number being equivalent to 83.4 per cent of the maximum. Figures for the principal states are shown separately for belting and hose, boots and shoes, and tires, tubes, and other rubber goods, while for the United States the number of males and females is also shown separately for 1919.

Prevailing hours of labor.—Table 5 shows a marked shortening of the working day for the industry since 1914. In that year only 17.8 per cent were reported as employed fewer than 54 hours per week, as against 82.7 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 6.9 per cent of the total wage earners, as compared with 3.7 per cent in 1919.

Size of establishments, by average number of wage earners.—Analysis of Table 6 discloses the significant fact that 181 establishments, or 37.9 per cent of the total number, employed fewer than 21 wage earners each, while only 1,361, or nine-tenths of 1 per cent, of the total number of wage earners were employed therein. On the other hand the class "Over 1,000 wage earners," comprising 35 establishments, employed 109,101 wage earners, or 68.8 per cent of the total average number, illustrating the extent of manufacturing operations in a few large establishments.

Size of establishments, by value of products.—At the census of 1909 and 1914, establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into groups of "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been

compiled, however, from the returns for 1914. Table 7, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of the average number of wage earners and the value added by manufacture for 1914. The statistics in the table show the degree of concentration of production in large establishments. In 1919 the group "\$1,000,000 and over," included 137 establishments, or 28.7 per cent of the total number for the industry; employed 145,665 wage earners, or 91.9 per cent of the total average number; and reported products to the value of \$1,070,086,951, or 94 per cent of the total value.

Character of ownership.—Table 8 emphasizes the predominance of the corporate form of ownership. Corporations owned 85.3 per cent of the total number of establishments for the industry in 1919, employed 99.5 per cent of the total average number of wage earners, and reported 99.5 per cent of the total value of products. During the five-year period 1914 to 1919 the average number of wage earners employed by corporations increased by 84,764, or 116.1 per cent;

and the value of products by \$835,019,019, or 280.3 per cent.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 9, there was an increase in the total horsepower for the industry of 230,344 horsepower, or 115.4 per cent, due in a large measure to rented power which increased by 159,677 horsepower, or 465.7 per cent. Owned power during the period increased by 70,667 horsepower, or 42.7 per cent.

Fuel consumed.—Table 10 shows the principal kinds of fuel used for the industry in 1919 and 1914. The principal fuel consumed in this industry is coal. In the consumption of anthracite coal New Jersey was the leading state. In the consumption of bituminous coal Ohio ranked first, followed by New Jersey and Massachusetts, while in the consumption of fuel oils Rhode Island was the leading state, followed by Ohio and New Jersey. Ohio was the only state that reported the consumption of any considerable quantity of gas.

THE RUBBER INDUSTRY.

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TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

| | 1919 | 1914 | 1909 | 1904 | 1899 | 1889 | 1879 | PER CENT OF INCREASE. ¹ | | | | | |
|---|---------------|---------------|---------------|--------------|--------------|--------------|-------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | 1914-1919 | 1909-1914 | 1904-1909 | 1899-1904 | 1889-1899 | 1879-1889 |
| RUBBER GOODS—ALL BRANCHES. ² | | | | | | | | | | | | | |
| Number of establishments..... | 477 | 342 | 267 | 265 | 301 | 167 | 104 | 39.5 | 28.1 | 0.8 | -12.0 | 80.2 | 60.6 |
| Persons engaged in the industry..... | 206,202 | 88,821 | 56,059 | 47,076 | (*) | (*) | (*) | 132.2 | 58.4 | 17.6 | ..... | ..... | ..... |
| Proprietors and firm members..... | 98 | 87 | 108 | 105 | (*) | (*) | (*) | ..... | -15.5 | -1.9 | ..... | ..... | ..... |
| Salaried employees..... | 47,555 | 14,712 | 6,692 | 3,698 | 2,505 | 859 | (*) | 223.2 | 119.8 | 81.0 | 47.6 | 191.6 | ..... |
| Wage earners (average number)..... | 158,549 | 74,022 | 49,264 | 43,873 | 36,566 | 20,162 | 11,789 | 114.2 | 50.3 | 12.3 | 20.0 | 81.5 | 70.9 |
| Primary horsepower..... | 429,887 | 199,543 | 122,436 | 88,808 | 71,169 | 27,125 | (*) | 115.4 | 63.0 | 41.0 | 22.0 | 162.4 | ..... |
| Capital..... | \$990,070,726 | \$267,671,422 | \$162,144,564 | \$98,979,636 | \$78,463,771 | \$36,764,825 | \$8,974,187 | 253.7 | 65.1 | 63.8 | 26.1 | 113.4 | 309.7 |
| Salaries and wages..... | 278,991,545 | 60,445,980 | 32,977,076 | 24,823,078 | 18,575,728 | 9,526,909 | 4,051,431 | 361.0 | 83.3 | 33.9 | 32.6 | 95.0 | 135.1 |
| Salaries..... | 85,228,456 | 16,278,578 | 7,840,700 | 4,538,912 | 3,149,155 | (*) | (*) | 423.6 | 107.0 | 72.7 | 44.1 | ..... | ..... |
| Wages..... | 193,763,089 | 44,167,402 | 25,136,976 | 20,084,166 | 15,426,573 | (*) | (*) | 388.7 | 75.7 | 25.2 | 30.2 | ..... | ..... |
| Paid for contract work..... | 3,676,318 | 498,851 | 25,099 | 76,188 | 62,861 | (*) | (*) | 790.8 | 1,520.0 | -67.1 | 21.2 | ..... | ..... |
| Rent and taxes (including internal revenue)..... | 44,445,822 | 2,226,322 | 851,213 | 464,127 | 463,321 | (*) | (*) | 1,890.4 | 161.5 | ..... | ..... | ..... | ..... |
| Cost of materials..... | 594,348,590 | 163,034,713 | 122,745,102 | 80,002,476 | 60,240,559 | 26,243,853 | 13,527,220 | 264.6 | 32.8 | 53.4 | 32.8 | 120.5 | 58.8 |
| Value of products..... | 1,138,216,019 | 300,993,796 | 197,394,638 | 148,015,391 | 99,880,693 | 42,853,817 | 25,309,648 | 278.2 | 52.5 | 33.4 | 48.2 | 133.1 | 69.3 |
| Value added by manufacture ³ | 543,872,429 | 137,959,083 | 74,649,536 | 68,012,915 | 39,640,134 | 16,609,964 | 8,782,428 | 294.2 | 84.8 | 9.8 | 71.6 | 138.7 | 80.1 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. ² | | | | | | | | | | | | | |
| Number of establishments..... | 437 | 301 | 227 | 224 | 261 | 139 | 93 | 45.2 | 32.6 | 1.3 | -14.2 | 87.8 | ..... |
| Persons engaged in the industry..... | 160,824 | 62,257 | 31,284 | 23,651 | (*) | (*) | (*) | 168.3 | 99.0 | 32.3 | ..... | ..... | ..... |
| Proprietors and firm members..... | 97 | 85 | 102 | 103 | (*) | (*) | (*) | ..... | -16.7 | -1.0 | ..... | ..... | ..... |
| Salaried employees..... | 40,879 | 11,952 | 4,661 | 2,364 | 1,825 | 619 | (*) | 242.0 | 156.4 | 97.2 | 29.5 | 194.8 | ..... |
| Wage earners (average number)..... | 119,848 | 50,220 | 26,521 | 21,184 | 20,404 | 9,183 | 6,703 | 138.6 | 89.4 | 25.2 | 3.8 | 122.2 | 35.8 |
| Primary horsepower..... | 354,188 | 151,927 | 79,062 | 48,381 | 40,835 | 12,040 | (*) | 133.1 | 92.2 | 63.4 | 18.5 | 223.1 | ..... |
| Capital..... | \$782,637,722 | \$199,183,036 | \$98,507,228 | \$46,297,537 | \$39,302,353 | \$13,703,787 | \$6,284,187 | 292.9 | 102.2 | 112.8 | 17.8 | 186.8 | 118.1 |
| Salaries and wages..... | 231,756,285 | 43,905,632 | 19,525,961 | 12,269,631 | 10,297,400 | 4,516,266 | 2,450,672 | 427.9 | 124.9 | 59.1 | 19.2 | 128.0 | 84.3 |
| Salaries..... | 74,949,457 | 12,626,877 | 5,406,173 | 2,857,253 | 2,215,597 | (*) | (*) | 493.6 | 133.6 | 80.2 | 29.0 | ..... | ..... |
| Wages..... | 156,806,828 | 31,278,755 | 14,119,848 | 9,412,368 | 8,081,803 | (*) | (*) | 401.3 | 121.5 | 50.0 | 10.5 | ..... | ..... |
| Paid for contract work..... | 3,579,851 | 368,511 | 25,099 | 69,541 | 56,765 | (*) | (*) | 871.4 | 1,368.2 | -63.9 | 22.5 | ..... | ..... |
| Rent and taxes (including internal revenue)..... | 40,201,301 | 1,715,686 | 505,904 | 415,089 | 403,009 | (*) | (*) | 2,243.2 | 230.1 | ..... | ..... | ..... | ..... |
| Cost of materials..... | 525,686,309 | 126,111,673 | 82,191,821 | 38,912,226 | 33,482,314 | 11,113,528 | 9,641,167 | 316.8 | 53.4 | 111.2 | 16.2 | 201.3 | 15.3 |
| Value of products..... | 987,088,045 | 223,610,784 | 128,435,747 | 62,995,909 | 62,021,830 | 18,708,917 | 14,518,924 | 341.4 | 74.1 | 103.9 | 19.7 | 181.3 | 28.9 |
| Value added by manufacture ³ | 461,401,736 | 97,499,111 | 40,243,926 | 24,083,638 | 19,139,516 | 7,595,389 | 4,377,757 | 373.2 | 110.8 | 92.0 | 25.8 | 152.0 | 55.7 |
| BOOTS AND SHOES, RUBBER. | | | | | | | | | | | | | |
| Number of establishments..... | 25 | 23 | 22 | 22 | 22 | 11 | 9 | ..... | ..... | ..... | ..... | ..... | ..... |
| Persons engaged in the industry..... | 37,929 | 20,359 | 18,899 | 19,815 | 14,877 | (*) | (*) | 86.3 | 7.7 | -4.0 | 33.2 | ..... | ..... |
| Proprietors and firm members..... | 1 | 2 | ..... | 2 | 3 | (*) | (*) | ..... | ..... | ..... | ..... | ..... | ..... |
| Salaried employees..... | 5,053 | 1,670 | 1,287 | 822 | 483 | 130 | (*) | 202.6 | 29.8 | 56.6 | 70.2 | 271.5 | ..... |
| Wage earners (average number)..... | 32,876 | 18,687 | 17,612 | 18,991 | 14,391 | 9,134 | 4,662 | 75.9 | 0.1 | -7.8 | 32.0 | 57.0 | 95.9 |
| Primary horsepower..... | 49,400 | 24,621 | 25,903 | 26,084 | 25,017 | 9,543 | (*) | 100.0 | -4.9 | -0.7 | 4.3 | 162.2 | ..... |
| Capital..... | \$131,513,436 | \$46,051,464 | \$43,905,368 | \$30,441,826 | \$33,667,533 | \$17,790,970 | \$2,425,000 | 185.6 | 4.9 | 11.3 | 17.2 | 89.2 | 633.6 |
| Salaries and wages..... | 38,284,110 | 11,044,733 | 9,958,995 | 9,740,807 | 7,023,818 | 3,966,875 | 1,469,038 | 220.5 | 19.9 | 2.2 | 38.7 | 77.1 | 170.1 |
| Salaries..... | 7,401,388 | 1,958,279 | 1,414,743 | 874,001 | 597,239 | (*) | (*) | 278.0 | 38.4 | 61.9 | 46.3 | ..... | ..... |
| Wages..... | 30,882,722 | 9,086,454 | 8,544,252 | 8,866,806 | 6,426,579 | (*) | (*) | 209.2 | 16.9 | -3.6 | 38.0 | ..... | ..... |
| Paid for contract work..... | 96,467 | 39,140 | ..... | 5,132 | ..... | (*) | (*) | 140.5 | ..... | ..... | ..... | ..... | ..... |
| Rent and taxes (including internal revenue)..... | 3,080,065 | 345,678 | 266,368 | 464,590 | 419,692 | (*) | (*) | 791.0 | 29.8 | ..... | ..... | ..... | ..... |
| Cost of materials..... | 50,346,880 | 23,960,036 | 29,577,176 | 32,000,464 | 22,682,543 | 11,650,787 | 6,023,053 | 110.2 | -19.0 | -7.6 | 41.1 | 94.7 | 93.4 |
| Value of products..... | 110,917,494 | 53,822,123 | 49,720,537 | 70,065,266 | 41,089,819 | 18,632,060 | 9,705,724 | 117.2 | 8.2 | -29.0 | 70.5 | 120.5 | 92.0 |
| Value added by manufacture ³ | 66,570,554 | 29,806,087 | 20,143,391 | 38,064,832 | 18,407,276 | 6,981,273 | 3,082,671 | 122.9 | 48.3 | -47.1 | 106.8 | 163.7 | 89.6 |
| BELTING AND ROSE, RUBBER. | | | | | | | | | | | | | |
| Number of establishments..... | 15 | 18 | 18 | 19 | 18 | 17 | 2 | ..... | ..... | ..... | ..... | ..... | ..... |
| Persons engaged in the industry..... | 7,449 | 6,205 | 5,876 | 4,210 | 1,971 | (*) | (*) | 20.0 | 5.6 | 39.6 | 113.6 | ..... | ..... |
| Proprietors and firm members..... | ..... | ..... | ..... | ..... | 3 | (*) | (*) | ..... | ..... | ..... | ..... | ..... | ..... |
| Salaried employees..... | 1,623 | 1,000 | 744 | 512 | 197 | 110 | (*) | 48.8 | 46.5 | 45.8 | 159.9 | 70.1 | ..... |
| Wage earners (average number)..... | 5,826 | 5,115 | 5,131 | 3,693 | 1,771 | 1,835 | 364 | 13.9 | -0.3 | 38.8 | 108.8 | -3.5 | 404.1 |
| Primary horsepower..... | 26,299 | 22,995 | 17,471 | 12,343 | 5,317 | 4,942 | (*) | 14.4 | 31.6 | 41.5 | 132.1 | 7.6 | ..... |
| Capital..... | \$45,919,568 | \$22,436,922 | \$19,731,908 | \$13,240,273 | \$5,493,885 | \$5,270,068 | \$265,000 | 104.7 | 13.7 | 49.0 | 141.0 | 4.2 | 888.7 |
| Salaries and wages..... | 8,951,150 | 4,595,615 | 3,492,720 | 2,612,640 | 1,254,510 | 1,043,768 | 131,721 | 94.8 | 31.6 | 33.7 | 103.3 | 20.2 | 692.4 |
| Salaries..... | 2,877,611 | 1,693,422 | 1,019,844 | 807,848 | 386,319 | (*) | (*) | 69.9 | 66.0 | 26.3 | 140.1 | ..... | ..... |
| Wages..... | 6,073,539 | 2,902,193 | 2,472,876 | 1,804,992 | 918,191 | (*) | (*) | 109.8 | 17.4 | 37.0 | 96.6 | ..... | ..... |
| Paid for contract work..... | ..... | 1,200 | ..... | 1,515 | 6,096 | (*) | (*) | ..... | ..... | ..... | -75.1 | ..... | ..... |
| Rent and taxes (including internal revenue)..... | 1,164,456 | 184,958 | 78,941 | 63,448 | 452,620 | (*) | (*) | 605.9 | 109.0 | ..... | ..... | ..... | ..... |
| Cost of materials..... | 18,310,401 | 12,967,004 | 10,976,105 | 9,089,786 | 4,075,702 | 3,479,538 | 803,000 | 41.2 | 18.1 | 20.8 | 123.0 | 17.1 | 363.2 |
| Value of products..... | 34,210,540 | 23,560,889 | 19,238,324 | 14,954,186 | 6,169,044 | 5,512,840 | 1,085,000 | 45.2 | 22.5 | 28.6 | 142.4 | 11.9 | 408.1 |
| Value added by manufacture ³ | 15,900,139 | 10,593,885 | 8,262,219 | 5,864,400 | 2,093,342 | 2,033,302 | 222,000 | 60.1 | 28.2 | 40.9 | 180.1 | 3.0 | 815.9 |

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

² Figures for 1904, 1899, 1889, and 1879 include data for establishments engaged in the manufacture of elastic woven goods and are not strictly comparable with figures for 1909, 1914, and 1919.

³ Figures not available.

⁴ Exclusive of internal revenue.

⁵ Value of products less cost of materials.

MANUFACTURES.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

| STATE. | Num-ber of estab-lish-ments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | | STATE. | Num-ber of estab-lish-ments | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|--------------------|-----------------------------|------------------|--------------------------|-------|------------------------------------|--------------------------|-------|------------------------------------|--------------------------|-------|-------------------|-----------------------------|------------------|--------------------------|-------|------------------------------------|--------------------------|-------|------------------------------------|--------------------------|-------|
| | | Average num-ber. | Per cent dis-tribu-tion. | Rank. | Amount (ex-pressed in thou-sands). | Per cent dis-tribu-tion. | Rank. | Amount (ex-pressed in thou-sands). | Per cent dis-tribu-tion. | Rank. | | | Average num-ber. | Per cent dis-tribu-tion. | Rank. | Amount (ex-pressed in thou-sands). | Per cent dis-tribu-tion. | Rank. | Amount (ex-pressed in thou-sands). | Per cent dis-tribu-tion. | Rank. |
| United States. | 477 | 158,549 | 100.0 | .... | \$1,138,218 | 100.0 | .... | \$543,872 | 100.0 | .... | Rhode Island... | 10 | 8,533 | 5.4 | 5 | \$37,151 | 3.3 | 10 | \$19,219 | 3.5 | 6 |
| Ohio..... | 97 | 63,766 | 40.2 | 1 | 552,339 | 48.5 | 1 | 252,329 | 46.4 | 1 | Illinois..... | 21 | 1,196 | 0.8 | 11 | 6,711 | 0.6 | 11 | 3,645 | 0.7 | 11 |
| Massachusetts..... | 58 | 24,909 | 15.7 | 2 | 151,544 | 13.3 | 2 | 79,065 | 14.5 | 2 | Iowa..... | 9 | 839 | 0.5 | 13 | 6,333 | 0.6 | 12 | 2,614 | 0.5 | 14 |
| New Jersey..... | 72 | 14,946 | 9.4 | 3 | 97,551 | 8.6 | 3 | 44,859 | 8.2 | 3 | California..... | 22 | 736 | 0.5 | 14 | 6,295 | 0.6 | 13 | 3,393 | 0.6 | 12 |
| Connecticut..... | 25 | 11,499 | 7.3 | 4 | 56,379 | 5.0 | 4 | 28,619 | 5.3 | 5 | Missouri..... | 8 | 1,044 | 0.7 | 12 | 4,984 | 0.4 | 15 | 2,009 | 0.4 | 15 |
| Michigan..... | 7 | 5,044 | 3.2 | 10 | 50,318 | 4.4 | 5 | 29,139 | 5.4 | 4 | Georgia..... | 3 | 153 | 0.1 | 19 | 931 | 0.1 | 18 | 274 | 0.1 | 20 |
| Pennsylvania..... | 32 | 6,408 | 4.0 | 6 | 39,783 | 3.5 | 6 | 18,385 | 3.4 | 7 | Nebraska..... | 3 | 124 | 0.1 | 21 | 930 | 0.1 | 19 | 353 | 0.1 | 19 |
| Wisconsin..... | 9 | 5,281 | 3.3 | 9 | 39,069 | 3.4 | 7 | 17,855 | 3.3 | 9 | Texas..... | 6 | 57 | (¹) | 24 | 568 | (¹) | 22 | 376 | 0.1 | 18 |
| New York..... | 43 | 6,395 | 4.0 | 7 | 37,541 | 3.3 | 8 | 17,856 | 3.3 | 10 | Oklahoma..... | 8 | 26 | (¹) | 27 | 208 | (¹) | 25 | 105 | (¹) | 23 |
| Indiana..... | 16 | 5,803 | 3.7 | 8 | 37,270 | 3.3 | 9 | 18,165 | 3.3 | 8 | All other states. | 27 | 1,787 | 1.1 | .... | 11,911 | 1.0 | .... | 5,602 | 1.0 | .... |

¹ Less than one-tenth of 1 per cent.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| CLASS. | Cen-sus year. | Total. | Male. | Fe-male. | PER CENT OF TOTAL. | | CLASS. | Cen-sus year. | Total. | Male. | Fe-male. | PER CENT OF TOTAL. | |
|---|---------------|---------|---------|----------|--------------------|----------|---|---------------|--------|--------|----------|--------------------|----------|
| | | | | | Male. | Fe-male. | | | | | | Male. | Fe-male. |
| RUBBER GOODS—ALL BRANCHES. | 1919 | 206,202 | 162,945 | 43,257 | 79.0 | 21.0 | BOOTS AND SHOES, RUBBER... | 1919 | 37,929 | 22,347 | 15,582 | 58.9 | 41.1 |
| | 1914 | 88,821 | 70,716 | 18,105 | 79.6 | 20.4 | | 1914 | 20,359 | 12,407 | 7,952 | 60.9 | 39.1 |
| | 1909 | 56,059 | 42,702 | 13,357 | 76.2 | 23.8 | | 1909 | 18,809 | 11,680 | 7,219 | 61.8 | 38.2 |
| Proprietors and officials..... | 1919 | 5,116 | 4,971 | 145 | 97.2 | 2.8 | Proprietors and officials..... | 1919 | 865 | 791 | 74 | 91.4 | 8.6 |
| | 1914 | 1,599 | 1,570 | 29 | 98.2 | 1.8 | | 1914 | 160 | 155 | 5 | 96.9 | 3.1 |
| | 1909 | 1,118 | 1,094 | 24 | 97.9 | 2.1 | | 1909 | 194 | 191 | 3 | 98.5 | 1.5 |
| Proprietors and firm members... | 1919 | 98 | 91 | 7 | 92.9 | 7.1 | Proprietors and firm members... | 1919 | 1 | 1 | .... | 100.0 | .... |
| | 1914 | 87 | 82 | 5 | 94.3 | 5.7 | | 1914 | 2 | 2 | .... | 100.0 | .... |
| | 1909 | 133 | 93 | 40 | 90.3 | 9.7 | | 1909 | .... | .... | .... | 100.0 | .... |
| Salaried officers of corporations.. | 1919 | 914 | 897 | 17 | 98.1 | 1.9 | Salaried officers of corporations.. | 1919 | 69 | 69 | .... | 100.0 | .... |
| | 1914 | 514 | 503 | 11 | 97.0 | 3.0 | | 1914 | 44 | 44 | .... | 100.0 | .... |
| | 1909 | 348 | 344 | 4 | 98.9 | 1.1 | | 1909 | 44 | 44 | .... | 100.0 | .... |
| Superintendents and managers.. | 1919 | 4,104 | 3,983 | 121 | 97.1 | 2.9 | Superintendents and managers.. | 1919 | 705 | 721 | 74 | 90.7 | 9.3 |
| | 1914 | 988 | 985 | 3 | 98.7 | 1.3 | | 1914 | 114 | 109 | 5 | 95.6 | 4.4 |
| | 1909 | 607 | 657 | 10 | 98.5 | 1.5 | | 1909 | 150 | 147 | 3 | 98.0 | 2.0 |
| Clerks and other subordinate sala- ried employees. | 1919 | 42,537 | 20,299 | 13,238 | 68.9 | 31.1 | Clerks and other subordinate sala- ried employees. | 1919 | 4,189 | 2,509 | 1,680 | 59.9 | 40.1 |
| | 1914 | 13,200 | 9,930 | 3,300 | 75.0 | 25.0 | | 1914 | 1,512 | 1,056 | 456 | 69.8 | 30.2 |
| | 1909 | 5,077 | 4,256 | 1,421 | 75.0 | 25.0 | | 1909 | 1,093 | 813 | 280 | 74.4 | 25.6 |
| Wage earners (average number).... | 1919 | 158,549 | 128,675 | 29,874 | 81.2 | 18.8 | Wage earners (average number).... | 1919 | 32,875 | 19,047 | 13,828 | 57.9 | 42.1 |
| | 1914 | 74,022 | 59,246 | 14,776 | 80.0 | 20.0 | | 1914 | 18,037 | 11,196 | 7,481 | 59.9 | 40.1 |
| | 1909 | 49,264 | 37,352 | 11,912 | 75.8 | 24.2 | | 1909 | 17,612 | 10,676 | 6,936 | 60.6 | 39.4 |
| 16 years of age and over..... | 1919 | 156,591 | 127,871 | 28,720 | 81.5 | 18.5 | 16 years of age and over..... | 1919 | 31,928 | 18,660 | 13,268 | 58.4 | 41.6 |
| | 1914 | 73,776 | 58,907 | 14,869 | 80.3 | 19.7 | | 1914 | 18,440 | 11,094 | 7,346 | 60.2 | 39.8 |
| | 1909 | 48,393 | 36,903 | 11,490 | 76.3 | 23.7 | | 1909 | 17,162 | 10,451 | 6,711 | 60.9 | 39.1 |
| Under 16 years of age..... | 1919 | 1,658 | 804 | 854 | 48.5 | 51.5 | Under 16 years of age..... | 1919 | 947 | 387 | 560 | 40.9 | 59.1 |
| | 1914 | 640 | 339 | 301 | 52.6 | 47.4 | | 1914 | 247 | 102 | 145 | 41.3 | 58.7 |
| | 1909 | 871 | 449 | 422 | 51.5 | 48.5 | | 1909 | 450 | 225 | 225 | 50.0 | 50.0 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | 1919 | 160,824 | 134,261 | 26,563 | 83.5 | 16.5 | BELTING AND HOSE, RUBBER... | 1919 | 7,449 | 6,337 | 1,112 | 85.1 | 14.9 |
| | 1914 | 62,257 | 53,025 | 9,232 | 85.2 | 14.8 | | 1914 | 6,205 | 5,284 | 921 | 85.2 | 14.8 |
| | 1909 | 31,284 | 25,728 | 5,556 | 82.2 | 17.8 | | 1909 | 5,376 | 5,294 | 82 | 90.1 | 9.9 |
| Proprietors and officials..... | 1919 | 4,112 | 4,043 | 69 | 98.3 | 1.7 | Proprietors and officials..... | 1919 | 139 | 137 | 2 | 98.6 | 1.4 |
| | 1914 | 1,323 | 1,299 | 24 | 98.2 | 1.8 | | 1914 | 116 | 116 | .... | 100.0 | .... |
| | 1909 | 830 | 809 | 21 | 97.5 | 2.5 | | 1909 | 94 | 94 | .... | 100.0 | .... |
| Proprietors and firm members... | 1919 | 97 | 90 | 7 | 92.8 | 7.2 | Proprietors and firm members... | 1919 | .... | .... | .... | 100.0 | .... |
| | 1914 | 85 | 80 | 5 | 94.1 | 5.9 | | 1914 | .... | .... | .... | 100.0 | .... |
| | 1909 | 102 | 92 | 10 | 90.2 | 9.8 | | 1909 | 1 | 1 | .... | 100.0 | .... |
| Salaried officers of corporations.. | 1919 | 809 | 793 | 16 | 98.0 | 2.0 | Salaried officers of corporations.. | 1919 | 36 | 35 | 1 | 97.2 | 2.8 |
| | 1914 | 428 | 413 | 15 | 97.4 | 2.6 | | 1914 | 46 | 46 | .... | 100.0 | .... |
| | 1909 | 272 | 263 | 9 | 98.5 | 1.5 | | 1909 | 32 | 32 | .... | 100.0 | .... |
| Superintendents and managers.. | 1919 | 3,206 | 3,180 | 26 | 98.6 | 1.4 | Superintendents and managers.. | 1919 | 103 | 102 | 1 | 99.0 | 1.0 |
| | 1914 | 814 | 806 | 8 | 99.0 | 1.0 | | 1914 | 70 | 70 | .... | 100.0 | .... |
| | 1909 | 459 | 449 | 10 | 98.5 | 1.5 | | 1909 | 61 | 61 | .... | 100.0 | .... |
| Clerks and other subordinate sala- ried employees. | 1919 | 36,864 | 25,712 | 11,152 | 69.7 | 30.3 | Clerks and other subordinate sala- ried employees. | 1919 | 1,484 | 1,078 | 406 | 72.6 | 27.4 |
| | 1914 | 10,714 | 8,088 | 2,626 | 75.5 | 24.5 | | 1914 | 974 | 756 | 218 | 77.6 | 22.4 |
| | 1909 | 3,933 | 2,927 | 1,006 | 74.4 | 25.6 | | 1909 | 651 | 516 | 135 | 79.3 | 20.7 |
| Wage earners (average number).... | 1919 | 119,848 | 104,506 | 15,342 | 87.2 | 12.8 | Wage earners (average number).... | 1919 | 5,826 | 5,122 | 704 | 87.9 | 12.1 |
| | 1914 | 50,220 | 43,638 | 6,582 | 86.9 | 13.1 | | 1914 | 5,115 | 4,412 | 703 | 86.3 | 13.7 |
| | 1909 | 26,521 | 21,992 | 4,529 | 82.9 | 17.1 | | 1909 | 5,131 | 4,634 | 497 | 91.3 | 8.7 |
| 16 years of age and over..... | 1919 | 116,193 | 104,110 | 12,083 | 89.6 | 10.4 | 16 years of age and over..... | 1919 | 5,779 | 5,092 | 687 | 88.2 | 11.8 |
| | 1914 | 49,837 | 43,412 | 6,425 | 87.1 | 12.9 | | 1914 | 5,099 | 4,401 | 698 | 86.3 | 13.7 |
| | 1909 | 26,137 | 21,788 | 4,349 | 83.4 | 16.6 | | 1909 | 5,094 | 4,664 | 430 | 91.6 | 8.4 |
| Under 16 years of age..... | 1919 | 655 | 387 | 268 | 59.1 | 40.9 | Under 16 years of age..... | 1919 | 50 | 30 | 20 | 53.6 | 46.4 |
| | 1914 | 383 | 226 | 157 | 59.0 | 41.0 | | 1914 | 16 | 11 | 5 | 68.8 | 31.2 |
| | 1909 | 384 | 204 | 180 | 53.1 | 46.9 | | 1909 | 37 | 20 | 17 | 54.1 | 45.9 |

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TABLE 4.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| INDUSTRY, STATE, AND CENSUS YEAR. | Average number employed during year. | NUMBER EMPLOYED ON THE 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maximum. |
|--|--------------------------------------|---|-----------|---------|---------|---------|---------|---------|---------|------------|----------|-----------|-----------|---------------------------------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| RUBBER GOODS—ALL BRANCHES. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 158,549 | 144,031 | 140,354 | 148,683 | 150,259 | 152,769 | 154,825 | 160,358 | 165,973 | 166,948 | 173,824 | 160,223 | 168,441 | 83.4 |
| Males..... | 128,075 | 118,305 | 118,024 | 118,861 | 121,420 | 124,802 | 127,211 | 131,989 | 137,379 | 138,098 | 143,480 | 133,243 | 136,290 | 79.0 |
| Females..... | 29,874 | 31,626 | 31,330 | 29,822 | 28,830 | 27,907 | 27,614 | 28,369 | 28,594 | 28,850 | 30,364 | 32,980 | 32,142 | 88.7 |
| 1914..... | 74,022 | 70,590 | 74,157 | 77,759 | 80,967 | 82,193 | 78,650 | 74,148 | 68,414 | 70,412 | 70,441 | 69,954 | 70,579 | 83.2 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 119,848 | 104,075 | 108,422 | 110,130 | 112,712 | 116,353 | 119,028 | 123,540 | 128,283 | 129,013 | 134,423 | 125,370 | 126,827 | 77.4 |
| Males..... | 104,506 | 88,288 | 93,152 | 95,430 | 98,170 | 102,072 | 104,536 | 108,831 | 113,468 | 114,046 | 118,624 | 107,513 | 109,942 | 74.4 |
| Females..... | 15,342 | 15,787 | 15,270 | 14,700 | 14,542 | 14,281 | 14,492 | 14,709 | 14,815 | 14,967 | 15,799 | 17,867 | 16,885 | 80.0 |
| 1914..... | 50,220 | 47,201 | 50,788 | 54,078 | 57,317 | 58,246 | 54,624 | 51,414 | 46,617 | 46,629 | 45,881 | 44,674 | 45,271 | 76.5 |
| California..... | 513 | 427 | 452 | 458 | 405 | 481 | 480 | 513 | 549 | 572 | 561 | 588 | 580 | 72.6 |
| Connecticut..... | 5,060 | 4,670 | 4,728 | 4,756 | 4,066 | 4,874 | 5,035 | 5,125 | 4,952 | 5,092 | 5,407 | 5,585 | 5,830 | 80.0 |
| Illinois..... | 650 | 532 | 603 | 592 | 616 | 591 | 700 | 752 | 688 | 637 | 658 | 729 | 695 | 70.7 |
| Indiana..... | 2,917 | 2,626 | 3,018 | 3,129 | 3,004 | 2,963 | 2,715 | 2,708 | 2,845 | 2,922 | 3,008 | 3,137 | 2,871 | 83.7 |
| Iowa..... | 839 | 640 | 687 | 760 | 783 | 814 | 844 | 911 | 903 | 958 | 995 | 910 | 903 | 54.3 |
| Massachusetts..... | 9,406 | 7,728 | 7,959 | 8,842 | 9,517 | 9,532 | 9,212 | 9,353 | 9,588 | 9,692 | 10,115 | 10,532 | 10,804 | 71.5 |
| Michigan..... | 5,044 | 4,184 | 4,620 | 4,828 | 4,587 | 4,810 | 4,786 | 4,983 | 5,164 | 5,279 | 5,505 | 5,814 | 6,968 | 70.1 |
| Missouri..... | 621 | 662 | 670 | 590 | 543 | 559 | 621 | 668 | 630 | 607 | 650 | 644 | 629 | 80.4 |
| New Jersey..... | 12,353 | 11,321 | 11,885 | 12,152 | 11,880 | 12,204 | 12,252 | 12,355 | 12,455 | 12,054 | 13,021 | 13,259 | 13,368 | 84.7 |
| New York..... | 5,370 | 4,776 | 4,958 | 4,774 | 5,019 | 5,115 | 5,441 | 5,387 | 5,389 | 5,627 | 5,673 | 6,018 | 6,263 | 76.2 |
| Ohio..... | 63,637 | 58,904 | 56,340 | 56,747 | 58,382 | 61,209 | 63,649 | 67,157 | 71,484 | 71,834 | 74,720 | 63,864 | 64,354 | 72.1 |
| Pennsylvania..... | 4,880 | 4,385 | 4,488 | 4,445 | 4,713 | 4,767 | 4,752 | 4,816 | 4,883 | 5,002 | 5,315 | 5,319 | 5,595 | 78.4 |
| Rhode Island..... | 2,117 | 2,685 | 2,123 | 2,005 | 2,008 | 2,028 | 1,966 | 2,054 | 2,121 | 2,005 | 2,093 | 2,165 | 2,221 | 71.7 |
| Wisconsin..... | 4,557 | 4,302 | 4,397 | 4,466 | 4,618 | 4,498 | 4,451 | 4,450 | 4,556 | 4,657 | 4,686 | 4,818 | 4,785 | 89.3 |
| BOOTS AND SHOES, RUBBER. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 32,875 | 34,591 | 35,339 | 33,977 | 32,455 | 31,298 | 30,042 | 31,304 | 31,561 | 31,578 | 32,953 | 34,145 | 34,657 | 86.7 |
| Males..... | 19,047 | 19,639 | 20,004 | 19,479 | 18,795 | 18,231 | 18,098 | 18,308 | 18,484 | 18,421 | 19,062 | 19,778 | 20,265 | 89.3 |
| Females..... | 13,828 | 14,952 | 15,335 | 14,498 | 13,660 | 13,067 | 11,944 | 12,996 | 13,077 | 13,157 | 13,891 | 14,367 | 14,392 | 81.8 |
| 1914..... | 18,687 | 18,286 | 18,325 | 18,613 | 18,513 | 18,776 | 18,752 | 17,401 | 16,756 | 18,617 | 19,377 | 20,340 | 20,398 | 82.1 |
| Connecticut..... | 6,439 | 6,387 | 6,600 | 6,436 | 6,221 | 6,209 | 6,511 | 6,557 | 6,568 | 6,305 | 6,513 | 6,503 | 6,338 | 94.1 |
| Massachusetts..... | 13,062 | 14,308 | 14,413 | 13,707 | 12,834 | 12,209 | 11,755 | 11,835 | 12,042 | 12,136 | 13,031 | 13,979 | 14,435 | 81.4 |
| BELTING AND HOSE, RUBBER. | | | | | | | | | | | | | | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 5,826 | 6,265 | 5,593 | 4,679 | 5,092 | 5,118 | 5,155 | 5,514 | 6,129 | 6,357 | 6,448 | 6,708 | 6,957 | 65.8 |
| Males..... | 5,122 | 5,378 | 4,868 | 3,952 | 4,464 | 4,409 | 4,577 | 4,850 | 5,427 | 5,931 | 5,774 | 5,932 | 6,092 | 64.9 |
| Females..... | 704 | 887 | 725 | 624 | 628 | 619 | 578 | 664 | 702 | 726 | 674 | 756 | 865 | 65.2 |
| 1914..... | 5,115 | 5,103 | 5,044 | 5,068 | 5,137 | 5,171 | 5,274 | 5,243 | 5,041 | 5,166 | 5,183 | 5,040 | 4,910 | 93.1 |
| Massachusetts..... | 2,441 | 2,827 | 2,358 | 2,367 | 2,159 | 2,152 | 2,026 | 2,282 | 2,579 | 2,553 | 2,473 | 2,660 | 2,851 | 71.1 |
| States showing large proportion of females. | | | | | | | | | | | | | | |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | | | | | | | | | |
| Connecticut..... | 857 | 921 | 875 | 862 | 836 | 853 | 800 | 804 | 748 | 820 | 873 | 898 | 934 | 16.9 |
| Indiana..... | 426 | 459 | 511 | 455 | 430 | 421 | 381 | 369 | 389 | 409 | 423 | 438 | 427 | 14.6 |
| Massachusetts..... | 1,354 | 1,222 | 1,198 | 1,290 | 1,269 | 1,264 | 1,304 | 1,361 | 1,345 | 1,396 | 1,496 | 1,554 | 1,549 | 14.4 |
| New Jersey..... | 1,637 | 1,630 | 1,654 | 1,654 | 1,624 | 1,627 | 1,645 | 1,651 | 1,665 | 1,496 | 1,634 | 1,673 | 1,691 | 13.3 |
| New York..... | 1,563 | 1,621 | 1,599 | 1,488 | 1,446 | 1,455 | 1,554 | 1,511 | 1,513 | 1,552 | 1,603 | 1,643 | 1,771 | 20.1 |
| Ohio..... | 6,223 | 6,276 | 6,177 | 5,821 | 5,754 | 5,540 | 5,572 | 5,726 | 5,985 | 6,125 | 6,481 | 8,197 | 7,022 | 9.8 |
| Pennsylvania..... | 735 | 694 | 692 | 753 | 763 | 765 | 771 | 747 | 681 | 695 | 714 | 777 | 788 | 15.1 |
| Rhode Island..... | 877 | 1,296 | 951 | 818 | 824 | 789 | 763 | 844 | 852 | 768 | 827 | 891 | 911 | 41.4 |
| Wisconsin..... | 572 | 668 | 562 | 628 | 595 | 554 | 552 | 538 | 541 | 563 | 599 | 594 | 600 | 12.6 |
| BOOTS AND SHOES, RUBBER. | | | | | | | | | | | | | | |
| Connecticut..... | 2,894 | 2,980 | 3,084 | 2,917 | 2,750 | 2,724 | 2,839 | 2,911 | 2,895 | 2,862 | 2,943 | 2,956 | 2,867 | 44.9 |
| Massachusetts..... | 5,409 | 6,023 | 6,168 | 5,842 | 5,408 | 5,053 | 4,684 | 4,750 | 4,841 | 4,925 | 5,425 | 5,864 | 5,935 | 41.4 |

MANUFACTURES.

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| INDUSTRY AND STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|---|-----------------|---------|--|--------------------------|--------|--------------------------|--------|--------------------------|-------|-------------|
| | | | 44 and under. | Between 44 and 48. | 48.1 | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| RUBBER GOODS—ALL BRANCHES..... | 1919 | 158,549 | 4,109 | 25,449 | 80,976 | 20,510 | 1,453 | 20,232 | 5,820 | ..... |
| | 1914 | 74,022 | (2) | (2) | 3,216 | 9,959 | 23,969 | 31,739 | 4,750 | 389 |
| | 1909 | 49,264 | (2) | (2) | 163 | 1,201 | 15,555 | 23,457 | 8,881 | 7 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | | | | | |
| United States..... | 1919 | 119,848 | 3,385 | 25,172 | 49,828 | 18,891 | 1,185 | 19,352 | 2,585 | ..... |
| | 1914 | 50,220 | (2) | (2) | 3,216 | 9,621 | 8,019 | 25,427 | 3,548 | 389 |
| California..... | 1919 | 513 | 50 | 1 | 375 | 51 | 36 | ..... | ..... | ..... |
| | 1914 | 226 | (2) | (2) | 55 | 137 | 34 | ..... | ..... | ..... |
| Connecticut..... | 1919 | 5,060 | ..... | 588 | 348 | 3,482 | 23 | 619 | ..... | ..... |
| | 1914 | 2,485 | ..... | ..... | ..... | 366 | 184 | 1,568 | 307 | ..... |
| Illinois..... | 1919 | 650 | 133 | 67 | 21 | 196 | ..... | 233 | ..... | ..... |
| | 1914 | 563 | (2) | (2) | 2 | 38 | 7 | 488 | 28 | ..... |
| Indiana..... | 1919 | 2,917 | 25 | ..... | 57 | 85 | ..... | 2,663 | 87 | ..... |
| | 1914 | 1,499 | ..... | ..... | ..... | 597 | 39 | 448 | 415 | ..... |
| Iowa..... | 1919 | 839 | ..... | ..... | 385 | 64 | 150 | 240 | ..... | ..... |
| | 1914 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Massachusetts..... | 1919 | 9,406 | 6 | 190 | 3,519 | 5,214 | 225 | 252 | ..... | ..... |
| | 1914 | 4,743 | ..... | ..... | ..... | 246 | 143 | 4,348 | 6 | ..... |
| Michigan..... | 1919 | 5,044 | 17 | ..... | 4,845 | 48 | 2 | 132 | ..... | ..... |
| | 1914 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Missouri..... | 1919 | 621 | 21 | 6 | 8 | 549 | ..... | 37 | ..... | ..... |
| | 1914 | 285 | (2) | (2) | 49 | 19 | 20 | 147 | ..... | ..... |
| New Jersey..... | 1919 | 12,353 | 205 | ..... | 2,554 | 2,890 | 337 | 4,752 | 1,006 | ..... |
| | 1914 | 6,316 | (2) | (2) | 10 | 1,139 | 41 | 3,666 | 1,460 | ..... |
| New York..... | 1919 | 5,370 | 444 | ..... | 2,634 | 1,164 | 1 | 584 | 543 | ..... |
| | 1914 | 3,693 | (2) | (2) | 27 | 797 | 1,808 | 305 | 686 | 10 |
| Ohio..... | 1919 | 63,637 | 2,207 | 22,489 | 33,308 | 2,396 | 265 | 2,874 | 98 | ..... |
| | 1914 | 21,705 | (2) | (2) | 3,067 | 5,848 | 99 | 12,297 | 64 | 340 |
| Pennsylvania..... | 1919 | 4,880 | 50 | 1,786 | 334 | 285 | 8 | 2,230 | 187 | ..... |
| | 1914 | 3,172 | (2) | (2) | 12 | 417 | 2,704 | 39 | ..... | ..... |
| Rhode Island..... | 1919 | 2,117 | ..... | ..... | 752 | 1,279 | 80 | ..... | ..... | ..... |
| | 1914 | 1,541 | ..... | ..... | ..... | ..... | 744 | 756 | 41 | ..... |
| Wisconsin..... | 1919 | 4,557 | 153 | ..... | ..... | ..... | ..... | 4,390 | 14 | ..... |
| | 1914 | 1,637 | ..... | ..... | ..... | 17 | ..... | 1,245 | 375 | ..... |
| BOOTS AND SHOES, RUBBER. | | | | | | | | | | |
| United States..... | 1919 | 32,875 | 724 | ..... | 26,881 | 1,532 | 5 | 448 | 3,285 | ..... |
| | 1914 | 18,687 | ..... | ..... | ..... | 338 | 14,859 | 3,490 | ..... | ..... |
| Connecticut..... | 1919 | 6,439 | ..... | ..... | 6,439 | ..... | ..... | ..... | ..... | ..... |
| | 1914 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Massachusetts..... | 1919 | 13,062 | ..... | ..... | 13,056 | 6 | ..... | ..... | ..... | ..... |
| | 1914 | 8,087 | ..... | ..... | ..... | ..... | 8,087 | ..... | ..... | ..... |
| BELTING AND ROSE, RUBBER. | | | | | | | | | | |
| United States..... | 1919 | 5,826 | ..... | 277 | 4,267 | 587 | 263 | 432 | ..... | ..... |
| | 1914 | 5,115 | ..... | ..... | ..... | ..... | 1,091 | 2,822 | 1,202 | ..... |
| Massachusetts..... | 1919 | 2,441 | ..... | ..... | 2,118 | 323 | ..... | ..... | ..... | ..... |
| | 1914 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

* Includes 48 and under for 1914 and 1909.

* Corresponding figures not available.

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TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| INDUSTRY AND STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | | | |
|---|-----------------|-----------------------------------|-----------------------------|---|-----------------------|--|-----------------------|---|-----------------------|--|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|-------------------------------------|-----------------------|--|
| | Establishments. | Wage earners (average number). | No wage earn- ers. | 1 to 5 wage earn- ers, inclusive. | | 6 to 20 wage earn- ers, inclusive. | | 21 to 50 wage earn- ers, inclusive. | | 51 to 100 wage earn- ers, inclusive. | | 101 to 250 wage earn- ers, inclusive. | | 251 to 500 wage earn- ers, inclusive. | | 501 to 1,000 wage earn- ers, inclusive. | | Over 1,000 wage earn- ers. | | |
| | | | Establish- ments. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | Establish- ments. | Wage earn- ers. | |
| RUBBER GOODS—ALL BRANCHES. | | | | | | | | | | | | | | | | | | | | |
| United States.....1919.. | 477 | 158,549 | 10 | 78 | 197 | 93 | 1,164 | 76 | 2,659 | 58 | 4,312 | 62 | 10,076 | 40 | 14,782 | 25 | 10,258 | 35 | 109,101 | |
|1914.. | 342 | 74,022 | 10 | 68 | 167 | 75 | 868 | 60 | 1,978 | 33 | 2,501 | 37 | 5,944 | 29 | 10,602 | 27 | 18,881 | 13 | 33,081 | |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | | | | | | | | | | | | | | | |
| United States..... | 437 | 119,848 | 10 | 76 | 190 | 91 | 1,141 | 75 | 2,616 | 56 | 4,155 | 60 | 9,767 | 30 | 11,343 | 19 | 11,007 | 20 | 78,729 | |
| California..... | 20 | 513 | 3 | 6 | 16 | 5 | 62 | 5 | 205 | 2 | 173 | 1 | 230 | 3 | 1,179 | 2 | 1,194 | 1 | 2,224 | |
| Connecticut..... | 21 | 5,060 | 1 | 2 | 7 | 6 | 66 | 3 | 69 | 2 | 173 | 1 | 148 | 3 | 1,179 | 2 | 1,194 | 1 | 2,224 | |
| Illinois..... | 20 | 650 | 1 | 5 | 12 | 8 | 123 | 2 | 82 | 3 | 249 | 1 | 184 | 2 | 871 | 1 | 386 | 1 | 1,251 | |
| Indiana..... | 15 | 2,917 | 1 | 1 | 2 | 1 | 17 | 2 | 68 | 7 | 534 | 1 | 176 | 2 | 871 | 1 | 386 | 1 | 1,251 | |
| Iowa..... | 9 | 839 | 1 | 1 | 1 | 3 | 48 | 1 | 24 | 1 | 57 | 2 | 325 | 1 | 386 | 1 | 386 | 1 | 1,251 | |
| Massachusetts..... | 47 | 9,406 | 1 | 5 | 14 | 7 | 96 | 9 | 289 | 10 | 721 | 10 | 1,365 | 2 | 823 | 1 | 571 | 2 | 5,527 | |
| Michigan..... | 7 | 5,044 | 1 | 2 | 3 | 2 | 25 | 1 | 47 | 1 | 124 | 1 | 124 | 1 | 358 | 1 | 358 | 1 | 4,845 | |
| Missouri..... | 7 | 621 | 1 | 4 | 10 | 2 | 14 | 3 | 97 | 1 | 162 | 1 | 162 | 1 | 358 | 1 | 358 | 1 | 4,845 | |
| New Jersey..... | 65 | 12,353 | 1 | 4 | 10 | 13 | 178 | 12 | 413 | 10 | 707 | 14 | 2,414 | 6 | 2,136 | 3 | 2,668 | 3 | 3,824 | |
| New York..... | 40 | 5,370 | 2 | 11 | 26 | 5 | 60 | 6 | 185 | 3 | 233 | 7 | 1,187 | 2 | 752 | 3 | 1,926 | 1 | 1,021 | |
| Ohio..... | 96 | 63,637 | 1 | 13 | 38 | 22 | 249 | 20 | 737 | 6 | 469 | 13 | 2,011 | 12 | 4,427 | 3 | 1,802 | 7 | 58,904 | |
| Pennsylvania..... | 31 | 4,880 | 1 | 11 | 26 | 4 | 48 | 2 | 84 | 7 | 458 | 2 | 463 | 1 | 412 | 3 | 1,603 | 1 | 1,786 | |
| Rhode Island..... | 6 | 2,117 | 1 | 1 | 1 | 1 | 14 | 1 | 44 | 1 | 85 | 2 | 335 | 1 | 335 | 1 | 565 | 1 | 1,088 | |
| Wisconsin..... | 8 | 4,557 | 1 | 1 | 1 | 1 | 14 | 2 | 60 | 1 | 153 | 1 | 153 | 1 | 153 | 2 | 1,062 | 2 | 3,259 | |
| BOOTS AND SHOES, RUBBER. | | | | | | | | | | | | | | | | | | | | |
| United States..... | 25 | 32,875 | 1 | 2 | 7 | 1 | 6 | 1 | 6 | 1 | 6 | 1 | 6 | 5 | 1,083 | 4 | 2,925 | 13 | 27,954 | |
| Connecticut..... | 5 | 8,439 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 251 | 1 | 251 | 4 | 6,188 | |
| Massachusetts..... | 8 | 13,062 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 251 | 2 | 1,608 | 5 | 11,888 | |
| BELTING AND HOSE, RUBBER. | | | | | | | | | | | | | | | | | | | | |
| United States..... | 15 | 5,826 | 1 | 1 | 1 | 1 | 17 | 1 | 43 | 2 | 157 | 2 | 309 | 5 | 1,450 | 2 | 1,426 | 2 | 2,418 | |
| Massachusetts..... | 3 | 2,441 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 323 | 1 | 880 | 1 | 1,238 | |

TABLE 7.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|-------|-------|---------------------------------|--------|--------|--------------------|---------------|---------------|-----------------------------|---------------|--------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| All classes..... | 477 | 342 | 267 | 158,549 | 74,022 | 49,264 | \$1,138,216,019 | \$300,993,790 | \$197,894,638 | \$543,872,429 | \$137,959,083 | \$74,649,536 |
| Less than \$5,000..... | 15 | 26 | 20 | 12 | 32 | 24 | 39,084 | 64,221 | 53,582 | 16,992 | 35,941 | 24,688 |
| \$5,000 to \$20,000..... | 58 | 52 | 45 | 210 | 259 | 204 | 660,081 | 528,766 | 600,603 | 372,120 | 286,135 | 239,568 |
| \$20,000 to \$100,000..... | 90 | 84 | 65 | 1,181 | 1,485 | 987 | 4,808,270 | 4,212,430 | 3,340,262 | 1,735,765 | 1,038,851 | 1,421,341 |
| \$100,000 to \$500,000..... | 131 | 79 | 88 | 5,535 | 13,965 | 9,072 | 29,582,013 | 18,052,321 | 34,000,274 | 13,607,632 | 19,250,061 | 12,509,325 |
| \$500,000 to \$1,000,000..... | 46 | 38 | 40 | 5,946 | 58,281 | 38,377 | 33,043,670 | 26,917,050 | 159,500,017 | 13,828,527 | 110,448,005 | 60,454,614 |
| \$1,000,000 and over..... | 137 | 63 | 49 | 145,065 | 58,281 | 38,377 | 1,070,086,951 | 250,619,008 | 159,500,017 | 614,311,393 | 110,448,005 | 60,454,614 |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 3.1 | 7.6 | 7.5 | (1) | (2) | (1) | (1) | (1) | (1) | (1) | (1) | (1) |
| \$5,000 to \$20,000..... | 12.2 | 15.2 | 16.9 | 0.1 | 0.8 | 0.4 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 |
| \$20,000 to \$100,000..... | 18.9 | 24.6 | 24.3 | 0.7 | 2.0 | 2.0 | 0.4 | 1.4 | 1.7 | 0.3 | 1.4 | 1.9 |
| \$100,000 to \$500,000..... | 27.5 | 23.1 | 33.0 | 3.5 | 18.9 | 19.6 | 2.6 | 6.2 | 17.2 | 2.5 | 14.0 | 16.8 |
| \$500,000 to \$1,000,000..... | 9.6 | 11.1 | 18.4 | 3.8 | 78.7 | 77.9 | 2.9 | 8.9 | 80.8 | 2.5 | 84.4 | 81.0 |
| \$1,000,000 and over..... | 28.7 | 18.4 | 18.4 | 91.9 | 78.7 | 77.9 | 94.0 | 83.3 | 80.8 | 94.6 | 84.4 | 81.0 |

1 Less than one-tenth of 1 per cent.

MANUFACTURES.

TABLE 8.—CHARACTER OF OWNERSHIP: 1919, 1914, AND 1909.

| CHARACTER OF OWNERSHIP. | Census year. | Number of establishments. | Average number of wage earners. | Value of products. | Value added by manufacture. | CHARACTER OF OWNERSHIP. | Census year. | Number of establishments. | Average number of wage earners. | Value of products. | Value added by manufacture. |
|-------------------------|--------------|---------------------------|---------------------------------|--------------------|-----------------------------|-------------------------|--------------|---------------------------|---------------------------------|--------------------|-----------------------------|
| All classes..... | 1919 | 477 | 158,549 | \$1,133,216,019 | \$543,872,429 | Per cent distribution: | 1919 | 9.9 | 0.4 | 0.3 | 0.3 |
| | 1914 | 342 | 74,022 | 300,993,796 | 137,959,083 | Individual..... | 1914 | 11.7 | 1.0 | 0.8 | 0.6 |
| | 1909 | 267 | 49,264 | 197,394,638 | 74,649,536 | | 1909 | 16.5 | 1.4 | 1.2 | 1.1 |
| Individual..... | 1919 | 47 | 593 | 3,727,425 | 1,482,954 | Corporation..... | 1919 | 85.3 | 99.5 | 99.5 | 99.6 |
| | 1914 | 40 | 774 | 2,350,052 | 891,744 | | 1914 | 82.7 | 98.7 | 99.0 | 99.1 |
| | 1909 | 44 | 685 | 2,365,077 | 844,030 | | 1909 | 73.4 | 98.1 | 98.3 | 98.3 |
| Corporation..... | 1919 | 407 | 157,804 | 1,132,958,162 | 541,582,216 | All other..... | 1919 | 4.8 | 0.1 | 0.1 | 0.1 |
| | 1914 | 283 | 73,040 | 297,939,143 | 136,729,985 | | 1914 | 5.6 | 0.3 | 0.2 | 0.2 |
| | 1909 | 196 | 48,349 | 194,002,094 | 73,386,455 | | 1909 | 10.1 | 0.5 | 0.5 | 0.6 |
| All other..... | 1919 | 23 | 152 | 1,530,432 | 807,259 | | | | | | |
| | 1914 | 19 | 208 | 704,601 | 337,354 | | | | | | |
| | 1909 | 27 | 230 | 937,467 | 419,051 | | | | | | |

TABLE 9.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|-------|-------|-------------|---------|---------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 10,001 | 2,237 | 1,013 | 420,887 | 199,543 | 122,436 | 100.0 | 100.0 | 100.0 |
| Owned..... | 841 | 627 | 589 | 235,926 | 165,269 | 113,812 | 54.9 | 82.8 | 93.0 |
| Steam ¹ | 555 | 556 | 529 | 226,539 | 158,547 | 106,643 | 52.7 | 79.5 | 87.1 |
| Engines..... | 489 | (2) | (2) | 120,458 | (2) | (2) | 28.0 | (2) | (2) |
| Turbines..... | 66 | (2) | (2) | 106,081 | (2) | (2) | 24.7 | (2) | (2) |
| Internal-combustion engines..... | 32 | 30 | 23 | 3,773 | 1,691 | 2,361 | 0.9 | 0.8 | 1.9 |
| Water wheels, turbines, and motors..... | 54 | 41 | 37 | 5,614 | 5,021 | 4,808 | 1.3 | 2.5 | 3.9 |
| Rented..... | 9,360 | 1,610 | 424 | 193,961 | 34,284 | 8,624 | 45.1 | 17.2 | 7.0 |
| Electric..... | 9,360 | 1,610 | 424 | 193,961 | 33,983 | 7,909 | 45.0 | 17.0 | 6.5 |
| Other..... | | | | 614 | 301 | 715 | 0.1 | 0.2 | 0.6 |
| Electric..... | 16,654 | 6,176 | 1,502 | 356,024 | 114,803 | 27,591 | 100.0 | 100.0 | 100.0 |
| Rented..... | 9,360 | 1,610 | 424 | 193,961 | 33,983 | 7,909 | 54.5 | 29.6 | 28.7 |
| Generated by establishments reporting..... | 7,294 | 4,566 | 1,078 | 162,063 | 80,820 | 19,682 | 45.5 | 70.4 | 71.3 |

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.² Figures not available.

TABLE 10.—FUEL CONSUMED, BY STATES: 1919.

| INDUSTRY AND STATE. | COAL. | | Coke (tons, 2,000 pounds). | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). |
|--|----------------------------------|----------------------------------|----------------------------|----------------------|---|-------------------------|
| | Anthracite (tons, 2,400 pounds). | Bituminous (tons, 2,000 pounds). | | | | |
| ALL BRANCHES. | | | | | | |
| United States.....1919.. | 137,318 | 2,149,811 | 5,316 | 315,100 | 52,535 | 292,884 |
|1914.. | 131,038 | 1,004,701 | 3,131 | 18,843 | (1) | 376,324 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | |
| United States..... | 84,915 | 1,928,116 | 3,651 | 186,639 | 43,146 | 283,760 |
| California..... | | 75 | | 5,130 | 188 | 15,544 |
| Connecticut..... | 2,179 | 65,026 | | 4 | | 6,469 |
| Illinois..... | 12 | 9,940 | 12 | | 97 | 132 |
| Indiana..... | 150 | 84,849 | 75 | | 6,000 | |
| Iowa..... | | 10,321 | | 69 | 350 | 680 |
| Massachusetts..... | 853 | 90,702 | 2,680 | 156 | 4,139 | 110 |
| Michigan..... | | 70,709 | | | | 197 |
| Missouri..... | | 3,219 | | | | |
| New Jersey..... | 45,853 | 189,375 | 825 | 33,321 | 2,235 | 539 |
| New York..... | 26,423 | 54,902 | | 250 | 1,507 | 7,103 |
| Ohio..... | 3,730 | 1,156,810 | | 58,759 | 23,920 | 236,332 |
| Pennsylvania..... | 1,271 | 83,754 | | 24 | 3,254 | 10,001 |
| Rhode Island..... | 57 | 9,815 | | 78,689 | 934 | 970 |
| Wisconsin..... | 0,387 | 69,613 | | | | |
| BOOTS AND SHOES, RUBBER. | | | | | | |
| United States..... | 19,853 | 136,967 | 1,391 | 98,009 | 6,190 | 2,425 |
| Connecticut..... | 1,161 | 32,536 | 136 | | | 681 |
| Massachusetts..... | 12,080 | 45,992 | | 531 | 4,561 | |
| BELTING AND HOSE, RUBBER. | | | | | | |
| United States..... | 32,550 | 84,728 | 274 | 30,452 | 3,199 | 6,699 |
| Massachusetts..... | 250 | 40,205 | 274 | | 28 | |

¹ Included in figures for fuel oils.

SPECIAL STATISTICS.

Certain additional detailed information concerning the quantity and value of products for the industry is collected by means of supplemental schedules and is summarized in the following tables.

The establishments in the industry were classified according to their product of chief value but in the manufacture of the various products there was much overlapping between the different branches of the industry. For example, there were only 15 establishments that reported the manufacture of belting and hose as a chief product, but 24 establishments classified as tires, tubes, and other rubber goods also reported some belting and hose.

Table 11 shows in comparative form for 1919 and

1914 the quantity and value of the products manufactured. As in 1914, tires were the chief product of the rubber industry, the output of this class being valued in 1919 at \$752,926,708 or 66.1 per cent of the total value of products for the industry, as compared with \$146,421,569, or 48.6 per cent, in 1914. The second most important branch of the industry, rubber boots and shoes, had an output in 1919 of \$90,779,829, or 8 per cent of the total value of products for the industry, as compared with \$50,506,156, or 16.8 per cent, in 1914. The value of belting and hose produced in 1919 totaled \$49,434,534, or 4.3 per cent of the total value of products, as compared with a value of \$24,843,098, or 8.2 per cent, in 1914.

TABLE 11.—DETAILED STATISTICS OF QUANTITY AND VALUE: 1919 AND 1914.

| PRODUCT. | 1919 | 1914 | PRODUCT. | 1919 | 1914 |
|--------------------------------|--------------------|--------------------|---|--------------------|--------------------|
| | Number and amount. | Number and amount. | | Number and amount. | Number and amount. |
| Total value ¹ | \$1,138,218,019 | \$300,993,796 | Shoes, rubber: | | |
| Tires: | | | Pairs..... | 66,145,541 | 57,211,728 |
| Pneumatic— | | | Value..... | \$64,713,182 | \$37,858,222 |
| Automobile— | | | Shoes, canvas, with rubber soles: | | |
| Casings— | | | Pairs..... | 21,034,664 | (²) |
| Number..... | 32,835,569 | 8,021,371 | Value..... | \$25,176,684 | (²) |
| Value..... | \$603,896,200 | \$108,678,951 | Heels, sold as such and on hand: | | |
| Inner tubes— | | | Pairs..... | 138,468,769 | (²) |
| Number..... | 33,255,410 | 7,907,351 | Value..... | \$16,103,501 | (²) |
| Value..... | \$81,312,576 | \$20,101,084 | Soles, including composition or fiber: | | |
| Motorcycle and bicycle— | | | Pairs..... | 9,777,085 | (²) |
| Casings— | | | Value..... | \$2,455,368 | (²) |
| Number..... | 4,656,121 | | Rubberized fabrics, sold as such or on hand: | | |
| Value..... | \$13,440,225 | 3,728,188 | Automobile and carriage— | | |
| Inner tubes— | | | Yards..... | 40,760,500 | (²) |
| Number..... | 1,125,097 | \$6,905,853 | Value..... | \$10,606,547 | (²) |
| Value..... | \$1,347,012 | | All other— | | |
| Solid— | | | Yards..... | 47,162,065 | (²) |
| Truck— | | | Value..... | \$13,712,376 | (²) |
| Number..... | 1,454,807 | (²) | Belting, value..... | \$22,436,242 | \$7,989,405 |
| Value..... | \$43,917,152 | \$13,735,081 | Hose, value..... | \$26,998,292 | \$16,853,693 |
| All other— | | | Packing, value..... | \$7,316,819 | \$3,507,651 |
| Number..... | 6,873,650 | | Clothing, value..... | \$8,824,430 | \$3,799,515 |
| Value..... | \$9,004,543 | | Druggists' and stationers' supplies, value..... | \$15,801,892 | \$7,511,755 |
| Boots, rubber: | | | Hard rubber goods, value..... | \$34,383,231 | (²) |
| Pairs..... | 9,207,703 | 4,024,486 | All other manufactures of rubber, value..... | \$50,710,398 | \$41,384,086 |
| Value..... | \$26,066,647 | \$12,647,934 | Reclaimed rubber, sold and on hand: | | |
| | | | Pounds..... | 125,758,832 | (²) |
| | | | Value..... | \$20,173,040 | \$11,134,958 |
| | | | All other products, value..... | \$9,711,224 | \$8,886,008 |

¹ In addition, products to the value of \$9,134,403 in 1919, and \$752,503 in 1914, were reported by establishments assigned to other classifications.

² Figures not available.

MANUFACTURES.

Table 12 summarizes by states the quantity and value of rubber tires produced in 1919. Ohio was the leading state in every branch of the tire industry, and in

the manufacture of automobile casings and inner tubes produced in number and value more than all the other states combined.

TABLE 12.—RUBBER TIRES—PRODUCTION, BY PRINCIPAL STATES: 1919.¹

| PRODUCT. | Connecticut. | Indiana. | Massachusetts. | New Jersey. | New York. | Ohio. | Pennsylvania. | Wisconsin. | All other states. |
|-------------------------|------------------|------------------|------------------|--------------|------------------|---------------|------------------|------------------|-------------------|
| Tires: | | | | | | | | | |
| Pneumatic— | | | | | | | | | |
| Automobile— | | | | | | | | | |
| Casings— | | | | | | | | | |
| Number..... | (²) | 308,670 | 2,576,982 | 2,080,937 | 673,101 | 19,726,962 | 1,334,591 | 1,722,640 | 4,411,626 |
| Value..... | (²) | \$5,281,169 | \$58,439,135 | \$32,789,813 | \$10,221,486 | \$362,932,865 | \$21,789,923 | \$27,000,046 | \$85,351,763 |
| Inner tubes— | | | | | | | | | |
| Number..... | 451,892 | 2,939,163 | 2,482,025 | 3,312,073 | 151,974 | 18,391,065 | 2,008,060 | 1,952,510 | 1,566,648 |
| Value..... | \$1,416,822 | \$7,975,250 | \$7,576,809 | \$10,324,950 | \$460,879 | \$41,430,711 | \$4,316,647 | \$3,943,952 | \$3,858,550 |
| Motorcycle and bicycle— | | | | | | | | | |
| Casings— | | | | | | | | | |
| Number..... | | (²) | (²) | 10,635 | | 1,758,832 | (²) | (²) | 2,888,854 |
| Value..... | | (²) | (²) | \$96,625 | | \$5,743,923 | (²) | (²) | \$7,608,677 |
| Inner tubes— | | | | | | | | | |
| Number..... | | (²) | (²) | 8,902 | | 301,394 | 243,724 | (²) | 571,077 |
| Value..... | | (²) | (²) | \$16,262 | | \$417,370 | \$386,846 | (²) | \$523,534 |
| Solid— | | | | | | | | | |
| Truck— | | | | | | | | | |
| Number..... | (²) | (²) | (²) | 1,774 | (²) | 1,072,627 | | | 380,406 |
| Value..... | (²) | (²) | (²) | \$89,014 | (²) | \$36,599,616 | | | \$7,228,522 |
| All other— | | | | | | | | | |
| Number..... | | 238,519 | | | (²) | 1,332,431 | | | 5,302,700 |
| Value..... | | \$856,938 | | | (²) | \$3,581,131 | | | \$4,587,474 |

¹ Michigan ranked as fifth state in value of products, but figures can not be shown without disclosing the operations of individual establishments.

² Included in "All other states" to avoid disclosure of individual operations.

Table 13 summarizes, by states for 1919, the quantity and value of boots, shoes, canvas shoes with rubber soles, heels, and soles. In the manufacture of rubber boots and shoes and canvas shoes with rubber soles Massachusetts was the leading state, producing 43.3 per cent of the rubber boots, 39.9 per cent of the rubber shoes, and 30 per cent of the canvas shoes with rubber soles. In the manufacture of heels and soles Ohio ranked first, producing 64.5 per cent of the heels and 21.2 per cent of the soles.

TABLE 13.—BOOTS AND SHOES, BY STATES: 1919.

| PRODUCT. | Connecticut. | Massachusetts. | Ohio. | All other states. |
|---|------------------|----------------|------------------|-------------------|
| Boots, rubber: | | | | |
| Pairs..... | (¹) | 3,984,725 | (¹) | 5,222,978 |
| Value..... | (¹) | \$8,794,637 | (¹) | \$17,272,010 |
| Shoes, rubber: | | | | |
| Pairs..... | 14,897,849 | 26,404,168 | (¹) | 24,843,524 |
| Value..... | \$14,176,228 | \$21,010,397 | (¹) | \$29,525,557 |
| Shoes, canvas, with rubber soles: | | | | |
| Pairs..... | (¹) | 6,314,107 | | 14,720,557 |
| Value..... | (¹) | \$9,009,760 | | \$16,166,924 |
| Heels, sold as such or on hand: | | | | |
| Pairs..... | (¹) | 40,184,367 | 89,269,510 | 9,014,883 |
| Value..... | (¹) | \$4,634,794 | \$10,265,011 | \$1,203,696 |
| Soles, including composition or fiber sold as such or on hand: | | | | |
| Pairs..... | (¹) | 6,522,096 | 2,060,485 | 1,185,504 |
| Value..... | (¹) | \$778,837 | \$1,350,727 | \$325,742 |

¹ Included in "All other states" to avoid disclosure of individual operations.

Table 14 summarizes, by states for 1919, the value of rubberized fabrics and clothing, belting and hose, and druggists' and stationers' sundries and hard rubber goods. In the manufacture of rubberized fabrics and clothing Massachusetts, the leading state, produced 43.7 per cent of the total value of products; in the manufacture of belting and hose, New Jersey, the leading state, produced 38.8 per cent of the total value of products; and Ohio, the leading state in the manufacture of druggists' and stationers' sundries and hard rubber goods, produced 36.9 per cent of the total value of products.

TABLE 14.—MISCELLANEOUS RUBBER GOODS: 1919.

| INDUSTRY AND STATE. | Value. | INDUSTRY AND STATE. | Value. |
|---|--------------|---|--------------|
| Rubberized fabrics and clothing: | | Druggists' and stationers' sundries and hard rubber goods: | |
| Massachusetts..... | \$14,539,550 | Ohio..... | \$18,513,193 |
| Ohio..... | 5,179,685 | New Jersey..... | 16,002,783 |
| Connecticut..... | 4,759,884 | New York..... | 5,845,340 |
| New York..... | 2,772,629 | Connecticut..... | 3,167,069 |
| New Jersey..... | 393,692 | Massachusetts..... | 2,336,931 |
| Missouri..... | 346,838 | Pennsylvania..... | 1,467,623 |
| Pennsylvania..... | 254,450 | Illinois..... | 683,430 |
| All other states..... | 4,986,025 | All other states..... | 339,556 |
| Belting and hose, rubber: | | | |
| New Jersey..... | 19,176,384 | | |
| Ohio..... | 14,046,539 | | |
| Massachusetts..... | 5,760,923 | | |
| New York..... | 4,017,232 | | |
| California..... | 973,168 | | |
| All other states..... | 5,460,288 | | |

THE RUBBER INDUSTRY.

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GENERAL TABLES.

Table 15 gives for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the rubber industry combined, and for each of its branches.

Table 16 presents, for 1919, statistics in detail for the industry as a whole, and for each of the groups, such states as can be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 15.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

| INDUSTRY AND STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Primary horse- power. | Expressed in thousands. | | |
|--|----------------------|---|---|-----------------------------|-------------------------|----------------------------|----------------------------|
| | | | | | Wages. | Cost of mate- rials. | Value of prod- ucts. |
| RUBBER GOODS—ALL BRANCHES. | | | | | | | |
| United States..... | 1919 | 477 | 158,540 | 420,887 | \$103,783 | \$504,344 | \$1,133,216 |
| | 1914 | 342 | 74,022 | 109,543 | 44,167 | 163,035 | 300,994 |
| | 1909 | 267 | 40,204 | 122,436 | 25,137 | 122,745 | 197,395 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | | |
| United States..... | 1919 | 437 | 119,848 | 354,188 | 150,807 | 525,080 | 987,088 |
| | 1914 | 301 | 50,220 | 151,927 | 31,270 | 126,112 | 223,611 |
| | 1909 | 227 | 20,521 | 79,062 | 14,120 | 82,192 | 123,436 |
| California..... | 1919 | 20 | 513 | 1,770 | 520 | 1,908 | 4,941 |
| | 1914 | 11 | 226 | 1,180 | 172 | 479 | 905 |
| | 1909 | 5 | 74 | 209 | 61 | 169 | 323 |
| Connecticut..... | 1919 | 21 | 5,060 | 11,474 | 5,405 | 18,233 | 33,928 |
| | 1914 | 18 | 2,485 | 9,598 | 1,413 | 5,645 | 10,188 |
| | 1909 | 13 | 2,115 | 6,138 | 1,110 | 7,126 | 11,005 |
| Illinois..... | 1919 | 20 | 650 | 2,460 | 677 | 1,983 | 4,136 |
| | 1914 | 17 | 563 | 1,951 | 342 | 965 | 1,980 |
| | 1909 | 13 | 104 | 209 | 53 | 200 | 381 |
| Indiana..... | 1919 | 15 | 2,917 | 11,090 | 3,018 | 12,017 | 20,884 |
| | 1914 | 9 | 1,499 | 5,984 | 839 | 4,285 | 6,333 |
| | 1909 | 11 | 787 | 5,270 | 410 | 2,908 | 4,313 |
| Massachusetts..... | 1919 | 47 | 9,400 | 24,358 | 11,682 | 47,076 | 93,376 |
| | 1914 | 42 | 4,743 | 17,515 | 2,845 | 14,142 | 23,011 |
| | 1909 | 20 | 3,418 | 10,123 | 1,769 | 11,005 | 15,796 |
| New Jersey..... | 1919 | 65 | 12,353 | 40,097 | 14,300 | 46,336 | 84,129 |
| | 1914 | 53 | 6,310 | 22,214 | 3,681 | 15,172 | 25,458 |
| | 1909 | 30 | 4,255 | 12,006 | 2,300 | 13,032 | 19,543 |
| New York..... | 1919 | 40 | 5,370 | 21,778 | 5,063 | 16,933 | 33,023 |
| | 1914 | 45 | 3,033 | 11,915 | 1,887 | 4,680 | 10,228 |
| | 1909 | 53 | 2,006 | 6,898 | 1,058 | 5,659 | 8,784 |
| RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS— continued. | | | | | | | |
| Ohio..... | 1919 | 90 | 63,637 | 170,402 | \$90,081 | \$299,363 | \$551,118 |
| | 1914 | 54 | 21,705 | 58,072 | 14,578 | 58,737 | 109,059 |
| | 1909 | 37 | 10,382 | 25,885 | 5,600 | 32,442 | 58,911 |
| Pennsylvania..... | 1919 | 31 | 4,880 | 17,414 | 5,864 | 19,773 | 35,792 |
| | 1914 | 19 | 3,172 | 8,970 | 1,744 | 7,299 | 12,177 |
| | 1909 | 13 | 1,205 | 5,300 | 566 | 3,242 | 4,888 |
| Rhode Island..... | 1919 | 6 | 2,117 | 5,803 | 1,947 | 7,599 | 15,887 |
| | 1914 | 6 | 1,541 | 3,350 | 821 | 4,062 | 6,089 |
| | 1909 | 5 | 774 | 1,075 | 320 | 2,075 | 3,143 |
| All other states..... | 1919 | 76 | 12,045 | 36,936 | 16,450 | 54,375 | 109,894 |
| | 1914 | 27 | 4,337 | 10,578 | 2,957 | 10,690 | 17,583 |
| | 1909 | 12 | 1,341 | 4,059 | 807 | 4,334 | 6,551 |
| BOOTS AND SHOES, RUBBER. | | | | | | | |
| United States..... | 1919 | 25 | 32,875 | 49,400 | 30,883 | 60,347 | 116,917 |
| | 1914 | 23 | 18,687 | 24,621 | 9,980 | 23,956 | 58,822 |
| | 1909 | 22 | 17,612 | 25,903 | 8,644 | 29,677 | 49,721 |
| Massachusetts..... | 1919 | 8 | 13,632 | 21,609 | 12,763 | 17,621 | 44,308 |
| | 1914 | 9 | 8,087 | 8,177 | 4,468 | 10,455 | 23,789 |
| | 1909 | 8 | 6,928 | 5,330 | 3,376 | 10,640 | 18,722 |
| All other states..... | 1919 | 17 | 19,243 | 27,791 | 18,120 | 32,726 | 72,600 |
| | 1914 | 14 | 10,600 | 16,444 | 5,518 | 13,501 | 30,033 |
| | 1909 | 14 | 10,684 | 17,573 | 5,168 | 18,937 | 30,999 |
| BELTING AND HOSE, RUBBER. | | | | | | | |
| United States..... | 1919 | 15 | 5,826 | 26,290 | 6,073 | 18,311 | 34,211 |
| | 1914 | 18 | 5,115 | 22,995 | 2,902 | 12,967 | 23,561 |
| | 1909 | 18 | 5,181 | 17,471 | 2,473 | 10,978 | 19,238 |

TABLE 16.—DETAILED STATEMENT,

| INDUSTRY AND STATE. | | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | | Capital. Dollars. |
|---------------------|--|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|----------------|---------|--------------|--|-----------|---------|-------------|--|--|--------------------------|
| | | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Average number. | Wage earners. | | Total. | 16 and over. | | Under 16. | | | | | |
| | | | | | | Male. | Female. | | Number, 15th day of— | | | Male. | Female. | Male. | Female. | | | | |
| | | | | | | | | | Maximum month. | Minimum month. | | | | | | | | | |
| 1 | RUBBER GOODS—ALL BRANCHES. | | | | | | | | | | | | | | | | | | |
| | United States..... | 477 | 206,202 | 98 | 5,018 | 23,290 | 13,238 | 153,549 | Oc 173,824 | Ja 144,931 | 179,758 | 146,912 | 31,036 | 901 | 909 | 960,070,726 | | | |
| 2 | RUBBER TIRES, TUBES, AND OTHER RUBBER GOODS. | | | | | | | | | | | | | | | | | | |
| | United States..... | 437 | 160,824 | 97 | 4,015 | 25,712 | 11,152 | 110,848 | Oc 134,423 | Ja 104,075 | 138,081 | 121,006 | 16,330 | 454 | 291 | 782,637,722 | | | |
| 3 | California..... | 20 | 752 | 10 | 71 | 60 | 92 | 513 | No 588 | Ja 427 | 627 | 555 | 72 | | | 5,315,252 | | | |
| 4 | Connecticut..... | 21 | 6,437 | 4 | 325 | 742 | 306 | 5,060 | De 5,830 | Ap 4,666 | 5,830 | 4,823 | 917 | 73 | 17 | 35,224,104 | | | |
| 5 | Georgia..... | 3 | 185 | | 12 | 7 | 8 | 158 | Au 199 | Ja 105 | 193 | 177 | 16 | | | 1,127,573 | | | |
| 6 | Illinois..... | 20 | 795 | 5 | 49 | 52 | 39 | 650 | Jy 752 | Ja 532 | 750 | 581 | 165 | 3 | 1 | 2,790,374 | | | |
| 7 | Indiana..... | 15 | 3,730 | 1 | 174 | 449 | 189 | 2,917 | No 3,137 | Ja 2,626 | 2,868 | 2,441 | 424 | | 3 | 25,182,334 | | | |
| 8 | Iowa..... | 9 | 977 | 1 | 40 | 59 | 38 | 839 | Oc 995 | Ja 540 | 1,008 | 940 | 68 | | | 9,028,488 | | | |
| 9 | Massachusetts..... | 47 | 12,185 | 7 | 530 | 1,404 | 838 | 9,400 | De 10,804 | Ja 7,728 | 10,904 | 9,336 | 1,520 | 62 | 46 | 64,048,481 | | | |
| 10 | Michigan..... | 7 | 7,053 | 4 | 173 | 1,481 | 351 | 5,044 | De 5,968 | Ja 4,184 | 5,881 | 5,439 | 438 | 4 | | 57,418,022 | | | |
| 11 | Missouri..... | 7 | 715 | 1 | 35 | 31 | 27 | 621 | Fe 670 | My 539 | 629 | 391 | 234 | 3 | 1 | 2,580,742 | | | |
| 12 | Nebraska..... | 3 | 173 | | 14 | 23 | 12 | 124 | Au 168 | Ja 89 | 119 | 119 | | | | 1,815,281 | | | |
| 13 | New Jersey..... | 65 | 15,263 | 8 | 468 | 1,610 | 824 | 12,353 | De 13,368 | Ja 11,321 | 13,328 | 11,518 | 1,661 | 110 | 39 | 57,638,272 | | | |
| 14 | New York..... | 40 | 6,213 | 15 | 186 | 382 | 200 | 5,370 | De 6,263 | Mh 4,774 | 6,268 | 4,476 | 1,751 | 19 | 22 | 28,043,157 | | | |
| 15 | Ohio..... | 96 | 89,774 | 15 | 1,246 | 17,808 | 7,068 | 63,637 | Oc 74,720 | Ja 53,904 | 75,300 | 68,650 | 6,705 | 45 | | 308,125,426 | | | |
| 16 | Oklahoma..... | 8 | 67 | | 9 | 25 | 7 | 26 | Oc 71 | Ja 8 | 65 | 36 | 29 | | | 610,444 | | | |
| 17 | Pennsylvania..... | 31 | 5,870 | 8 | 259 | 450 | 282 | 4,880 | De 5,595 | Ja 4,385 | 5,549 | 4,668 | 740 | 90 | 51 | 37,000,301 | | | |
| 18 | Rhode Island..... | 6 | 2,810 | | 173 | 351 | 175 | 2,117 | Ja 2,685 | Je 1,926 | 2,216 | 1,280 | 815 | 25 | 96 | 20,070,684 | | | |
| 19 | Texas..... | 6 | 99 | 8 | 14 | 13 | 7 | 57 | Se 90 | Fe 19 | 68 | 64 | 4 | | | 505,139 | | | |
| 20 | Wisconsin..... | 8 | 5,611 | | 76 | 579 | 399 | 4,557 | No 4,818 | Ja 4,302 | 4,809 | 4,189 | 585 | 20 | 15 | 25,011,541 | | | |
| 21 | All other states ¹ | 25 | 2,100 | 10 | 161 | 180 | 230 | 1,519 | | | 1,609 | 1,423 | 186 | | | 8,597,107 | | | |
| 22 | BOOTS AND SHOES, RUBBER. | | | | | | | | | | | | | | | | | | |
| | United States..... | 25 | 37,929 | 1 | 804 | 2,509 | 1,680 | 32,875 | Fe 35,339 | Je 30,642 | 34,723 | 10,840 | 13,877 | 411 | 586 | 131,513,436 | | | |
| 23 | Connecticut..... | 5 | 7,300 | | 245 | 361 | 345 | 6,439 | Fe 6,600 | My 6,209 | 6,338 | 3,376 | 2,689 | 92 | 178 | 20,235,801 | | | |
| 24 | Massachusetts..... | 8 | 15,195 | | 320 | 1,078 | 735 | 13,062 | De 14,435 | Je 11,755 | 14,441 | 8,314 | 5,752 | 186 | 180 | 43,582,806 | | | |
| 25 | All other states ² | 12 | 15,344 | 1 | 299 | 1,070 | 600 | 13,374 | | | 13,944 | 8,156 | 5,436 | 133 | 219 | 58,604,829 | | | |
| 26 | BELTING AND HOSE, RUBBER. | | | | | | | | | | | | | | | | | | |
| | United States..... | 15 | 7,449 | | 139 | 1,078 | 406 | 5,826 | De 6957 | Mh 4,576 | 6,954 | 6,057 | 829 | 36 | 32 | 45,919,568 | | | |
| 27 | Massachusetts..... | 8 | 2,936 | | 35 | 279 | 181 | 2,441 | De 2,851 | Je 2,026 | 2,851 | 2,315 | 487 | 22 | 27 | 17,654,898 | | | |
| 28 | All other states ³ | 12 | 4,513 | | 104 | 799 | 225 | 3,385 | | | 4,103 | 3,742 | 342 | 14 | 5 | 28,264,670 | | | |

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).³ Same number reported for one or more other months.

THE RUBBER INDUSTRY.

1005

BY STATES: 1919.

| EXPENSES. | | | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | | | Electric horsepower generated in establishments reporting. |
|---------------------|--------------|---------------|--------------------|------------------|---|----------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------------|-----------------|------------------------------|---------------------------|-------------------------------------|---------|--|
| Salaries and wages. | | | | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | | | |
| Officials. | Clerks, etc. | Wage earners. | For contract work. | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Owned. | | | | Rent- ² ed. ¹ | | |
| | | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ¹ | | | |
| | | | | | | | | | | | | | | | | | |
| Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | | | | | | | | |
| 19,563,363 | 65,065,093 | 193,763,089 | 3,076,318 | 6,549,454 | 37,896,368 | 579,474,754 | 14,868,836 | 1,138,216,019 | 543,872,429 | 429,887 | 120,458 | 106,081 | 3,773 | 5,614 | 193,961 | 162,063 | 1 |
| 16,249,745 | 58,699,712 | 150,806,828 | 3,579,851 | 6,486,700 | 33,714,601 | 513,080,366 | 12,605,943 | 987,088,045 | 461,401,736 | 354,188 | 93,133 | 1010,32 | 3,367 | 2,534 | 153,828 | 151,153 | 2 |
| 153,363 | 159,893 | 520,269 | 2,121 | 20,550 | 58,471 | 1,939,492 | 58,809 | 4,940,513 | 2,042,212 | 1,770 | 30 | ..... | ..... | ..... | 1,740 | ..... | 3 |
| 1,114,310 | 1,335,760 | 5,402,006 | 327 | 37,448 | 1,155,116 | 17,047,975 | 584,542 | 33,927,013 | 15,095,396 | 11,474 | 5,408 | 1,100 | ..... | 315 | 4,591 | 4,057 | 4 |
| 32,793 | 84,039 | 157,314 | ..... | 1,100 | 4,700 | 640,624 | 17,036 | 931,360 | 273,700 | 846 | ..... | ..... | 4 | ..... | 842 | ..... | 5 |
| 260,824 | 157,785 | 676,524 | ..... | 11,073 | 115,225 | 1,892,770 | 90,730 | 4,134,804 | 2,151,304 | 2,460 | 450 | ..... | 10 | ..... | 2,000 | ..... | 6 |
| 535,300 | 796,785 | 3,017,677 | ..... | 4,565 | 475,057 | 11,000,824 | 415,952 | 20,883,668 | 8,806,892 | 11,096 | 3,855 | 2,125 | ..... | 600 | 5,116 | 1,540 | 7 |
| 187,077 | 105,923 | 1,008,686 | 11,550 | 13,321 | 283,640 | 3,598,237 | 121,496 | 6,333,253 | 2,613,520 | 4,293 | 250 | ..... | ..... | ..... | 4,043 | ..... | 8 |
| 1,991,290 | 3,690,645 | 11,682,183 | 667 | 46,266 | 2,852,417 | 45,886,038 | 1,180,045 | 93,376,505 | 46,300,522 | 34,358 | 9,253 | 825 | 57 | 940 | 23,283 | 965 | 9 |
| 803,667 | 2,449,238 | 7,181,166 | ..... | 3,780 | 2,008,780 | 20,747,228 | 432,380 | 60,318,116 | 29,138,502 | 8,752 | 2,025 | 4,500 | ..... | ..... | 2,227 | 6,435 | 10 |
| 86,018 | 63,448 | 541,079 | 6,000 | 14,321 | 16,905 | 2,423,297 | 55,400 | 3,865,296 | 1,386,633 | 2,168 | 250 | ..... | ..... | ..... | 1,918 | ..... | 11 |
| 45,776 | 37,773 | 170,093 | ..... | ..... | 5,516 | 541,596 | 36,222 | 930,370 | 352,552 | 1,375 | ..... | ..... | ..... | ..... | 1,375 | ..... | 12 |
| 1,968,540 | 2,849,995 | 14,299,930 | 17,203 | 21,794 | 2,893,921 | 44,753,679 | 1,582,502 | 84,129,058 | 37,792,877 | 40,097 | 21,126 | 4,107 | 400 | 350 | 14,114 | 11,076 | 13 |
| 997,189 | 962,323 | 5,093,127 | 860,514 | 118,072 | 1,267,303 | 16,351,555 | 581,708 | 33,033,202 | 16,099,849 | 21,778 | 5,605 | 1,817 | ..... | ..... | 14,456 | 4,956 | 14 |
| 6,061,698 | 42,765,855 | 90,981,414 | 2,570,359 | 6,122,977 | 18,583,624 | 203,287,709 | 6,074,822 | 551,118,488 | 251,755,957 | 170,402 | 32,043 | 77,657 | 1,702 | 329 | 58,581 | 115,006 | 15 |
| 9,915 | 18,205 | 26,543 | ..... | 2,503 | 5,182 | 100,838 | 1,427 | 207,726 | 105,461 | 164 | 125 | ..... | 20 | ..... | 13 | ..... | 16 |
| 831,644 | 829,376 | 5,804,082 | 15,160 | 24,141 | 1,717,340 | 19,266,485 | 500,202 | 35,792,006 | 10,019,319 | 17,414 | 6,861 | 1,960 | 1,078 | ..... | 7,615 | 3,596 | 17 |
| 500,026 | 648,756 | 1,947,067 | 57,889 | 24,000 | 599,322 | 7,299,161 | 299,480 | 15,887,006 | 8,288,308 | 5,803 | 1,735 | 350 | ..... | ..... | 3,718 | 816 | 18 |
| 30,564 | 22,620 | 58,807 | ..... | 3,326 | 5,150 | 189,665 | 5,099 | 568,181 | 375,817 | 441 | 412 | ..... | ..... | ..... | 29 | ..... | 19 |
| 333,438 | 1,148,071 | 5,672,011 | 25,971 | 1,710 | 1,101,569 | 19,538,870 | 380,887 | 36,668,085 | 16,448,923 | 12,667 | 2,895 | 6,885 | ..... | ..... | 2,787 | 1,800 | 20 |
| 396,343 | 623,222 | 1,633,850 | ..... | 15,753 | 567,291 | 5,373,423 | 174,442 | 10,341,895 | 4,794,030 | 6,330 | 850 | ..... | ..... | ..... | 5,480 | ..... | 21 |
| 2,481,481 | 4,919,907 | 30,882,722 | 96,467 | 58,134 | 3,021,931 | 49,025,640 | 1,321,240 | 116,917,434 | 66,570,554 | 49,400 | 21,070 | 150 | ..... | 2,462 | 25,718 | 2,602 | 22 |
| 544,000 | 789,740 | 5,741,236 | ..... | ..... | 509,145 | 9,287,388 | 240,159 | 22,451,339 | 12,923,792 | 10,297 | 6,125 | 150 | ..... | 1,212 | 2,810 | 1,623 | 23 |
| 912,428 | 2,207,596 | 12,762,706 | ..... | 17,534 | 897,013 | 17,069,098 | 552,041 | 44,307,991 | 26,680,822 | 21,609 | 5,970 | ..... | ..... | ..... | 15,039 | 482 | 24 |
| 1,025,053 | 1,972,601 | 12,378,780 | 96,467 | 40,550 | 1,615,773 | 22,669,154 | 529,040 | 50,158,134 | 26,959,040 | 17,494 | 8,975 | ..... | ..... | 1,250 | 7,269 | 497 | 25 |
| 832,137 | 2,045,474 | 6,073,539 | ..... | 4,620 | 1,159,836 | 17,368,748 | 941,653 | 34,210,540 | 15,900,139 | 26,299 | 6,255 | 4,605 | 406 | 618 | 14,415 | 8,308 | 26 |
| 259,048 | 642,415 | 2,302,529 | ..... | ..... | 517,005 | 7,398,989 | 383,468 | 13,859,748 | 6,077,291 | 10,035 | 880 | 4,355 | ..... | ..... | 4,800 | 6,328 | 27 |
| 573,089 | 1,403,059 | 3,771,010 | ..... | 4,620 | 642,831 | 9,999,759 | 558,185 | 20,350,792 | 9,822,848 | 16,264 | 5,375 | 250 | 406 | 618 | 9,616 | 1,980 | 28 |

¹ All other states embrace: Colorado, 4 establishments; Delaware, 1; Kansas, 3; Kentucky, 1; Louisiana, 1; Maryland, 2; Minnesota, 3; North Carolina, 2; Oregon, 2; Washington, 4; West Virginia, 2.

² All other states embrace: Indiana, 1 establishment; Maine, 1; Missouri, 1; New Jersey, 2; New York, 1; Pennsylvania, 1; Rhode Island, 4; Wisconsin, 1.

³ All other states embrace: California, 2 establishments; Delaware, 1; Illinois, 1; New Jersey, 5; New York, 2; Ohio, 1.

SHIPBUILDING, INCLUDING BOAT BUILDING.

GENERAL STATISTICS.

General character of the industry.—The statistics for this industry cover establishments engaged in the construction and repair of vessels, ships, and boats of all classes. Data for shipyards operated by the Federal Government were also collected but are shown separately and are not included in the totals for the industry. A number of establishments, not properly classified with the shipbuilding industry, also incidentally built or repaired ships or boats, but the amount contributed to the industry by these establishments was small, and unless so stated the tables do not include statistics relating to them: As generally used in this report the term "ship" or "vessel" refers to craft of 5 gross tons measurement or over, while craft under 5 tons are designated as boats.

In compiling the statistics for the shipbuilding industry the Bureau of the Census distinguishes between establishments in the steel and concrete ship building branch of the industry and those engaged in wooden-ship building and boat building. The first group is divided into (1) establishments doing construction work on steel and concrete vessels of 5 gross tons or over, and (2) establishments doing repair work only on steel and concrete vessels. The second group, wooden-ship building and boat building, is divided into four classes: (1) Establishments engaged in new construction work on wooden vessels of 5 gross tons or over; (2) establishments doing repair work only on wooden vessels; (3) establishments engaged mainly in building or repairing boats of less than 5 gross tons; and (4) establishments making masts, spars, oars, and ship accessories and those engaged in rigging vessels. These divisions and groups are used for purposes of comparison, as they are as nearly as possible the same for all censuses.

Summary of the industry, by classes.—A marked feature of the industry, as shown by Table 1, is the large amount of capital invested, which increased from \$156,059,938 in 1914 to \$1,389,447,820 in 1919, or an average per establishment of \$1,292,510 in 1919 as compared with \$136,059 in 1914. By far the larger proportion of this increased capital was invested in establishments engaged in the construction of steel vessels. This vast sum was mostly contributed by the Federal Government for the purposes of facilitating rapid shipbuilding to provide for military exigencies growing out of the World War. The value of work done in 1919 exceeded the amount of capital invested by \$232,913,441, a condition which has not existed since 1889. In 1919 about 90 per cent

of the total value of products was contributed by plants engaged in the construction and repair of steel vessels, as compared with 77.8 per cent in 1916 and 74.7 per cent in 1914. The large increases in wages, cost of materials, and the value of products, as presented in this table, are largely due to the World War, and therefore can not properly be used to measure the growth of the shipbuilding industry during the census period 1914 to 1919. A truer index of the condition is found in the average number of wage earners and primary horsepower. The addition of the Federal income tax since 1914 will account for the increase in "Rent and taxes."

Comparative summary.—Table 2 summarizes the statistics for each census since 1904, and gives percentages of increase for each period. While there was a decrease in the number of establishments at each census since 1909, all of the principal items show decided increases for this period. During the 15 years covered by the table the average number of wage earners increased 336,692, or 663.4 per cent.

Comparative summary, Government shipyards.—From 1916 to 1919, as shown by Table 3, the number of shipbuilding plants owned and operated by the Federal Government decreased from 30 to 22. This decrease resulted from the fact that certain of the plants which were operated by the Government in 1916 were abandoned prior to 1919. They were located in the Middle West and operated for the purpose of building and repairing unrigged craft to be used in Government work on the Ohio, Mississippi, and other rivers. In 1919, 13 of the Government plants were operated by the Office of Chief of Engineers of the War Department, and 9 by the Bureau of Yards and Docks of the Navy Department.

This table brings out the fact that between 1916 and 1919 there was a great increase in the construction of steel vessels propelled by steam, and wooden motor and unrigged vessels, and a decrease in wooden steam vessels. It also shows that the Government did not construct any steel unrigged vessels in 1919.

The work performed at the several Government shipyards consisted of the repair of naval vessels, the construction of ships, boats, signal apparatus, and buoy lanterns, the building and repair of machinery, etc. It was impossible to make a separate presentation of each kind of work done and the figures presented in Table 3 include, therefore, statistics that do not properly pertain to shipbuilding or repairing. The value of "All other products, including repair

work," amounted to \$187,819,607 in 1919 and represented 78.4 per cent of the total value of work done during the year. The corresponding percentages for 1909, 1914, and 1916, were 91.8, 83.6, and 76.3, respectively.

The Government shipyards did a large amount of construction work in 1919 on vessels not launched during the year. The value of such work amounted to \$26,005,758, nearly all of which was done on steel vessels consisting of battleships, destroyers, and submarines.

Principal states, ranked by value of products.—The rank of the several states by value of products, as shown in Table 4, has changed materially since 1914. New Jersey advanced from second to first position, reporting 14.7 per cent of the total value of products, while New York, first in 1914, dropped to fifth position. The Pacific Coast states, California and Washington, ranking fifth and ninth in 1914, advanced to third and fourth, respectively, in 1919. It should be noted that a number of states for which data can not be shown without disclosing individual operations ranked much higher than some named in this table. The first eight states, which include two that can not be shown, employed 71.9 per cent of the total number of wage earners, and reported 72.5 per cent of the total value of products.

Persons engaged in the industry.—The age classification of the average number of wage earners in Table 5 is an estimate obtained by the method described in the "Explanation of terms," page 2. The classification by sex for 1919 was reported separately, but for 1916, 1914, and 1909, was obtained in the same manner as the distribution by age. Figures in detail will be found in Table 32.

Wage earners, by months, for selected states.—As shown by Table 6, the number of wage earners employed in the industry month by month in 1919 ranged from a maximum of 444,683 in January to a minimum of 301,172 in November, the minimum number being equivalent to 67.7 per cent of the maximum. Figures are given for all states reporting an average of over 5,000 wage earners, that can be shown without disclosing individual operations, while for the United States the number of males and females is also shown.

Average number of wage earners, by prevailing hours of labor per week, for selected states.—Table 7 indicates a marked shortening of the working day for the shipbuilding industry since 1914. In that year only 33.1 per cent of the wage earners were reported as employed 48 hours and under as compared with 98.3 per cent in 1919.

Size of establishments, by average number of wage earners, for selected states.—Analysis of Table 8 brings out the fact that in 1919, 376,152 wage earners, or

97.1 per cent of the total number, were reported by establishments which employed more than 100 wage earners, illustrating the concentration of the industry in a few large establishments. In wooden shipbuilding, the predominance of small establishments is shown by the fact that 498, or 54.5 per cent of the total establishments employed fewer than 6 wage earners each and reported only 1.7 per cent of the total number of wage earners.

Size of establishments, by value of products.—At the censuses of 1916 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns of 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1916, and in the case of average number of wage earners and value added by manufacture for 1914. The statistics in Table 9 show the degree of concentration of production in large establishments. In 1919 the group "\$1,000,000 and over" included 143 establishments, or 13.3 per cent of the total for the industry, employed 360,993 wage earners, or 93.2 per cent of the total average number, and reported products to the value of \$1,529,837,920, or 94.3 per cent of the total value of products.

Character of ownership, by states.—The preponderance of corporate ownership in "shipbuilding, steel," is clearly brought out in Table 10. Corporations owned 91.4 per cent of the number of establishments in this branch of the industry in 1919, and reported 99.9 per cent of both the average number of wage earners and total value of products. From 1916 to 1919 the average number of wage earners in corporations in the industry as a whole, increased 313,991, or 472.6 per cent, and the value of products \$1,426,409,136, or 832.4 per cent.

Number and horsepower of types of prime movers.—From 1914 to 1919, as shown by Table 11, there was an increase in the total horsepower for the industry of 438,378 horsepower, or 380.1 per cent, the greater part of which was due to an increase of 394,896 horsepower, or 1,312.6 per cent, in rented electric power, as compared with an increase of 43,261, or 50.9 per cent, in power owned. Of the total primary horsepower reported in 1919, 476,135 horsepower, or 86 per cent, was utilized in the form of electric energy.

Fuel consumed, by states.—Table 12 shows the principal kinds of fuel used for the industry in 1919 and 1914, and also gives separately the amounts consumed in states requiring considerable quantities of fuel for manufacturing purposes.

MANUFACTURES.

TABLE 1.—SUMMARY OF THE INDUSTRY, BY CLASSES: 1919, 1916, AND 1914.

| SHIPBUILDING, INCLUDING BOAT BUILDING. | | | | | | | | | | | |
|---|--------------|-----------------|-----------------|---|-------------------|---------------|---|-------------------|--|---|--|
| | Census year. | Steel vessels. | | | | | Wooden, including boat building. | | | | |
| | | Aggregate. | Total. | New construction of vessels of 5 tons and over. | Repair work only. | Total. | Vessels. | | Boats under 5 tons, construction and repair. | Masts, spars, oars, and rigging of vessels. | |
| | | | | | | | New construction of vessels of 5 tons and over. | Repair work only. | | | |
| Number of establishments..... | 1919 | 1,075 | 162 | 117 | 45 | 913 | 315 | 277 | 294 | 27 | |
| | 1916 | 1,137 | 109 | 72 | 37 | 1,028 | 339 | 248 | 416 | 25 | |
| | 1914 | 1,147 | 70 | 46 | 33 | 1,068 | 273 | 179 | 588 | 28 | |
| Persons engaged..... | 1919 | 413,236 | 365,875 | 344,909 | 20,966 | 47,361 | 36,672 | 8,554 | 1,951 | 184 | |
| | 1916 | 78,333 | 59,802 | 51,230 | 8,572 | 18,531 | 10,395 | 4,932 | 2,949 | 255 | |
| | 1914 | 48,667 | 35,664 | 29,848 | 5,816 | 13,003 | 5,472 | 4,571 | 2,749 | 211 | |
| Proprietors and firm members..... | 1919 | 816 | 21 | 10 | 11 | 795 | 210 | 245 | 313 | 27 | |
| | 1916 | 1,103 | 35 | 15 | 20 | 1,068 | 364 | 216 | 461 | 27 | |
| | 1914 | 1,192 | 24 | 7 | 17 | 1,168 | 332 | 152 | 657 | 27 | |
| Salaried employees..... | 1919 | 24,974 | 21,840 | 20,621 | 1,219 | 3,134 | 2,310 | 579 | 188 | 27 | |
| | 1916 | 4,733 | 3,530 | 3,073 | 457 | 1,203 | 667 | 311 | 213 | 12 | |
| | 1914 | 2,986 | 2,132 | 1,699 | 433 | 854 | 338 | 310 | 197 | 9 | |
| Wage earners (average number).... | 1919 | 387,446 | 344,014 | 324,278 | 19,736 | 43,432 | 34,122 | 7,730 | 1,450 | 130 | |
| | 1916 | 72,497 | 56,237 | 48,142 | 8,095 | 16,290 | 9,364 | 4,405 | 2,275 | 216 | |
| | 1914 | 44,489 | 33,508 | 28,142 | 5,366 | 10,981 | 4,802 | 4,109 | 1,895 | 175 | |
| Primary horsepower ² | 1919 | 553,711 | 475,567 | 443,384 | 32,183 | 78,144 | 59,593 | 14,675 | 3,370 | 500 | |
| | 1914 | 115,333 | 83,706 | 63,888 | 19,818 | 31,627 | 14,148 | 11,180 | 5,770 | 520 | |
| Capital..... | 1919 | \$1,389,447,820 | \$1,268,640,254 | \$1,216,322,883 | \$52,317,371 | \$120,807,566 | \$93,372,049 | \$22,084,471 | \$4,792,460 | \$558,586 | |
| | 1916 | 243,217,869 | 209,517,898 | 190,391,607 | 19,120,291 | 33,699,971 | 17,391,882 | 10,204,010 | 5,403,418 | 697,622 | |
| | 1914 | 156,059,938 | 132,712,414 | 112,630,389 | 20,082,025 | 23,347,524 | 9,679,332 | 8,946,660 | 4,614,178 | 200,854 | |
| Salaries and wages..... | 1919 | 662,561,142 | 595,034,083 | 557,452,512 | 38,181,571 | 66,927,050 | 51,854,108 | 12,735,307 | 2,112,438 | 225,206 | |
| | 1916 | 67,526,623 | 53,367,771 | 43,816,888 | 9,550,883 | 14,158,852 | 8,253,659 | 3,830,740 | 1,891,039 | 183,414 | |
| | 1914 | 37,689,965 | 28,752,404 | 23,520,313 | 5,232,091 | 8,037,561 | 3,940,934 | 3,300,143 | 1,502,905 | 133,579 | |
| Salaries..... | 1919 | 65,114,494 | 57,261,507 | 54,014,657 | 3,249,850 | 7,852,987 | 5,981,126 | 1,448,902 | 362,200 | 60,759 | |
| | 1916 | 6,950,722 | 5,347,648 | 4,672,207 | 675,441 | 1,603,074 | 915,618 | 437,173 | 234,205 | 10,078 | |
| | 1914 | 4,758,809 | 3,586,012 | 2,801,588 | 785,024 | 1,172,197 | 525,032 | 414,155 | 223,061 | 9,949 | |
| Wages..... | 1919 | 597,446,648 | 538,372,576 | 503,437,855 | 34,934,721 | 59,074,072 | 45,872,982 | 11,286,405 | 1,750,238 | 164,447 | |
| | 1916 | 60,575,901 | 48,020,123 | 39,144,681 | 8,875,442 | 12,555,778 | 7,338,041 | 3,393,567 | 1,656,834 | 167,336 | |
| | 1914 | 32,931,156 | 25,165,792 | 20,718,725 | 4,447,067 | 7,765,364 | 3,415,902 | 2,945,988 | 1,279,844 | 123,630 | |
| Paid for contract work..... | 1919 | 10,107,529 | 8,205,806 | 7,450,870 | 754,936 | 1,901,723 | 1,660,723 | 226,290 | 12,908 | 1,802 | |
| | 1916 | 4,092,789 | 3,911,332 | 3,268,575 | 642,757 | 181,467 | 118,012 | 55,193 | 8,147 | 105 | |
| | 1914 | 531,779 | 442,135 | 206,194 | 235,941 | 89,644 | 34,094 | 30,257 | 15,717 | 576 | |
| Rent and taxes ³ | 1919 | 51,201,986 | 47,499,861 | 41,231,912 | 6,267,949 | 3,702,125 | 2,621,708 | 907,832 | 146,020 | 26,565 | |
| | 1914 | 1,123,144 | 608,905 | 419,286 | 249,879 | 454,179 | 151,623 | 189,218 | 104,474 | 8,864 | |
| Cost of materials..... | 1919 | 710,522,676 | 643,752,814 | 622,462,097 | 21,290,717 | 66,769,802 | 56,898,161 | 7,293,565 | 2,187,418 | 390,718 | |
| | 1916 | 89,268,830 | 69,961,072 | 61,957,923 | 8,003,149 | 19,307,758 | 11,700,716 | 3,160,413 | 4,241,368 | 205,261 | |
| | 1914 | 38,596,970 | 29,269,727 | 25,825,634 | 3,444,093 | 9,327,243 | 4,691,331 | 2,517,787 | 1,956,374 | 161,751 | |
| Value of products..... | 1919 | 1,622,361,261 | 1,456,489,516 | 1,372,064,851 | 84,424,665 | 165,871,745 | 133,303,335 | 26,549,156 | 5,197,632 | 821,572 | |
| | 1916 | 185,852,192 | 144,619,111 | 119,155,601 | 25,463,510 | 41,233,081 | 24,902,116 | 8,783,825 | 7,059,017 | 508,123 | |
| | 1914 | 88,682,071 | 66,216,692 | 54,339,778 | 11,876,914 | 22,465,379 | 10,427,681 | 7,255,951 | 4,413,757 | 367,990 | |
| Value added by manufacture ⁴ | 1919 | 911,838,585 | 812,730,702 | 749,602,754 | 63,133,948 | 99,101,883 | 70,405,174 | 19,255,591 | 3,010,264 | 430,854 | |
| | 1916 | 96,583,362 | 74,658,039 | 57,197,678 | 17,460,361 | 21,925,323 | 13,201,400 | 5,603,412 | 2,817,649 | 302,862 | |
| | 1914 | 50,085,101 | 36,946,965 | 28,514,144 | 8,432,821 | 13,138,136 | 5,736,350 | 4,738,164 | 2,467,383 | 206,239 | |

¹ Includes 4 establishments making boats under 5 tons, and 1 making masts, spars, oars, and the rigging of vessels.² Not reported in 1916.³ Value of products less cost of materials.

TABLE 2.—COMPARATIVE SUMMARY: 1919, 1916, 1914, 1909, AND 1904.

| | 1919 | 1916 | 1914 | 1909 | 1904 | PER CENT OF INCREASE. ¹ | | | |
|---|-----------------|------------------|---------------|---------------|---------------|------------------------------------|-----------|-----------|-----------|
| | | | | | | 1916-1919 | 1914-1916 | 1909-1914 | 1904-1909 |
| Number of establishments..... | 1,075 | 1,137 | 1,147 | 1,353 | 1,097 | -5.5 | -0.9 | -15.2 | 23.3 |
| Persons engaged..... | 413,236 | 78,333 | 48,667 | 44,949 | 54,424 | -427.5 | 61.0 | 8.3 | -17.4 |
| Proprietors and firm members..... | 816 | 1,103 | 1,192 | 1,463 | 1,190 | -28.0 | -7.5 | -18.5 | 22.9 |
| Salaried employees..... | 24,974 | 4,733 | 2,986 | 2,980 | 2,480 | -427.7 | 58.5 | 0.2 | 20.2 |
| Wage earners (average number).... | 387,446 | 72,497 | 44,489 | 40,506 | 50,754 | -484.4 | 63.0 | 9.8 | -20.2 |
| Primary horsepower..... | 553,711 | (²) | 115,333 | 88,063 | 78,127 | ..... | ..... | 31.0 | 12.7 |
| Capital..... | \$1,389,447,820 | \$243,217,869 | \$156,059,938 | \$126,118,489 | \$121,623,700 | 471.3 | 55.8 | 23.7 | 3.7 |
| Salaries and wages..... | 662,561,142 | 67,526,623 | 37,689,965 | 29,303,132 | 32,590,828 | 881.2 | 79.2 | 28.6 | -10.1 |
| Salaries..... | 65,114,494 | 6,950,722 | 4,758,809 | 4,035,446 | 3,339,741 | 836.8 | 46.1 | 17.9 | 20.8 |
| Wages..... | 597,446,648 | 60,575,901 | 32,931,156 | 25,267,686 | 29,241,087 | 886.3 | 53.9 | 30.3 | -13.6 |
| Paid for contract work..... | 10,107,529 | 4,092,789 | 531,779 | 1,185,579 | 674,418 | 147.0 | 669.6 | -55.1 | 75.8 |
| Rent and taxes..... | 51,201,986 | (³) | 1,123,144 | 335,656 | 640,519 | ..... | ..... | 34.4 | ..... |
| Cost of materials..... | 710,522,676 | 89,268,830 | 38,596,970 | 31,214,358 | 37,463,179 | 695.9 | 131.3 | 23.7 | -16.7 |
| Value of products..... | 1,622,361,261 | 185,852,192 | 88,682,071 | 73,860,315 | 82,789,239 | 772.9 | 109.6 | 20.9 | -11.4 |
| Value added by manufacture ⁴ | 911,838,585 | 96,583,362 | 50,085,101 | 42,145,957 | 45,806,060 | 844.1 | 92.8 | 18.8 | -7.0 |

¹ A minus sign (—) denotes decrease.² Not reported.³ Exclusive of internal revenue.⁴ Value of products less cost of materials.

SHIPBUILDING, INCLUDING BOAT BUILDING.

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TABLE 3.—COMPARATIVE SUMMARY, GOVERNMENT SHIPYARDS:
1919, 1916, 1914, AND 1909.

| | 1919 | 1916 | 1914 | 1909 |
|--|---------------|--------------|--------------|--------------|
| Number of establishments..... | 22 | 30 | 13 | 12 |
| Persons engaged..... | 71,186 | 23,528 | 18,328 | 16,425 |
| Salaried employees..... | 11,244 | 3,464 | 2,543 | 1,888 |
| Wage earners (av. number).... | 59,942 | 20,064 | 15,785 | 14,537 |
| Primary horsepower..... | 84,824 | (1) | 82,493 | 32,525 |
| Salaries and wages..... | \$105,434,001 | \$22,232,313 | \$16,428,407 | \$15,317,330 |
| Salaries..... | 19,405,416 | 4,451,210 | 3,336,830 | 2,646,806 |
| Wages..... | 86,028,575 | 17,781,103 | 13,091,667 | 12,670,524 |
| Cost of materials..... | 95,539,667 | 14,077,767 | 11,103,113 | 9,526,109 |
| Value of work done during year.. | 239,603,243 | 38,674,491 | 29,217,265 | 25,872,033 |
| New vessels (5 gross tons and over)..... | 49,933,747 | 8,811,863 | 4,612,311 | 1,977,977 |
| Vessels launched..... | 23,927,989 | 3,376,710 | 1,385,131 | 156,141 |
| Steel vessels..... | 23,097,401 | 3,021,645 | 1,298,511 | 34,106 |
| Steam..... | 21,162,512 | 2,922,566 | 966,502 | ..... |
| Motor..... | 1,934,889 | (1) | (1) | (1) |
| Unrigged..... | ..... | 99,070 | 332,009 | 34,106 |
| Wooden vessels..... | 830,588 | 355,065 | 86,020 | 122,035 |
| Steam..... | 45,693 | 127,702 | 31,346 | 68,104 |
| Motor..... | 257,826 | 138,912 | 30,097 | ..... |
| Unrigged..... | 527,060 | 88,451 | 25,177 | 53,931 |
| Vessels building but not launched..... | 26,005,758 | 5,435,153 | 3,227,180 | 1,821,836 |
| Steel..... | 25,851,893 | 5,361,448 | 3,101,014 | 1,821,836 |
| Wooden..... | 153,865 | 73,705 | 126,166 | ..... |
| Boats (less than 5 gross tons)... | 1,849,889 | 351,339 | 175,730 | 153,346 |
| All other products, including repair work..... | 187,819,607 | 29,511,289 | 24,420,224 | 23,740,710 |

1 Not reported.

TABLE 4.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS:
1919.

| STATE. | Number of establishments. | WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-----------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
| | | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States..... | 1,075 | 387,446 | 100.0 | ... | \$1,622,361 | 100.0 | ... | \$911,839 | 100.0 | ... |
| New Jersey..... | 93 | 52,397 | 13.5 | 2 | 238,015 | 14.7 | 1 | 112,461 | 12.3 | 2 |
| California..... | 67 | 47,630 | 12.3 | 3 | 185,882 | 11.5 | 3 | 109,254 | 12.0 | 3 |
| Washington..... | 70 | 34,576 | 8.9 | 4 | 166,520 | 10.3 | 4 | 92,474 | 10.1 | 4 |
| New York..... | 161 | 33,295 | 8.6 | 5 | 132,012 | 8.1 | 5 | 90,457 | 9.9 | 5 |
| Michigan..... | 33 | 16,541 | 4.3 | 8 | 85,155 | 5.2 | 6 | 49,034 | 5.4 | 6 |
| Maryland..... | 42 | 19,084 | 4.9 | 6 | 67,310 | 4.2 | 7 | 36,310 | 4.0 | 8 |
| Ohio..... | 28 | 11,412 | 2.9 | 10 | 57,483 | 3.5 | 9 | 33,581 | 3.7 | 10 |
| Wisconsin..... | 35 | 7,855 | 2.0 | 13 | 44,164 | 2.7 | 12 | 23,797 | 2.6 | 12 |
| Florida..... | 73 | 11,199 | 2.9 | 11 | 32,662 | 2.0 | 13 | 18,745 | 2.1 | 13 |
| Maine..... | 82 | 7,000 | 1.8 | 14 | 24,682 | 1.5 | 14 | 14,830 | 1.6 | 14 |
| Georgia..... | 10 | 4,447 | 1.2 | 20 | 20,944 | 1.3 | 16 | 12,283 | 1.3 | 18 |
| Louisiana..... | 22 | 5,346 | 1.4 | 19 | 17,598 | 1.1 | 20 | 10,602 | 1.2 | 20 |
| North Carolina..... | 18 | 117 | (1) | 31 | 374 | (1) | 30 | 224 | (1) | 32 |
| Kentucky..... | 7 | 185 | (1) | 29 | 330 | (1) | 32 | 277 | (1) | 30 |
| Indiana..... | 7 | 107 | (1) | 32 | 315 | (1) | 33 | 233 | (1) | 31 |
| All other states..... | 321 | 136,355 | 35.2 | ... | 548,916 | 33.8 | ... | 307,238 | 33.7 | ... |

1 Less than one-tenth of 1 per cent.

TABLE 5.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1916, 1914, AND 1909.

| INDUSTRY AND CLASS. | Census year. | PERSONS ENGAGED. | | | | | INDUSTRY AND CLASS. | Census year. | PERSONS ENGAGED. | | | | |
|--|--------------|------------------|---------|----------|--------------------|----------|--|--------------|------------------|---------|----------|--------------------|----------|
| | | Total. | Male. | Fe-male. | Per cent of total. | | | | Total. | Male. | Fe-male. | Per cent of total. | |
| | | | | | Male. | Fe-male. | | | | | | Male. | Fe-male. |
| SHIPBUILDING, INCLUDING BOAT BUILDING. | 1919 | 413,236 | 407,139 | 6,097 | 98.5 | 1.5 | SHIPBUILDING, STEEL..... | 1919 | 365,875 | 360,416 | 5,459 | 98.5 | 1.5 |
| | 1916 | 78,333 | 77,802 | 531 | 99.3 | 0.7 | | 1916 | 50,802 | 49,470 | 332 | 99.5 | 0.5 |
| | 1914 | 48,067 | 48,314 | 353 | 99.3 | 0.7 | | 1914 | 35,004 | 35,470 | 104 | 99.5 | 0.5 |
| | 1909 | 44,949 | 44,697 | 352 | 99.2 | 0.8 | | 1909 | 30,041 | 29,890 | 151 | 99.5 | 0.5 |
| Proprietors and officials..... | 1919 | 8,195 | 8,158 | 37 | 99.5 | 0.5 | Proprietors and officials..... | 1919 | 5,916 | 5,903 | 13 | 99.8 | 0.2 |
| | 1916 | 2,653 | 2,605 | 48 | 98.2 | 1.8 | | 1916 | 1,007 | 1,003 | 4 | 99.6 | 0.4 |
| | 1914 | 2,187 | 2,154 | 33 | 98.5 | 1.5 | | 1914 | 685 | 682 | 3 | 99.5 | 0.5 |
| | 1909 | 2,471 | 2,447 | 24 | 99.0 | 1.0 | | 1909 | 491 | 491 | ..... | 100.0 | ..... |
| Proprietors and firm members.... | 1919 | 816 | 804 | 12 | 98.5 | 1.5 | Proprietors and firm members.... | 1919 | 21 | 20 | 1 | 95.2 | 4.8 |
| | 1916 | 1,103 | 1,062 | 41 | 96.3 | 3.7 | | 1916 | 35 | 33 | 2 | 94.3 | 5.7 |
| | 1914 | 1,102 | 1,103 | 29 | 97.6 | 2.4 | | 1914 | 24 | 22 | 2 | 91.7 | 8.3 |
| | 1909 | 1,463 | 1,440 | 23 | 98.4 | 1.6 | | 1909 | 21 | 21 | ..... | 100.0 | ..... |
| Salaried officers of corporations... | 1919 | 875 | 861 | 14 | 98.4 | 1.6 | Salaried officers of corporations... | 1919 | 442 | 439 | 3 | 99.3 | 0.7 |
| | 1916 | 399 | 394 | 5 | 98.7 | 1.3 | | 1916 | 194 | 193 | 1 | 99.5 | 0.5 |
| | 1914 | 323 | 320 | 3 | 99.1 | 0.9 | | 1914 | 166 | 165 | 1 | 99.4 | 0.6 |
| | 1909 | 367 | 366 | 1 | 99.7 | 0.3 | | 1909 | 122 | 122 | ..... | 100.0 | ..... |
| Superintendents and managers... | 1919 | 6,504 | 6,493 | 11 | 99.8 | 0.2 | Superintendents and managers... | 1919 | 5,453 | 5,444 | 9 | 99.8 | 0.2 |
| | 1916 | 1,151 | 1,149 | 2 | 99.8 | 0.2 | | 1916 | 778 | 777 | 1 | 99.9 | 0.1 |
| | 1914 | 672 | 671 | 1 | 99.9 | 0.1 | | 1914 | 395 | 395 | ..... | 100.0 | ..... |
| | 1909 | 641 | 641 | ..... | 100.0 | ..... |  | 1909 | 348 | 348 | ..... | 100.0 | ..... |
| Clerks and other subordinate salaried employees. | 1919 | 17,595 | 12,756 | 4,839 | 72.5 | 27.5 | Clerks and other subordinate salaried employees. | 1919 | 15,945 | 11,610 | 4,335 | 72.8 | 27.2 |
| | 1916 | 3,183 | 2,818 | 365 | 88.5 | 11.5 | | 1916 | 2,568 | 2,335 | 233 | 91.3 | 8.7 |
| | 1914 | 1,991 | 1,765 | 226 | 88.6 | 11.4 | | 1914 | 1,571 | 1,447 | 124 | 92.1 | 7.9 |
| | 1909 | 1,972 | 1,706 | 266 | 86.5 | 13.5 | | 1909 | 1,407 | 1,302 | 105 | 92.5 | 7.5 |
| Wage earners (average number)..... | 1919 | 387,446 | 386,225 | 1,221 | 99.7 | 0.3 | Wage earners (average number)..... | 1919 | 344,014 | 342,903 | 1,111 | 99.7 | 0.3 |
| | 1916 | 72,497 | 72,379 | 118 | 99.8 | 0.2 | | 1916 | 56,237 | 56,138 | 99 | 99.8 | 0.2 |
| | 1914 | 44,489 | 44,395 | 94 | 99.8 | 0.2 | | 1914 | 33,508 | 33,441 | 67 | 99.8 | 0.2 |
| | 1909 | 40,508 | 40,444 | 64 | 99.8 | 0.2 | | 1909 | 28,143 | 28,097 | 46 | 99.8 | 0.2 |
| 16 years of age and over..... | 1919 | 387,193 | 385,972 | 1,221 | 99.7 | 0.3 | 16 years of age and over..... | 1919 | 343,774 | 342,663 | 1,111 | 99.7 | 0.3 |
| | 1916 | 72,097 | 71,979 | 118 | 99.8 | 0.2 | | 1916 | 55,859 | 55,760 | 99 | 99.8 | 0.2 |
| | 1914 | 44,288 | 44,195 | 93 | 99.8 | 0.2 | | 1914 | 33,323 | 33,257 | 66 | 99.8 | 0.2 |
| | 1909 | 40,135 | 40,073 | 62 | 99.8 | 0.2 | | 1909 | 27,704 | 27,748 | 44 | 99.8 | 0.2 |
| Under 16 years of age..... | 1919 | 253 | 253 | ..... | 100.0 | ..... | Under 16 years of age..... | 1919 | 240 | 240 | ..... | 100.0 | ..... |
| | 1916 | 400 | 400 | ..... | 100.0 | ..... |  | 1916 | 378 | 378 | ..... | 100.0 | ..... |
| | 1914 | 201 | 200 | 1 | 99.5 | 0.5 | | 1914 | 185 | 184 | 1 | 99.5 | 0.5 |
| | 1909 | 371 | 371 | ..... | 100.0 | ..... |  | 1909 | 349 | 349 | ..... | 100.0 | ..... |

MANUFACTURES.

TABLE 5.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1916, 1914 AND 1909—Continued.

| INDUSTRY AND CLASS. | Cen- sus year. | PERSONS ENGAGED. | | | | | INDUSTRY AND CLASS. | Cen- sus year. | PERSONS ENGAGED. | | | | |
|---|----------------------|------------------|--------|--------------|-----------------------|--------------|---|----------------------|------------------|--------|--------------|-----------------------|--------------|
| | | Total. | Male. | Fe- male. | Per cent of total. | | | | Total. | Male. | Fe- male. | Per cent of total. | |
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| SHIPBUILDING, WOODEN, IN- CLUDING BOAT BUILDING. | 1919 | 47,361 | 46,723 | 638 | 98.7 | 1.3 | SHIPBUILDING, WOODEN, IN- CLUDING BOAT BUILDING—CON. | | | | | | |
| | 1916 | 18,531 | 18,326 | 205 | 98.9 | 1.1 | | | | | | | |
| | 1914 | 13,003 | 12,844 | 159 | 98.8 | 1.2 | | | | | | | |
| | 1909 | 14,908 | 14,707 | 201 | 98.7 | 1.3 | | | | | | | |
| | | | | | | | | | | | | | |
| Proprietors and officials..... | 1919 | 2,279 | 2,255 | 24 | 98.9 | 1.1 | Clerks and other subordinate salaried employees. | 1919 | 1,650 | 1,146 | 504 | 69.5 | 30.5 |
| | 1916 | 1,646 | 1,602 | 44 | 97.3 | 2.7 | | 1916 | 625 | 483 | 142 | 77.3 | 22.7 |
| | 1914 | 1,602 | 1,572 | 30 | 98.1 | 1.9 | | 1914 | 420 | 318 | 102 | 75.7 | 24.3 |
| | 1909 | 1,980 | 1,956 | 24 | 98.8 | 1.2 | | 1909 | 565 | 404 | 161 | 71.5 | 28.5 |
| | | | | | | | | | | | | | |
| Proprietors and firm members.... | 1919 | 795 | 784 | 11 | 98.6 | 1.4 | Wage earners (average number)..... | 1919 | 43,432 | 43,322 | 110 | 99.7 | 0.3 |
| | 1916 | 1,088 | 1,029 | 59 | 96.3 | 3.7 | | 1916 | 16,260 | 16,241 | 19 | 99.9 | 0.1 |
| | 1914 | 1,168 | 1,141 | 27 | 97.7 | 2.3 | | 1914 | 10,981 | 10,954 | 27 | 99.8 | 0.2 |
| | 1909 | 1,442 | 1,419 | 23 | 98.4 | 1.6 | | 1909 | 12,363 | 12,347 | 16 | 99.9 | 0.1 |
| | | | | | | | | | | | | | |
| Salaried officers of corporations... | 1919 | 433 | 422 | 11 | 97.5 | 2.5 | 16 years of age and over..... | 1919 | 43,419 | 43,309 | 110 | 99.7 | 0.3 |
| | 1916 | 205 | 201 | 4 | 98.0 | 2.0 | | 1916 | 16,236 | 16,217 | 19 | 99.9 | 0.1 |
| | 1914 | 167 | 155 | 2 | 98.7 | 1.3 | | 1914 | 10,965 | 10,938 | 27 | 99.8 | 0.2 |
| | 1909 | 245 | 244 | 1 | 99.6 | 0.4 | | 1909 | 12,341 | 12,325 | 16 | 99.9 | 0.1 |
| | | | | | | | | | | | | | |
| Superintendents and managers... | 1919 | 1,051 | 1,049 | 2 | 99.8 | 0.2 | Under 16 years of age..... | 1919 | 13 | 13 | ..... | 100.0 | ..... |
| | 1916 | 373 | 372 | 1 | 99.7 | 0.3 | | 1916 | 24 | 24 | ..... | 100.0 | ..... |
| | 1914 | 277 | 276 | 1 | 99.6 | 0.4 | | 1914 | 16 | 16 | ..... | 100.0 | ..... |
| | 1909 | 293 | 293 | ..... | 100.0 | ..... |  | 1909 | 22 | 22 | ..... | 100.0 | ..... |
| | | | | | | | | | | | | | |

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Aver- age num- ber em- ployed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent mini- mum is of maxi- mum. |
|---|--|---|----------------|---------------|---------|----------------|---------|---------|---------------|-----------------|---------------|----------------|----------------|---|
| | | Janu- ary. | Febru- ary. | March. | April. | May. | June. | July. | August. | Septem- ber. | Octo- ber. | Novem- ber. | Decem- ber. | |
| United States: | | | | | | | | | | | | | | |
| 1919..... | 387,446 | 444,683 | 400,553 | 432,454 | 420,218 | 427,614 | 418,438 | 403,539 | 390,825 | 369,255 | 323,395 | <i>301,172</i> | 302,206 | 67.7 |
| Males..... | 389,225 | 442,939 | 404,955 | 430,990 | 427,844 | 426,409 | 417,262 | 402,416 | 389,739 | 368,252 | 322,449 | <i>300,260</i> | 301,185 | 67.8 |
| Females..... | 1,221 | 1,744 | 1,598 | 1,464 | 1,374 | 1,205 | 1,176 | 1,123 | 1,086 | 1,003 | 946 | <i>912</i> | 1,021 | 52.3 |
| 1916..... | 72,497 | <i>59,453</i> | 61,615 | 64,782 | 67,801 | 70,157 | 73,251 | 72,788 | 74,259 | 77,069 | 79,281 | 83,600 | 85,928 | 60.2 |
| 1914..... | 44,489 | 47,038 | 45,776 | 48,534 | 48,941 | 49,567 | 48,610 | 46,164 | 43,006 | 39,870 | 39,162 | <i>37,845</i> | 38,757 | 76.3 |
| Shipbuilding, steel— | | | | | | | | | | | | | | |
| 1919..... | 344,014 | 378,842 | 345,590 | 376,102 | 378,623 | 380,799 | 375,018 | 362,726 | 353,849 | 335,164 | 293,784 | <i>273,350</i> | 274,315 | 71.8 |
| 1916..... | 56,237 | 47,037 | 48,674 | 51,376 | 52,633 | 53,809 | 55,944 | 55,659 | 57,257 | 59,565 | 61,756 | 64,635 | 66,399 | 70.9 |
| 1914..... | 33,508 | 36,262 | 35,435 | 36,788 | 36,636 | 36,773 | 36,222 | 34,822 | 32,967 | 29,808 | 28,743 | <i>28,107</i> | 29,533 | 76.4 |
| Shipbuilding, wooden, in- cluding boat building— | | | | | | | | | | | | | | |
| 1919..... | 43,432 | 65,841 | 60,957 | 56,352 | 50,595 | 46,815 | 43,420 | 40,813 | 36,976 | 34,091 | 29,611 | <i>27,822</i> | 27,891 | 42.3 |
| 1916..... | 16,260 | <i>12,546</i> | 12,941 | 13,406 | 15,168 | 16,848 | 17,307 | 17,129 | 17,002 | 17,504 | 17,525 | 18,915 | 19,529 | 63.2 |
| 1914..... | 10,981 | 10,776 | 10,341 | 11,746 | 12,305 | 12,794 | 12,388 | 11,342 | 10,639 | 10,062 | 10,419 | 9,736 | <i>9,224</i> | 72.1 |
| California..... | 47,530 | 60,917 | 55,919 | 59,537 | 58,582 | 62,138 | 59,437 | 53,934 | 51,314 | 49,141 | 22,177 | <i>15,554</i> | 23,910 | 21.5 |
| Florida..... | 11,199 | 14,300 | 13,389 | 12,170 | 11,385 | 10,914 | 10,542 | 10,983 | 10,925 | 10,219 | 9,882 | 9,987 | <i>9,692</i> | 67.8 |
| Louisiana..... | 5,346 | 5,086 | 5,375 | 4,927 | 4,994 | 4,368 | 4,508 | 5,354 | 5,214 | 5,500 | 6,662 | 6,358 | 6,006 | 64.7 |
| Maine..... | 7,000 | 7,701 | 8,425 | 8,419 | 7,700 | 7,559 | 7,355 | 7,019 | 6,643 | 5,879 | 5,605 | 5,692 | 5,943 | 66.5 |
| Maryland..... | 10,084 | 19,410 | 19,913 | 20,432 | 20,051 | 19,496 | 19,227 | 19,678 | <i>17,666</i> | 17,932 | 18,266 | 18,376 | 18,101 | 80.8 |
| Michigan..... | 16,541 | 17,724 | 19,262 | 20,692 | 19,563 | 19,375 | 20,351 | 16,646 | 17,051 | 14,642 | 12,406 | 10,900 | <i>9,880</i> | 47.7 |
| New Jersey..... | 52,397 | 53,210 | 53,509 | 54,393 | 53,523 | 53,333 | 52,633 | 53,392 | 53,266 | 50,632 | <i>49,689</i> | 49,716 | 51,408 | 91.4 |
| New York..... | 33,295 | 39,842 | 38,707 | 38,385 | 37,302 | 35,543 | 34,507 | 34,038 | 32,095 | 28,951 | <i>24,432</i> | 26,682 | 29,050 | 61.3 |
| Ohio..... | 11,412 | 10,939 | 11,754 | 12,379 | 12,216 | 12,385 | 12,347 | 11,358 | 11,895 | 11,185 | 11,086 | 10,027 | <i>9,373</i> | 75.7 |
| Washington..... | 34,576 | 48,392 | <i>11,266</i> | 35,287 | 43,830 | 43,546 | 41,826 | 39,965 | 37,883 | 35,759 | 29,739 | 24,821 | 22,578 | 23.3 |
| Wisconsin..... | 7,855 | 6,970 | 7,437 | 7,555 | 8,171 | 8,186 | 8,181 | 8,279 | 8,484 | 8,574 | 8,544 | 7,506 | <i>6,373</i> | 74.8 |

SHIPBUILDING, INCLUDING BOAT BUILDING.

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TABLE 7.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

| STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|--|--------------|---------|--|--------------------|------------------|--------------------|--------|--------------------|--------|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| United States..... | 1919 | 387,446 | 269,809 | 4,700 | 116,122 | 2,038 | 2,156 | 477 | 1,964 | 120 |
| | 1914 | 44,489 | (2) | (2) | 14,730 | 7,638 | 12,320 | 1,524 | 7,771 | 606 |
| | 1909 | 40,506 | (2) | (2) | 3,865 | 2,674 | 9,883 | 10,045 | 14,038 | 1 |
| Shipbuilding, steel..... | 1919 | 344,014 | 246,866 | 4,685 | 89,901 | 583 | 541 | 128 | 1,300 | ..... |
| | 1914 | 33,608 | (2) | (2) | 11,928 | 6,861 | 6,900 | 928 | 6,393 | 498 |
| Shipbuilding, wooden, including boat building. | 1919 | 43,432 | 12,943 | 75 | 26,221 | 1,455 | 1,615 | 339 | 664 | 120 |
| | 1914 | 10,981 | (2) | (2) | 2,802 | 777 | 5,420 | 596 | 1,378 | 8 |
| California..... | 1919 | 47,530 | 46,979 | ..... | 550 | ..... | 1 | ..... | ..... | ..... |
| | 1914 | 3,457 | (2) | (2) | 3,035 | ..... | 61 | ..... | ..... | 301 |
| Florida ² | 1919 | 11,199 | 2 | ..... | 10,866 | 11 | 242 | ..... | 78 | ..... |
| Louisiana..... | 1919 | 5,346 | 50 | ..... | 5,218 | ..... | 45 | ..... | 33 | ..... |
| | 1914 | 666 | (2) | (2) | 6 | ..... | 326 | 110 | 87 | 137 |
| Maine..... | 1919 | 7,000 | 581 | 4,317 | 1,294 | 233 | 392 | 183 | ..... | ..... |
| | 1914 | 1,122 | (2) | (2) | 649 | 39 | 199 | 60 | 175 | ..... |
| Maryland..... | 1919 | 19,084 | 18,615 | ..... | 251 | 80 | 84 | 10 | 44 | ..... |
| | 1914 | 2,498 | (2) | (2) | 185 | 1,378 | 678 | 91 | 136 | ..... |
| Michigan..... | 1919 | 16,541 | 234 | ..... | 16,067 | 51 | 181 | 5 | 3 | ..... |
| | 1914 | 1,261 | (2) | (2) | 98 | 30 | 730 | 14 | 389 | ..... |
| New Jersey..... | 1919 | 52,397 | 41,555 | 312 | 9,977 | 151 | 176 | 22 | 200 | 4 |
| | 1914 | 6,324 | (2) | (2) | 5,065 | 652 | 569 | 1 | 35 | 2 |
| New York..... | 1919 | 33,295 | 6,079 | 76 | 26,258 | 494 | 207 | 68 | 113 | ..... |
| | 1914 | 6,076 | (2) | (2) | 877 | 1,009 | 3,725 | 173 | 287 | 5 |
| Ohio..... | 1919 | 11,412 | 2,410 | 3 | 8,760 | 146 | 67 | ..... | 36 | ..... |
| | 1914 | 2,879 | (2) | (2) | 9 | 11 | 327 | 794 | 1,738 | ..... |
| Washington..... | 1919 | 34,576 | 33,203 | ..... | 1,373 | ..... | ..... | ..... | 8 | ..... |
| | 1914 | 1,444 | (2) | (2) | 351 | ..... | 1,065 | ..... | ..... | ..... |
| Wisconsin..... | 1919 | 7,855 | 210 | ..... | 7,554 | ..... | 18 | 25 | 48 | ..... |
| | 1914 | 695 | (2) | (2) | 45 | 7 | 554 | 15 | 73 | 1 |

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.³ Figures not available for 1914.

TABLE 8.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

| STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------------|---------------------------|---------------|---------------------------------|---------------|----------------------------------|---------------|-----------------------------------|---------------|------------------------------------|---------------|-------------------------------------|---------------|-------------------------------------|---------------|---------------------------------------|---------------|--------------------------|---------------|
| | Establishments. | Wage earners (average number). | No wage earners. | | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | 251 to 500 wage earners, inclusive. | | 501 to 1,000 wage earners, inclusive. | | Over 1,000 wage earners. | |
| | | | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. | Establishments. | Wage earners. |
| United States: | | | | | | | | | | | | | | | | | | | | |
| 1919..... | 1,075 | 387,446 | 126 | 379 | 757 | 167 | 1,026 | 102 | 3,300 | 73 | 5,221 | 87 | 14,377 | 40 | 13,509 | 24 | 17,111 | 77 | 331,155 | |
| 1916..... | 1,137 | 72,497 | 143 | 485 | 1,024 | 230 | 2,371 | 113 | 3,515 | 69 | 5,095 | 50 | 7,730 | 21 | 7,690 | 8 | 6,502 | 15 | 38,570 | |
| 1914..... | 1,147 | 44,489 | 170 | 602 | 1,334 | 194 | 2,157 | 81 | 2,644 | 40 | 2,986 | 32 | 4,593 | 13 | 4,138 | 7 | 5,337 | 18 | 21,320 | |
| Shipbuilding, steel— | | | | | | | | | | | | | | | | | | | | |
| 1919..... | 162 | 344,014 | 1 | 6 | 13 | 12 | 120 | 11 | 356 | 17 | 1,222 | 14 | 2,355 | 17 | 6,005 | 10 | 7,231 | 74 | 320,712 | |
| 1916..... | 109 | 56,236 | 1 | 4 | 16 | 12 | 151 | 16 | 568 | 16 | 1,182 | 20 | 3,198 | 18 | 6,014 | 7 | 5,937 | 16 | 38,570 | |
| 1914..... | 79 | 33,608 | ..... | 4 | 9 | 11 | 137 | 10 | 369 | 10 | 763 | 20 | 2,928 | 10 | 3,235 | 6 | 4,747 | 8 | 21,320 | |
| Shipbuilding, wooden, including boat building— | | | | | | | | | | | | | | | | | | | | |
| 1919..... | 913 | 43,432 | 125 | 373 | 744 | 155 | 1,806 | 91 | 3,034 | 56 | 3,999 | 73 | 12,022 | 23 | 7,504 | 14 | 9,880 | 3 | 4,443 | |
| 1916..... | 1,028 | 16,261 | 145 | 481 | 1,008 | 218 | 2,220 | 97 | 2,947 | 53 | 3,913 | 30 | 4,532 | 3 | 1,076 | 1 | 565 | ..... | ..... |  |
| 1914..... | 1,068 | 10,981 | 170 | 598 | 1,325 | 183 | 2,020 | 71 | 2,275 | 30 | 2,293 | 12 | 1,665 | 3 | 903 | 1 | 590 | ..... | ..... |  |
| California..... | 67 | 47,530 | 3 | 15 | 38 | 23 | 248 | 7 | 214 | 2 | 139 | 5 | 908 | 1 | 382 | 1 | 709 | 10 | 44,892 | |
| Florida..... | 73 | 11,199 | 3 | 33 | 66 | 16 | 146 | 5 | 164 | 3 | 227 | 5 | 865 | 2 | 663 | 3 | 2,128 | 3 | 6,940 | |
| Louisiana..... | 22 | 5,346 | 1 | 5 | 9 | 5 | 67 | 3 | 104 | ..... | 1 | 114 | 3 | 977 | 2 | 1,516 | 2 | 2,559 | | |
| Maine..... | 82 | 7,000 | 14 | 31 | 45 | 7 | 94 | 10 | 345 | 9 | 743 | 7 | 933 | 2 | 519 | ..... | ..... | 2 | 4,316 | |
| Maryland..... | 42 | 19,084 | 4 | 12 | 22 | 5 | 53 | 9 | 332 | 1 | 98 | 5 | 836 | 3 | 799 | 1 | 885 | 2 | 16,059 | |
| Michigan..... | 33 | 16,541 | 5 | 10 | 16 | 7 | 83 | 2 | 80 | 3 | 244 | 1 | 208 | ..... | ..... | ..... | ..... | 5 | 15,910 | |
| New Jersey..... | 93 | 52,397 | 16 | 37 | 77 | 10 | 106 | 5 | 189 | 5 | 323 | 8 | 1,184 | 4 | 1,190 | 1 | 727 | 7 | 48,601 | |
| New York..... | 161 | 33,295 | 18 | 49 | 93 | 24 | 292 | 19 | 603 | 20 | 1,375 | 13 | 2,258 | 8 | 2,722 | 1 | 835 | 9 | 25,117 | |
| Ohio..... | 28 | 11,412 | 7 | 5 | 11 | 3 | 36 | 4 | 112 | 4 | 312 | 1 | 157 | ..... | ..... | ..... | ..... | 4 | 10,784 | |
| Washington..... | 76 | 34,576 | 7 | 23 | 39 | 13 | 180 | 6 | 192 | 6 | 434 | 9 | 1,512 | 2 | 677 | 5 | 3,741 | 5 | 27,801 | |
| Wisconsin..... | 35 | 7,855 | 6 | 14 | 23 | 3 | 46 | 1 | 23 | 2 | 115 | 2 | 415 | 2 | 720 | 2 | 1,098 | 3 | 5,415 | |

TABLE 9.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1916, AND 1914.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | VALUE OF PRODUCTS. | | | VALUE ADDED BY MANUFACTURE. | | |
|-------------------------------|---------------------------|-------|-------|---------------------------------|--------|--------|--------------------|---------------|--------------|-----------------------------|--------------|--------------|
| | 1919 | 1916 | 1914 | 1919 | 1916 | 1914 | 1919 | 1916 | 1914 | 1919 | 1916 | 1914 |
| All classes..... | 1,075 | 1,137 | 1,147 | 387,446 | 72,497 | 44,489 | \$1,622,361,261 | \$185,852,192 | \$88,082,071 | \$911,838,585 | \$96,583,362 | \$50,085,101 |
| Less than \$5,000..... | 287 | 461 | 549 | 145 | 472 | 558 | 629,905 | 1,019,222 | 1,190,688 | 436,474 | 682,718 | 822,806 |
| \$5,000 to \$20,000..... | 238 | 300 | 314 | 838 | 1,704 | 1,669 | 2,461,121 | 3,101,970 | 3,216,529 | 1,650,356 | 2,015,011 | 2,060,431 |
| \$20,000 to \$100,000..... | 183 | 197 | 182 | 2,978 | 4,364 | 4,162 | 8,825,152 | 9,006,099 | 7,916,358 | 5,236,140 | 5,132,024 | 4,442,517 |
| \$100,000 to \$500,000..... | 169 | 144 | 76 | 12,600 | 16,827 | 11,581 | 42,718,353 | 42,396,128 | 17,638,417 | 25,902,999 | 22,343,535 | 15,108,403 |
| \$500,000 to \$1,000,000..... | 55 | 11 | 11 | 9,832 | 25,519 | 25,519 | 37,888,810 | 130,323,773 | 51,118,578 | 854,560,709 | 66,410,074 | 27,644,944 |
| \$1,000,000 and over..... | 143 | 35 | 15 | 360,993 | 49,070 | 25,519 | 1,529,837,920 | 130,323,773 | 51,118,578 | 854,560,709 | 66,410,074 | 27,644,944 |
| PER CENT DISTRIBUTION. | | | | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 28.7 | 40.5 | 47.9 | (1) | 0.7 | 1.3 | (1) | 0.6 | 1.4 | (1) | 0.7 | 1.6 |
| \$5,000 to \$20,000..... | 22.1 | 26.4 | 27.4 | 0.2 | 2.4 | 3.8 | 0.2 | 1.7 | 3.6 | 0.2 | 2.1 | 4.1 |
| \$20,000 to \$100,000..... | 17.0 | 17.3 | 15.9 | 0.8 | 6.0 | 9.4 | 0.5 | 4.8 | 8.9 | 0.6 | 5.3 | 8.9 |
| \$100,000 to \$500,000..... | 15.7 | 12.7 | 6.0 | 3.3 | 23.2 | 26.0 | 2.9 | 22.8 | 19.9 | 2.8 | 23.1 | 30.2 |
| \$500,000 to \$1,000,000..... | 5.1 | 1.0 | 1.0 | 2.5 | 37.7 | 59.6 | 2.3 | 8.6 | 8.6 | 2.6 | 68.8 | 55.2 |
| \$1,000,000 and over..... | 13.3 | 8.1 | 1.3 | 93.2 | 67.7 | 59.6 | 94.3 | 70.1 | 57.0 | 93.7 | 68.8 | 55.2 |

1 Less than one-tenth of 1 per cent.

TABLE 10.—CHARACTER OF OWNERSHIP, BY STATES: 1919, 1916, 1914, AND 1909.

| STATE. | Cen- sus year. | NUMBER OF ESTABLISH- MENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | VALUE OF PRODUCTS. | | | | | | | |
|--|----------------------|---|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|---------------------|------------------------|-------------------------|---------------------|-----------------|-----------------------------|--------------------|----------------|------------------------|--------------------|---------------------|
| | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | Of establishments owned by— | | | Per cent of total. | | |
| | | | | | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | Individ- uals. | Corpora- tions. | All others. | Indi- vid- uals. | Corpora- tions. | All oth- ers. |
| United States..... | 1919 | 495 | 448 | 162 | 387,446 | 2,571 | 380,433 | 4,442 | 0.7 | 98.2 | 1.1 | \$1,622,361,261 | \$10,561,820 | \$1,597,770,403 | \$14,029,038 | 0.7 | 98.5 | 0.9 |
| | 1916 | 630 | 310 | 197 | 72,497 | 3,647 | 66,442 | 2,408 | 5.0 | 91.6 | 3.3 | 185,852,192 | 8,849,579 | 171,361,267 | 5,641,346 | 4.8 | 92.2 | 3.0 |
| | 1914 | 695 | 242 | 210 | 44,489 | 2,666 | 39,967 | 1,856 | 6.0 | 89.8 | 4.2 | 88,082,071 | 5,598,819 | 79,046,032 | 4,037,420 | 6.3 | 89.1 | 4.6 |
| | 1909 | 824 | 247 | 282 | 40,506 | 3,660 | 34,475 | 2,371 | 9.0 | 86.1 | 5.9 | 78,380,315 | 6,796,334 | 61,640,548 | 4,917,433 | 9.3 | 84.0 | 6.7 |
| Shipbuilding, steel. | 1919 | 8 | 148 | 6 | 344,014 | 97 | 343,035 | 282 | (1) | 99.9 | 0.1 | 1,456,489,516 | 401,883 | 1,454,961,083 | 1,126,550 | (1) | 99.9 | 0.1 |
| | 1916 | 11 | 87 | 11 | 56,237 | 618 | 55,245 | 374 | 1.1 | 98.2 | 0.7 | 144,619,111 | 1,420,661 | 142,255,944 | 942,506 | 1.0 | 98.4 | 0.6 |
| | 1914 | 7 | 64 | 8 | 38,508 | 189 | 33,019 | 300 | 0.6 | 98.5 | 0.9 | 66,216,692 | 434,942 | 64,973,326 | 808,424 | 0.7 | 98.1 | 1.2 |
| Shipbuilding, wood- en, including boat building. | 1919 | 457 | 300 | 156 | 43,432 | 2,474 | 30,798 | 4,100 | 5.7 | 84.7 | 9.6 | 165,871,745 | 10,159,937 | 142,809,320 | 12,902,488 | 6.1 | 86.1 | 7.8 |
| | 1916 | 619 | 223 | 186 | 16,260 | 3,029 | 11,197 | 2,034 | 18.6 | 63.9 | 12.5 | 41,233,031 | 7,428,918 | 29,105,323 | 4,698,840 | 18.0 | 62.6 | 11.4 |
| | 1914 | 688 | 178 | 202 | 10,981 | 2,477 | 6,948 | 1,556 | 22.6 | 63.3 | 14.2 | 22,465,379 | 5,163,677 | 14,072,703 | 3,228,996 | 23.0 | 70.6 | 14.4 |
| California..... | 1919 | 24 | 27 | 16 | 47,530 | 216 | 47,054 | 260 | 0.5 | 90.0 | 0.5 | 185,882,234 | 916,667 | 183,858,817 | 1,100,750 | 0.5 | 98.9 | 0.6 |
| | 1916 | 23 | 17 | 10 | 7,113 | 404 | 6,623 | 80 | 5.7 | 93.1 | 1.2 | 19,777,911 | 1,530,807 | 18,036,821 | 210,233 | 7.7 | 91.2 | 1.1 |
| | 1914 | 28 | 17 | 7 | 3,457 | 203 | 3,171 | 83 | 5.9 | 91.7 | 2.4 | 8,104,033 | 550,871 | 7,350,730 | 202,432 | 6.8 | 90.7 | 2.5 |
| Florida ¹ | 1919 | 38 | 26 | 9 | 11,199 | 132 | 10,474 | 593 | 1.2 | 93.5 | 5.3 | 32,662,379 | 395,979 | 31,103,378 | 1,163,022 | 1.2 | 95.2 | 3.6 |
| Louisiana..... | 1919 | 5 | 14 | 3 | 5,346 | 57 | 5,279 | 10 | 1.1 | 98.7 | 0.2 | 17,597,868 | 79,165 | 17,483,662 | 35,041 | 0.4 | 99.4 | 0.2 |
| | 1916 | 14 | 9 | 3 | 1,306 | 74 | 1,171 | 61 | 5.7 | 89.7 | 4.7 | 2,600,767 | 127,836 | 2,395,736 | 83,145 | 4.9 | 91.9 | 3.2 |
| | 1914 | 7 | 6 | 4 | 666 | 45 | 534 | 87 | 0.8 | 80.2 | 13.1 | 1,080,319 | 31,530 | 956,732 | 92,007 | 2.9 | 88.6 | 8.5 |
| Maine..... | 1919 | 39 | 30 | 13 | 7,000 | 229 | 6,715 | 56 | 3.3 | 95.9 | 0.8 | 24,682,253 | 970,594 | 23,398,053 | 313,606 | 3.9 | 94.8 | 1.3 |
| | 1916 | 62 | 18 | 20 | 1,857 | 163 | 1,452 | 242 | 8.8 | 78.2 | 13.0 | 4,862,131 | 475,171 | 3,797,229 | 609,731 | 9.7 | 77.8 | 12.5 |
| | 1914 | 75 | 13 | 19 | 1,122 | 95 | 893 | 134 | 8.5 | 70.6 | 11.9 | 2,482,518 | 190,833 | 2,007,196 | 284,489 | 7.7 | 80.9 | 11.5 |
| Maryland..... | 1919 | 13 | 21 | 8 | 19,084 | 142 | 18,893 | 49 | 0.7 | 99.0 | 0.3 | 67,309,914 | 415,484 | 66,712,033 | 182,397 | 0.6 | 99.1 | 0.3 |
| | 1916 | 29 | 14 | 7 | 5,326 | 259 | 4,870 | 188 | 4.9 | 91.6 | 3.5 | 12,205,557 | 453,147 | 11,203,684 | 453,726 | 4.0 | 92.3 | 3.7 |
| | 1914 | 23 | 12 | 7 | 2,468 | 168 | 2,126 | 174 | 6.8 | 86.1 | 7.1 | 4,521,169 | 254,161 | 3,916,507 | 347,501 | 5.6 | 86.7 | 7.7 |
| Michigan..... | 1919 | 16 | 16 | 1 | 16,541 | 140 | 16,401 | ..... | 0.8 | 99.2 | ..... | 85,154,702 | 1,008,000 | 84,146,702 | ..... | 1.2 | 98.8 | ..... |
| | 1916 | 37 | 11 | 7 | 2,225 | 381 | 1,712 | 132 | 17.1 | 76.9 | 5.9 | 5,637,103 | 679,570 | 4,620,709 | 836,824 | 12.1 | 82.0 | 5.9 |
| | 1914 | 42 | 11 | 9 | 1,261 | 175 | 940 | 146 | 13.9 | 74.5 | 11.6 | 2,822,557 | 336,488 | 2,134,864 | 351,205 | 11.9 | 75.6 | 12.4 |
| New Jersey..... | 1919 | 49 | 31 | 13 | 52,397 | 153 | 51,957 | 287 | 0.3 | 99.2 | 0.5 | 238,014,659 | 496,575 | 236,391,794 | 1,126,290 | 0.2 | 99.3 | 0.5 |
| | 1916 | 41 | 24 | 11 | 7,777 | 160 | 7,495 | 122 | 2.1 | 90.4 | 1.6 | 20,311,529 | 322,038 | 19,751,940 | 237,551 | 1.6 | 97.2 | 1.2 |
| | 1914 | 51 | 23 | 11 | 6,324 | 148 | 6,095 | 81 | 2.3 | 90.4 | 1.3 | 11,860,965 | 331,988 | 11,333,679 | 195,298 | 2.8 | 95.6 | 1.6 |
| New York..... | 1919 | 72 | 71 | 18 | 33,295 | 828 | 32,133 | 534 | 1.9 | 96.5 | 1.6 | 132,012,124 | 3,100,018 | 126,421,333 | 2,490,773 | 2.3 | 95.8 | 1.9 |
| | 1916 | 116 | 50 | 34 | 9,928 | 830 | 8,527 | 571 | 8.4 | 85.0 | 5.7 | 31,357,645 | 2,326,178 | 27,394,616 | 1,636,851 | 7.4 | 87.4 | 5.2 |
| | 1914 | 129 | 39 | 39 | 6,076 | 697 | 4,935 | 444 | 11.5 | 81.2 | 7.3 | 14,195,298 | 1,619,349 | 11,433,607 | 1,142,342 | 11.4 | 80.5 | 8.0 |
| Ohio..... | 1919 | 11 | 13 | 4 | 11,412 | 48 | 11,341 | 23 | 0.4 | 99.4 | 0.2 | 57,482,599 | 147,801 | 57,264,711 | 70,087 | 0.3 | 99.6 | 0.1 |
| | 1916 | 11 | 13 | 8 | 5,059 | 35 | 4,989 | 35 | 0.7 | 93.6 | 0.7 | 12,160,007 | 83,976 | 12,009,771 | 66,260 | 0.7 | 98.8 | 0.5 |
| | 1914 | 12 | 12 | 5 | 2,879 | 74 | 2,769 | 36 | 2.6 | 96.2 | 1.3 | 4,716,787 | 105,840 | 4,537,147 | 73,800 | 2.2 | 96.2 | 1.6 |
| Washington..... | 1919 | 23 | 40 | 13 | 34,576 | 75 | 33,953 | 548 | 0.2 | 98.2 | 1.6 | 166,519,787 | 292,085 | 163,895,783 | 2,331,919 | 0.2 | 98.4 | 1.4 |
| | 1916 | 21 | 23 | 13 | 3,744 | 49 | 3,581 | 114 | 1.3 | 95.6 | 3.0 | 10,829,812 | 118,980 | 10,406,725 | 304,107 | 1.1 | 96.1 | 2.8 |
| | 1914 | 35 | 11 | 18 | 1,444 | 95 | 1,234 | 115 | 6.6 | 85.5 | 8.0 | 3,101,446 | 273,265 | 2,551,020 | 277,161 | 8.8 | 82.3 | 8.9 |
| Wisconsin..... | 1919 | 13 | 17 | 5 | 7,855 | 9 | 7,813 | 33 | 0.1 | 99.5 | 0.4 | 44,163,746 | 39,355 | 44,027,194 | 87,197 | 0.1 | 99.7 | 0.2 |
| | 1916 | 13 | 11 | 0 | 1,250 | 22 | 1,157 | 71 | 1.3 | 92.6 | 5.6 | 3,826,847 | 40,019 | 3,649,285 | 137,543 | 1.0 | 95.4 | 3.6 |
| | 1914 | 17 | 12 | 5 | 695 | 24 | 606 | 65 | 3.5 | 87.2 | 9.4 | 1,254,088 | 50,202 | 1,099,122 | 104,764 | 4.0 | 87.6 | 8.4 |

1 Less than one-tenth of 1 per cent.

2 Figures not available for 1916 and 1914.

3 Includes the group "All others."

SHIPBUILDING, INCLUDING BOAT BUILDING.

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TABLE 11.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|------------------|------------------|-------------|------------------|------------------|------------------------|-------|------------------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 22,179 | 2,999 | 1,900 | 553,711 | 115,333 | 88,063 | 100.0 | 100.0 | 100.0 |
| Owned..... | 1,255 | 1,338 | 1,416 | 128,200 | 85,029 | 78,769 | 23.2 | 73.7 | 89.4 |
| Steam..... | 789 | 831 | 991 | 121,200 | 79,599 | 75,180 | 21.9 | 69.0 | 85.4 |
| Engines..... | 750 | (²) | (²) | 70,164 | (²) | (²) | 14.3 | | |
| Turbines..... | 39 | (²) | (²) | 42,036 | (²) | (²) | 7.6 | | |
| Internal-combustion engines..... | 461 | 502 | 420 | 7,019 | 5,336 | 3,503 | 1.3 | 4.6 | 4.0 |
| Water wheels, turbines, and motors..... | 5 | 5 | 5 | 71 | 94 | 86 | (³) | 0.1 | 0.1 |
| Rented..... | 20,924 | 1,661 | 544 | 425,421 | 30,304 | 9,294 | 76.8 | 26.3 | 10.6 |
| Electric..... | 20,924 | 1,661 | 544 | 424,981 | 30,085 | 9,294 | 76.7 | 25.1 | 10.6 |
| Other..... | | | | 440 | 219 | 30 | 0.1 | 0.2 | (³) |
| Electric..... | 23,390 | 3,999 | 2,200 | 476,135 | 66,275 | 35,334 | 100.0 | 100.0 | 100.0 |
| Rented..... | 20,924 | 1,661 | 544 | 424,981 | 30,085 | 9,294 | 89.3 | 45.4 | 25.2 |
| Generated by establishments reporting..... | 2,466 | 2,338 | 1,722 | 51,154 | 36,190 | 26,070 | 10.7 | 54.6 | 73.8 |

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

² Not reported separately.

³ Less than one-tenth of 1 per cent.

TABLE 12.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

| STATE AND CENSUS YEAR. | COAL. | | Coke (tons, 2,000 lbs.). | Fuel oils (barrels). | Gasoline and other volatile oils (bar- rels). | Gas (1,000 cubic feet). | STATE AND CENSUS YEAR. | COAL. | | Coke (tons, 2,000 lbs.). | Fuel oils (barrels). | Gasoline and other volatile oils (bar- rels). | Gas (1,000 cubic feet). |
|------------------------|--|--|-----------------------------------|-------------------------|---|----------------------------------|------------------------|--|--|-----------------------------------|-------------------------|---|----------------------------------|
| | Anthra- cite (tons, 2,240 lbs.). | Bitumi- nous (tons, 2,000 lbs.). | | | | | | Anthra- cite (tons, 2,240 lbs.). | Bitumi- nous (tons, 2,000 lbs.). | | | | |
| United States: | | | | | | | Michigan: | | | | | | |
| 1919..... | 50,234 | 868,713 | 97,690 | 1,032,672 | 101,179 | 701,461 | 1919..... | 10 | 80,084 | 2,691 | 30,456 | 1,244 | |
| 1914..... | 13,441 | 251,520 | 10,548 | 122,929 | (¹) | 404,785 | 1914..... | 19 | 22,594 | 410 | 2,290 | (¹) | 194 |
| Shipbuilding, steel— | | | | | | | New Jersey: | | | | | | |
| 1919..... | 37,392 | 785,898 | 96,717 | 980,144 | 95,584 | 694,407 | 1919..... | 21,983 | 165,259 | 14,300 | 109,959 | 30,399 | 24,115 |
| Shipbuilding, wooden— | | | | | | | 1914..... | 6,179 | 30,101 | 1,397 | 7,170 | (¹) | 520 |
| 1919..... | 12,842 | 82,815 | 973 | 52,528 | 5,595 | 6,994 | New York: | | | | | | |
| California: | | | | | | | 1919..... | 15,229 | 68,719 | 4,019 | 21,913 | 6,054 | 9,040 |
| 1919..... | 1,725 | 1,355 | 13,770 | 191,795 | 5,774 | 2,013 | 1914..... | 4,255 | 23,347 | 630 | 2,657 | (¹) | 5,741 |
| 1914..... | 15 | 175 | | 78,596 | (¹) | 30 | Ohio: | | | | | | |
| Louisiana: | | | | | | | 1919..... | 759 | 69,190 | 4,338 | 842 | 33,082 | 444,224 |
| 1919..... | 14 | 9,908 | 995 | 14,279 | 1,895 | 1,053 | 1914..... | 64 | 24,434 | 1,851 | 4,174 | (¹) | 387,074 |
| 1914..... | 4 | 740 | 34 | 1,452 | (¹) | | Washington: | | | | | | |
| Maine: | | | | | | | 1919..... | 100 | 7,644 | 10,407 | 154,560 | 2,702 | 47,274 |
| 1919..... | 653 | 9,644 | 31 | 26,069 | 70 | 103 | 1914..... | 5 | 61 | 190 | 11,670 | (¹) | |
| 1914..... | 19 | 4,871 | 1 | 254 | (¹) | 140 | Wisconsin: | | | | | | |
| Maryland: | | | | | | | 1919..... | 361 | 28,553 | 1,312 | 23,105 | 255 | 664 |
| 1919..... | 5,346 | 34,810 | 3,318 | 19,066 | 1,244 | 629 | 1914..... | 49 | 5,762 | 39 | 113 | (¹) | |
| 1914..... | 481 | 19,677 | 364 | 1,205 | (¹) | 370 | All other states: | | | | | | |
| | | | | | | | 1919..... | 4,054 | 395,547 | 42,509 | 440,627 | 18,460 | 172,247 |
| | | | | | | | 1914..... | 2,351 | 114,058 | 5,623 | 13,339 | (¹) | 10,716 |

¹ Included in figures for fuel oils.

SPECIAL STATISTICS.

Statistics covered and terms used.—The schedules used in collecting the statistics of shipbuilding required a detailed statement of the number, kind, and tonnage of vessels launched, and value of the different kinds of work performed.

In explanation of the terms gross and net tons, it should be stated that gross tonnage is the total internal cubic capacity of a vessel, expressed in tons of 100 cubic feet each, while net tonnage is the internal cubic capacity remaining after deductions have been made from gross tonnage for quarters of officers and crew, for boilers, machinery, and coal bunkers, and for navigation and other purposes. Net tonnage, therefore, may be regarded as that portion of the vessel which is available for passengers and cargo. Tonnage measurements are not altogether uniform among maritime nations, but vary with the laws of the nation under which registry is made. Displacement tonnage, the term used in stating the size of vessels of the United States Navy, differs from gross and net tonnage as applied to merchant vessels, and is merely the weight of the volume of water displaced, equivalent, of course, to the weight of the vessel. The tonnage of vessels of the United States Navy, as given in the statistics, is always displacement tonnage. While gross tonnage and displacement tonnage are not by any means the same, it is necessary to combine the tonnage of vessels whose capacity is reckoned in one way, with that of vessels whose capacity is reckoned by the other method, in order to obtain a total which should represent approximately the total tonnage launched during the year.

In the tables which follow, gross tonnage is shown

unless otherwise specified, and the statistics do not include the products of Government shipyards nor the subsidiary products of establishments in other industries unless specifically stated.

Number and gross tonnage of vessels launched and number of power boats.—Table 13 shows the number and gross tonnage of all vessels launched during the census years 1919, 1916, 1914, and 1909, and distinguishes three classes of establishments reporting for 1919, 1914, and 1909, and two classes of establishments for 1916. In many cases a large part of the work on vessels launched during the census years was done in prior years, and on the other hand, much work was done during each census year on vessels which were not launched.

In 1919, 1914, and 1909, shipbuilding statistics were collected as a part of the quinquennial census of manufactures for these years, and include data for vessels and boats built by establishments engaged primarily in other lines of manufacture and hence not classed as shipbuilding, whereas the census of 1916 did not cover other manufacturing industries but was limited to the shipbuilding industry proper. The statistics for 1916, therefore, are those of establishments engaged primarily in ship and boat building and repairs, and include Government shipyards, but do not include any ships or boats that may have been built in establishments designated as "Private establishments in other industries." The number, as well as the tonnage, of vessels launched by these private establishments is relatively small, the tonnage amounting to only 1.1 per cent of the total in 1919, 3 per cent in 1914, and 2.6 per cent in 1909.

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TABLE 13.—NUMBER AND GROSS TONNAGE OF VESSELS LAUNCHED AND NUMBER OF POWER BOATS: 1919, 1916, 1914, AND 1909.

| CLASS. | Census year. | ALL ESTABLISHMENTS. | | PRIVATE ESTABLISHMENTS IN THE SHIPBUILDING INDUSTRY. | | PRIVATE ESTABLISHMENTS IN OTHER INDUSTRIES. | | GOVERNMENT SHIPYARDS. | |
|--|--------------|---------------------|----------------|--|----------------|---|----------------|-----------------------|-----------------------|
| | | Number. | Gross tonnage. | Number. | Gross tonnage. | Number. | Gross tonnage. | Number. | Displacement tonnage. |
| Vessels of 5 gross tons and over..... | 1919 | 2,202 | 4,662,433 | 2,033 | 4,489,809 | 64 | 51,970 | 105 | 120,654 |
| | 1916 | 1,463 | 772,167 | 1,377 | 734,108 | ..... | ..... | 86 | 38,059 |
| | 1914 | 1,255 | 455,567 | 1,113 | 425,080 | 64 | 13,654 | 48 | 16,853 |
| | 1909 | 1,637 | 481,813 | 1,584 | 467,219 | 22 | 12,535 | 31 | 2,059 |
| Classified by material: | | | | | | | | | |
| Steel..... | 1919 | 1,181 | 3,882,894 | ¹ 1,095 | 3,734,201 | 59 | 47,194 | 27 | 101,490 |
| | 1916 | 244 | 518,858 | 230 | 485,860 | ..... | ..... | 14 | 32,998 |
| | 1914 | 215 | 288,870 | 120 | 242,959 | 69 | 9,792 | 20 | 16,119 |
| | 1909 | 169 | 260,765 | 158 | 254,986 | 8 | 5,420 | 3 | 350 |
| Wooden..... | 1919 | 1,021 | 779,539 | 938 | 755,608 | 5 | 4,776 | 78 | 19,155 |
| | 1916 | 1,219 | 253,309 | 1,147 | 248,248 | ..... | ..... | 72 | 5,001 |
| | 1914 | 1,040 | 186,697 | 987 | 182,101 | 25 | 3,862 | 28 | 734 |
| | 1909 | 1,468 | 221,048 | 1,426 | 212,233 | 14 | 7,106 | 28 | 1,709 |
| Classified by power: | | | | | | | | | |
| Steam..... | 1919 | 1,230 | 4,100,652 | 1,203 | 4,010,724 | ..... | ..... | 27 | 98,928 |
| | 1916 | 206 | 472,597 | 186 | 442,354 | ..... | ..... | 20 | 30,243 |
| | 1914 | 148 | 243,011 | 139 | 234,636 | ..... | ..... | 9 | 8,375 |
| | 1909 | 104 | 235,315 | 181 | 234,633 | 3 | 429 | 10 | 253 |
| Motor..... | 1919 | 254 | 60,369 | 241 | 57,174 | ..... | ..... | 13 | 3,225 |
| | 1916 | 434 | 30,316 | 403 | 29,866 | ..... | ..... | 31 | 450 |
| | 1914 | 382 | 10,897 | 370 | 10,821 | 4 | 6 | 8 | 40 |
| | 1909 | 447 | 9,413 | 445 | 9,389 | 2 | 24 | ..... | ..... |
| Sail, with auxiliary power..... | 1919 | 28 | 19,242 | 27 | 17,754 | 1 | 1,488 | ..... | ..... |
| | 1916 | 62 | 30,625 | 62 | 30,625 | ..... | ..... | ..... | ..... |
| | 1914 | 60 | 6,575 | 58 | 2,799 | 8 | 3,776 | ..... | ..... |
| | 1909 | 68 | 2,652 | 68 | 2,652 | ..... | ..... | ..... | ..... |
| Sail, without auxiliary power..... | 1919 | 58 | 64,679 | 57 | 63,091 | 1 | 1,488 | ..... | ..... |
| | 1916 | 62 | 15,456 | 62 | 15,456 | ..... | ..... | ..... | ..... |
| | 1914 | 40 | 2,224 | 40 | 2,224 | ..... | ..... | ..... | ..... |
| | 1909 | 51 | 14,807 | 51 | 14,807 | ..... | ..... | ..... | ..... |
| Unrigged..... | 1919 | 632 | 408,661 | 595 | 341,000 | 62 | 48,994 | 65 | 18,501 |
| | 1916 | 699 | 223,173 | 664 | 215,807 | ..... | ..... | 35 | 7,366 |
| | 1914 | 619 | 192,890 | 596 | 174,580 | 82 | 9,872 | 31 | 6,438 |
| | 1909 | 877 | 219,026 | 839 | 205,738 | 17 | 12,082 | 21 | 1,806 |
| Power boats of less than 5 gross tons..... | 1919 | 1,716 | ..... | 1,150 | ..... | 206 | ..... | 351 | ..... |
| | 1916 | 3,710 | ..... | 3,606 | ..... | ..... | ..... | 104 | ..... |
| | 1914 | 4,518 | ..... | 3,706 | ..... | 758 | ..... | 54 | ..... |
| | 1909 | 9,042 | ..... | 8,577 | ..... | 412 | ..... | 53 | ..... |

¹Includes 122,457 tonnage reported as "displacement tonnage" instead of "gross tonnage."²Includes 14 concrete vessels, 18,034 gross tons.

Number and gross tonnage of vessels launched, by coast divisions and inland waters.—Table 14 gives, for private establishments in the shipbuilding industry, the number and gross tonnage of vessels launched, and the number of power boats built of less than 5 gross tons for 1919, 1916, and 1914. Statistics are presented for coastal areas and inland waters designated as follows:

1. The North Atlantic division which includes establishments located on the Atlantic seaboard and the navigable rivers of the New England states, and of New York, New Jersey, Pennsylvania, and Delaware.

2. The South Atlantic division which includes establishments located in Maryland, the District of Columbia, Virginia, North Carolina, South Carolina, Georgia, and on the east coast of Florida.

3. The Gulf division which includes establishments located on the Gulf of Mexico and on waters tributary to the Gulf, other than the Mississippi River, in the states of Florida, Alabama, Mississippi, Louisiana, and Texas.

4. The Pacific division which includes establishments located in the states of California, Oregon, and Washington.

5. The Great Lakes division which includes establishments in the territory bordering on the Great Lakes and the St. Lawrence River.

6. The division designated "Mississippi River and its tributaries" which includes establishments located on these rivers.

7. The division "Other inland waters" which includes establishments, chiefly boat-building plants, located on lakes and rivers other than those mentioned in the preceding groups. This division also includes establishments located on canals and engaged in the building of canal boats.

In 1919, 40.7 per cent of all tonnage launched in the United States, was constructed in the North Atlantic division, 30.2 per cent on the Pacific Coast, 15.6 per cent on the Great Lakes and all other inland waters, and 13.5 per cent in the South Atlantic and Gulf divisions.

TABLE 14.—NUMBER AND GROSS TONNAGE OF VESSELS LAUNCHED, BY COAST DIVISIONS AND INLAND WATERS: 1919, 1916, AND 1914.

| CLASS. | Census year. | United States. | COAST DIVISIONS. | | | | INLAND WATERS. | | |
|--|--------------|----------------|------------------|-----------------|-----------|-----------|----------------|--|----------------------|
| | | | North Atlantic. | South Atlantic. | Gulf. | Pacific. | Great Lakes. | Mississippi River and its tributaries. | Other inland waters. |
| Vessels of 5 gross tons and over: | | | | | | | | | |
| Number..... | 1919 | 2,033 | 781 | 205 | 164 | 419 | 354 | 95 | 15 |
| | 1916 | 1,377 | 597 | 138 | 87 | 223 | 89 | 234 | 9 |
| | 1914 | 1,113 | 401 | 99 | 126 | 231 | 82 | 153 | 21 |
| Gross tonnage..... | 1919 | 4,489,809 | 1,820,365 | 295,321 | 313,474 | 1,356,017 | 657,816 | 38,700 | 2,116 |
| | 1916 | 734,108 | 280,249 | 128,614 | 18,507 | 134,086 | 121,134 | 50,593 | 925 |
| | 1914 | 425,060 | 174,032 | 69,286 | 23,733 | 41,112 | 43,251 | 71,612 | 1,434 |
| Steel: | | | | | | | | | |
| Number..... | 1919 | 1,095 | 1,443 | 269 | 48 | 218 | 307 | 10 | ..... |
| | 1916 | 230 | 64 | 27 | 7 | 20 | 57 | 55 | ..... |
| | 1914 | 126 | 41 | 21 | 6 | 15 | 21 | 22 | ..... |
| Gross tonnage..... | 1919 | 3,784,201 | 1,647,627 | 240,663 | 7,148,200 | 1,089,441 | 595,416 | 12,854 | ..... |
| | 1916 | 485,880 | 136,909 | 108,929 | 1,090 | 102,119 | 118,000 | 17,313 | ..... |
| | 1914 | 242,959 | 108,042 | 60,114 | 1,931 | 23,973 | 39,929 | 8,970 | ..... |
| Wooden: | | | | | | | | | |
| Number..... | 1919 | 938 | 338 | 136 | 116 | 201 | 47 | 85 | 15 |
| | 1916 | 1,147 | 533 | 111 | 80 | 203 | 32 | 179 | 9 |
| | 1914 | 987 | 360 | 78 | 120 | 216 | 61 | 131 | 21 |
| Gross tonnage..... | 1919 | 755,608 | 178,738 | 54,658 | 165,274 | 266,576 | 62,400 | 25,846 | 2,110 |
| | 1916 | 248,248 | 143,340 | 19,685 | 16,517 | 31,967 | 2,534 | 33,280 | 925 |
| | 1914 | 182,101 | 68,590 | 9,172 | 21,802 | 17,139 | 3,322 | 62,642 | 1,434 |
| Steam: | | | | | | | | | |
| Number..... | 1919 | 1,203 | 458 | 90 | 58 | 269 | 324 | 4 | ..... |
| | 1916 | 186 | 68 | 22 | 7 | 33 | 46 | 20 | ..... |
| | 1914 | 139 | 44 | 13 | 4 | 22 | 29 | 20 | 2 |
| Gross tonnage..... | 1919 | 4,010,724 | 1,672,967 | 256,364 | 209,321 | 1,269,780 | 600,923 | 1,393 | ..... |
| | 1916 | 442,354 | 128,319 | 95,897 | 2,652 | 111,404 | 102,464 | 3,618 | ..... |
| | 1914 | 234,636 | 104,100 | 57,544 | 415 | 28,890 | 38,811 | 4,798 | 78 |
| Motor: | | | | | | | | | |
| Number..... | 1919 | 241 | 89 | 38 | 20 | 81 | 9 | 2 | 2 |
| | 1916 | 403 | 170 | 38 | 22 | 123 | 22 | 24 | 4 |
| | 1914 | 370 | 123 | 33 | 23 | 132 | 39 | 8 | 7 |
| Gross tonnage..... | 1919 | 57,174 | 17,931 | 1,143 | 23,958 | 13,791 | 243 | 50 | 58 |
| | 1916 | 29,866 | 7,052 | 13,960 | 466 | 7,315 | 479 | 549 | 45 |
| | 1914 | 10,821 | 2,221 | 593 | 1,909 | 4,996 | 972 | 86 | 44 |
| Sail with auxiliary power: | | | | | | | | | |
| Number..... | 1919 | 27 | 17 | ..... | 6 | 4 | ..... | ..... | ..... |
| | 1916 | 62 | 31 | 8 | 12 | 9 | 7 | ..... | ..... |
| | 1914 | 58 | 35 | 8 | 2 | 15 | 3 | ..... | ..... |
| Gross tonnage..... | 1919 | 17,754 | 1,977 | ..... | 4,651 | 11,126 | ..... | ..... | ..... |
| | 1916 | 30,625 | 2,854 | 1,420 | 4,565 | 9,985 | 11,771 | ..... | ..... |
| | 1914 | 2,799 | 1,746 | 56 | 72 | 835 | 90 | ..... | ..... |
| Sail without auxiliary power: | | | | | | | | | |
| Number..... | 1919 | 57 | 33 | 4 | 8 | 10 | ..... | 2 | ..... |
| | 1916 | 62 | 33 | 1 | 12 | 15 | 1 | ..... | ..... |
| | 1914 | 40 | 18 | 2 | 5 | 15 | ..... | ..... | ..... |
| Gross tonnage..... | 1919 | 63,091 | 33,612 | 4,323 | 7,748 | 17,378 | ..... | 30 | ..... |
| | 1916 | 15,455 | 9,395 | 75 | 2,298 | 1,368 | 2,320 | ..... | ..... |
| | 1914 | 2,224 | 1,844 | 64 | 194 | 122 | ..... | ..... | ..... |
| Unrigged: | | | | | | | | | |
| Number..... | 1919 | 505 | 184 | 73 | 72 | 55 | 21 | 87 | 13 |
| | 1916 | 664 | 305 | 74 | 34 | 43 | 13 | 190 | 5 |
| | 1914 | 508 | 181 | 43 | 87 | 47 | 11 | 125 | 12 |
| Gross tonnage..... | 1919 | 341,066 | 99,888 | 33,491 | 67,796 | 43,956 | 56,650 | 37,227 | 2,058 |
| | 1916 | 215,807 | 134,029 | 17,262 | 8,496 | 4,014 | 4,100 | 46,426 | 880 |
| | 1914 | 174,580 | 64,721 | 11,029 | 21,143 | 6,260 | 3,378 | 66,728 | 1,312 |
| Power boats of less than 5 gross tons..... | 1919 | 1,159 | 491 | 120 | 25 | 200 | 107 | 81 | 185 |
| | 1916 | 3,606 | 1,940 | 143 | 152 | 191 | 412 | 462 | 300 |
| | 1914 | 3,706 | 1,265 | 206 | 127 | 363 | 541 | 427 | 777 |

¹ Includes 6 concrete barges.

² Includes 1 composite vessel.

³ Includes 5 composite and 2 concrete vessels.

⁴ Includes 6 concrete and 3 composite vessels.

⁵ Includes 3,000 tons concrete vessels.

⁶ Includes 5,189 gross tons composite vessels.

⁷ Includes 15,686 gross tons composite and 12,574 tons concrete vessels.

⁸ Includes 2,400 tons concrete and 8,772 tons composite vessels.

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Steel power vessels launched, by class, by coast divisions and inland waters.—Table 15 shows the class, number, gross tonnage, and place where launched of all steel vessels built in the United States in 1919, exclusive of Government vessels.

The greatest tonnage, 450,574, was launched in Newark, N. J., and the second greatest tonnage, 390,698, in Seattle, Wash. While Newark holds first place in aggregate tonnage, the vessels launched in Seattle were of larger average tonnage, the figures being 4,210 and 6,301, respectively.

TABLE 15.—STEEL POWER VESSELS LAUNCHED, BY CLASS, BY COAST DIVISIONS AND INLAND WATERS: 1919.

| DIVISION. | TOTAL. | | | | SCREW. | | | | STERN-WHEEL STEAM. | |
|--|----------|-----------|----------|----------|----------|-----------|----------|----------|--------------------|----------|
| | Steam. | | Motor. | | Steam. | | Motor. | | Num-ber. | Tonnage. |
| | Num-ber. | Tonnage. | Num-ber. | Tonnage. | Num-ber. | Tonnage. | Num-ber. | Tonnage. | | |
| United States ¹ | 999 | 3,670,617 | 46 | 24,780 | 982 | 3,599,107 | 46 | 24,780 | 17 | 71,420 |
| North Atlantic..... | 397 | 1,021,472 | 20 | 15,703 | 396 | 1,021,072 | 29 | 15,703 | 1 | 400 |
| South Atlantic..... | 67 | 236,480 | ..... | ..... | 66 | 231,291 | ..... | ..... | 1 | 5,189 |
| Gulf..... | 33 | 137,224 | 4 | 627 | 32 | 133,624 | 4 | 627 | 1 | 3,600 |
| Pacific..... | 204 | 1,080,981 | 13 | 8,450 | 194 | 1,020,321 | 13 | 8,450 | 10 | 60,660 |
| Great Lakes..... | 295 | 593,236 | ..... | ..... | 294 | 592,889 | ..... | ..... | 1 | 377 |
| Mississippi River and its tributaries..... | 3 | 1,194 | ..... | ..... | ..... | ..... | ..... | ..... | 3 | 1,194 |

¹ Includes 14 concrete vessels, 18,034 gross tons.

Gross tonnage and kind of service of vessels launched.—Table 16 presents, by coast divisions and inland waters, the gross tonnage of vessels launched during 1919, according to the service in which vessels are to be used. In this and the following tables data do not include the products of Government shipyards.

The bulk of the shipbuilding in the United States has been the tonnage for freight service, which em-

braces the foreign, coastwise, and domestic trade, and includes freight tonnage carrying passengers. This class of tonnage represented 81.4 per cent of the entire tonnage launched in 1919.

Tankers for the carriage of oil in bulk show a remarkable increase, the tonnage launched in 1919 being 346,253 as compared with 26,655 in 1916.

TABLE 16.—GROSS TONNAGE AND KIND OF SERVICE OF VESSELS LAUNCHED: 1919.

| CHARACTER OF SERVICE. | United States. | COAST DIVISIONS. | | | | INLAND WATERS. | | |
|-------------------------|----------------|------------------|-----------------|---------|-----------|----------------|--|----------------------|
| | | North Atlantic. | South Atlantic. | Gulf. | Pacific. | Great Lakes. | Mississippi River and its tributaries. | Other inland waters. |
| Total tonnage..... | 4,489,809 | 1,826,365 | 295,321 | 313,474 | 1,955,017 | 657,816 | 38,700 | 2,110 |
| Passenger..... | 40,895 | 40,589 | 305 | ..... | 1,105,254 | 608,109 | 29,082 | 1,200 |
| Freight..... | 3,655,544 | 1,515,197 | 150,907 | 218,135 | 1,101 | 8,049 | 583 | 50 |
| Towing..... | 40,195 | 16,156 | 5,402 | 8,254 | ..... | ..... | ..... | ..... |
| Ferry..... | 1,663 | 1,229 | 13 | ..... | 421 | ..... | 7,475 | ..... |
| Tanker..... | 346,253 | 87,810 | 110,247 | 20,224 | 129,997 | ..... | ..... | ..... |
| Fishing..... | 5,866 | 3,288 | 458 | 7 | 1,721 | 394 | ..... | ..... |
| Canal..... | 13,555 | 12,575 | 120 | ..... | 12 | ..... | ..... | 848 |
| U. S. Government..... | 359,658 | 144,072 | 8,513 | 39,705 | 126,223 | 40,246 | 900 | ..... |
| Foreign government..... | 18,960 | 100 | 18,890 | ..... | ..... | ..... | 10 | ..... |
| Yacht..... | 1,481 | 837 | ..... | 149 | 53 | 58 | 50 | 18 |
| All other..... | 5,789 | 5,014 | 121 | ..... | 236 | 300 | ..... | ..... |
| Steel tonnage..... | 3,734,201 | 1,647,027 | 240,603 | 148,200 | 1,089,441 | 595,416 | 12,854 | ..... |
| Passenger..... | 40,500 | 40,500 | 300 | ..... | 1,089,441 | 595,416 | 12,854 | ..... |
| Freight..... | 3,110,484 | 1,387,832 | 103,296 | 128,368 | 930,159 | 553,689 | 7,860 | 1,200 |
| Towing..... | 17,398 | 11,477 | 285 | 1,108 | ..... | 4,234 | 204 | 50 |
| Ferry..... | 1,215 | 1,215 | ..... | ..... | ..... | ..... | 4,000 | ..... |
| Tanker..... | 329,999 | 78,031 | 110,247 | 19,724 | 120,997 | ..... | ..... | ..... |
| Fishing..... | 1,719 | 1,342 | ..... | ..... | ..... | 377 | ..... | ..... |
| Canal..... | 3,000 | 3,000 | ..... | ..... | ..... | ..... | 900 | ..... |
| U. S. Government..... | 210,864 | 124,530 | 7,978 | 2,000 | 38,203 | 37,136 | ..... | ..... |
| Foreign government..... | 18,960 | 100 | 18,890 | ..... | ..... | ..... | 10 | ..... |
| Yacht..... | 72 | 50 | ..... | ..... | 22 | ..... | 50 | 18 |
| All other..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Wooden tonnage..... | 755,608 | 178,738 | 54,658 | 165,274 | 266,576 | 62,400 | 25,846 | 2,116 |
| Passenger..... | 395 | 80 | 300 | ..... | ..... | ..... | ..... | ..... |
| Freight..... | 545,000 | 127,865 | 47,611 | 116,767 | 175,095 | 54,500 | 22,022 | 1,200 |
| Towing..... | 22,797 | 4,679 | 5,117 | 7,146 | 1,101 | 4,415 | 289 | 50 |
| Ferry..... | 448 | 14 | 13 | ..... | 421 | ..... | 3,475 | ..... |
| Tanker..... | 10,254 | 9,279 | ..... | 8,500 | ..... | ..... | ..... | ..... |
| Fishing..... | 4,147 | 1,044 | 458 | 7 | 1,721 | 17 | ..... | ..... |
| Canal..... | 10,555 | 9,575 | 120 | ..... | 12 | ..... | ..... | 848 |
| U. S. Government..... | 148,894 | 19,402 | 538 | 37,705 | 87,959 | 3,110 | ..... | ..... |
| Yacht..... | 1,409 | 787 | 374 | 149 | 31 | 58 | 10 | ..... |
| All other..... | 5,739 | 5,014 | 121 | ..... | 236 | 300 | 50 | 18 |

Vessels launched, grouped according to tonnage.—Table 17 shows, by classes, the number and gross tonnage of vessels launched during 1919 and 1916, grouped according to tonnage.

TABLE 17.—VESSELS LAUNCHED, GROUPED ACCORDING TO TONNAGE: 1919 AND 1916.

| CLASS. | Census year. | TOTAL. | | LESS THAN 100 GROSS TONS. | | 100 BUT LESS THAN 500 GROSS TONS. | | 500 BUT LESS THAN 1,000 GROSS TONS. | | 1,000 BUT LESS THAN 3,000 GROSS TONS. | | 3,000 GROSS TONS AND OVER. | |
|----------------------|--------------|----------|-----------|---------------------------|--------|-----------------------------------|---------|-------------------------------------|---------|---------------------------------------|-----------|----------------------------|-----------|
| | | Num-ber. | Tons. | Num-ber. | Tons. | Num-ber. | Tons. | Num-ber. | Tons. | Num-ber. | Tons. | Num-ber. | Tons. |
| Total..... | 1919 | 2,033 | 4,480,809 | 276 | 8,906 | 420 | 115,434 | 233 | 151,480 | 513 | 1,145,099 | 591 | 3,038,890 |
| | 1916 | 1,377 | 734,108 | 610 | 17,878 | 503 | 144,561 | 141 | 97,797 | 49 | 75,920 | 74 | 397,952 |
| Steel..... | 1919 | 1,095 | 3,734,201 | 12 | 508 | 71 | 24,203 | 144 | 93,093 | 343 | 812,999 | 525 | 2,803,893 |
| | 1916 | 230 | 485,860 | 18 | 890 | 95 | 29,493 | 21 | 15,099 | 22 | 42,426 | 74 | 397,952 |
| Steam and motor..... | 1919 | 1,045 | 3,695,397 | 9 | 338 | 48 | 13,655 | 133 | 86,964 | 331 | 780,116 | 524 | 2,799,324 |
| | 1916 | 151 | 442,091 | 17 | 810 | 36 | 10,277 | 10 | 6,689 | 14 | 27,263 | 74 | 397,952 |
| Sail..... | 1919 | 3 | 1,924 | | | 1 | 460 | 2 | 1,464 | | | | |
| | 1916 | 8 | 14,191 | | | 1 | 128 | | | 7 | 14,063 | | |
| Unrigged..... | 1919 | 47 | 36,880 | 3 | 170 | 22 | 5,088 | 49 | 4,665 | 12 | 22,883 | 1 | 4,074 |
| | 1916 | 71 | 28,678 | 1 | 80 | 58 | 19,088 | 11 | 8,410 | 1 | 1,100 | | |
| Wooden..... | 1919 | 938 | 755,608 | 264 | 8,398 | 349 | 91,231 | 89 | 58,387 | 170 | 332,100 | 66 | 265,492 |
| | 1916 | 1,147 | 248,248 | 502 | 16,938 | 408 | 115,068 | 120 | 82,698 | 27 | 33,494 | | |
| Steam and motor..... | 1919 | 399 | 372,501 | 180 | 5,930 | 85 | 21,357 | 8 | 4,027 | 74 | 188,163 | 43 | 152,424 |
| | 1916 | 438 | 29,229 | 390 | 9,133 | 33 | 6,060 | 8 | 0,438 | 7 | 7,598 | | |
| Sail..... | 1919 | 81 | 78,921 | 17 | 299 | 10 | 2,255 | 13 | 9,203 | 37 | 54,564 | 4 | 12,600 |
| | 1916 | 116 | 31,830 | 77 | 1,869 | 12 | 2,204 | 17 | 11,921 | 10 | 15,896 | | |
| Unrigged..... | 1919 | 458 | 304,186 | 58 | 2,169 | 254 | 67,619 | 68 | 44,557 | 59 | 89,373 | 19 | 100,468 |
| | 1916 | 593 | 187,129 | 125 | 5,996 | 363 | 109,804 | 95 | 64,339 | 10 | 10,000 | | |

¹ Includes 5 concrete vessels, 2,450 gross tons.
² Includes 2 concrete vessels, 12,574 gross tons.

³ Includes 1 concrete vessel, 10 gross tons.
⁴ Includes 6 concrete vessels, 3,000 gross tons.

The group "3,000 tons and over" (3,000 tons being virtually the minimum tonnage for oversea trade), shows, in 1916, 5.4 per cent for number and 54.2 per cent for tonnage, as compared with 29.1 per cent and 68.4 per cent, respectively, in 1919. In the first group mentioned only 12 of the vessels were constructed of steel, while in the group of "3,000 tons and over," out of a total of 591 vessels 525 were of steel construction.

Vessels launched, by states.—Table 18 gives, by states, the total number and gross tonnage of all vessels launched in 1919, 1916, and 1914, by establishments in the shipbuilding industry, exclusive of Government shipyards.

Of the total number of vessels launched, of 5 tons and over, New York built the largest number in 1919, as well as in 1916 and 1914, but in total tonnage launched, New York was outranked by Pennsylvania, Washington, New Jersey, and California, in the order named. The combined tonnage of these four states, in 1919, amounted to 2,417,378, or over one-half of the entire tonnage launched in the United States.

The largest average tonnage per vessel, 3,766, was launched in Pennsylvania, closely followed by Oregon and New Jersey, with 3,512 and 3,382 tons, respectively.

Steam vessels launched.—Table 19 shows, by states, the number and the gross and net tonnage of steam vessels of 5 tons and over, launched in private shipyards in 1919, 1916 and 1914.

In 1919 Pennsylvania, New Jersey, Washington, and California led in the order named, and their combined tonnage represented 2,340,807 gross tons, or 58.4 per cent of the total for steam vessels of 5 tons and over, launched in private yards. In 1916 the leading states in respect to tonnage were California, Virginia, Ohio, and Pennsylvania, in the order named.

TABLE 18.—VESSELS LAUNCHED, BY STATES: 1919, 1916, AND 1914.

| STATE. | 1919 | | 1916 | | 1914 | |
|-----------------------|----------|-----------|----------|----------|----------|----------|
| | Num-ber. | Tonnage. | Num-ber. | Tonnage. | Num-ber. | Tonnage. |
| United States..... | 2,033 | 4,480,809 | 1,377 | 734,108 | 1,113 | 425,060 |
| Alabama..... | 43 | 62,967 | (3) | | (3) | |
| California..... | 162 | 508,986 | 118 | 89,108 | 88 | 31,500 |
| Connecticut..... | 31 | 71,922 | 18 | 3,365 | 19 | 1,995 |
| Delaware..... | 21 | 42,365 | 44 | 25,472 | 10 | 6,624 |
| Florida..... | 62 | 109,553 | 45 | 6,614 | 22 | 1,141 |
| Georgia..... | 36 | 38,528 | (3) | | (3) | |
| Indiana..... | 13 | 5,675 | (3) | | (3) | |
| Kentucky..... | 8 | 1,990 | 65 | 16,163 | 51 | 40,000 |
| Louisiana..... | 47 | 70,909 | 40 | 11,974 | 73 | 17,501 |
| Maine..... | 82 | 87,804 | 45 | 15,486 | 43 | 3,072 |
| Maryland..... | 104 | 153,795 | 66 | 57,767 | 58 | 36,961 |
| Michigan..... | 131 | 203,602 | 29 | 38,340 | 21 | 12,405 |
| New Jersey..... | 180 | 608,843 | 75 | 33,762 | 65 | 57,866 |
| New York..... | 267 | 292,445 | 337 | 111,709 | 220 | 49,911 |
| North Carolina..... | 3 | 345 | 8 | 2,288 | 11 | 730 |
| Ohio..... | 92 | 184,052 | 54 | 74,320 | 85 | 36,824 |
| Oregon..... | 62 | 217,759 | 36 | 11,652 | 41 | 2,465 |
| Pennsylvania..... | 178 | 670,277 | 128 | 71,836 | 56 | 30,533 |
| Rhode Island..... | 7 | 305 | (3) | | (3) | |
| Texas..... | 37 | 86,404 | 12 | 2,265 | 29 | 4,293 |
| Virginia..... | 33 | 70,556 | 36 | 63,943 | 24 | 31,538 |
| Washington..... | 195 | 634,272 | 69 | 33,326 | 102 | 7,117 |
| West Virginia..... | 2 | 120 | (3) | | (3) | |
| Wisconsin..... | 78 | 105,854 | 21 | 13,436 | 29 | 3,048 |
| All other states..... | 159 | 260,481 | 181 | 51,812 | 116 | 49,506 |

¹ Exclusive of 64 vessels, with an aggregate gross tonnage of 51,970, launched by establishments in other industries.

² Exclusive of 94 vessels, with an aggregate gross tonnage of 13,654, launched by establishments in other industries.

³ Included in "All other states."

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TABLE 19.—STEAM VESSELS LAUNCHED, BY STATES: 1919, 1916, AND 1914.

| STATE. | 1919 | | | 1916 | | | 1914 | | |
|-----------------------|----------|-----------|-----------|------------------|----------|---------|------------------|----------|---------|
| | Num-ber. | Tonnage. | | Num-ber. | Tonnage. | | Num-ber. | Tonnage. | |
| | | Gross. | Net. | | Gross. | Net. | | Gross. | Net. |
| United States..... | 1,203 | 4,010,724 | 2,366,772 | 186 | 442,354 | 297,724 | 139 | 234,636 | 176,094 |
| Alabama..... | 11 | 39,328 | 22,917 | (²) | | | (²) | | |
| California..... | 108 | 489,823 | 305,677 | 18 | 82,766 | 46,622 | 9 | 26,420 | 17,490 |
| Connecticut..... | 19 | 59,735 | 39,645 | (²) | | | (²) | | |
| Delaware..... | 16 | 38,865 | 23,517 | 8 | 13,965 | 9,642 | 8 | 6,266 | 3,796 |
| Florida..... | 21 | 92,896 | 57,930 | (²) | | | (²) | | |
| Georgia..... | 33 | 32,852 | 7,509 | (²) | | | (²) | | |
| Louisiana..... | 19 | 55,375 | 12,406 | (²) | | | (²) | | |
| Maine..... | 19 | 40,387 | 23,436 | 5 | 3,417 | 2,957 | 5 | 1,400 | 1,317 |
| Maryland..... | 33 | 129,900 | 78,635 | 13 | 32,861 | 20,513 | 11 | 27,368 | 16,794 |
| Michigan..... | 126 | 207,852 | 121,648 | 13 | 35,945 | 23,303 | 6 | 11,612 | 7,273 |
| New Jersey..... | 160 | 603,543 | 321,661 | 6 | 20,331 | 12,021 | 6 | 41,182 | 36,137 |
| New York..... | 78 | 107,816 | 97,648 | 17 | 3,281 | 2,595 | 19 | 3,036 | 1,900 |
| Ohio..... | 76 | 179,246 | 108,461 | 17 | 52,046 | 41,154 | 6 | 26,205 | 19,778 |
| Oregon..... | 47 | 186,754 | 115,698 | 5 | 4,719 | 3,209 | 5 | 251 | 171 |
| Pennsylvania..... | 123 | 654,252 | 417,709 | 19 | 49,089 | 31,407 | 18 | 23,547 | 23,374 |
| Texas..... | 14 | 37,379 | 22,628 | (²) | | | (²) | | |
| Virginia..... | 14 | 69,595 | 44,086 | 8 | 62,778 | 47,703 | 7 | 30,176 | 22,696 |
| Washington..... | 114 | 593,189 | 406,131 | 12 | 23,919 | 16,258 | 8 | 2,210 | 1,453 |
| Wisconsin..... | 74 | 104,654 | 61,730 | 12 | 12,415 | 7,917 | 6 | 362 | 251 |
| All other states..... | 98 | 226,283 | 77,700 | 35 | 44,822 | 32,423 | 25 | 34,672 | 22,494 |

¹ Includes 2 concrete vessels, 12,574 gross tons.² Included in "All other states."

Motor vessels launched, including sail vessels with auxiliary power, by states.—Table 20 shows, by states, the number and the gross and net tonnage of motor vessels, including sail vessels with auxiliary power, of 5 gross tons and over, launched in private shipyards in 1919, 1916, and 1914.

TABLE 20.—MOTOR VESSELS LAUNCHED, INCLUDING SAIL VESSELS WITH AUXILIARY POWER, BY STATES: 1919, 1916, AND 1914.

| STATE. | Census year. | Num-ber. | TONNAGE. | |
|--------------------------------|--------------|----------|----------|--------|
| | | | Gross. | Net. |
| United States..... | 1919 | 268 | 74,928 | 44,919 |
| | 1916 | 465 | 60,491 | 45,251 |
| | 1914 | 428 | 13,620 | 9,974 |
| Motor..... | 1919 | 241 | 57,174 | 29,565 |
| | 1916 | 403 | 20,866 | 19,198 |
| | 1914 | 370 | 10,821 | 7,789 |
| Sail with auxiliary power..... | 1919 | 27 | 17,754 | 15,354 |
| | 1916 | 62 | 30,625 | 26,053 |
| | 1914 | 58 | 2,799 | 2,185 |
| California..... | 1919 | 36 | 17,047 | 662 |
| | 1916 | 76 | 3,511 | 2,003 |
| | 1914 | 70 | 2,815 | 1,971 |
| Connecticut..... | 1919 | 7 | 3,540 | 25 |
| | 1916 | 10 | 1,174 | 1,132 |
| | 1914 | 12 | 180 | 127 |
| Florida..... | 1919 | 20 | 4,203 | 3,133 |
| | 1916 | 15 | 194 | 149 |
| | 1914 | 15 | 247 | 177 |
| Louisiana..... | 1919 | 7 | 712 | 462 |
| | 1916 | 14 | 3,017 | 2,767 |
| | 1914 | 13 | 1,593 | 1,301 |
| Maine..... | 1919 | 22 | 3,179 | 2,423 |
| | 1916 | 23 | 1,812 | 1,469 |
| | 1914 | 34 | 541 | 339 |
| Maryland..... | 1919 | 9 | 168 | 126 |
| | 1916 | 20 | 14,997 | 10,003 |
| | 1914 | 6 | 194 | 114 |
| New Jersey..... | 1919 | 16 | 785 | 64 |
| | 1916 | 45 | 1,022 | 800 |
| | 1914 | 22 | 1,419 | 1,256 |
| New York..... | 1919 | 25 | 3,070 | 1,827 |
| | 1916 | 72 | 1,735 | 1,379 |
| | 1914 | 60 | 958 | 653 |

¹ Includes 5,978 displacement tonnage.² Includes 3,560 displacement tonnage.

TABLE 20.—MOTOR VESSELS LAUNCHED, INCLUDING SAIL VESSELS WITH AUXILIARY POWER, BY STATES: 1919, 1916 AND 1914—Continued.

| STATE. | Census year. | Num-ber. | TONNAGE. | |
|-----------------------|--------------|------------------|----------|--------|
| | | | Gross. | Net. |
| North Carolina..... | 1919 | 2 | 85 | 55 |
| | 1916 | 2 | 81 | 61 |
| | 1914 | 8 | 175 | 121 |
| Ohio..... | 1919 | 1 | 6 | 4 |
| | 1916 | 12 | 11,974 | 9,424 |
| | 1914 | 6 | 129 | 89 |
| Oregon..... | 1919 | 2 | 36 | 24 |
| | 1916 | 14 | 6,205 | 5,875 |
| | 1914 | 7 | 317 | 234 |
| Pennsylvania..... | 1919 | 3 | 373 | 335 |
| | 1916 | 5 | 116 | 111 |
| | 1914 | 8 | 66 | 52 |
| Rhode Island..... | 1919 | 6 | 205 | 140 |
| | 1916 | (²) | | |
| | 1914 | (²) | | |
| Texas..... | 1919 | 9 | 17,031 | 15,625 |
| | 1916 | 6 | 1,925 | 1,566 |
| | 1914 | 9 | 198 | 124 |
| Virginia..... | 1919 | 14 | 401 | 240 |
| | 1916 | 12 | 183 | 180 |
| | 1914 | 11 | 118 | 72 |
| Washington..... | 1919 | 47 | 17,834 | 13,971 |
| | 1916 | 42 | 7,584 | 5,910 |
| | 1914 | 70 | 2,699 | 2,032 |
| Wisconsin..... | 1919 | 1 | 50 | 30 |
| | 1916 | 7 | 221 | 183 |
| | 1914 | 15 | 413 | 331 |
| All other states..... | 1919 | 41 | 16,205 | 5,773 |
| | 1916 | 90 | 4,740 | 2,239 |
| | 1914 | 62 | 1,568 | 981 |

² Included in "All other states."

Motor vessels were reported separately for the first time in 1904, at which time they numbered 311, and averaged slightly over 10 gross tons in size. In 1909 their average capacity was 21 tons; in 1914, about 29 tons; in 1916, nearly 75 tons; and in 1919, over 237 tons. The change from 1904 to 1919 in the size of motor craft is due to the building of internal-combus-

tion engines of larger units, of improved reliability and compactness, making them practical for use in larger vessels. A much smaller number of motor vessels were built in 1919 than in 1916, owing to the fact that the energies of the various shipbuilding establishments were directed to the construction of large steam vessels for freight purposes. While there was a decline in number, there was an increase in total tonnage of 27,308 gross tons.

Sail vessels with auxiliary power launched, by states.—Table 21 shows for 1919, by states, the number and tonnage of sail vessels with auxiliary power, included in motor craft in Table 20.

TABLE 21.—SAIL VESSELS WITH AUXILIARY POWER LAUNCHED, BY STATES: 1919.

| STATE. | Num-ber. | TONNAGE. | |
|-----------------------|----------|----------|--------|
| | | Gross. | Net. |
| Total..... | 27 | 17,754 | 15,354 |
| Florida..... | 3 | 2,020 | 1,491 |
| Maine..... | 4 | 1,343 | 1,213 |
| Texas..... | 3 | 2,631 | 2,425 |
| Washington..... | 4 | 11,126 | 9,890 |
| All other states..... | 13 | 634 | 335 |

Sail vessels without auxiliary power launched, by states.—Table 22 gives for the United States, for 1919, 1916, and 1914 and for selected states separately for 1919, the number and the gross and net tonnage of sail vessels, without auxiliary power, of 5 gross tons and over, launched in private shipyards.

TABLE 22.—SAIL VESSELS WITHOUT AUXILIARY POWER LAUNCHED, BY STATES: 1919.

| STATE. | Num-ber. | TONNAGE. | |
|-----------------------|-------------------------------------|---------------------------|---------------------------|
| | | Gross. | Net. |
| United States..... | 1919.. 57 1916.. 62 1914.. 40 | 63,091 15,456 2,224 | 54,119 14,048 1,874 |
| California..... | 4 | 4,173 | 3,677 |
| Connecticut..... | 1 | 1,547 | 1,388 |
| Florida..... | 4 | 1,764 | 1,396 |
| Georgia..... | 2 | 2,176 | 1,896 |
| Maine..... | 26 | 27,561 | 25,128 |
| Maryland..... | 2 | 2,147 | 1,970 |
| New York..... | 2 | 3,424 | 3,295 |
| Oregon..... | 1 | 1,728 | 1,554 |
| Texas..... | 2 | 4,450 | 3,660 |
| Washington..... | 5 | 11,477 | 8,113 |
| All other states..... | 8 | 2,644 | 2,042 |

Unrigged vessels launched, by states.—Table 23 gives for the United States the number and gross and net tonnage of unrigged vessels launched by private shipyards in 1919, 1916, and 1914. Comparative statistics are shown for states where available.

Floating dry docks, floating coal docks, and scows constructed for a single trip are not included in this table. There are, however, a considerable number of sand and mud scows, coal boats and lighters, dredges, and pile drivers included in the statistics.

There were constructed in 1919 about the same number of unrigged vessels as in 1914, but 159 fewer than in 1916. The gross tonnage increased from 174,580 in 1914 to 341,066 in 1919, and the average tonnage per vessel from about 345 to a little over 675.

The principal state in the construction of unrigged craft in 1919, as well as in 1916 and 1914, was New York. Oregon ranked second in 1919 in gross tonnage and Texas third. The states showing increases over 1916, in both number and tonnage, are Louisiana, Maryland, Oregon, and Washington.

TABLE 23.—UNRIGGED VESSELS LAUNCHED, BY STATES: 1919, 1916, AND 1914.

| STATE. | Census year. | Num-ber. | TONNAGE. | |
|-----------------------|----------------------|---------------------|-------------------------------|-------------------------------|
| | | | Gross. | Net. |
| United States..... | 1919 1916 1914 | 1505 664 1506 | 341,066 216,807 174,580 | 322,294 197,018 156,397 |
| Alabama..... | 1919 | 32 | 23,639 | 21,660 |
| California..... | 1919 1916 1914 | 14 26 8 | 2,943 2,831 2,255 | 2,873 2,811 1,610 |
| Connecticut..... | 1919 | 4 | 7,100 | 3,740 |
| Delaware..... | 1919 | 5 | 3,500 | 1,750 |
| Florida..... | 1919 | 17 | 10,690 | 10,529 |
| Indiana..... | 1919 | 13 | 5,675 | 5,675 |
| Kentucky..... | 1919 1916 1914 | 7 59 47 | 1,970 15,880 39,968 | 1,970 15,843 24,983 |
| Louisiana..... | 1919 1916 1914 | 21 19 58 | 13,822 6,422 16,848 | 13,563 6,237 15,748 |
| Maine..... | 1919 | 15 | 16,677 | 15,822 |
| Maryland..... | 1919 1916 1914 | 60 32 39 | 21,582 9,834 9,335 | 20,098 9,834 9,305 |
| Michigan..... | 1919 | 5 | 750 | 750 |
| New Jersey..... | 1919 1916 1914 | 4 20 35 | 4,515 10,911 16,225 | 4,515 10,911 14,956 |
| New York..... | 1919 1916 1914 | 162 246 136 | 118,135 106,067 45,869 | 117,497 105,188 45,106 |
| Ohio..... | 1919 1916 1914 | 15 24 23 | 4,800 7,980 10,490 | 4,800 7,626 9,490 |
| Oregon..... | 1919 1916 1914 | 12 3 15 | 29,241 560 1,815 | 23,262 560 1,665 |
| Pennsylvania..... | 1919 1916 1914 | 52 103 30 | 15,652 22,616 6,920 | 15,622 7,463 6,920 |
| Texas..... | 1919 | 12 | 27,544 | 26,594 |
| Virginia..... | 1919 1916 1914 | 5 16 6 | 560 982 1,244 | 560 953 1,244 |
| Washington..... | 1919 1916 1914 | 29 14 24 | 11,772 623 2,199 | 11,772 503 2,199 |
| Wisconsin..... | 1919 | 3 | 1,150 | 1,150 |
| All other states..... | 1919 1916 1914 | 18 102 85 | 19,349 30,501 23,422 | 18,092 29,094 22,871 |

¹ Exclusive of 62 vessels with an aggregate gross tonnage of 48,904, launched by establishments in other industries.

² Exclusive of 82 vessels with an aggregate gross tonnage of 9,872 tons, launched by establishments in other industries.

³ Includes 6 concrete vessels, 3,000 gross tons.

⁴ Includes 1 concrete vessel, 10 gross tons.

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Power boats, less than 5 gross tons, by states.—Table 24 shows, for the United States and for states separately, for 1919 and 1916, the number of power boats built of less than 5 gross tons.

Pennsylvania, New Jersey, and California were the leading states, in the order named, in 1919, in the manufacture of small power boats.

TABLE 24.—POWER BOATS (LESS THAN 5 GROSS TONS), BY STATES: 1919 AND 1916.

| STATE. | NUMBER. | | STATE. | NUMBER. | |
|------------------|---------|------------------|-----------------------|---------|------------------|
| | 1919 | 1916 | | 1919 | 1916 |
| United States... | 1,150 | 3,606 | New York..... | 97 | 337 |
| California..... | 108 | 66 | Ohio..... | 4 | 308 |
| Connecticut..... | 18 | 100 | Oregon..... | 40 | (¹) |
| Florida..... | 90 | 157 | Pennsylvania..... | 104 | 28 |
| Indiana..... | 5 | (²) | Rhode Island..... | 2 | 13 |
| Maine..... | 57 | 198 | Texas..... | 7 | (³) |
| Maryland..... | 28 | 51 | Virginia..... | 15 | 21 |
| Michigan..... | 50 | 172 | Washington..... | 43 | 52 |
| New Jersey..... | 130 | 187 | Wisconsin..... | 45 | 109 |
| | | | All other states..... | 247 | 1,807 |

¹ Included in "All other states."

Value of work done.—The construction of a vessel frequently takes more than a year; therefore, many vessels launched during the census year were started in previous years, and some upon which work was started during the census year were not finished during that year. For this reason the Census Bureau did not require the shipbuilders to report the value of the vessels launched, but only the value of the work done during the census year and the amount received for repair work. For the smaller vessels, those of less than 5 gross tons, the value of work done during the year corresponds very closely with the value of the craft launched.

Table 25 shows the value of the construction work done, the amount received for repair work, and the value of all other work done by shipbuilding establishments, both private and Government, in 1919, 1916, 1914, and 1909, and in private establishments in other industries for 1919, 1914, and 1909,

The value of work done during the year on new vessels and boats in all shipyards increased from \$114,434,137 in 1916 to \$1,446,789,596 in 1919. These figures indicate the impetus given the shipbuilding industry by the World War. The value of work done on new vessels of 5 gross tons and over in private establishments amounted to \$105,270,935 in 1916 and \$1,391,688,655 in 1919, an increase of \$1,286,417,720. Repair work amounted to \$183,721,737 in 1919, which was \$120,213,223 in excess of that reported in 1916. All other work done, which includes work on engines and the making of masts, oars, spars, etc., increased from \$17,072,743 in 1916 to \$46,950,869 in 1919. The value of all kinds of work done in Government shipyards shows large increases between 1916 and 1919.

TABLE 25.—VALUE OF WORK DONE: 1919, 1916, 1914, AND 1909.

| KIND OF WORK. | Census year. | VALUE. | | | |
|---|--------------|---------------------|--|---|-----------------------|
| | | All establishments. | Private establishments in the shipbuilding industry. | Private establishments in other industries. | Government shipyards. |
| Total..... | 1919 | \$1,865,728,609 | \$1,622,361,261 | \$3,784,105 | \$230,603,243 |
| | 1916 | 224,526,683 | 185,852,192 | (¹) | 38,674,491 |
| | 1914 | 119,423,028 | 88,682,071 | 1,523,692 | 29,217,265 |
| | 1909 | 100,009,054 | 73,360,315 | 776,706 | 26,872,033 |
| Work on new vessels and boats, all kinds. | 1919 | 1,446,789,596 | 1,391,688,655 | 3,317,305 | 61,783,636 |
| | 1916 | 114,434,137 | 105,270,935 | (²) | 9,163,202 |
| | 1914 | 52,401,805 | 46,334,134 | 1,279,630 | 4,788,041 |
| | 1909 | 46,036,492 | 42,310,925 | 594,244 | 2,131,323 |
| Vessels of 5 gross tons and over. | 1919 | 1,439,443,338 | 1,386,839,158 | 2,670,433 | 49,933,747 |
| | 1916 | 110,343,073 | 101,531,210 | (³) | 8,811,803 |
| | 1914 | 48,108,661 | 42,545,445 | 947,805 | 4,612,311 |
| | 1909 | 40,145,084 | 37,718,018 | 449,089 | 1,977,977 |
| Boats of less than 5 gross tons. | 1919 | 7,346,265 | 4,849,497 | 646,872 | 1,849,889 |
| | 1916 | 4,091,064 | 3,739,725 | (⁴) | 351,339 |
| | 1914 | 4,230,244 | 3,788,689 | 331,825 | 175,730 |
| | 1909 | 4,801,408 | 4,592,907 | 145,155 | 153,346 |
| Repair work..... | 1919 | 272,355,050 | 183,721,737 | 200,400 | 88,436,519 |
| | 1916 | 71,227,368 | 63,508,514 | (⁵) | 7,716,854 |
| | 1914 | 36,966,070 | 32,835,212 | 189,777 | 3,945,637 |
| | 1909 | 38,304,058 | 26,078,643 | 80,461 | 1,545,564 |
| All other work done..... | 1919 | 146,580,357 | \$ 46,950,869 | 240,400 | \$9,383,088 |
| | 1916 | 38,897,178 | \$ 17,072,743 | (⁶) | \$ 21,794,435 |
| | 1914 | 30,054,547 | \$ 9,512,725 | 58,286 | 20,483,537 |
| | 1909 | 10,697,904 | 4,370,747 | 102,001 | 12,195,166 |

¹ Not reported in 1916.

² Includes work on concrete vessels to the value of \$7,018,955.

³ Includes work on engines to the value of \$20,447,019.

⁴ Includes work on engines to the value of \$3,335,065.

⁵ Includes work on engines to the value of \$4,408,763.

⁶ Includes work on engines to the value of \$299,270.

⁷ Includes work on engines to the value of \$169,141.

Value of work done by private establishments in the shipbuilding industry.—Table 26 shows the total value of the work done in the privately operated shipbuilding establishments in 1919, 1916, 1914, and 1909; the total being subdivided so as to show the value of work on new vessels, the amount received for repair work, and the value of all other work done during the year. Government shipyards and establishments in other industries doing incidental work on ships and boats are not included.

TABLE 26.—VALUE OF WORK DONE BY PRIVATE ESTABLISHMENTS IN THE SHIPBUILDING INDUSTRY: 1919, 1916, 1914, AND 1909.

| KIND OF WORK. | VALUE. | | | |
|---|-----------------|---------------|--------------|--------------|
| | 1919 | 1916 | 1914 | 1909 |
| Total..... | \$1,622,361,261 | \$185,852,192 | \$88,682,071 | \$73,360,315 |
| Work done during the year on new vessels and boats. | 1,391,688,655 | 105,270,935 | 46,334,134 | 42,310,925 |
| Vessels of 5 gross tons and over. | 1,386,839,158 | 101,531,210 | 42,545,445 | 37,718,018 |
| Steel construction..... | 1,209,590,346 | 85,418,006 | 36,295,458 | 30,038,672 |
| Wooden construction..... | 110,259,857 | 16,113,204 | 6,249,687 | 7,079,346 |
| Concrete construction..... | 7,018,955 | | | |
| Boats of less than 5 gross tons. | 4,849,497 | 3,739,725 | 3,788,689 | 4,592,907 |
| Steam..... | | 6,544 | 30,522 | 20,800 |
| Motor (gasoline, electric, others) | 1,707,748 | 1,998,862 | 2,001,284 | 3,155,375 |
| Sailboats, rowboats, canoes, etc. | 3,051,749 | 1,744,319 | 1,756,883 | 1,416,732 |
| Repair work..... | 183,721,737 | 63,508,514 | 32,835,212 | 26,678,643 |
| Steel..... | 130,227,508 | 44,821,223 | 20,537,928 | 16,862,650 |
| Wooden..... | 47,494,229 | 18,687,291 | 12,297,284 | 10,815,994 |
| All other work done..... | 46,950,869 | 17,072,743 | 9,512,725 | 4,370,747 |

Repair work by private establishments, by states.—Table 27 shows, by states, the value of repair work done in the private establishments in the shipbuilding industry for 1919, 1916, 1914, and 1909.

Since 1909, New York has led in the value of repair work, in 1919 the amount done being nearly one-half of the total for the United States. Fifteen of the states shown separately reported repair work in excess of a million dollars in 1919.

TABLE 27.—REPAIR WORK BY PRIVATE ESTABLISHMENTS, BY STATES: 1919, 1916, 1914, AND 1909.

| STATE. | AMOUNT RECEIVED. | | | |
|-----------------------|------------------|--------------|--------------|--------------|
| | 1919 | 1916 | 1914 | 1909 |
| United States..... | \$163,721,737 | \$63,508,514 | \$32,835,212 | \$26,678,043 |
| Alabama..... | 2,245,966 | (1) | (1) | (1) |
| California..... | 12,559,965 | 3,594,445 | 3,348,852 | 2,529,188 |
| Connecticut..... | 893,105 | 927,579 | 342,972 | 319,591 |
| Delaware..... | 873,764 | 110,151 | 177,318 | 345,539 |
| Florida..... | 2,777,261 | 913,678 | 510,011 | 539,584 |
| Georgia..... | 444,009 | (1) | (1) | (1) |
| Indiana..... | 83,740 | 60,074 | 83,006 | 70,663 |
| Kentucky..... | 302,042 | 125,246 | 127,773 | 85,902 |
| Louisiana..... | 2,200,136 | 1,466,794 | 435,555 | 364,738 |
| Maine..... | 1,086,220 | 380,474 | 434,191 | 346,635 |
| Maryland..... | 12,279,775 | 3,046,777 | 1,374,515 | 985,112 |
| Michigan..... | 1,567,132 | 1,455,258 | 1,051,206 | 1,125,544 |
| New Jersey..... | 33,093,934 | 8,313,081 | 4,206,315 | 3,123,032 |
| New York..... | 72,612,037 | 23,884,480 | 10,081,332 | 6,931,117 |
| North Carolina..... | 272,774 | 92,508 | 52,600 | 36,569 |
| Ohio..... | 4,403,043 | 2,125,580 | 2,058,521 | 1,324,166 |
| Oregon..... | 243,291 | 152,017 | 98,201 | 100,788 |
| Pennsylvania..... | 5,004,083 | 4,249,199 | 1,512,126 | 2,531,364 |
| Rhode Island..... | 2,002,529 | 1,197,501 | 927,833 | 647,064 |
| Texas..... | 793,585 | (1) | (1) | (1) |
| Virginia..... | 13,371,745 | 3,397,591 | 1,507,320 | 1,324,045 |
| Washington..... | 5,320,346 | 1,600,617 | 1,447,385 | 880,618 |
| West Virginia..... | 221,110 | 200,864 | 124,933 | 136,156 |
| Wisconsin..... | 2,136,990 | 905,834 | 745,890 | 1,172,543 |
| All other states..... | 6,332,276 | 5,208,866 | 2,152,757 | 1,757,685 |

¹ Included in "All other states."

Equipment of steam and motor vessels launched.—Over one-half of the steam vessels launched in 1919, as shown by Table 28, were equipped with reciprocating steam engines, and all but 47 of the 241 motor vessels were propelled by gasoline engines. Of the 1,203 steam engines, 300 were fitted for burning oil as fuel.

TABLE 28.—EQUIPMENT OF STEAM AND MOTOR VESSELS LAUNCHED: 1919.

| TYPE. | Num-ber. | TYPE. | Num-ber. |
|--------------------|----------|--------------------------|----------|
| Total..... | 1,444 | Internal-combustion..... | 241 |
| Steam engines..... | 1,203 | Diesel..... | 44 |
| Reciprocating..... | 731 | Gasoline..... | 194 |
| Turbine..... | 472 | All other..... | 3 |
| | | Oil burners..... | 300 |

Dry docks.—Table 29 shows the number and kind of dry docks in private and Government shipyards, classified according to dimensions, for 1919, 1914, and 1909. Figures for 1916 were not obtained.

TABLE 29.—DRY DOCKS: 1919, 1914, AND 1909.

| CLASS. | NUMBER. | | |
|----------------------------------|---------|------|------|
| | 1919 | 1914 | 1909 |
| Total number..... | 242 | 250 | 216 |
| Stationary: | | | |
| Wooden..... | 39 | 62 | 57 |
| Masonry, concrete, or steel..... | 31 | 21 | 23 |
| Floating..... | 172 | 107 | 136 |
| With floor length of— | | | |
| Over 300 feet..... | 89 | 67 | 53 |
| 201 to 300 feet..... | 23 | 27 | 20 |
| 101 to 200 feet..... | 60 | 58 | 70 |
| 100 feet or less..... | 70 | 98 | 73 |
| With entrance width of— | | | |
| Over 75 feet..... | 61 | 47 | 37 |
| 51 to 75 feet..... | 75 | 57 | 54 |
| 26 to 50 feet..... | 68 | 109 | 89 |
| 25 feet or less..... | 38 | 37 | 36 |
| With sill depth of— | | | |
| Over 20 feet..... | 61 | 45 | 30 |
| 10 to 20 feet..... | 107 | 108 | 98 |
| Less than 10 feet..... | 74 | 97 | 88 |

Marine railways.—Table 30 shows the number, dimensions, and lifting capacity of marine railways in operation in 1919, 1914, and 1909. Figures for 1916 were not obtained.

Of the 582 marine railways reported in the United States for 1919, 156 had a cradle length of more than 101 feet, 190 had a cradle breadth exceeding 25 feet, and 83 had a lifting capacity of over 500 tons.

TABLE 30.—MARINE RAILWAYS: 1919, 1914, AND 1909.

| | NUMBER. | | |
|---|---------|---------|---------|
| | 1919 | 1914 | 1909 |
| Total lifting capacity in tons..... | 173,235 | 129,904 | 147,031 |
| Total number..... | 582 | 678 | 696 |
| With cradle length of— | | | |
| Over 200 feet..... | 46 | 32 | 38 |
| 101 to 200 feet..... | 110 | 123 | 110 |
| 50 to 100 feet..... | 131 | 185 | 178 |
| Less than 50 feet..... | 295 | 338 | 370 |
| With cradle breadth of— | | | |
| Over 50 feet..... | 23 | 12 | 5 |
| 25 to 50 feet..... | 167 | 183 | 126 |
| Less than 25 feet..... | 392 | 583 | 565 |
| With maximum cradle draft submerged of— | | | |
| Over 15 feet..... | 53 | 45 | 47 |
| 11 to 15 feet..... | 108 | 96 | 86 |
| 5 to 10 feet..... | 306 | 411 | 410 |
| Less than 5 feet..... | 115 | 126 | 153 |
| With lifting capacity of— | | | |
| Over 1,000 tons..... | 40 | 25 | 22 |
| 501 to 1,000 tons..... | 43 | 34 | 56 |
| 100 to 500 tons..... | 140 | 180 | 172 |
| Less than 100 tons..... | 359 | 439 | 446 |

GENERAL TABLES.

Comparative summary, by states.—Table 31 gives for 1919, 1916, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the shipbuilding industry.

Detailed statement, by states.—Table 32 presents for 1919 statistics in detail for the industry as a whole, for "shipbuilding, steel," and for "shipbuilding, wooden, including boat building," and for each state that can be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 31.—COMPARATIVE SUMMARY, BY STATES: 1919, 1916, 1914, AND 1909.

| STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Primary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. | STATE. | Cen- sus year. | Num- ber of estab- lish- ments. | Wage earners (aver- age num- ber). | Primary horse- power. | Wages. | Cost of mate- rials. | Value of prod- ucts. |
|-------------------|----------------------|---|---|-----------------------------|-------------------------|----------------------------|----------------------------|-----------------------|----------------------|---|---|-----------------------------|-------------------------|----------------------------|----------------------------|
| | | | | | Expressed in thousands. | | | | | | | | Expressed in thousands. | | |
| United States.... | 1919 | 1,075 | 387,446 | 553,711 | \$597,447 | \$710,523 | \$1,022,361 | Michigan..... | 1919 | 33 | 10,541 | 31,153 | \$23,921 | \$36,120 | \$85,155 |
| | 1916 | 1,137 | 72,497 | (1) | 60,576 | 89,269 | 185,852 | | 1916 | 55 | 2,225 | (1) | 1,857 | 3,120 | 5,637 |
| | 1914 | 1,147 | 44,489 | 115,333 | 32,031 | 38,597 | 88,682 | | 1914 | 62 | 1,261 | 7,565 | 1,040 | 1,259 | 2,823 |
| | 1909 | 1,353 | 40,506 | 88,063 | 25,268 | 31,214 | 73,300 | | 1909 | 91 | 2,344 | 0,485 | 1,380 | 2,490 | 5,034 |
| California..... | 1919 | 67 | 47,530 | 64,631 | 66,882 | 76,629 | 185,882 | New Jersey..... | 1919 | 93 | 52,397 | 52,712 | 79,963 | 125,553 | 238,015 |
| | 1916 | 50 | 7,113 | (1) | 7,190 | 10,245 | 19,778 | | 1916 | 76 | 7,777 | (1) | 6,876 | 9,904 | 20,312 |
| | 1914 | 62 | 3,457 | 4,697 | 3,190 | 3,487 | 8,104 | | 1914 | 85 | 6,324 | 11,944 | 4,657 | 5,039 | 11,861 |
| | 1909 | 43 | 1,844 | 3,120 | 1,692 | 1,237 | 4,132 | | 1909 | 97 | 4,809 | 0,904 | 3,300 | 4,249 | 8,841 |
| Florida..... | 1919 | 73 | 11,199 | 14,097 | 15,442 | 13,617 | 32,002 | New York..... | 1919 | 161 | 33,205 | 52,767 | 53,061 | 41,555 | 132,012 |
| | 1916 | 57 | 1,172 | (1) | 598 | 909 | 1,796 | | 1916 | 200 | 9,028 | (1) | 9,887 | 11,530 | 31,353 |
| Georgia..... | 1919 | 10 | 4,447 | 7,855 | 0,412 | 8,000 | 20,944 | | 1914 | 207 | 6,070 | 17,664 | 4,971 | 5,173 | 14,195 |
| | 1916 | 7 | 216 | (1) | 153 | 218 | 454 | | 1909 | 255 | 5,044 | 13,835 | 3,780 | 3,925 | 11,417 |
| | 1914 | 4 | 14 | 26 | 8 | 4 | 16 | North Carolina..... | 1919 | 18 | 117 | 211 | 97 | 150 | 374 |
| | | | | | | | | | 1916 | 12 | 141 | (1) | 54 | 44 | 189 |
| Indiana..... | 1919 | 7 | 107 | 354 | 104 | 82 | 315 | Ohio..... | 1919 | 28 | 11,412 | 14,219 | 19,668 | 23,902 | 57,483 |
| | 1916 | 10 | 184 | (1) | 108 | 291 | 403 | | 1916 | 32 | 5,059 | (1) | 3,608 | 6,077 | 12,190 |
| | 1914 | 9 | 225 | 549 | 134 | 207 | 506 | | 1914 | 29 | 2,879 | 9,661 | 1,039 | 1,900 | 4,717 |
| | 1909 | 15 | 253 | 785 | 108 | 243 | 375 | | 1909 | 39 | 3,200 | 8,125 | 1,705 | 2,402 | 5,079 |
| Kentucky..... | 1919 | 7 | 185 | 340 | 201 | 53 | 330 | Washington..... | 1919 | 76 | 34,576 | 50,096 | 50,053 | 74,046 | 106,520 |
| | 1916 | 17 | 108 | (1) | 112 | 140 | 279 | | 1916 | 57 | 3,744 | (1) | 3,455 | 6,506 | 10,830 |
| | 1914 | 11 | 90 | 164 | 52 | 135 | 222 | | 1914 | 64 | 1,444 | 5,866 | 1,152 | 987 | 3,101 |
| | 1909 | 10 | 157 | 524 | 97 | 155 | 271 | | 1909 | 60 | 744 | 2,105 | 643 | 562 | 1,550 |
| Louisiana..... | 1919 | 22 | 5,346 | 8,558 | 7,187 | 6,996 | 17,598 | Wisconsin..... | 1919 | 35 | 7,855 | 10,591 | 12,441 | 20,367 | 44,164 |
| | 1916 | 26 | 1,306 | (1) | 784 | 1,035 | 2,007 | | 1916 | 30 | 1,250 | (1) | 322 | 1,612 | 3,827 |
| Maine..... | 1919 | 82 | 7,000 | 8,396 | 9,800 | 9,843 | 24,682 | | 1914 | 34 | 695 | 3,875 | 421 | 451 | 1,254 |
| | 1916 | 100 | 1,857 | (1) | 1,354 | 2,570 | 4,882 | | 1909 | 52 | 906 | 3,506 | 540 | 819 | 1,900 |
| Maryland..... | 1919 | 42 | 19,084 | 20,539 | 28,887 | 31,000 | 67,310 | All other states..... | 1919 | 321 | 136,355 | 210,592 | 212,328 | 241,650 | 548,015 |
| | 1916 | 50 | 5,326 | (1) | 3,773 | 5,845 | 12,206 | | 1916 | 358 | 25,031 | (1) | 19,936 | 20,217 | 59,074 |
| | 1914 | 42 | 2,468 | 5,979 | 1,673 | 2,102 | 4,521 | | 1914 | 548 | 19,556 | 47,343 | 13,768 | 17,187 | 37,362 |
| | 1909 | 46 | 1,703 | 6,705 | 1,098 | 1,849 | 3,535 | | 1909 | 645 | 18,752 | 32,870 | 11,027 | 13,223 | 30,629 |

¹ Not reported.

MANUFACTURES.

TABLE 32.—DETAILED STATEMENT,

| STATE. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | Capital. | |
|--------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|----------------|--|--------------|---------|-----------|----------|---------|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | | Total. | 16 and over. | | Under 16. | | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | | Male. | Female. | Male. | | Female. |
| | | | | | | | | Maximum month. | Minimum month. | | | | | | |

SHIPBUILDING, INCLUDING BOAT BUILDING.

| | | | | | | | | | | | | | | | Dollars. |
|----|-----------------------|-------|---------|-----|-------|--------|-------|---------|------------|------------|---------|---------|-------|-------|---------------|
| 1 | United States..... | 1,075 | 413,236 | 810 | 7,379 | 12,750 | 4,839 | 387,446 | Ja 444,683 | No 301,172 | 355,176 | 353,881 | 1,060 | 235 | 1,389,447,820 |
| 2 | California..... | 67 | 49,714 | 58 | 457 | 1,169 | 500 | 47,530 | My 02,138 | No 13,354 | 44,467 | 44,426 | 41 | ..... | 113,040,683 |
| 3 | Florida..... | 73 | 11,860 | 56 | 217 | 280 | 108 | 11,199 | Ja 14,300 | De 9,602 | 10,524 | 10,493 | 29 | 2 | 46,755,409 |
| 4 | Georgia..... | 10 | 4,980 | 1 | 255 | 217 | 60 | 4,447 | Ja 6,170 | De 2,392 | 5,699 | 5,669 | 30 | ..... | 8,849,876 |
| 5 | Indiana..... | 7 | 133 | 4 | 12 | 4 | 6 | 107 | De 201 | Mh 26 | 199 | 198 | 1 | ..... | 505,531 |
| 6 | Kentucky..... | 7 | 193 | 4 | 3 | 1 | ..... | 185 | Ap 254 | Au 113 | 219 | 219 | ..... | ..... | 110,166 |
| 7 | Louisiana..... | 22 | 5,803 | 13 | 99 | 284 | 61 | 5,346 | Oc 6,662 | Ja 4,308 | 6,008 | 6,003 | ..... | 5 | 22,312,188 |
| 8 | Maine..... | 82 | 7,546 | 66 | 240 | 133 | 107 | 7,000 | Fe 8,425 | Oc 5,605 | 7,141 | 7,097 | 28 | 16 | 15,807,613 |
| 9 | Maryland..... | 42 | 20,186 | 31 | 222 | 672 | 177 | 19,084 | Mh 20,432 | Au 17,626 | 18,122 | 18,119 | 1 | 2 | 35,858,077 |
| 10 | Michigan..... | 33 | 17,674 | 18 | 453 | 541 | 121 | 16,541 | Mh 20,692 | De 9,880 | 20,039 | 19,977 | 61 | 1 | 24,096,612 |
| 11 | New Jersey..... | 93 | 55,653 | 76 | 946 | 1,654 | 580 | 52,397 | Mh 54,393 | Oc 49,689 | 50,492 | 50,095 | 397 | ..... | 248,268,134 |
| 12 | New York..... | 161 | 35,685 | 111 | 742 | 1,213 | 324 | 33,295 | Ja 39,842 | Oc 24,432 | 29,102 | 29,048 | 37 | 17 | 38,604,403 |
| 13 | North Carolina..... | 18 | 153 | 22 | 10 | 2 | 2 | 117 | Se 151 | Ja 91 | 125 | 125 | ..... | ..... | 63,594 |
| 14 | Ohio..... | 28 | 11,835 | 20 | 82 | 207 | 114 | 11,412 | My 12,385 | De 9,373 | 10,657 | 10,636 | 21 | ..... | 51,822,627 |
| 15 | Washington..... | 70 | 36,424 | 56 | 646 | 803 | 343 | 34,676 | Ja 45,392 | Fe 11,286 | 23,958 | 23,894 | 37 | 27 | 120,722,802 |
| 16 | Wisconsin..... | 35 | 8,443 | 24 | 123 | 342 | 99 | 7,855 | Se 8,574 | De 6,373 | 6,567 | 6,565 | 2 | ..... | 17,741,814 |
| 17 | All other states..... | 321 | 146,954 | 256 | 2,672 | 5,234 | 2,237 | 136,355 | ..... | ..... | 121,857 | 121,317 | 375 | 165 | 594,857,603 |

SHIPBUILDING, STEEL.

| | | | | | | | | | | | | | | | | |
|----|-----------------------|-----|---------|-------|-------|--------|-------|---------|------------|------------|---------|---------|-----|-------|-------|---------------|
| 1 | United States..... | 102 | 365,875 | 21 | 5,895 | 11,610 | 4,335 | 344,014 | My 380,799 | No 273,350 | 300,273 | 308,078 | 972 | 223 | ..... | 1,268,640,254 |
| 2 | Alabama..... | 4 | 5,801 | ..... | 110 | 347 | 90 | 5,254 | De 5,752 | Fe 4,631 | 5,752 | 5,799 | 23 | ..... | ..... | 30,286,855 |
| 3 | California..... | 18 | 48,098 | 3 | 421 | 1,139 | 483 | 40,052 | My 60,447 | No 12,754 | 42,905 | 42,925 | 40 | ..... | ..... | 108,768,311 |
| 4 | Florida..... | 5 | 8,211 | ..... | 100 | 202 | 71 | 7,838 | Ja 8,633 | Je 7,322 | 7,813 | 7,793 | 20 | ..... | ..... | 38,609,952 |
| 5 | Georgia..... | 3 | 3,950 | ..... | 229 | 184 | 56 | 3,481 | Ap 4,213 | Oc 2,155 | 4,153 | 4,123 | 30 | ..... | ..... | 5,747,755 |
| 6 | Louisiana..... | 6 | 3,700 | ..... | 66 | 255 | 50 | 3,329 | No 4,925 | Ja 1,674 | 4,578 | 4,575 | 3 | 8 | ..... | 19,284,057 |
| 7 | Maine..... | 6 | 4,804 | 5 | 141 | 101 | 72 | 4,485 | Mh 5,125 | Oc 3,946 | 4,499 | 4,464 | 20 | 15 | ..... | 9,270,448 |
| 8 | Maryland..... | 4 | 18,142 | ..... | 160 | 605 | 165 | 17,212 | Ap 18,178 | Au 16,127 | 16,357 | 16,356 | 1 | ..... | ..... | 32,778,735 |
| 9 | Michigan..... | 7 | 17,061 | 1 | 428 | 526 | 110 | 15,996 | Mh 20,209 | De 9,460 | 19,133 | 19,073 | 59 | 1 | ..... | 21,820,060 |
| 10 | New Jersey..... | 13 | 53,273 | 3 | 861 | 1,601 | 557 | 50,251 | Mh 52,467 | No 47,492 | 48,313 | 47,626 | 387 | ..... | ..... | 242,523,813 |
| 11 | New York..... | 28 | 27,631 | 2 | 345 | 1,033 | 204 | 25,987 | Ja 31,875 | Oc 18,244 | 21,755 | 21,719 | 19 | 17 | ..... | 62,491,297 |
| 12 | Ohio..... | 9 | 11,566 | ..... | 62 | 205 | 107 | 11,192 | Mh 12,081 | De 9,279 | 10,407 | 10,388 | 19 | ..... | ..... | 51,177,363 |
| 13 | Washington..... | 9 | 30,896 | ..... | 545 | 681 | 279 | 29,391 | Ja 39,105 | Fe 4,714 | 16,938 | 16,870 | 32 | 27 | ..... | 103,019,540 |
| 14 | Wisconsin..... | 7 | 7,105 | 1 | 79 | 295 | 72 | 6,658 | Oc 7,473 | De 5,498 | 5,498 | 5,496 | 2 | ..... | ..... | 11,620,463 |
| 15 | All other states..... | 43 | 125,637 | 6 | 2,348 | 4,430 | 1,959 | 116,888 | ..... | ..... | 101,112 | 100,632 | 320 | 160 | ..... | 522,215,605 |

SHIPBUILDING, WOODEN, INCLUDING BOAT BUILDING.

| | | | | | | | | | | | | | | | | |
|----|-----------------------|-----|--------|-----|-------|-------|-------|--------|-----------|-----------|--------|--------|-------|-------|-------|-------------|
| 1 | United States..... | 913 | 47,361 | 795 | 1,484 | 1,146 | 504 | 43,432 | Ja 65,841 | No 27,822 | 45,903 | 45,803 | 88 | 12 | ..... | 120,807,566 |
| 2 | California..... | 49 | 1,616 | 55 | 30 | 30 | 17 | 1,478 | Ja 2,017 | No 600 | 1,502 | 1,501 | 1 | ..... | ..... | 4,242,372 |
| 3 | Connecticut..... | 30 | 1,302 | 32 | 92 | 37 | 29 | 1,112 | Ja 2,486 | De 332 | 1,593 | 1,591 | 2 | ..... | ..... | 7,106,315 |
| 4 | Florida..... | 68 | 3,649 | 58 | 117 | 78 | 37 | 3,361 | Ja 5,767 | De 1,879 | 2,711 | 2,700 | 9 | 2 | ..... | 8,155,457 |
| 5 | Georgia..... | 7 | 1,030 | 1 | 26 | 33 | 4 | 966 | Ja 2,078 | No 199 | 1,546 | 1,540 | ..... | ..... | ..... | 3,102,121 |
| 6 | Illinois..... | 9 | 139 | 8 | 5 | 3 | 1 | 122 | Je 181 | Au 96 | 141 | 141 | ..... | ..... | ..... | 479,365 |
| 7 | Iowa..... | 5 | 11 | 6 | ..... | ..... | ..... | 5 | Se 9 | Oc 3 | 6 | 6 | ..... | ..... | ..... | 33,680 |
| 8 | Kentucky..... | 7 | 193 | 4 | 3 | 1 | ..... | 185 | Ap 254 | Au 113 | 219 | 219 | ..... | ..... | ..... | 110,166 |
| 9 | Louisiana..... | 16 | 2,103 | 13 | 33 | 20 | 11 | 2,017 | Ja 3,412 | De 1,428 | 1,430 | 1,428 | ..... | 2 | ..... | 3,028,129 |
| 10 | Maine..... | 76 | 2,742 | 61 | 99 | 32 | 35 | 2,515 | Fe 3,432 | De 1,439 | 2,642 | 2,633 | 8 | 1 | ..... | 6,537,165 |
| 11 | Maryland..... | 38 | 2,044 | 31 | 62 | 67 | 12 | 1,872 | Ja 2,610 | Au 1,499 | 1,765 | 1,763 | ..... | 2 | ..... | 3,079,942 |
| 12 | Massachusetts..... | 55 | 1,073 | 50 | 41 | 31 | 23 | 928 | Ja 1,338 | Se 543 | 582 | 581 | 1 | ..... | ..... | 2,573,693 |
| 13 | Michigan..... | 26 | 613 | 17 | 25 | 15 | 11 | 545 | Oc 814 | Ja 391 | 906 | 904 | 2 | ..... | ..... | 2,270,552 |
| 14 | Minnesota..... | 21 | 126 | 23 | 7 | ..... | 5 | 91 | Jy 115 | No 67 | 109 | 107 | 2 | ..... | ..... | 311,701 |
| 15 | Mississippi..... | 9 | 308 | 6 | 20 | 29 | 5 | 248 | Ja 596 | Se 65 | 276 | 276 | ..... | ..... | ..... | 393,785 |
| 16 | New Jersey..... | 80 | 2,380 | 73 | 85 | 53 | 23 | 2,146 | Fe 2,302 | Mh 1,926 | 2,179 | 2,169 | 10 | ..... | ..... | 5,744,321 |
| 17 | New York..... | 133 | 8,054 | 109 | 397 | 180 | 60 | 7,308 | Ap 8,418 | No 6,077 | 7,347 | 7,329 | 18 | ..... | ..... | 26,113,106 |
| 18 | North Carolina..... | 18 | 153 | 22 | 10 | 2 | 2 | 117 | Se 151 | Ja 91 | 125 | 125 | ..... | ..... | ..... | 98,594 |
| 19 | Ohio..... | 19 | 269 | 20 | 20 | 2 | 7 | 220 | Fe 335 | No 90 | 250 | 248 | 2 | ..... | ..... | 645,264 |
| 20 | Oregon..... | 30 | 3,255 | 23 | 70 | 120 | 52 | 2,990 | Ja 7,830 | Oc 674 | 4,396 | 4,386 | 10 | ..... | ..... | 9,667,360 |
| 21 | Rhode Island..... | 14 | 291 | 12 | 16 | 7 | 3 | 253 | De 318 | Au 174 | 825 | 825 | ..... | ..... | ..... | 897,609 |
| 22 | Texas..... | 21 | 6,375 | 19 | 73 | 170 | 45 | 6,068 | Fe 9,649 | De 3,657 | 4,900 | 4,880 | 15 | 5 | ..... | 4,781,442 |
| 23 | Virginia..... | 30 | 1,278 | 32 | 44 | 30 | 13 | 1,169 | Fe 1,707 | No 803 | 1,603 | 1,602 | 1 | ..... | ..... | 4,037,140 |
| 24 | Washington..... | 67 | 5,528 | 56 | 101 | 122 | 64 | 5,185 | Ja 9,287 | De 1,628 | 7,020 | 7,015 | 5 | ..... | ..... | 17,703,262 |
| 25 | West Virginia..... | 6 | 113 | 1 | 9 | 1 | 1 | 101 | Ap 122 | De 67 | 109 | 109 | ..... | ..... | ..... | 221,543 |
| 26 | Wisconsin..... | 28 | 1,338 | 23 | 44 | 47 | 27 | 1,197 | My 1,545 | De 875 | 1,069 | 1,069 | ..... | ..... | ..... | 6,121,351 |
| 27 | All other states..... | 45 | 1,378 | 42 | 49 | 27 | 17 | 1,243 | ..... | ..... | 1,152 | 1,150 | 2 | ..... | ..... | 3,306,651 |

¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

³ Same number reported for one or more other months.

⁴ All other states embrace: Alabama, 8 establishments; Connecticut, 38; Delaware, 6; District of Columbia, 2; Idaho, 2; Illinois, 11; Iowa, 6; Massachusetts, 59; Minnesota, 22; Mississippi, 10; Missouri, 4; Montana, 1; New Hampshire, 2; Oregon, 33; Pennsylvania, 28; Rhode Island, 16; South Carolina, 3; South Dakota, 1; Tennessee, 3; Texas, 22; Vermont, 1; Virginia, 35; and West Virginia, 8.

SHIPBUILDING, INCLUDING BOAT BUILDING.

1025

BY STATES: 1919.

| EXPENSES. | | | | | | | | Value of products. | Value added by manufacture. | POWER. | | | | | |
|---------------------|--------------|---------------|--------------------|------------------|---|----------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------------|-----------------|------------------------------|---------------------------|--|
| Salaries and wages. | | | For contract work. | Rent and taxes. | | For materials. | | | | Primary horsepower. | | | | | Electric horsepower generated in establishments reporting. |
| Officials. | Clerks, etc. | Wage earners. | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | | Total. | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ¹ |  | Rent-^{2} |

SHIPBUILDING, INCLUDING BOAT BUILDING.

| Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | | | | | | |
|------------|------------|-------------|------------|-----------|------------|-------------|------------|---------------|-------------|----------|--------|--------|-------|---------|---------|--------|
| 32,033,000 | 32,480,894 | 597,446,048 | 10,107,529 | 3,500,432 | 47,095,554 | 694,918,584 | 15,004,092 | 1,622,361,261 | 911,838,585 | 553,711 | 79,164 | 42,036 | 7,019 | 71 | 425,421 | 51,154 |
| 2,833,345 | 3,058,397 | 66,882,450 | 133,722 | 282,975 | 5,336,238 | 75,101,514 | 1,467,185 | 185,882,234 | 109,253,535 | 64,631 | 1,780 | 330 | 330 | 62,512 | 1,046 | 2 |
| 810,573 | 606,772 | 15,441,902 | 9,315 | 79,168 | 70,328 | 13,597,796 | 319,351 | 32,602,379 | 18,745,232 | 14,067 | 4,907 | 641 | 16 | 8,533 | 1,046 | 3 |
| 831,192 | 714,806 | 6,412,478 | ..... | 30,820 | 10,014 | 8,522,342 | 133,121 | 20,943,505 | 12,283,042 | 7,355 | 1,715 | 12 | ..... | 6,123 | ..... | 4 |
| 26,106 | 2,822 | 103,887 | 150 | 50 | 2,230 | 70,695 | 4,908 | 314,665 | 233,002 | 354 | 225 | 36 | ..... | 93 | ..... | 5 |
| 8,784 | 1,500 | 200,525 | ..... | 970 | 1,456 | 50,803 | 1,081 | 330,242 | 277,398 | 340 | 305 | ..... | ..... | 35 | ..... | 6 |
| 434,013 | 521,232 | 7,180,985 | 9,785 | 26,721 | 226,822 | 6,756,550 | 239,248 | 17,597,868 | 10,602,070 | 8,558 | 4,171 | 30 | 322 | 4,035 | 120 | 7 |
| 902,485 | 322,652 | 9,800,023 | 65,592 | 21,369 | 435,140 | 9,577,399 | 265,441 | 24,682,253 | 14,839,413 | 8,399 | 909 | ..... | 96 | 7,393 | 15 | 8 |
| 1,444,510 | 1,344,434 | 28,887,100 | ..... | 55,402 | 1,244,402 | 30,176,216 | 824,038 | 67,309,914 | 30,800,000 | 26,539 | 655 | 150 | 119 | 25,615 | ..... | 9 |
| 1,070,510 | 702,962 | 28,921,220 | ..... | 21,630 | 3,759,358 | 35,438,393 | 681,855 | 85,154,702 | 49,034,454 | 31,153 | 3,220 | 1,200 | 381 | 26,352 | 2,838 | 10 |
| 3,414,674 | 4,535,103 | 79,962,957 | 338,866 | 1,704,245 | 5,758,300 | 123,495,024 | 2,053,240 | 238,014,659 | 112,401,395 | 52,712 | 7,442 | 17,883 | 546 | 26,841 | 26,433 | 11 |
| 3,085,172 | 2,476,998 | 53,061,323 | 1,008,244 | 292,447 | 7,034,152 | 40,119,782 | 1,485,064 | 132,012,124 | 90,457,288 | 52,767 | 12,184 | 150 | 1,333 | 39,065 | 889 | 12 |
| 23,900 | 5,800 | 96,853 | 0,065 | 2,024 | 1,491 | 140,431 | 3,291 | 373,723 | 224,001 | 211 | 35 | ..... | 35 | 141 | ..... | 13 |
| 800,600 | 625,454 | 19,608,178 | 27,412 | 15,627 | 1,907,530 | 23,169,106 | 722,546 | 57,482,599 | 33,580,947 | 14,210 | 6,617 | 10 | 97 | 7,495 | 3,983 | 14 |
| 3,559,676 | 1,848,915 | 50,053,323 | 1,703,158 | 532,704 | 7,979,941 | 72,976,049 | 1,070,168 | 100,519,787 | 92,473,570 | 50,690 | 3,849 | ..... | 131 | 46,716 | 300 | 15 |
| 808,671 | 677,424 | 12,440,675 | 15,000 | 32,944 | 2,248,979 | 19,990,210 | 376,513 | 44,193,740 | 23,797,023 | 10,591 | 5,791 | ..... | 70 | 6,730 | 474 | 10 |
| 12,567,329 | 15,036,623 | 212,320,700 | 6,790,220 | 407,276 | 11,613,101 | 235,664,214 | 5,980,092 | 548,916,801 | 307,266,655 | 210,592 | 27,359 | 22,613 | 2,861 | 157,747 | 15,048 | 17 |

SHIPBUILDING, STEEL.

| Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | | | | | | |
|------------|------------|-------------|-----------|-----------|------------|-------------|------------|---------------|-------------|----------|--------|--------|-------|--------|---------|--------|
| 27,159,274 | 30,102,233 | 538,372,576 | 8,205,806 | 2,858,731 | 44,641,130 | 629,800,673 | 13,943,141 | 1,456,480,516 | 812,736,702 | 475,567 | 53,868 | 41,166 | 2,671 | ..... | 377,862 | 49,792 |
| 474,421 | 600,053 | 6,964,417 | ..... | 17,456 | 216,814 | 6,084,983 | 222,109 | 15,909,618 | 9,602,526 | 19,000 | 5,309 | 10,600 | 104 | ..... | 3,476 | 4,616 |
| 2,093,219 | 2,993,992 | 64,320,418 | 129,016 | 251,905 | 5,309,432 | 73,023,232 | 1,438,343 | 179,151,695 | 104,690,120 | 61,264 | 1,025 | ..... | 98 | ..... | 60,171 | ..... |
| 528,569 | 460,079 | 11,550,078 | ..... | 50,600 | 41,316 | 10,443,412 | 257,550 | 24,234,126 | 13,533,164 | 10,105 | 3,745 | ..... | 253 | ..... | 0,107 | 1,035 |
| 712,800 | 680,000 | 4,783,588 | ..... | 23,040 | 5,939 | 7,319,326 | 120,269 | 17,722,812 | 10,283,217 | 6,727 | 845 | ..... | 12 | ..... | 5,870 | ..... |
| 326,080 | 392,113 | 5,013,577 | 9,717 | 15,473 | 124,757 | 4,972,055 | 117,723 | 12,432,094 | 7,342,310 | 5,717 | 2,950 | 30 | 168 | ..... | 2,572 | 60 |
| 477,953 | 245,051 | 6,402,134 | 30,430 | 7,657 | 219,256 | 4,734,651 | 188,561 | 14,003,706 | 9,080,494 | 4,320 | 50 | ..... | ..... | 4,278 | ..... | 7 |
| 1,226,952 | 1,253,719 | 20,141,571 | ..... | 160 | 1,182,545 | 27,518,233 | 771,507 | 60,844,131 | 32,554,278 | 22,354 | 175 | ..... | ..... | 22,179 | ..... | 8 |
| 1,006,431 | 609,223 | 28,183,899 | ..... | 16,120 | 3,744,860 | 34,391,460 | 655,177 | 83,124,336 | 48,077,699 | 30,047 | 2,835 | 1,200 | 328 | ..... | 25,684 | 2,838 |
| 2,963,168 | 4,423,024 | 76,845,243 | 311,058 | 1,642,461 | 5,568,794 | 120,475,063 | 1,992,178 | 229,825,670 | 107,358,429 | 50,067 | 5,920 | 17,883 | 117 | ..... | 23,147 | 25,920 |
| 1,835,078 | 2,126,914 | 42,312,289 | 758,440 | 98,350 | 6,215,330 | 30,271,130 | 1,023,110 | 103,401,267 | 72,167,027 | 39,399 | 6,060 | 150 | 550 | ..... | 32,030 | 882 |
| 762,639 | 614,644 | 19,424,226 | ..... | 13,732 | 1,902,770 | 22,630,130 | 723,456 | 56,481,966 | 33,128,380 | 13,717 | 6,425 | ..... | 15 | ..... | 7,277 | 3,983 |
| 2,803,430 | 1,547,380 | 43,728,096 | 223,520 | 462,869 | 7,034,062 | 62,417,992 | 931,063 | 140,980,461 | 77,031,401 | 30,692 | 2,215 | ..... | ..... | 34,477 | ..... | 13 |
| 565,603 | 584,976 | 11,085,302 | 15,000 | 20,491 | 2,226,145 | 17,102,303 | 393,627 | 36,628,337 | 19,192,407 | 9,345 | 3,298 | ..... | ..... | 6,079 | 474 | 14 |
| 10,783,231 | 13,445,454 | 186,406,198 | 6,721,666 | 233,417 | 10,199,110 | 208,425,653 | 5,168,400 | 481,689,297 | 268,095,244 | 169,201 | 13,048 | 11,243 | 999 | ..... | 140,911 | 9,984 |

SHIPBUILDING, WOODEN, INCLUDING BOAT BUILDING.

| Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | Dollars. | | | | | | |
|-----------|-----------|------------|-----------|----------|-----------|------------|-----------|-------------|------------|----------|--------|-------|-------|-------|--------|-------|
| 5,474,329 | 2,378,061 | 59,074,072 | 1,901,723 | 647,701 | 3,054,424 | 65,108,911 | 1,660,951 | 165,871,745 | 99,101,883 | 78,144 | 25,296 | 870 | 4,348 | 71 | 47,550 | 1,362 |
| 140,120 | 64,405 | 2,350,032 | 3,800 | 81,070 | 20,806 | 2,138,282 | 28,842 | 6,730,539 | 4,603,415 | 3,367 | 755 | ..... | 271 | ..... | 2,341 | ..... |
| 142,551 | 64,528 | 1,254,371 | 4,469 | 9,352 | 94,973 | 938,620 | 2,624 | 2,924,031 | 1,936,680 | 2,624 | 1,018 | 10 | 233 | 12 | 1,851 | ..... |
| 252,004 | 146,093 | 3,885,284 | 9,315 | 28,568 | 35,012 | 3,154,334 | 61,801 | 8,428,253 | 5,212,068 | 3,092 | 1,192 | ..... | 388 | 16 | 2,425 | 11 |
| 118,692 | 34,800 | 1,028,890 | ..... | 2,780 | 4,075 | 1,203,010 | 17,852 | 3,220,693 | 1,969,825 | 1,128 | 870 | ..... | ..... | ..... | 253 | 8 |
| 18,871 | 10,237 | 119,573 | ..... | 4,832 | 1,326 | 206,189 | 5,956 | 461,225 | 246,080 | 355 | 160 | ..... | 9 | ..... | 180 | 6 |
| 8,784 | 1,500 | 200,525 | 30 | 120 | 530 | 15,766 | 221 | 36,936 | 20,889 | 26 | 4 | ..... | 16 | ..... | 6 | ..... |
| 107,933 | 129,119 | 2,173,408 | 68 | 11,248 | 102,065 | 1,784,495 | 121,525 | 5,165,774 | 3,250,764 | 2,841 | 1,221 | ..... | 157 | ..... | 1,403 | 80 |
| 424,532 | 77,001 | 3,397,889 | 20,103 | 13,712 | 215,890 | 4,842,748 | 70,880 | 10,078,647 | 5,758,919 | 4,070 | 859 | ..... | 96 | 8 | 3,107 | 15 |
| 217,558 | 85,715 | 2,745,529 | ..... | 55,302 | 61,917 | 2,057,033 | 52,468 | 6,405,783 | 3,755,382 | 4,185 | 480 | 150 | 119 | ..... | 3,436 | 11 |
| 127,831 | 48,752 | 1,401,078 | 4,657 | 24,166 | 64,160 | 1,954,938 | 22,783 | 4,191,578 | 2,218,852 | 2,074 | 653 | ..... | 251 | ..... | 1,170 | 12 |
| 73,079 | 33,739 | 737,381 | ..... | 5,510 | 14,498 | 1,046,933 | 26,783 | 2,030,366 | 950,755 | 1,106 | 388 | ..... | 53 | ..... | 608 | 13 |
| 9,600 | 5,487 | 105,358 | ..... | 688 | 7,509 | 100,869 | 5,764 | 341,567 | 234,944 | 196 | 70 | ..... | 33 | ..... | 93 | 14 |
| 66,733 | 50,294 | 359,597 | ..... | 731 | 896 | 393,356 | 24,806 | 1,028,361 | 610,199 | 635 | 437 | ..... | 11 | ..... | 187 | 15 |
| 451,506 | 112,079 | 3,117,714 | 27,808 | 61,784 | 199,512 | 3,019,961 | 66,062 | 8,188,989 | 5,102,066 | 2,645 | 1,522 | ..... | 429 | ..... | 694 | 16 |
| 1,253,094 | 349,084 | 10,749,034 | 249,804 | 194,097 | 818,822 | 9,848,052 | 411,944 | 29,550,857 | 18,200,261 | 13,871 | 6,124 | ..... | 783 | 35 | 6,429 | 7 |
| 23,900 | 5,800 | 96,853 | 6,095 | 2,024 | 1,491 | 146,431 | 3,291 | 373,723 | 224,001 | 211 | 35 | ..... | 35 | ..... | 218 | 17 |
| 38,021 | 10,810 | 243,952 | 27,412 | 1,895 | 4,760 | 538,970 | 9,090 | 1,000,633 | 452,567 | 502 | 192 | 10 | 82 | ..... | ..... | 19 |
| 269,216 | 276,739 | 4,609,196 | 57,534 | 74,072 | 585,641 | 6,754,145 | 90,417 | 13,777,615 | 6,924,053 | 7,282 | 1,544 | ..... | 140 | ..... | 5,598 | 20 |
| 58,700 | 13,192 | 350,510 | ..... | 6,193 | 8,418 | 255,310 | 30,898 | 663,971 | 508,263 | 562 | 570 | ..... | 34 | ..... | 158 | 21 |
| 264,598 | 370,087 | 7,565,865 | 1,064 | 27,061 | 66,652 | 8,129,890 | 193,351 | 19,246,231 | 10,922,984 | 6,025 | 2,062 | 690 | 547 | ..... | 2,727 | 22 |
| 254,141 | 55,742 | 1,636,577 | ..... | 690 | 233,642 | 994,956 | 29,557 | 4,582,130 | 3,561,017 | 2,090 | 495 | ..... | 184 | ..... | 1,411 | 23 |
| 766,246 | 301,529 | 7,325,227 | 1,479,638 | 69,835 | 345,879 | 10,558,057 | 139,100 | 25,539,326 | 14,842,169 | 14,004 | 1,634 | ..... | 131 | ..... | 12,239 | 24 |
| 19,740 | 1,885 | 100,060 | ..... | 883 | 1,778 | 62,885 | 2,779 | 218,051 | 147,387 | 246 | 246 | ..... | ..... | ..... | ..... | 25 |
| 243,068 | 92,449 | 1,355,373 | ..... | 12,453 | 22,834 | 2,857,907 | 42,886 | 7,535,409 | 4,604,616 | 1,246 | 525 | ..... | 70 | ..... | 551 | 26 |
| 103,802 | 36,995 | 1,553,356 | 350 | 7,600 | 133,982 | 1,410,363 | 140,718 | 3,965,920 | 2,414,839 | 3,020 | 2,162 | 10 | 276 | ..... | 572 | 27 |

¹ All other states embrace: Connecticut, 2 establishments; Delaware, 2; Illinois, 2; Indiana, 2; Iowa, 1; Massachusetts, 4; Minnesota, 1; Mississippi, 1; Missouri, 1; New Hampshire, 1; Oregon, 3; Pennsylvania, 10; Rhode Island, 2; South Carolina, 2; Tennessee, 1; Texas, 1; Virginia, 5; West Virginia, 2.

POWER LAUNDRIES.

General character of the industry.—Laundries are not classed as manufacturing establishments, but many laundries are conducted according to factory methods, and the industry has reached such proportions during recent years that it is an industrial factor. It was therefore decided to make a canvass of the industry at the census of 1909, and the canvass was continued at the censuses of 1914 and 1919. This report is confined to power laundries. Hand laundries, so called, or laundries operated without power, are not included. At the census of 1909 the industry was designated as "Steam laundries."

Comparison with earlier censuses.—The large increase in salaries and wages, 1914 to 1919, as shown in Table 1, is due chiefly to changes in industrial conditions and to higher wages. As a measure of industrial growth the number of wage earners is probably the best index, the increase from 1914 to 1919 being a little less than 1 per cent, as compared with 19.3 per cent for the period 1909–1914. In 1909 the average wage, as deduced from the statistics, was \$409 per wage earner. In 1914 it had increased to \$455 and in 1919 the average was \$704. Labor is the chief expense factor, and in 1919 the expense for salaries and wages was equal to 48.9 per cent of the amount received for work done as compared with 50.4 per cent in 1914 and 50.6 per cent in 1909. This ratio has been fairly constant. The expense for materials is relatively small as compared with labor, and the figure for "value added by manufacture," which is the value of products less cost of materials, has no significance. In 1919 fuel and rent of power constituted 25.8 per cent of the cost of materials, and in 1914, 25.9 per cent.

Summary, by states.—Comparative statistics are presented in Table 2 for the chief factors, i. e., number of establishments, number of persons engaged in the industry, and the amount received for work done, by geographic divisions and states, together with the urban population for the census years 1919, 1914, and 1909. The industry is largely confined to cities and towns, and hence it is thought that the urban population of the country, the same being taken for places of 8,000 inhabitants or more, is a better basis for population comparison than the total population of the states, and is therefore used in this presentation. The table shows the number of places of 8,000 inhabitants or more in the respective states,

and the rank of the states with respect to the several items. The states are grouped by geographic divisions so as to bring together those operating under similar industrial conditions, and this arrangement has been followed with most of the tables. Every state is represented by a sufficient number of establishments to permit of the statistics being given therefor. In 1909 the average amount received for work done per unit of urban population was \$2.77. In 1914 this average was \$3.60 and in 1919 it was \$5.02, the increase being of course due largely to enhanced costs and values. The highest ratio of amount received for work done to unit of urban population was in the Mountain division, \$13.19, followed by the Pacific division with \$11.29, and the West South Central with \$7.55. A number of states show decreases in number of persons employed, notably Delaware, New Hampshire, Vermont, and Pennsylvania.

Persons engaged in the industry.—The age classification of the average number of wage earners in Table 3 is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 it was obtained in the same manner as the distribution by age. Figures for states will be found in Table 12.

Wage earners, by months.—The statistics for wage earners in Table 4 are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years. For the country as a whole, females constituted 70.7 per cent of the average number of wage earners employed during the year and males 29.3 per cent. The leading states with respect to the employment of female labor, irrespective of age limitations, are Vermont with 78.4 per cent; Wyoming, 77.3 per cent; Alabama and Oklahoma each with 75.6 per cent.

Prevailing hours of labor.—The statistics presented in Table 5 show progress towards a reduction in hours of labor. In 1909 but 8.4 per cent of the wage earners were in the group of 48 hours per week or less, and 34.4 per cent were in the groups of 60 hours per week and over. In 1914 these percentages had shifted to 22.6 per cent of all wage earners for groups 48 hours per week or less and 10.8 per cent for 60 hours per week and over; and in 1919, 46.4 per cent for 48 hours per week or less and only 4.3 per cent for 60 hours per week and over.

Size of establishments, by amount received for work done.—A classification of the establishments by income, or amount received for work done, is given in Table 6. The inflation of values on account of the World War has necessarily resulted in a shift to higher groups of establishments, which otherwise have not materially changed in status.

Size of establishments, by average number of wage earners.—The group "6 to 20 wage earners" of Table 7, which classifies the establishments by size groups, has the largest number of establishments, 37 per cent of the total in 1919, 40 per cent in 1914, and 42 per cent in 1909. The distribution of the establishments by size groups based upon average number of wage earners has not varied greatly.

Character of ownership.—Table 8 shows that in most states the bulk of the business, whether measured by wage earners or by income, is under corporate ownership, though in the New England states, with the exception of Massachusetts, in the majority of the West North Central states, and in a few states in the South Atlantic, South Central and the Mountain divisions, individual and "All other" forms of ownership (the latter comprising chiefly firms) report the majority of the business.

Statistics for cities.—Table 9 gives comparative statistics for 1919 and 1914 for cities of 10,000 inhabitants or more, census of 1920, reporting three or more establishments.

Number and horsepower of types of prime movers.—Table 10 gives the total horsepower reported for the industry in 1919, as compared with 1914. This shows an increase of 12.5 per cent due almost entirely to purchased electric power, the rating of owned primary movers increasing but 444 horsepower, while the increase in rented power was 21,468 horsepower, of which 19,232 horsepower was electric. The percentage ratio of total electric power (which includes that owned as well as that purchased) to total primary power was 38.3 in 1919 as compared with 25.2 in 1914 and 19.4 in 1909.

Fuel consumed.—Table 11 shows the consumption of fuel, by kinds, for 1919, 1914, and 1909, and by states for 1919 and 1914. The figures for gas include both manufactured and natural gas. In certain states, notably Ohio, Kansas, West Virginia, Kentucky, Arkansas, Louisiana, Oklahoma and Texas it is chiefly or entirely natural gas.

Table 12 presents for 1919 the statistics in detail for all states, grouped by geographic divisions.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, AND 1909.

| | 1919 | 1914 | 1909 | PER CENT OF INCREASE. ¹ | |
|------------------------------------|---------------|--------------|--------------|------------------------------------|-----------|
| | | | | 1914-1919 | 1909-1914 |
| Number of establishments..... | 5,678 | 6,097 | 5,186 | -6.9 | 17.6 |
| Persons engaged..... | 152,569 | 149,100 | 124,214 | 2.3 | 20.0 |
| Proprietors and firm members..... | 5,514 | 6,397 | 5,560 | -13.8 | 15.1 |
| Salaried employees..... | 15,170 | 12,062 | 9,170 | 25.8 | 31.5 |
| Wage earners (average number)..... | 131,879 | 130,641 | 109,484 | 0.9 | 19.3 |
| Primary horsepower..... | 198,793 | 174,881 | 123,477 | 12.5 | 41.6 |
| Capital..... | \$153,808,287 | \$98,055,001 | \$68,935,226 | 50.9 | 42.2 |
| Salaries and wages..... | 115,597,022 | 71,764,059 | 53,007,747 | 61.1 | 35.4 |
| Salaries..... | 22,698,185 | 12,292,815 | 8,180,769 | 84.6 | 50.3 |
| Wages..... | 92,898,837 | 59,471,244 | 44,826,978 | 56.2 | 32.7 |
| Paid for contract work..... | 1,554,364 | 374,448 | 239,090 | 315.2 | 56.6 |
| Rent and taxes..... | 6,730,569 | 4,104,933 | 2,770,871 | 64.0 | 47.8 |
| Cost of materials..... | 53,502,177 | 26,919,200 | 17,696,360 | 98.8 | 52.1 |
| Amount received for work done..... | * 236,382,369 | 142,503,253 | 104,680,086 | 65.9 | 36.1 |

¹ A minus sign (-) denotes decrease.

* In addition, laundry work to the amount of \$319,268 was reported by manufacturers of clothing, shirts, ice, etc.

MANUFACTURES.

TABLE 2.—COMPARATIVE STATISTICS: URBAN POPULATION AND LAUNDRIES, BY DIVISIONS AND STATES, WITH STATE RANK: 1919, 1914, AND 1909.

| DIVISION AND STATE. | Census year. | POPULATION. | | | POWER LAUNDRIES. | | | | | | | |
|-------------------------|--------------|----------------------------------|---------------------|-------------|------------------|-------------|----------------------------------|------------------------------------|-------------|--------------------------------|------------------------------------|-------------|
| | | Places of 8,000 or more, number. | Urban. ¹ | | Establishments. | | Persons engaged in the industry. | | | Amount received for work done. | | |
| | | | Number. | State rank. | Number. | State rank. | Number. | Per cent of increase. ² | State rank. | Amount. | Per cent of increase. ² | State rank. |
| UNITED STATES..... | 1919 | 950 | 47,119,807 | ..... | 5,678 | ..... | 152,569 | 2.3 | ..... | \$236,382,369 | 65.9 | ..... |
| | 1914 | 775 | 39,534,205 | ..... | 5,097 | ..... | 149,100 | 20.0 | ..... | 142,503,253 | 36.1 | ..... |
| | 1909 | 779 | 37,847,807 | ..... | 5,186 | ..... | 124,214 | ..... | ..... | 104,680,086 | ..... | ..... |
| NEW ENGLAND..... | 1919 | 154 | 5,447,404 | ..... | 708 | ..... | 13,782 | -7.2 | ..... | 21,462,585 | 52.6 | ..... |
| | 1914 | 134 | 4,792,762 | ..... | 791 | ..... | 14,849 | 29.0 | ..... | 14,060,578 | 45.1 | ..... |
| | 1909 | 135 | 4,483,645 | ..... | 599 | ..... | 11,508 | ..... | ..... | 9,688,878 | ..... | ..... |
| Maine..... | 1919 | 13 | 252,109 | 33 | 81 | 19 | 1,144 | 4.3 | 34 | 1,514,854 | 53.2 | 35 |
| | 1914 | 11 | 214,830 | 32 | 92 | 20 | 1,097 | 14.7 | 33 | 939,021 | 34.3 | 35 |
| | 1909 | 11 | 201,848 | 30 | 78 | 20 | 956 | ..... | 31 | 736,367 | ..... | 35 |
| New Hampshire..... | 1919 | 10 | 214,104 | 34 | 61 | 24 | 708 | -18.1 | 41 | 968,856 | 33.0 | 40 |
| | 1914 | 9 | 191,829 | 34 | 74 | 23 | 864 | 22.4 | 38 | 728,733 | 40.5 | 38 |
| | 1909 | 9 | 183,486 | 33 | 61 | 24 | 706 | ..... | 37 | 518,660 | ..... | 38 |
| Vermont..... | 1919 | 6 | 75,095 | 40 | 28 | 34 | 364 | -17.5 | 46 | 399,668 | 10.4 | 48 |
| | 1914 | 5 | 63,663 | 42 | 41 | 35 | 441 | 28.9 | 44 | 362,041 | 48.5 | 45 |
| | 1909 | 5 | 61,711 | 42 | 32 | 35 | 342 | ..... | 44 | 243,753 | ..... | 45 |
| Massachusetts..... | 1919 | 75 | 3,247,063 | 5 | 340 | 5 | 7,960 | -10.2 | 6 | 12,804,279 | 48.5 | 5 |
| | 1914 | 70 | 2,935,269 | 4 | 391 | 5 | 8,861 | 33.1 | 5 | 8,661,830 | 50.5 | 5 |
| | 1909 | 71 | 2,759,958 | 4 | 280 | 5 | 6,655 | ..... | 6 | 5,754,572 | ..... | 5 |
| Rhode Island..... | 1919 | 13 | 532,408 | 20 | 70 | 21 | 1,272 | -9.3 | 31 | 2,154,652 | 70.9 | 39 |
| | 1914 | 12 | 489,037 | 18 | 66 | 27 | 1,402 | 15.8 | 28 | 1,260,942 | 23.7 | 30 |
| | 1909 | 12 | 466,863 | 18 | 53 | 27 | 1,211 | ..... | 28 | 1,019,404 | ..... | 24 |
| Connecticut..... | 1919 | 37 | 1,126,625 | 12 | 128 | 16 | 2,334 | 6.9 | 22 | 3,560,276 | 68.9 | 20 |
| | 1914 | 27 | 898,184 | 11 | 127 | 17 | 2,184 | 33.3 | 17 | 2,108,011 | 48.9 | 19 |
| | 1909 | 27 | 809,779 | 11 | 95 | 18 | 1,638 | ..... | 21 | 1,416,122 | ..... | 29 |
| MIDDLE ATLANTIC..... | 1919 | 220 | 15,151,031 | ..... | 1,017 | ..... | 27,774 | -11.4 | ..... | 46,070,130 | 63.8 | ..... |
| | 1914 | 176 | 13,293,334 | ..... | 1,152 | ..... | 31,344 | 10.7 | ..... | 28,120,707 | 24.7 | ..... |
| | 1909 | 176 | 12,347,253 | ..... | 1,005 | ..... | 28,312 | ..... | ..... | 22,557,774 | ..... | ..... |
| New York..... | 1919 | 65 | 8,230,190 | 1 | 535 | 2 | 13,787 | -11.2 | 1 | 24,627,441 | 72.2 | 1 |
| | 1914 | 56 | 7,360,302 | 1 | 614 | 1 | 15,489 | 10.1 | 1 | 14,304,964 | 25.0 | 1 |
| | 1909 | 56 | 6,854,327 | 1 | 508 | 1 | 14,063 | ..... | 1 | 11,446,663 | ..... | 1 |
| New Jersey..... | 1919 | 48 | 2,172,190 | 6 | 131 | 14 | 4,061 | 0.9 | 11 | 7,091,621 | 97.5 | 11 |
| | 1914 | 37 | 1,833,872 | 6 | 142 | 16 | 4,024 | 20.7 | 11 | 3,590,739 | 29.2 | 13 |
| | 1909 | 37 | 1,692,610 | 6 | 112 | 16 | 3,334 | ..... | 12 | 2,779,277 | ..... | 12 |
| Pennsylvania..... | 1919 | 107 | 4,748,642 | 2 | 351 | 4 | 9,956 | -15.8 | 4 | 14,351,068 | 40.4 | 4 |
| | 1914 | 83 | 4,099,160 | 2 | 396 | 4 | 11,831 | 8.4 | 4 | 10,225,004 | 22.7 | 4 |
| | 1909 | 83 | 3,800,316 | 2 | 385 | 3 | 10,915 | ..... | 3 | 8,331,834 | ..... | 4 |
| EAST NORTH CENTRAL..... | 1919 | 223 | 11,600,805 | ..... | 1,247 | ..... | 33,108 | -1.1 | ..... | 51,789,615 | 62.7 | ..... |
| | 1914 | 186 | 9,390,546 | ..... | 1,315 | ..... | 33,493 | 21.1 | ..... | 31,334,504 | 38.5 | ..... |
| | 1909 | 186 | 8,179,660 | ..... | 1,280 | ..... | 27,657 | ..... | ..... | 22,988,922 | ..... | ..... |
| Ohio..... | 1919 | 64 | 3,326,337 | 4 | 277 | 6 | 8,316 | -1.4 | 5 | 12,528,344 | 60.2 | 6 |
| | 1914 | 52 | 2,676,454 | 5 | 296 | 6 | 8,434 | 24.5 | 6 | 7,822,491 | 45.2 | 6 |
| | 1909 | 52 | 2,290,806 | 5 | 253 | 6 | 6,773 | ..... | 5 | 5,388,954 | ..... | 6 |
| Indiana..... | 1919 | 39 | 1,273,203 | 10 | 158 | 11 | 4,328 | 0.5 | 10 | 5,588,748 | 51.2 | 12 |
| | 1914 | 35 | 1,030,128 | 10 | 174 | 13 | 4,307 | 30.2 | 10 | 3,697,112 | 51.0 | 12 |
| | 1909 | 35 | 894,434 | 10 | 163 | 11 | 3,308 | ..... | 13 | 2,448,355 | ..... | 12 |
| Illinois..... | 1919 | 55 | 3,944,757 | 3 | 470 | 3 | 12,189 | -2.3 | 3 | 20,606,032 | 60.4 | 3 |
| | 1914 | 43 | 3,376,082 | 3 | 461 | 3 | 12,470 | 14.2 | 2 | 12,846,432 | 27.8 | 3 |
| | 1909 | 43 | 3,064,154 | 3 | 448 | 2 | 10,916 | ..... | 2 | 10,049,445 | ..... | 2 |
| Michigan..... | 1919 | 40 | 2,050,776 | 7 | 197 | 7 | 5,746 | 1.9 | 9 | 9,416,373 | 84.1 | 8 |
| | 1914 | 33 | 1,424,852 | 8 | 234 | 7 | 5,637 | 30.2 | 8 | 5,115,286 | 56.8 | 9 |
| | 1909 | 33 | 1,130,305 | 9 | 219 | 7 | 4,328 | ..... | 8 | 3,261,841 | ..... | 9 |
| Wisconsin..... | 1919 | 25 | 1,005,732 | 13 | 145 | 12 | 2,529 | -4.4 | 17 | 3,650,118 | 55.1 | 16 |
| | 1914 | 23 | 883,030 | 12 | 150 | 14 | 2,645 | 13.4 | 16 | 2,353,183 | 27.9 | 15 |
| | 1909 | 23 | 799,961 | 12 | 147 | 13 | 2,332 | ..... | 16 | 1,840,327 | ..... | 16 |
| WEST NORTH CENTRAL..... | 1919 | 90 | 3,788,495 | ..... | 713 | ..... | 18,133 | 1.1 | ..... | 27,396,421 | 55.8 | ..... |
| | 1914 | 73 | 3,250,839 | ..... | 821 | ..... | 17,939 | 12.6 | ..... | 17,582,715 | 30.5 | ..... |
| | 1909 | 74 | 3,021,777 | ..... | 786 | ..... | 15,934 | ..... | ..... | 13,478,046 | ..... | ..... |
| Minnesota..... | 1919 | 16 | 876,532 | 14 | 156 | 12 | 3,818 | -5.1 | 13 | 6,087,088 | 48.4 | 12 |
| | 1914 | 12 | 751,159 | 14 | 188 | 9 | 4,024 | 20.6 | 11 | 4,100,464 | 43.6 | 11 |
| | 1909 | 12 | 694,378 | 13 | 158 | 12 | 3,338 | ..... | 11 | 2,855,738 | ..... | 11 |
| Iowa..... | 1919 | 21 | 636,695 | 17 | 129 | 15 | 2,466 | -14.5 | 20 | 3,904,658 | 35.5 | 14 |
| | 1914 | 19 | 539,425 | 17 | 176 | 12 | 2,883 | 16.8 | 15 | 2,882,005 | 39.7 | 14 |
| | 1909 | 19 | 487,596 | 17 | 181 | 8 | 2,468 | ..... | 14 | 2,063,451 | ..... | 14 |
| Missouri..... | 1919 | 17 | 1,398,187 | 9 | 165 | 10 | 6,839 | 1.2 | 7 | 9,438,493 | 49.4 | 7 |
| | 1914 | 15 | 1,273,276 | 9 | 177 | 11 | 6,767 | 10.5 | 7 | 6,316,206 | 28.8 | 7 |
| | 1909 | 15 | 1,202,834 | 8 | 171 | 10 | 6,113 | ..... | 7 | 4,904,249 | ..... | 7 |
| North Dakota..... | 1919 | 3 | 47,124 | 44 | 29 | 33 | 488 | 2.1 | 44 | 844,433 | 42.4 | 43 |
| | 1914 | 2 | 30,899 | 46 | 30 | 39 | 478 | -5.0 | 42 | 592,843 | 8.1 | 39 |
| | 1909 | 2 | 27,011 | 45 | 34 | 34 | 503 | ..... | 40 | 548,175 | ..... | 37 |

¹ Population of incorporated places (municipalities) for 1919 as of July 1, 1920; for 1914, July 1, 1914; and for 1909 as of July 1, 1910.
² A minus sign (-) denotes decrease.

POWER LAUNDRIES.

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TABLE 2.—COMPARATIVE STATISTICS: URBAN POPULATION AND LAUNDRIES, BY DIVISIONS AND STATES, WITH STATE RANK: 1919, 1914, AND 1909—Continued.

| DIVISION AND STATE. | Census year. | POPULATION. | | | POWER LAUNDRIES. | | | | | | | |
|---------------------------|--------------|----------------------------------|---------------------|-------------|------------------|-------------|----------------------------------|------------------------------------|-------------|--------------------------------|------------------------------------|-------------|
| | | Places of 8,000 or more, number. | Urban. ¹ | | Establishments. | | Persons engaged in the industry. | | | Amount received for work done. | | |
| | | | Number. | State rank. | Number. | State rank. | Number. | Per cent of increase. ² | State rank. | Amount. | Per cent of increase. ² | State rank. |
| WEST NORTH CENTRAL—Con. | | | | | | | | | | | | |
| South Dakota..... | 1919 | 5 | 67,031 | 42 | 29 | 33 | 542 | 19.4 | 42 | \$940,179 | 96.9 | 42 |
| | 1914 | 2 | 31,415 | 45 | 26 | 42 | 454 | 1.6 | 43 | 477,474 | 12.9 | 42 |
| | 1909 | 3 | 33,507 | 43 | 28 | 37 | 447 | | 41 | 423,092 | | 41 |
| Nebraska..... | 1919 | 8 | 313,624 | 29 | 69 | 22 | 1,710 | 14.8 | 28 | 2,823,234 | 86.0 | 25 |
| | 1914 | 7 | 255,396 | 29 | 74 | 23 | 1,490 | 13.4 | 27 | 1,517,024 | 26.8 | 24 |
| | 1909 | 7 | 232,831 | 20 | 76 | 21 | 1,314 | | 25 | 1,197,374 | | 23 |
| Kansas..... | 1919 | 20 | 449,302 | 24 | 136 | 13 | 2,270 | 22.5 | 23 | 3,358,336 | 98.0 | 21 |
| | 1914 | 16 | 369,269 | 25 | 150 | 14 | 1,853 | 5.8 | 24 | 1,696,799 | 14.1 | 20 |
| | 1909 | 16 | 343,620 | 24 | 138 | 14 | 1,751 | | 18 | 1,485,967 | | 19 |
| SOUTH ATLANTIC..... | 1919 | 81 | 3,590,017 | | 351 | | 13,746 | 20.0 | | 18,211,883 | 104.1 | |
| | 1914 | 61 | 2,771,797 | | 369 | | 11,457 | 31.4 | | 8,925,073 | 52.0 | |
| | 1909 | 61 | 2,471,830 | | 310 | | 8,719 | | | 5,871,782 | | |
| Delaware..... | 1919 | 1 | 111,248 | 39 | 6 | 41 | 300 | -18.7 | 48 | 444,065 | 82.8 | 40 |
| | 1914 | 1 | 96,501 | 41 | 12 | 48 | 369 | 30.4 | 46 | 242,597 | 29.9 | 47 |
| | 1909 | 1 | 87,641 | 41 | 15 | 45 | 283 | | 46 | 187,038 | | 47 |
| Maryland..... | 1919 | 5 | 820,430 | 15 | 46 | 28 | 1,888 | -1.7 | 25 | 2,040,686 | 89.7 | 26 |
| | 1914 | 5 | 693,792 | 15 | 54 | 29 | 1,921 | 28.3 | 23 | 1,391,902 | 40.1 | 26 |
| | 1909 | 5 | 617,083 | 15 | 41 | 32 | 1,497 | | 24 | 993,766 | | 27 |
| District of Columbia..... | 1919 | 1 | 443,056 | 25 | 21 | 38 | 1,805 | 33.6 | 27 | 2,559,210 | 150.1 | 27 |
| | 1914 | 1 | 377,236 | 24 | 18 | 44 | 1,351 | 23.3 | 30 | 1,023,475 | 28.6 | 33 |
| | 1909 | 1 | 332,175 | 25 | 17 | 44 | 1,096 | | 30 | 795,999 | | 31 |
| Virginia..... | 1919 | 12 | 505,451 | 18 | 63 | 23 | 2,674 | 36.1 | 15 | 3,009,759 | 107.0 | 23 |
| | 1914 | 10 | 440,485 | 22 | 71 | 25 | 1,965 | 29.0 | 22 | 1,453,912 | 44.9 | 25 |
| | 1909 | 10 | 383,314 | 22 | 57 | 26 | 1,523 | | 23 | 1,003,191 | | 26 |
| West Virginia..... | 1919 | 11 | 273,834 | 31 | 44 | 29 | 1,057 | 13.8 | 36 | 1,775,349 | 125.9 | 34 |
| | 1914 | 10 | 201,336 | 33 | 44 | 32 | 929 | 17.2 | 35 | 785,782 | 35.0 | 37 |
| | 1909 | 10 | 173,940 | 34 | 43 | 29 | 793 | | 35 | 581,886 | | 35 |
| North Carolina..... | 1919 | 18 | 352,770 | 27 | 56 | 26 | 1,931 | 22.2 | 30 | 2,252,100 | 119.4 | 29 |
| | 1914 | 12 | 230,002 | 30 | 59 | 28 | 1,335 | 44.5 | 31 | 1,020,368 | 83.3 | 32 |
| | 1909 | 12 | 200,481 | 31 | 43 | 29 | 924 | | 32 | 559,949 | | 36 |
| South Carolina..... | 1919 | 9 | 201,740 | 34 | 28 | 34 | 723 | 23.0 | 38 | 533,801 | 97.5 | 44 |
| | 1914 | 6 | 154,349 | 36 | 23 | 43 | 588 | 33.0 | 40 | 422,212 | 56.9 | 44 |
| | 1909 | 6 | 136,680 | 36 | 24 | 41 | 440 | | 42 | 209,112 | | 44 |
| Georgia..... | 1919 | 15 | 553,656 | 19 | 52 | 26 | 2,522 | 25.6 | 18 | 3,216,532 | 97.1 | 22 |
| | 1914 | 11 | 441,324 | 21 | 43 | 33 | 2,008 | 31.7 | 20 | 1,632,221 | 62.1 | 23 |
| | 1909 | 11 | 391,956 | 21 | 42 | 31 | 1,525 | | 22 | 1,006,724 | | 25 |
| Florida..... | 1919 | 9 | 267,832 | 32 | 35 | 32 | 1,146 | 15.6 | 33 | 1,480,051 | 56.4 | 36 |
| | 1914 | 5 | 166,772 | 35 | 45 | 31 | 991 | 55.3 | 35 | 940,314 | 99.6 | 30 |
| | 1909 | 5 | 148,030 | 35 | 28 | 37 | 638 | | 38 | 474,688 | | 39 |
| EAST SOUTH CENTRAL..... | 1919 | 42 | 1,480,738 | | 182 | | 8,028 | 10.9 | | 9,687,736 | 65.2 | |
| | 1914 | 35 | 1,277,101 | | 210 | | 7,241 | 20.3 | | 5,893,673 | 39.5 | |
| | 1909 | 35 | 1,105,182 | | 204 | | 6,018 | | | 4,201,927 | | |
| Kentucky..... | 1919 | 13 | 482,428 | 22 | 63 | 23 | 2,591 | 24.2 | 16 | 2,905,346 | 74.4 | 24 |
| | 1914 | 11 | 443,733 | 20 | 75 | 22 | 2,080 | 19.3 | 18 | 1,665,979 | 37.8 | 22 |
| | 1909 | 11 | 432,851 | 19 | 73 | 22 | 1,749 | | 19 | 1,208,811 | | 21 |
| Tennessee..... | 1919 | 8 | 467,168 | 23 | 59 | 25 | 3,041 | 4.9 | 14 | 3,639,602 | 58.5 | 17 |
| | 1914 | 7 | 389,902 | 23 | 67 | 26 | 2,898 | 21.2 | 14 | 2,296,797 | 39.8 | 16 |
| | 1909 | 7 | 356,516 | 23 | 63 | 23 | 2,392 | | 15 | 1,643,497 | | 17 |
| Alabama..... | 1919 | 11 | 394,859 | 25 | 37 | 31 | 1,084 | 7.3 | 29 | 2,196,118 | 61.4 | 30 |
| | 1914 | 8 | 315,304 | 27 | 41 | 35 | 1,569 | 23.2 | 25 | 1,380,688 | 49.7 | 28 |
| | 1909 | 8 | 281,037 | 27 | 38 | 33 | 1,274 | | 27 | 909,130 | | 29 |
| Mississippi..... | 1919 | 10 | 145,283 | 37 | 23 | 37 | 712 | 3.5 | 39 | 946,670 | 75.2 | 41 |
| | 1914 | 9 | 128,162 | 39 | 27 | 41 | 688 | 14.1 | 39 | 540,209 | 22.6 | 41 |
| | 1909 | 9 | 124,778 | 38 | 30 | 36 | 603 | | 39 | 440,679 | | 40 |
| WEST SOUTH CENTRAL..... | 1919 | 64 | 2,193,317 | | 343 | | 11,558 | 24.7 | | 16,553,772 | 79.6 | |
| | 1914 | 49 | 1,639,755 | | 367 | | 9,266 | 36.6 | | 9,218,107 | 54.8 | |
| | 1909 | 49 | 1,406,065 | | 290 | | 6,782 | | | 5,954,350 | | |
| Arkansas..... | 1919 | 8 | 167,482 | 36 | 49 | 27 | 1,045 | 3.4 | 37 | 1,393,024 | 66.5 | 37 |
| | 1914 | 6 | 133,140 | 38 | 53 | 30 | 1,011 | 18.9 | 34 | 830,457 | 22.3 | 37 |
| | 1909 | 6 | 120,233 | 39 | 45 | 28 | 860 | | 33 | 684,036 | | 34 |
| Louisiana..... | 1919 | 7 | 508,541 | 21 | 24 | 36 | 1,837 | 34.2 | 26 | 2,349,774 | 97.4 | 28 |
| | 1914 | 6 | 450,264 | 19 | 28 | 40 | 1,369 | 22.6 | 29 | 1,190,148 | 39.7 | 31 |
| | 1909 | 6 | 410,593 | 20 | 25 | 40 | 1,117 | | 29 | 852,021 | | 30 |
| Oklahoma..... | 1919 | 15 | 351,774 | 28 | 99 | 17 | 2,355 | 44.3 | 21 | 3,561,059 | 113.3 | 19 |
| | 1914 | 10 | 216,613 | 31 | 101 | 18 | 1,632 | 25.4 | 25 | 1,669,721 | 39.4 | 21 |
| | 1909 | 10 | 188,530 | 32 | 93 | 19 | 1,301 | | 26 | 1,197,978 | | 22 |
| Texas..... | 1919 | 34 | 1,165,520 | 11 | 171 | 9 | 6,321 | 20.3 | 8 | 9,249,915 | 67.5 | 9 |
| | 1914 | 27 | 839,738 | 13 | 186 | 10 | 5,254 | 49.5 | 9 | 5,521,841 | 71.5 | 8 |
| | 1909 | 27 | 680,709 | 14 | 127 | 15 | 3,514 | | 9 | 3,220,315 | | 10 |

¹ Population of incorporated places (municipalities) for 1919 as of July 1, 1920; for 1914, July 1, 1914; and for 1909 as of July 1, 1910.² A minus sign (—) denotes decrease.

MANUFACTURES.

TABLE 2.—COMPARATIVE STATISTICS: URBAN POPULATION AND LAUNDRIES, BY DIVISIONS AND STATES, WITH STATE RANK: 1919, 1914 AND 1909—Continued.

| DIVISION AND STATE. | Census year. | POPULATION. | | | POWER LAUNDRIES. | | | | | | | |
|---------------------|--------------|----------------------------------|---------------------|-------------|------------------|-------------|----------------------------------|------------------------------------|-------------|--------------------------------|------------------------------------|-------------|
| | | Places of 8,000 or more, number. | Urban. ¹ | | Establishments. | | Persons engaged in the industry. | | | Amount received for work done. | | |
| | | | Number. | State rank. | Number. | State rank. | Number. | Per cent of increase. ² | State rank. | Amount. | Per cent of increase. ² | State rank. |
| MOUNTAIN..... | 1919 | 31 | 858,858 | ..... | 281 | ..... | 6,932 | 21.2 | ..... | \$11,330,923 | 32.5 | ..... |
| | 1914 | 25 | 716,090 | ..... | 270 | ..... | 5,721 | 18.7 | ..... | 6,550,610 | 70.6 | ..... |
| | 1909 | 26 | 666,736 | ..... | 211 | ..... | 4,819 | ..... | ..... | 5,011,855 | ..... | ..... |
| Montana..... | 1919 | 6 | 118,183 | 38 | 49 | 27 | 1,092 | 18.7 | 35 | 1,894,356 | 49.6 | 33 |
| | 1914 | 6 | 106,603 | 40 | 42 | 34 | 920 | 27.2 | 37 | 1,266,552 | 35.4 | 20 |
| | 1909 | 6 | 99,165 | 40 | 26 | 39 | 723 | ..... | 36 | 935,260 | ..... | 28 |
| Idaho..... | 1919 | 4 | 53,569 | 43 | 40 | 30 | 652 | 27.8 | 42 | 1,179,846 | 90.0 | 38 |
| | 1914 | 2 | 32,402 | 44 | 36 | 37 | 510 | 24.4 | 41 | 592,749 | 50.4 | 40 |
| | 1909 | 2 | 26,816 | 46 | 24 | 41 | 410 | ..... | 43 | 394,226 | ..... | 42 |
| Wyoming..... | 1919 | 3 | 35,082 | 45 | 23 | 37 | 412 | 94.3 | 45 | 763,953 | 220.9 | 45 |
| | 1914 | 2 | 21,189 | 47 | 18 | 44 | 212 | 4.4 | 48 | 238,048 | 9.8 | 48 |
| | 1909 | 3 | 28,111 | 44 | 14 | 46 | 203 | ..... | 47 | 216,847 | ..... | 46 |
| Colorado..... | 1919 | 8 | 382,528 | 26 | 92 | 18 | 2,470 | 18.8 | 19 | 3,759,849 | 73.8 | 15 |
| | 1914 | 7 | 345,151 | 26 | 94 | 19 | 2,079 | 0.1 | 19 | 2,163,263 | 0.2 | 17 |
| | 1909 | 7 | 325,439 | 26 | 99 | 17 | 2,076 | ..... | 17 | 1,980,693 | ..... | 15 |
| New Mexico..... | 1919 | 1 | 15,370 | 46 | 16 | 39 | 326 | 19.0 | 47 | 432,279 | 54.2 | 47 |
| | 1914 | 1 | 12,813 | 48 | 15 | 47 | 274 | 63.1 | 47 | 280,373 | 79.2 | 46 |
| | 1909 | 1 | 11,120 | 48 | 8 | 48 | 168 | ..... | 48 | 156,419 | ..... | 49 |
| Arizona..... | 1919 | 4 | 69,714 | 41 | 21 | 38 | 598 | 57.8 | 43 | 987,438 | 131.8 | 39 |
| | 1914 | 3 | 44,804 | 43 | 17 | 46 | 379 | 22.7 | 45 | 425,999 | 15.4 | 43 |
| | 1909 | 3 | 26,763 | 47 | 13 | 47 | 309 | ..... | 45 | 369,282 | ..... | 43 |
| Utah..... | 1919 | 4 | 172,357 | 35 | 27 | 35 | 1,213 | 1.3 | 32 | 1,973,166 | 44.3 | 32 |
| | 1914 | 3 | 141,764 | 37 | 36 | 37 | 1,197 | 47.6 | 32 | 1,367,433 | 72.2 | 27 |
| | 1909 | 3 | 128,321 | 37 | 22 | 43 | 811 | ..... | 34 | 794,091 | ..... | 32 |
| Nevada..... | 1919 | 1 | 12,075 | 47 | 13 | 40 | 169 | 12.7 | 49 | 340,036 | 57.3 | 49 |
| | 1914 | 1 | 11,364 | 49 | 12 | 48 | 150 | 26.1 | 49 | 216,193 | 31.0 | 49 |
| | 1909 | 1 | 11,001 | 49 | 5 | 49 | 119 | ..... | 49 | 165,037 | ..... | 49 |
| PACIFIC..... | 1919 | 45 | 3,000,142 | ..... | 836 | ..... | 19,508 | 9.7 | ..... | 33,879,304 | 66.5 | ..... |
| | 1914 | 36 | 2,402,041 | ..... | 802 | ..... | 17,790 | 23.0 | ..... | 20,347,226 | 36.3 | ..... |
| | 1909 | 37 | 2,089,159 | ..... | 551 | ..... | 14,465 | ..... | ..... | 14,926,602 | ..... | ..... |
| Washington..... | 1919 | 11 | 656,681 | 16 | 177 | 8 | 4,032 | 7.7 | 12 | 7,336,715 | 72.6 | 10 |
| | 1914 | 10 | 584,323 | 16 | 192 | 8 | 3,744 | 0.3 | 13 | 4,251,620 | 11.4 | 10 |
| | 1909 | 10 | 546,708 | 16 | 172 | 9 | 3,731 | ..... | 10 | 3,814,825 | ..... | 8 |
| Oregon..... | 1919 | 4 | 303,248 | 30 | 73 | 20 | 2,253 | 14.4 | 24 | 3,629,983 | 60.1 | 18 |
| | 1914 | 4 | 265,205 | 28 | 78 | 21 | 1,969 | 17.6 | 21 | 2,146,868 | 36.7 | 18 |
| | 1909 | 5 | 252,015 | 28 | 58 | 25 | 1,674 | ..... | 20 | 1,569,982 | ..... | 13 |
| California..... | 1919 | 30 | 2,040,213 | 8 | 586 | 1 | 13,223 | 9.5 | 2 | 22,012,606 | 64.3 | 2 |
| | 1914 | 22 | 1,552,513 | 7 | 532 | 2 | 12,077 | 33.3 | 3 | 13,948,738 | 46.2 | 2 |
| | 1909 | 22 | 1,287,486 | 7 | 321 | 4 | 9,060 | ..... | 4 | 9,541,795 | ..... | 3 |

¹ Population of incorporated places (municipalities) for 1919 as of July 1, 1920; for 1914, July 1, 1914; and for 1909 as of July 1, 1910.
² A minus sign (—) denotes decrease.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

| CLASS. | Cen- sus year. | Total. | Male. | Female. | PER CENT OF TOTAL. | | CLASS. | Cen- sus year. | Total. | Male. | Female. | PER CENT OF TOTAL. | |
|-------------------------------------|----------------------|---------|--------|---------|-----------------------|--------------|---|----------------------|---------|--------|---------|-----------------------|--------------|
| | | | | | Male. | Fe- male. | | | | | | Male. | Fe- male. |
| All classes..... | 1919 | 152,569 | 53,150 | 99,419 | 34.8 | 65.2 | Clerks and other subordinate sala- ried employees. | 1919 | 10,223 | 4,809 | 5,414 | 47.0 | 53.0 |
| | 1914 | 149,100 | 54,373 | 94,727 | 36.5 | 63.5 | | 1914 | 7,882 | 3,604 | 4,278 | 45.7 | 54.3 |
| | 1909 | 124,214 | 42,382 | 81,832 | 34.1 | 65.9 | | 1909 | 6,151 | 2,837 | 3,314 | 46.1 | 53.9 |
| Proprietors and officials..... | 1919 | 10,467 | 9,688 | 779 | 92.0 | 7.4 | Wage earners (average number)..... | 1919 | 131,879 | 38,653 | 93,226 | 29.3 | 70.7 |
| | 1914 | 10,577 | 9,869 | 708 | 93.3 | 6.7 | | 1914 | 130,641 | 40,900 | 89,741 | 31.3 | 68.7 |
| | 1909 | 8,579 | 8,065 | 514 | 94.0 | 6.0 | | 1909 | 109,484 | 31,480 | 78,004 | 28.8 | 71.2 |
| Proprietors and firm members.. | 1919 | 5,514 | 5,100 | 414 | 92.5 | 7.5 | 16 years of age and over..... | 1919 | 131,219 | 38,393 | 92,826 | 29.3 | 70.7 |
| | 1914 | 6,397 | 5,916 | 481 | 92.5 | 7.5 | | 1914 | 130,053 | 40,747 | 89,306 | 31.3 | 68.7 |
| | 1909 | 5,560 | 5,212 | 348 | 93.7 | 6.3 | | 1909 | 108,543 | 31,214 | 77,329 | 28.8 | 71.2 |
| Salaried officers of corporations.. | 1919 | 2,071 | 1,940 | 131 | 93.7 | 6.3 | Under 16 years of age..... | 1919 | 660 | 260 | 400 | 39.4 | 60.6 |
| | 1914 | 1,666 | 1,547 | 119 | 92.9 | 7.1 | | 1914 | 588 | 153 | 435 | 26.0 | 74.0 |
| | 1909 | 1,069 | 1,016 | 53 | 95.0 | 5.0 | | 1909 | 941 | 266 | 675 | 28.4 | 71.6 |
| Superintendents and managers.. | 1919 | 2,882 | 2,648 | 234 | 91.9 | 8.1 | | | | | | | |
| | 1914 | 2,514 | 2,408 | 108 | 95.7 | 4.3 | | | | | | | |
| | 1909 | 1,950 | 1,837 | 113 | 94.2 | 5.8 | | | | | | | |

POWER LAUNDRIES.

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TABLE 4.—WAGE EARNERS, BY MONTHS, FOR STATES: 1919.

(The month of maximum employment for each state is indicated by bold-faced figures and that of minimum employment by *italic* figures.)

| DIVISION AND STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum- is of maximum. |
|---------------------------|--------------------------------------|---|----------------|--------------|---------------|---------|---------|----------------|---------|--------------|----------|-----------|-----------|--|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| UNITED STATES: | | | | | | | | | | | | | | |
| 1919..... | 131,879 | 128,821 | <i>128,689</i> | 129,305 | 129,569 | 130,449 | 132,032 | 134,919 | 134,747 | 133,503 | 133,041 | 133,380 | 134,153 | 95.5 |
| Males..... | 38,653 | 37,317 | <i>37,480</i> | 37,945 | 38,055 | 38,205 | 38,585 | 39,161 | 39,245 | 39,240 | 39,275 | 39,559 | 39,859 | 93.6 |
| Females..... | 93,226 | 91,504 | <i>91,149</i> | 91,460 | 91,514 | 92,244 | 93,447 | 95,758 | 95,502 | 94,263 | 93,766 | 93,811 | 94,294 | 95.2 |
| 1914..... | 130,641 | 128,478 | <i>127,847</i> | 128,525 | 129,716 | 131,393 | 133,895 | 134,869 | 134,078 | 132,512 | 129,992 | 128,320 | 128,004 | 94.7 |
| 1909..... | 109,484 | <i>108,749</i> | 103,037 | 104,970 | 106,422 | 108,149 | 111,313 | 114,211 | 114,539 | 113,738 | 111,500 | 110,479 | 110,805 | 90.6 |
| NEW ENGLAND: | | | | | | | | | | | | | | |
| Maine..... | 993 | <i>814</i> | 833 | 934 | 914 | 970 | 1,025 | 1,154 | 1,199 | 1,094 | 1,012 | 975 | 992 | 67.9 |
| New Hampshire..... | 616 | <i>566</i> | 577 | 578 | 531 | 593 | 638 | 683 | 688 | 608 | 633 | 596 | 591 | 82.3 |
| Vermont..... | 324 | <i>302</i> | 308 | 308 | 313 | 317 | 328 | 357 | 360 | 338 | 321 | 318 | 318 | 83.9 |
| Massachusetts..... | 6,821 | <i>6,650</i> | 6,600 | 6,738 | 6,781 | 6,851 | 6,925 | 6,951 | 6,903 | 6,843 | 6,833 | 6,839 | 6,843 | 95.7 |
| Rhode Island..... | 1,035 | <i>980</i> | 991 | 994 | 998 | 1,029 | 1,053 | 1,078 | 1,057 | 1,053 | 1,059 | 1,063 | 1,069 | 90.9 |
| Connecticut..... | 2,024 | <i>1,946</i> | 1,956 | 1,950 | 1,902 | 2,010 | 2,052 | 2,084 | 2,069 | 2,092 | 2,074 | 2,051 | 2,042 | 93.1 |
| MIDDLE ATLANTIC: | | | | | | | | | | | | | | |
| New York..... | 11,908 | 11,724 | <i>11,071</i> | 11,772 | 11,801 | 11,952 | 12,092 | 12,298 | 12,333 | 12,114 | 11,750 | 12,276 | 12,193 | 94.6 |
| New Jersey..... | 3,581 | <i>3,450</i> | 3,434 | 3,478 | 3,528 | 3,526 | 3,589 | 3,760 | 3,783 | 3,701 | 3,595 | 3,543 | 3,570 | 90.8 |
| Pennsylvania..... | 8,584 | <i>8,497</i> | 8,506 | 8,521 | 8,528 | 8,576 | 8,609 | 8,637 | 8,575 | 8,524 | 8,677 | 8,718 | 8,641 | 97.6 |
| EAST NORTH CENTRAL: | | | | | | | | | | | | | | |
| Ohio..... | 7,040 | 6,956 | <i>6,923</i> | 6,928 | 6,929 | 6,961 | 7,037 | 7,192 | 7,054 | 7,004 | 7,198 | 7,135 | 7,233 | 95.7 |
| Indiana..... | 3,568 | 3,609 | 3,508 | 3,577 | 3,617 | 3,618 | 3,540 | 3,513 | 3,437 | 3,468 | 3,535 | 3,655 | 3,681 | 93.4 |
| Illinois..... | 10,579 | 10,472 | 10,538 | 10,636 | 10,605 | 10,588 | 10,619 | 10,702 | 10,669 | 10,451 | 10,541 | 10,499 | 10,628 | 97.7 |
| Michigan..... | 4,913 | <i>4,637</i> | 4,677 | 4,662 | 4,843 | 4,922 | 5,033 | 5,238 | 5,211 | 5,062 | 4,985 | 4,836 | 4,871 | 87.4 |
| Wisconsin..... | 2,123 | <i>2,101</i> | 2,110 | 2,104 | 2,079 | 2,105 | 2,119 | 2,150 | 2,159 | 2,148 | 2,132 | 2,137 | 2,132 | 96.3 |
| WEST NORTH CENTRAL: | | | | | | | | | | | | | | |
| Minnesota..... | 3,277 | 3,225 | 3,245 | 3,266 | 3,260 | 3,266 | 3,303 | 3,340 | 3,294 | <i>3,210</i> | 3,269 | 3,296 | 3,350 | 95.8 |
| Iowa..... | 2,074 | 2,075 | 2,050 | 2,079 | 2,103 | 2,017 | 2,063 | 2,140 | 2,043 | 2,106 | 2,076 | 2,075 | 2,067 | 94.0 |
| Missouri..... | 5,997 | <i>5,980</i> | 5,887 | 5,932 | 5,987 | 5,940 | 6,000 | 6,048 | 6,004 | 6,016 | 6,020 | 6,035 | 6,085 | 97.6 |
| North Dakota..... | 420 | <i>377</i> | 379 | 391 | 420 | 429 | 437 | 454 | 453 | 449 | 438 | 433 | 401 | 82.1 |
| South Dakota..... | 469 | <i>438</i> | 440 | 451 | 450 | 452 | 473 | 489 | 460 | 465 | 457 | 462 | 451 | 91.2 |
| Nebraska..... | 1,471 | <i>1,397</i> | 1,408 | 1,414 | 1,432 | 1,448 | 1,459 | 1,502 | 1,504 | 1,513 | 1,530 | 1,516 | 1,532 | 91.2 |
| Kansas..... | 1,969 | <i>1,881</i> | 1,882 | 1,905 | 1,924 | 1,947 | 1,966 | 2,024 | 1,999 | 2,007 | 1,989 | 1,980 | 2,004 | 92.9 |
| SOUTH ATLANTIC: | | | | | | | | | | | | | | |
| Delaware..... | 284 | <i>283</i> | 284 | <i>270</i> | 283 | 280 | 283 | 281 | 285 | 289 | 283 | 285 | 288 | 94.2 |
| Maryland..... | 1,019 | 1,009 | 1,021 | <i>1,003</i> | 1,005 | 1,023 | 1,025 | 1,036 | 1,032 | 1,005 | 1,010 | 1,014 | 1,039 | 97.8 |
| District of Columbia..... | 1,665 | 1,669 | 1,650 | 1,662 | 1,665 | 1,631 | 1,623 | 1,709 | 1,686 | 1,618 | 1,703 | 1,666 | 1,655 | 93.8 |
| Virginia..... | 2,367 | <i>2,260</i> | 2,282 | 2,316 | 2,281 | 2,331 | 2,377 | 2,423 | 2,475 | 2,438 | 2,419 | 2,380 | 2,417 | 91.3 |
| West Virginia..... | 920 | <i>892</i> | 895 | 891 | 880 | 882 | 895 | 934 | 903 | 903 | 905 | 907 | 902 | 89.1 |
| North Carolina..... | 1,433 | <i>1,370</i> | 1,392 | 1,377 | 1,417 | 1,411 | 1,444 | 1,459 | 1,467 | 1,464 | 1,440 | 1,450 | 1,485 | 91.5 |
| South Carolina..... | 625 | <i>610</i> | 613 | 614 | 608 | 595 | 615 | 628 | 629 | 626 | 628 | 627 | 604 | 88.5 |
| Georgia..... | 2,194 | 2,078 | <i>2,097</i> | 2,137 | 2,103 | 2,100 | 2,160 | 2,215 | 2,315 | 2,243 | 2,270 | 2,353 | 2,275 | 87.8 |
| Florida..... | 983 | <i>1,081</i> | 1,081 | 1,054 | 965 | 878 | 899 | 917 | 925 | 907 | 959 | 1,013 | 1,117 | 78.6 |
| EAST SOUTH CENTRAL: | | | | | | | | | | | | | | |
| Kentucky..... | 2,294 | <i>2,240</i> | 2,246 | 2,315 | 2,272 | 2,297 | 2,283 | 2,301 | 2,333 | 2,301 | 2,272 | 2,345 | 2,323 | 95.5 |
| Tennessee..... | 2,093 | 2,095 | 2,082 | 2,067 | <i>2,046</i> | 2,073 | 2,073 | 2,083 | 2,040 | 2,097 | 2,071 | 2,075 | 2,070 | 95.0 |
| Alabama..... | 1,462 | <i>1,457</i> | 1,450 | 1,449 | 1,447 | 1,451 | 1,484 | 1,501 | 1,484 | 1,499 | 1,566 | 1,573 | 1,532 | 91.8 |
| Mississippi..... | 634 | <i>611</i> | 617 | 612 | 622 | 610 | 634 | 661 | 656 | 647 | 644 | 652 | 636 | 92.4 |
| WEST SOUTH CENTRAL: | | | | | | | | | | | | | | |
| Arkansas..... | 937 | <i>951</i> | 943 | 916 | <i>910</i> | 914 | 921 | 932 | 900 | 973 | 962 | 931 | 931 | 93.5 |
| Louisiana..... | 1,605 | <i>1,629</i> | 1,645 | 1,570 | 1,578 | 1,597 | 1,612 | 1,621 | 1,652 | 1,644 | 1,637 | 1,638 | 1,637 | 92.6 |
| Oklahoma..... | 1,994 | <i>1,887</i> | 1,903 | 1,929 | 1,945 | 1,972 | 2,001 | 2,059 | 2,051 | 2,085 | 2,056 | 2,029 | 2,011 | 90.5 |
| Texas..... | 5,468 | <i>5,110</i> | 5,072 | 5,126 | 5,212 | 5,281 | 5,351 | 5,677 | 5,739 | 5,750 | 5,771 | 5,719 | 5,608 | 87.3 |
| MOUNTAIN: | | | | | | | | | | | | | | |
| Montana..... | 971 | <i>995</i> | 969 | 952 | 936 | 937 | 972 | 1,020 | 1,007 | 1,008 | 959 | 935 | 961 | 91.5 |
| Idaho..... | 571 | <i>545</i> | 539 | 551 | 555 | 573 | 585 | 602 | 591 | 585 | 580 | 574 | 572 | 89.5 |
| Wyoming..... | 357 | <i>327</i> | 325 | 327 | 341 | 347 | 359 | 383 | 395 | 391 | 362 | 358 | 359 | 82.3 |
| Colorado..... | 2,086 | <i>1,969</i> | 1,962 | <i>1,959</i> | 1,977 | 2,006 | 2,108 | 2,286 | 2,286 | 2,193 | 2,104 | 2,085 | 2,120 | 85.6 |
| New Mexico..... | 292 | <i>250</i> | 255 | 255 | 261 | 269 | 304 | 307 | 328 | 323 | 315 | 319 | 316 | 77.1 |
| Arizona..... | 539 | <i>519</i> | 508 | 513 | 534 | 550 | 549 | 582 | 548 | 538 | 549 | 546 | 552 | 90.4 |
| Utah..... | 1,040 | <i>1,013</i> | 1,052 | 1,020 | 1,034 | 1,060 | 1,041 | 1,059 | 1,085 | 1,030 | 1,043 | 1,043 | 1,045 | 92.7 |
| Nevada..... | 148 | <i>151</i> | 148 | 144 | 145 | 155 | 151 | 150 | 154 | 145 | 145 | 143 | 148 | 91.6 |
| PACIFIC: | | | | | | | | | | | | | | |
| Washington..... | 3,539 | <i>3,494</i> | 3,448 | <i>3,400</i> | 3,431 | 3,481 | 3,480 | 3,587 | 3,573 | 3,658 | 3,630 | 3,620 | 3,666 | 92.7 |
| Oregon..... | 2,033 | <i>1,938</i> | 1,976 | 1,987 | 1,969 | 2,019 | 2,059 | 2,098 | 2,127 | 2,104 | 2,021 | 2,033 | 2,055 | 91.1 |
| California..... | 11,264 | <i>11,219</i> | 11,118 | 11,029 | <i>11,009</i> | 11,063 | 11,262 | 11,530 | 11,378 | 11,364 | 11,381 | 11,297 | 11,528 | 95.5 |

MANUFACTURES.

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY DIVISIONS AND STATES: 1919 AND 1914.

| DIVISION AND STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|---------------------------|--------------|---------|--|--------------------|------------------|--------------------|--------|--------------------|--------|----------|
| | | | 44 and under. | Between 44 and 48. | 48. ¹ | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| UNITED STATES..... | 1919 | 131,870 | 11,221 | 8,533 | 41,413 | 31,765 | 28,271 | 5,001 | 5,354 | 321 |
| | 1914 | 130,641 | (2) | (2) | 20,515 | 24,385 | 49,700 | 12,879 | 13,953 | 209 |
| | 1909 | 109,484 | (2) | (2) | 9,216 | 17,285 | 20,790 | 24,564 | 36,884 | 745 |
| NEW ENGLAND..... | 1919 | 11,813 | 1,017 | 509 | 5,639 | 1,802 | 1,201 | 601 | 52 | 2 |
| Maine..... | 1919 | 903 | (2) | 34 | 83 | 238 | 520 | 14 | 10 | 2 |
| | 1914 | 930 | (2) | (2) | 61 | 159 | 317 | 104 | 287 | 2 |
| New Hampshire..... | 1919 | 616 | (2) | 68 | 138 | 228 | 151 | 15 | 11 | 1 |
| | 1914 | 760 | (2) | (2) | 228 | 116 | 161 | 226 | 29 | 1 |
| Vermont..... | 1919 | 324 | 37 | 6 | 76 | 6 | 90 | 82 | 25 | 2 |
| Massachusetts..... | 1919 | 6,821 | 1,252 | 413 | 4,714 | 279 | 160 | 318 | 3 | 1 |
| | 1914 | 7,771 | (2) | (2) | 1,376 | 1,674 | 4,373 | 318 | 30 | 1 |
| Rhode Island..... | 1919 | 1,035 | (2) | 244 | 276 | 436 | 48 | 11 | 20 | 1 |
| | 1914 | 1,192 | (2) | (2) | 171 | 154 | 836 | 11 | 20 | 1 |
| Connecticut..... | 1919 | 2,024 | (2) | 110 | 352 | 615 | 232 | 490 | 3 | 3 |
| | 1914 | 1,913 | (2) | (2) | 427 | 390 | 406 | 611 | 76 | 3 |
| MIDDLE ATLANTIC..... | 1919 | 24,163 | 3,568 | 2,188 | 5,415 | 8,341 | 4,241 | 213 | 192 | 5 |
| New York..... | 1919 | 11,998 | 1,991 | 990 | 3,743 | 3,378 | 1,796 | 66 | 31 | 3 |
| | 1914 | 13,751 | (2) | (2) | 2,061 | 1,518 | 9,011 | 812 | 349 | 3 |
| New Jersey..... | 1919 | 3,581 | (2) | 500 | 611 | 1,140 | 463 | 54 | 58 | 1 |
| | 1914 | 3,642 | (2) | (2) | 669 | 1,057 | 604 | 643 | 669 | 1 |
| Pennsylvania..... | 1919 | 8,584 | (2) | 698 | 1,061 | 3,823 | 1,982 | 93 | 103 | 2 |
| | 1914 | 10,410 | (2) | (2) | 1,750 | 3,019 | 5,205 | 405 | 25 | 6 |
| EAST NORTH CENTRAL..... | 1919 | 28,223 | 2,020 | 2,037 | 4,189 | 11,795 | 5,840 | 1,462 | 849 | 22 |
| Ohio..... | 1919 | 7,040 | (2) | 653 | 1,134 | 4,239 | 589 | 44 | 43 | 1 |
| | 1914 | 7,265 | (2) | (2) | 995 | 1,741 | 4,383 | 64 | 82 | 1 |
| Indiana..... | 1919 | 3,568 | (2) | 233 | 372 | 1,133 | 1,155 | 292 | 69 | 3 |
| | 1914 | 3,750 | (2) | (2) | 459 | 978 | 1,071 | 1,046 | 130 | 66 |
| Illinois..... | 1919 | 10,579 | (2) | 938 | 1,529 | 4,189 | 1,780 | 689 | 598 | 8 |
| | 1914 | 11,004 | (2) | (2) | 898 | 2,111 | 1,982 | 2,947 | 3,052 | 14 |
| Michigan..... | 1919 | 4,613 | (2) | 87 | 868 | 1,503 | 2,055 | 67 | 122 | 3 |
| | 1914 | 4,902 | (2) | (2) | 711 | 1,106 | 2,951 | 49 | 82 | 3 |
| Wisconsin..... | 1919 | 2,123 | (2) | 126 | 286 | 731 | 261 | 370 | 17 | 11 |
| | 1914 | 2,205 | (2) | (2) | 209 | 576 | 565 | 689 | 226 | 1 |
| WEST NORTH CENTRAL..... | 1919 | 15,673 | 1,063 | 949 | 3,151 | 4,025 | 5,847 | 340 | 208 | 1 |
| Minnesota..... | 1919 | 3,277 | (2) | 158 | 1,583 | 738 | 322 | 16 | 18 | 1 |
| | 1914 | 3,494 | (2) | (2) | 785 | 933 | 1,516 | 54 | 206 | 1 |
| Iowa..... | 1919 | 2,074 | (2) | 256 | 302 | 475 | 619 | 170 | 24 | 1 |
| | 1914 | 2,518 | (2) | (2) | 134 | 306 | 1,182 | 287 | 609 | 1 |
| Missouri..... | 1919 | 5,997 | (2) | 418 | 404 | 1,424 | 3,411 | 8 | 197 | 12 |
| | 1914 | 5,899 | (2) | (2) | 1,093 | 1,186 | 2,961 | 8 | 39 | 12 |
| North Dakota..... | 1919 | 426 | 103 | 10 | 248 | 32 | 18 | 6 | 43 | 1 |
| South Dakota..... | 1919 | 409 | 50 | 117 | 219 | 40 | 43 | 3 | 11 | 1 |
| Nebraska..... | 1919 | 1,471 | (2) | 57 | 151 | 757 | 323 | 132 | 3 | 1 |
| | 1914 | 1,303 | (2) | (2) | 173 | 297 | 790 | 32 | 11 | 1 |
| Kansas..... | 1919 | 1,059 | (2) | 41 | 256 | 380 | 1,114 | 22 | 7 | 1 |
| | 1914 | 1,607 | (2) | (2) | 313 | 286 | 623 | 131 | 254 | 1 |
| SOUTH ATLANTIC..... | 1919 | 12,080 | 363 | 387 | 2,780 | 2,370 | 2,857 | 1,106 | 2,040 | 168 |
| Delaware..... | 1919 | 284 | 66 | 72 | 176 | 517 | 443 | 230 | 109 | 1 |
| | 1914 | 1,715 | (2) | (2) | 92 | 446 | 105 | 525 | 547 | 1 |
| District of Columbia..... | 1919 | 1,655 | (2) | 91 | 1,253 | 18 | 125 | 137 | 377 | 168 |
| | 1914 | 1,217 | (2) | (2) | 1,217 | 124 | 163 | 202 | 420 | 785 |
| Virginia..... | 1919 | 2,367 | (2) | 85 | 207 | 317 | 194 | 34 | 80 | 3 |
| | 1914 | 1,694 | (2) | (2) | 80 | 97 | 265 | 183 | 199 | 3 |
| West Virginia..... | 1919 | 920 | (2) | 17 | 150 | 323 | 388 | 117 | 417 | 1 |
| | 1914 | 827 | (2) | (2) | 23 | 110 | 201 | 149 | 682 | 1 |
| North Carolina..... | 1919 | 1,433 | (2) | 80 | 85 | 256 | 120 | 84 | 1 | 1 |
| | 1914 | 1,165 | (2) | (2) | 85 | 487 | 542 | 418 | 608 | 1 |
| South Carolina..... | 1919 | 625 | (2) | (2) | 30 | 142 | 239 | 40 | 1,325 | 1 |
| Georgia..... | 1919 | 2,194 | (2) | (2) | 158 | 129 | 255 | 35 | 374 | 78 |
| | 1914 | 1,776 | (2) | (2) | 154 | 105 | 151 | 35 | 341 | 78 |
| Florida..... | 1919 | 983 | (2) | (2) | 64 | 158 | 129 | 255 | 35 | 374 |
| | 1914 | 864 | (2) | (2) | 64 | 154 | 105 | 151 | 35 | 341 |

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.³ Not published in 1914.

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TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY DIVISIONS AND STATES: 1919 AND 1914—Continued.

| DIVISION AND STATE. | Census year. | Total. | IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE— | | | | | | | |
|-------------------------|--------------|--------|--|--------------------|--------|--------------------|-------|--------------------|-------|----------|
| | | | 44 and under. | Between 44 and 48. | 48.1 | Between 48 and 54. | 54. | Between 54 and 60. | 60. | Over 60. |
| EAST SOUTH CENTRAL..... | 1919 | 7,083 | 236 | 178 | 806 | 1,440 | 1,966 | 1,227 | 1,230 | ..... |
| Kentucky..... | 1919 | 2,294 | 117 | 21 | 146 | 653 | 652 | 335 | 370 | ..... |
| | 1914 | 1,873 | (*) | (*) | 255 | 331 | 457 | 473 | 357 | ..... |
| Tennessee..... | 1919 | 2,693 | 103 | 73 | 337 | 475 | 793 | 840 | 72 | ..... |
| | 1914 | 2,580 | (*) | (*) | 358 | 259 | 572 | 1,223 | 104 | 4 |
| Alabama..... | 1919 | 1,402 | ..... | 64 | 320 | 189 | 299 | 48 | 542 | ..... |
| | 1914 | 1,388 | (*) | (*) | 95 | 176 | 243 | 427 | 447 | ..... |
| Mississippi..... | 1919 | 634 | 16 | 20 | 3 | 123 | 222 | 4 | 246 | ..... |
| | 1914 | 607 | (*) | (*) | 99 | 82 | 177 | 24 | 220 | 5 |
| WEST SOUTH CENTRAL..... | 1919 | 10,004 | 262 | 458 | 2,003 | 1,573 | 5,196 | ..... | 416 | 6 |
| Arkansas..... | 1919 | 937 | 19 | 24 | 291 | 30 | 501 | ..... | 72 | ..... |
| | 1914 | 832 | (*) | (*) | 148 | 104 | 268 | 40 | 263 | ..... |
| Louisiana..... | 1919 | 1,605 | 107 | 27 | 62 | 796 | 311 | ..... | 302 | ..... |
| | 1914 | 1,243 | (*) | (*) | 163 | 37 | 238 | ..... | 800 | ..... |
| Oklahoma..... | 1919 | 1,994 | 26 | 107 | 244 | 244 | 1,362 | ..... | 5 | 6 |
| | 1914 | 1,416 | (*) | (*) | 223 | 217 | 810 | 56 | 110 | ..... |
| Texas..... | 1919 | 5,468 | 110 | 300 | 1,496 | 503 | 3,022 | ..... | 37 | ..... |
| | 1914 | 4,605 | (*) | (*) | 975 | 967 | 2,232 | 96 | 332 | ..... |
| MOUNTAIN..... | 1919 | 6,004 | 523 | 351 | 4,163 | 321 | 552 | 22 | 68 | 4 |
| Montana..... | 1919 | 971 | 75 | ..... | 890 | ..... | 3 | ..... | 3 | ..... |
| | 1914 | 819 | (*) | (*) | 285 | 85 | 434 | 12 | ..... | ..... |
| Idaho *..... | 1919 | 571 | 16 | 10 | 162 | 36 | 325 | 22 | ..... | ..... |
| Wyoming *..... | 1919 | 357 | 52 | 18 | 219 | 64 | 4 | ..... | ..... | ..... |
| Colorado..... | 1919 | 2,088 | 244 | 198 | 1,382 | 151 | 61 | ..... | 46 | 4 |
| | 1914 | 1,759 | (*) | (*) | 1,663 | 18 | 71 | 4 | 3 | ..... |
| New Mexico *..... | 1919 | 292 | 9 | 30 | 153 | ..... | 90 | ..... | 10 | ..... |
| Arizona *..... | 1919 | 539 | 15 | 31 | 401 | 23 | 99 | ..... | ..... | ..... |
| Utah..... | 1919 | 1,040 | 90 | 64 | 839 | 38 | ..... | ..... | ..... | ..... |
| | 1914 | 1,070 | (*) | (*) | 90 | 430 | 521 | ..... | 20 | ..... |
| Nevada *..... | 1919 | 148 | 13 | ..... | 117 | 9 | ..... | ..... | 9 | ..... |
| PACIFIC..... | 1919 | 16,836 | 1,260 | 1,386 | 13,177 | 98 | 571 | 30 | 200 | 114 |
| Washington..... | 1919 | 3,539 | 546 | 324 | 2,488 | ..... | 127 | ..... | 6 | 48 |
| | 1914 | 3,298 | (*) | (*) | 2,912 | 108 | 165 | ..... | 113 | ..... |
| Oregon..... | 1919 | 2,033 | 368 | 413 | 1,187 | 14 | 42 | ..... | ..... | 9 |
| | 1914 | 1,745 | (*) | (*) | 235 | 727 | 768 | ..... | 15 | ..... |
| California..... | 1919 | 11,264 | 346 | 649 | 9,602 | 84 | 402 | 30 | 104 | 57 |
| | 1914 | 10,416 | (*) | (*) | 9,610 | 1,736 | 1,708 | 66 | 389 | 7 |

* Includes 48 and under for 1914 and 1909.

* Corresponding figures not available.

* Not published in 1914

TABLE 6.—SIZE OF ESTABLISHMENTS, BY AMOUNT RECEIVED FOR WORK DONE: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | NUMBER OF ESTABLISHMENTS. | | | AVERAGE NUMBER OF WAGE EARNERS. | | | AMOUNT RECEIVED FOR WORK DONE. | | |
|----------------------------|---------------------------|-------|-------|---------------------------------|---------|---------|--------------------------------|---------------|---------------|
| | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| All classes..... | 5,678 | 6,097 | 5,186 | 131,879 | 130,641 | 109,484 | \$236,382,369 | \$142,503,253 | \$104,680,086 |
| Less than \$5,000..... | 797 | 1,458 | 1,341 | 1,390 | 3,976 | 4,288 | 2,586,542 | 4,130,136 | 3,779,904 |
| \$5,000 to \$20,000..... | 2,061 | 2,756 | 2,359 | 14,429 | 28,064 | 27,622 | 23,517,028 | 20,074,763 | 25,027,052 |
| \$20,000 to \$100,000..... | 2,236 | 1,630 | 1,346 | 59,490 | 63,915 | 56,805 | 101,788,300 | 99,077,332 | 54,883,604 |
| \$100,000 and over..... | 584 | 253 | 140 | 56,570 | 34,686 | 21,080 | 108,509,601 | 40,220,092 | 21,489,526 |
| PER CENT DISTRIBUTION. | | | | | | | | | |
| All classes..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 14.0 | 23.9 | 25.9 | 1.1 | 3.0 | 3.9 | 1.1 | 2.9 | 3.6 |
| \$5,000 to \$20,000..... | 36.3 | 45.2 | 45.5 | 10.9 | 21.5 | 25.1 | 9.9 | 20.4 | 23.9 |
| \$20,000 to \$100,000..... | 39.4 | 26.7 | 26.0 | 45.1 | 48.9 | 51.7 | 43.1 | 48.5 | 52.0 |
| \$100,000 and over..... | 10.3 | 4.2 | 2.7 | 42.9 | 26.6 | 19.3 | 45.9 | 28.2 | 20.5 |

MANUFACTURES.

TABLE 7.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, BY DIVISIONS AND STATES: 1919.

| DIVISION AND STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | | | |
|---------------------------|---------------------------|---|-----------------------------|---------------------------------------|------------------|--|------------------|---|------------------|--|------------------|---|------------------|------------------------------|------------------|
| | Estab- lish- ments. | Wage earners (average number). | No wage earn- ers. | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | 101 to 250 wage earners, inclusive. | | Over 250 wage earners. | |
| | | | Estab- lish- ments. | Estab- lish- ments. | Wage earners. | Estab- lish- ments. | Wage earners. | Estab- lish- ments. | Wage earners. | Estab- lish- ments. | Wage earners. | Estab- lish- ments. | Wage earners. | Estab- lish- ments. | Wage earners. |
| UNITED STATES....1919.. | 5,678 | 131,879 | 167 | 1,538 | 4,472 | 2,111 | 25,110 | 1,201 | 39,263 | 478 | 33,947 | 171 | 24,516 | 12 | 4,571 |
|1914.. | 6,097 | 130,641 | 165 | 1,663 | 5,129 | 2,460 | 27,570 | 1,175 | 37,544 | 441 | 30,522 | 180 | 25,405 | 13 | 4,171 |
| NEW ENGLAND..... | 708 | 11,813 | 10 | 228 | 651 | 304 | 3,562 | 118 | 3,808 | 41 | 2,980 | 7 | 812 | ..... | ..... |
| Maine..... | 81 | 993 | 1 | 40 | 129 | 30 | 350 | 4 | 109 | 6 | 405 | ..... | ..... | ..... | ..... |
| New Hampshire..... | 61 | 616 | 1 | 19 | 49 | 35 | 380 | 5 | 133 | 1 | 54 | ..... | ..... | ..... | ..... |
| Vermont..... | 28 | 324 | ..... | 12 | 32 | 13 | 189 | 2 | 47 | 1 | 56 | ..... | ..... | ..... | ..... |
| Massachusetts..... | 340 | 6,821 | 6 | 82 | 246 | 154 | 1,806 | 69 | 2,274 | 22 | 1,683 | 7 | 812 | ..... | ..... |
| Rhode Island..... | 70 | 1,055 | ..... | 30 | 97 | 26 | 253 | 10 | 361 | 4 | 324 | ..... | ..... | ..... | ..... |
| Connecticut..... | 128 | 2,024 | 2 | 45 | 98 | 46 | 584 | 28 | 884 | 7 | 458 | ..... | ..... | ..... | ..... |
| MIDDLE ATLANTIC..... | 1,017 | 24,103 | 35 | 306 | 877 | 338 | 3,995 | 224 | 7,385 | 76 | 5,333 | 34 | 5,076 | 4 | 1,497 |
| New York..... | 535 | 11,998 | 26 | 176 | 499 | 178 | 2,094 | 99 | 3,320 | 37 | 2,524 | 15 | 2,064 | 4 | 1,497 |
| New Jersey..... | 131 | 3,581 | 3 | 33 | 99 | 42 | 495 | 34 | 1,097 | 13 | 891 | 6 | 999 | ..... | ..... |
| Pennsylvania..... | 351 | 8,584 | 6 | 97 | 279 | 118 | 1,406 | 91 | 2,968 | 26 | 1,918 | 13 | 2,013 | ..... | ..... |
| EAST NORTH CENTRAL..... | 1,247 | 28,223 | 35 | 343 | 924 | 475 | 5,017 | 256 | 8,605 | 102 | 7,268 | 35 | 5,231 | 1 | 578 |
| Ohio..... | 277 | 7,040 | 5 | 66 | 192 | 119 | 1,390 | 50 | 1,769 | 28 | 1,937 | 8 | 1,204 | 1 | 578 |
| Indiana..... | 158 | 3,568 | 2 | 39 | 115 | 64 | 747 | 38 | 1,315 | 11 | 772 | 4 | 610 | ..... | ..... |
| Illinois..... | 470 | 10,579 | 12 | 127 | 318 | 179 | 2,160 | 95 | 3,113 | 44 | 3,147 | 13 | 1,841 | ..... | ..... |
| Michigan..... | 107 | 4,913 | 6 | 64 | 177 | 61 | 677 | 41 | 1,395 | 15 | 1,097 | 10 | 1,567 | ..... | ..... |
| Wisconsin..... | 145 | 2,123 | 10 | 47 | 122 | 52 | 673 | 32 | 1,013 | 4 | 315 | ..... | ..... | ..... | ..... |
| WEST NORTH CENTRAL..... | 713 | 15,673 | 24 | 187 | 576 | 265 | 3,251 | 160 | 5,135 | 62 | 4,384 | 15 | 2,327 | ..... | ..... |
| Minnesota..... | 156 | 3,277 | 5 | 53 | 163 | 48 | 578 | 29 | 852 | 17 | 1,143 | 4 | 541 | ..... | ..... |
| Iowa..... | 129 | 2,074 | 4 | 41 | 127 | 48 | 567 | 29 | 938 | 7 | 442 | ..... | ..... | ..... | ..... |
| Missouri..... | 165 | 5,907 | 5 | 19 | 48 | 57 | 727 | 47 | 1,594 | 28 | 2,104 | 9 | 1,524 | ..... | ..... |
| North Dakota..... | 29 | 420 | ..... | 8 | 24 | 15 | 184 | 6 | 218 | ..... | ..... | ..... | ..... | ..... | ..... |
| South Dakota..... | 20 | 469 | ..... | 10 | 23 | 10 | 128 | 8 | 226 | 1 | 87 | ..... | ..... | ..... | ..... |
| Nebraska..... | 69 | 1,471 | 3 | 17 | 56 | 26 | 345 | 19 | 669 | 2 | 139 | 2 | 262 | ..... | ..... |
| Kansas..... | 136 | 1,959 | 7 | 39 | 130 | 61 | 722 | 22 | 638 | 7 | 469 | ..... | ..... | ..... | ..... |
| SOUTH ATLANTIC..... | 351 | 12,080 | 3 | 48 | 158 | 125 | 1,535 | 110 | 3,614 | 41 | 2,893 | 23 | 3,310 | 1 | 670 |
| Delaware..... | 6 | 284 | ..... | 1 | 4 | 2 | 19 | 1 | 44 | ..... | ..... | 2 | 217 | ..... | ..... |
| Maryland..... | 46 | 1,619 | 1 | 6 | 20 | 17 | 204 | 13 | 422 | 5 | 346 | 4 | 627 | ..... | ..... |
| District of Columbia..... | 21 | 1,655 | ..... | ..... | ..... | 3 | 46 | 6 | 221 | 5 | 387 | 7 | 1,001 | ..... | ..... |
| Virginia..... | 63 | 2,367 | 1 | 4 | 12 | 28 | 379 | 19 | 573 | 9 | 665 | 1 | 168 | 1 | 570 |
| West Virginia..... | 44 | 920 | ..... | 10 | 28 | 15 | 151 | 14 | 443 | 4 | 298 | ..... | ..... | ..... | ..... |
| North Carolina..... | 50 | 1,433 | ..... | 7 | 20 | 25 | 287 | 15 | 479 | 8 | 508 | 1 | 130 | ..... | ..... |
| South Carolina..... | 28 | 625 | ..... | 4 | 13 | 10 | 111 | 13 | 449 | 1 | 52 | ..... | ..... | ..... | ..... |
| Georgia..... | 52 | 2,194 | ..... | 8 | 19 | 15 | 194 | 17 | 578 | 5 | 362 | 7 | 1,041 | ..... | ..... |
| Florida..... | 35 | 983 | ..... | 8 | 33 | 10 | 144 | 12 | 405 | 4 | 275 | 1 | 126 | ..... | ..... |
| EAST SOUTH CENTRAL..... | 182 | 7,083 | ..... | 13 | 43 | 59 | 771 | 68 | 2,156 | 32 | 2,140 | 7 | 975 | 3 | 998 |
| Kentucky..... | 63 | 2,294 | ..... | ..... | ..... | 23 | 304 | 23 | 664 | 14 | 862 | 3 | 464 | ..... | ..... |
| Tennessee..... | 59 | 2,693 | ..... | 5 | 17 | 21 | 246 | 17 | 564 | 11 | 812 | 3 | 403 | 2 | 651 |
| Alabama..... | 37 | 1,462 | ..... | 4 | 12 | 11 | 147 | 14 | 447 | 6 | 401 | 1 | 108 | 1 | 347 |
| Mississippi..... | 23 | 634 | ..... | 4 | 14 | 4 | 74 | 14 | 481 | 1 | 65 | ..... | ..... | ..... | ..... |
| WEST SOUTH CENTRAL..... | 343 | 10,004 | ..... | 66 | 242 | 138 | 1,741 | 82 | 2,590 | 42 | 3,145 | 14 | 1,917 | 1 | 363 |
| Arkansas..... | 49 | 937 | ..... | 10 | 37 | 25 | 306 | 11 | 383 | 3 | 211 | ..... | ..... | ..... | ..... |
| Louisiana..... | 24 | 1,605 | ..... | 4 | 19 | 3 | 41 | 4 | 131 | 7 | 495 | 5 | 556 | 1 | 363 |
| Oklahoma..... | 99 | 1,994 | ..... | 25 | 87 | 44 | 566 | 23 | 667 | 7 | 674 | ..... | ..... | ..... | ..... |
| Texas..... | 171 | 5,468 | ..... | 27 | 99 | 66 | 828 | 44 | 1,415 | 25 | 1,765 | 9 | 1,361 | ..... | ..... |
| MOUNTAIN..... | 281 | 6,004 | 5 | 69 | 222 | 118 | 1,383 | 58 | 1,783 | 24 | 1,632 | 7 | 984 | ..... | ..... |
| Montana..... | 49 | 971 | 2 | 15 | 48 | 13 | 142 | 15 | 471 | 4 | 310 | ..... | ..... | ..... | ..... |
| Idaho..... | 40 | 571 | ..... | 10 | 39 | 20 | 248 | 10 | 284 | ..... | ..... | ..... | ..... | ..... | ..... |
| Wyoming..... | 23 | 357 | 1 | 2 | 6 | 16 | 190 | 3 | 106 | 1 | 55 | ..... | ..... | ..... | ..... |
| Colorado..... | 92 | 2,086 | 1 | 28 | 85 | 35 | 388 | 15 | 472 | 9 | 616 | 4 | 627 | ..... | ..... |
| New Mexico..... | 16 | 292 | ..... | 2 | 5 | 11 | 160 | 2 | 71 | 1 | 66 | ..... | ..... | ..... | ..... |
| Arizona..... | 21 | 539 | ..... | 2 | 11 | 8 | 103 | 8 | 244 | 3 | 181 | ..... | ..... | ..... | ..... |
| Utah..... | 27 | 1,040 | 1 | 5 | 13 | 9 | 110 | 4 | 113 | 5 | 347 | 3 | 457 | ..... | ..... |
| Nevada..... | 13 | 148 | ..... | 5 | 15 | 6 | 54 | 1 | 22 | 1 | 57 | ..... | ..... | ..... | ..... |
| PACIFIC..... | 836 | 16,836 | 55 | 278 | 779 | 289 | 3,255 | 125 | 4,181 | 58 | 4,172 | 29 | 3,884 | 2 | 565 |
| Washington..... | 177 | 3,539 | 15 | 46 | 130 | 65 | 784 | 32 | 1,047 | 17 | 1,280 | 2 | 298 | ..... | ..... |
| Oregon..... | 73 | 2,033 | 1 | 14 | 34 | 31 | 366 | 13 | 390 | 10 | 756 | 4 | 497 | ..... | ..... |
| California..... | 586 | 11,264 | 39 | 218 | 615 | 193 | 2,115 | 80 | 2,744 | 31 | 2,136 | 23 | 3,089 | 2 | 565 |

POWER LAUNDRIES.

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TABLE 8.—CHARACTER OF OWNERSHIP, BY DIVISIONS AND STATES: 1919 AND 1914.

| DIVISION AND STATE. | Cen- sus year. | NUMBER OF ESTABLISHMENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | AMOUNT RECEIVED FOR WORK DONE. | | | | | | | | |
|----------------------|----------------------|--|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|---------------------|-------------------------|-------------------------|---------------------|---------------|-----------------------------|--------------------------------|---------------------|--------------------|-------|-------|--|--|--|--|
| | | Indi- vid- u-als. | Cor- pora- tions. | All oth- ers. | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | In establishments owned by— | | | Per cent of total. | | | | | | |
| | | | | | | Indi- vid- u-als. | Cor- pora- tions. | All oth- ers. | Indi- vid- u-als. | Cor- pora- tions. | All oth- ers. | | Indi- vid- u-als. | Cor- pora- tions. | All oth- ers. | | | | | | | |
| UNITED STATES.. | 1919 | 2,807 | 1,698 | 1,173 | 131,879 | 33,973 | 77,815 | 20,091 | 25.8 | 59.0 | 15.2 | \$236,382,369 | \$57,781,029 | \$143,048,526 | \$35,552,814 | 24.5 | 60.5 | 15.0 | | | | |
| | 1914 | 3,125 | 1,541 | 1,431 | 130,641 | 34,344 | 73,135 | 23,162 | 26.3 | 56.0 | 17.7 | 142,503,253 | 35,809,083 | 82,653,096 | 24,040,174 | 25.1 | 58.0 | 16.9 | | | | |
| | 1909 | 2,770 | 1,158 | 1,268 | 100,484 | 32,754 | 55,485 | 21,245 | 29.9 | 50.7 | 19.4 | 104,680,086 | 30,320,840 | 54,111,978 | 20,247,268 | 29.0 | 51.7 | 19.3 | | | | |
| NEW ENGLAND..... | 1919 | 426 | 143 | 139 | 11,813 | 4,514 | 5,299 | 2,000 | 38.2 | 44.9 | 10.9 | 21,462,555 | 8,003,892 | 9,844,057 | 3,614,636 | 37.3 | 45.9 | 16.8 | | | | |
| | 1914 | 489 | 139 | 163 | 12,944 | 5,191 | 5,537 | 2,216 | 40.1 | 42.8 | 17.1 | 14,060,578 | 5,521,248 | 6,183,346 | 2,355,984 | 30.3 | 44.0 | 16.6 | | | | |
| Maine..... | 1919 | 61 | 11 | 9 | 993 | 597 | 218 | 178 | 60.1 | 22.0 | 17.9 | 1,514,854 | 988,820 | 323,106 | 202,928 | 65.3 | 21.3 | 13.4 | | | | |
| | 1914 | 62 | 13 | 17 | 930 | 569 | 211 | 150 | 61.2 | 22.7 | 16.1 | 930,021 | 575,208 | 204,195 | 159,618 | 61.3 | 21.7 | 17.0 | | | | |
| New Hampshire.... | 1919 | 50 | 1 | 10 | 616 | 483 | ..... | 133 | 78.4 | ..... | ..... | 968,856 | 756,401 | ..... | 121,455 | 78.1 | ..... | ..... |  |  |  |  |
| | 1914 | 57 | 4 | 13 | 760 | 642 | 59 | 159 | 71.3 | 7.8 | 20.0 | 728,733 | 496,906 | 69,101 | 162,720 | 68.2 | 9.5 | 22.3 | | | | |
| Vermont..... | 1919 | 23 | 1 | 5 | 324 | 233 | ..... | 91 | 71.9 | ..... | ..... | 399,668 | 300,290 | ..... | 199,378 | 75.1 | ..... | ..... |  |  |  |  |
| | 1914 | 34 | ..... | 7 | 378 | 294 | ..... | 84 | 77.8 | ..... | 22.2 | 362,041 | 291,345 | ..... | 70,696 | 80.5 | ..... | 19.5 | | | | |
| Massachusetts..... | 1919 | 180 | 92 | 68 | 6,821 | 2,105 | 3,671 | 1,045 | 30.9 | 53.8 | 15.3 | 12,864,279 | 3,977,875 | 6,952,371 | 1,934,033 | 30.9 | 54.0 | 15.0 | | | | |
| | 1914 | 219 | 87 | 85 | 7,771 | 2,591 | 3,911 | 1,269 | 33.4 | 50.3 | 16.3 | 8,661,830 | 2,884,039 | 4,426,201 | 1,351,600 | 33.3 | 51.1 | 15.6 | | | | |
| Rhode Island..... | 1919 | 45 | 8 | 17 | 1,035 | 402 | 395 | 238 | 38.8 | 38.2 | 23.0 | 2,154,652 | 724,200 | 862,845 | 587,607 | 33.6 | 40.0 | 26.3 | | | | |
| | 1914 | 41 | 7 | 18 | 1,192 | 411 | 499 | 282 | 34.5 | 41.9 | 23.6 | 1,260,942 | 441,046 | 535,686 | 284,210 | 35.0 | 42.5 | 22.5 | | | | |
| Connecticut..... | 1919 | 68 | 30 | 30 | 2,024 | 694 | 984 | 346 | 34.3 | 48.6 | 17.1 | 3,560,276 | 1,256,306 | 1,665,863 | 638,107 | 35.3 | 46.8 | 17.9 | | | | |
| | 1914 | 76 | 28 | 23 | 1,913 | 784 | 857 | 272 | 41.0 | 44.8 | 14.2 | 2,108,011 | 832,704 | 948,073 | 327,234 | 39.5 | 45.0 | 15.5 | | | | |
| MIDDLE ATLANTIC..... | 1919 | 521 | 297 | 199 | 24,163 | 6,311 | 14,710 | 3,142 | 26.1 | 60.0 | 13.0 | 46,070,130 | 10,761,504 | 29,799,030 | 5,509,596 | 23.4 | 64.7 | 12.0 | | | | |
| | 1914 | 627 | 267 | 258 | 27,803 | 7,711 | 15,272 | 4,820 | 27.7 | 54.9 | 17.3 | 28,120,707 | 7,509,429 | 15,931,148 | 4,680,130 | 26.7 | 56.7 | 16.6 | | | | |
| New York..... | 1919 | 281 | 158 | 96 | 11,998 | 2,940 | 7,677 | 1,381 | 24.5 | 64.0 | 11.5 | 24,627,441 | 5,119,734 | 17,034,878 | 2,472,829 | 20.8 | 69.2 | 10.0 | | | | |
| | 1914 | 345 | 138 | 131 | 13,751 | 3,639 | 8,227 | 1,886 | 26.5 | 59.8 | 13.7 | 14,304,964 | 3,662,556 | 8,668,304 | 1,974,104 | 25.6 | 60.6 | 13.8 | | | | |
| New Jersey..... | 1919 | 57 | 52 | 22 | 3,581 | 999 | 2,465 | 417 | 19.5 | 68.8 | 11.6 | 7,091,621 | 1,264,134 | 5,002,657 | 824,830 | 17.8 | 70.5 | 11.6 | | | | |
| | 1914 | 68 | 50 | 24 | 3,642 | 846 | 2,268 | 528 | 23.2 | 62.3 | 14.5 | 3,590,739 | 777,587 | 2,301,689 | 511,463 | 21.7 | 64.1 | 14.2 | | | | |
| Pennsylvania..... | 1919 | 183 | 87 | 81 | 8,584 | 2,672 | 4,568 | 1,344 | 31.1 | 53.2 | 15.7 | 14,351,068 | 4,377,636 | 7,761,495 | 2,211,037 | 30.5 | 54.1 | 15.4 | | | | |
| | 1914 | 214 | 79 | 103 | 10,410 | 3,226 | 4,777 | 2,407 | 31.0 | 45.9 | 23.1 | 10,225,004 | 3,069,286 | 4,961,155 | 2,194,563 | 30.0 | 48.5 | 21.5 | | | | |
| EAST NORTH CENTRAL. | 1919 | 626 | 372 | 249 | 28,223 | 6,277 | 17,410 | 4,536 | 22.2 | 61.7 | 16.1 | 51,789,615 | 10,677,229 | 32,717,780 | 8,394,006 | 20.6 | 63.2 | 16.2 | | | | |
| | 1914 | 656 | 349 | 310 | 29,186 | 7,001 | 16,513 | 5,672 | 24.0 | 56.6 | 19.4 | 31,834,504 | 7,234,388 | 18,612,310 | 5,987,806 | 22.7 | 58.5 | 18.8 | | | | |
| Ohio..... | 1919 | 129 | 84 | 64 | 7,040 | 1,263 | 4,504 | 1,273 | 17.9 | 64.0 | 18.1 | 12,528,344 | 2,070,103 | 8,113,330 | 2,344,911 | 16.5 | 64.8 | 18.7 | | | | |
| | 1914 | 133 | 83 | 80 | 7,265 | 1,450 | 4,477 | 1,338 | 20.0 | 61.6 | 18.4 | 7,822,491 | 1,420,076 | 4,908,232 | 1,494,183 | 18.2 | 62.7 | 19.1 | | | | |
| Indiana..... | 1919 | 80 | 45 | 33 | 3,568 | 909 | 2,133 | 526 | 25.5 | 50.8 | 14.7 | 5,588,748 | 1,582,289 | 3,284,642 | 721,817 | 28.3 | 58.8 | 12.9 | | | | |
| | 1914 | 85 | 53 | 36 | 3,750 | 1,025 | 2,139 | 589 | 27.3 | 57.0 | 15.7 | 3,697,112 | 1,011,204 | 2,167,063 | 528,785 | 27.4 | 58.3 | 14.3 | | | | |
| Illinois..... | 1919 | 235 | 159 | 76 | 10,579 | 2,476 | 6,696 | 1,407 | 23.4 | 63.3 | 13.3 | 20,606,032 | 4,448,575 | 13,645,538 | 2,511,919 | 21.6 | 66.2 | 12.2 | | | | |
| | 1914 | 239 | 130 | 92 | 11,004 | 2,938 | 6,248 | 1,818 | 26.7 | 56.8 | 16.5 | 12,846,432 | 3,282,293 | 7,504,351 | 2,059,788 | 25.6 | 58.4 | 16.0 | | | | |
| Michigan..... | 1919 | 103 | 45 | 49 | 4,913 | 1,067 | 2,808 | 1,038 | 21.7 | 57.2 | 21.1 | 9,410,373 | 1,612,654 | 5,482,263 | 2,321,456 | 17.1 | 58.2 | 24.7 | | | | |
| | 1914 | 129 | 43 | 62 | 4,902 | 1,097 | 2,293 | 1,512 | 22.4 | 46.8 | 30.8 | 5,115,286 | 1,019,899 | 2,616,599 | 1,478,788 | 19.9 | 51.2 | 28.9 | | | | |
| Wisconsin..... | 1919 | 79 | 39 | 27 | 2,123 | 562 | 1,269 | 292 | 26.5 | 59.8 | 13.8 | 3,650,118 | 963,608 | 2,192,007 | 494,503 | 26.4 | 60.1 | 13.5 | | | | |
| | 1914 | 70 | 40 | 40 | 2,265 | 491 | 1,359 | 415 | 21.7 | 60.0 | 18.3 | 2,353,183 | 500,866 | 1,426,055 | 426,262 | 21.3 | 60.6 | 18.1 | | | | |
| WEST NORTH CENTRAL. | 1919 | 362 | 195 | 156 | 15,673 | 4,235 | 9,113 | 2,325 | 27.0 | 58.1 | 14.8 | \$27,396,421 | \$7,233,183 | \$15,939,723 | \$4,223,615 | 26.4 | 58.2 | 15.4 | | | | |
| | 1914 | 447 | 187 | 187 | 15,630 | 4,381 | 8,494 | 2,755 | 28.0 | 54.3 | 17.6 | 17,582,716 | 4,823,987 | 9,831,431 | 2,627,297 | 27.4 | 55.9 | 16.6 | | | | |
| Minnesota..... | 1919 | 75 | 40 | 41 | 3,277 | 617 | 1,999 | 661 | 18.8 | 61.0 | 20.2 | 6,087,088 | 1,060,477 | 3,772,432 | 1,254,179 | 17.4 | 62.0 | 20.6 | | | | |
| | 1914 | 104 | 39 | 45 | 3,494 | 990 | 1,726 | 778 | 28.3 | 49.4 | 22.3 | 4,100,464 | 1,142,350 | 2,105,482 | 582,632 | 27.9 | 51.3 | 20.8 | | | | |
| Iowa..... | 1919 | 77 | 25 | 27 | 2,074 | 807 | 940 | 327 | 38.9 | 45.3 | 15.8 | 3,904,658 | 1,547,213 | 1,762,312 | 595,133 | 39.6 | 45.1 | 15.2 | | | | |
| | 1914 | 104 | 34 | 38 | 2,518 | 798 | 1,187 | 533 | 31.7 | 47.1 | 21.2 | 2,882,005 | 936,340 | 1,461,197 | 484,468 | 32.5 | 50.7 | 16.8 | | | | |
| Missouri..... | 1919 | 53 | 88 | 24 | 5,997 | 993 | 4,684 | 320 | 16.6 | 78.1 | 5.8 | 9,438,493 | 1,439,636 | 7,475,153 | 523,704 | 15.3 | 79.2 | 5.5 | | | | |
| | 1914 | 66 | 79 | 32 | 5,899 | 1,056 | 4,365 | 478 | 17.9 | 74.0 | 8.1 | 6,316,206 | 1,066,279 | 4,787,218 | 462,709 | 16.9 | 75.8 | 7.3 | | | | |
| North Dakota..... | 1919 | 14 | 9 | 6 | 426 | 148 | 205 | 73 | 34.7 | 48.1 | 17.1 | 844,433 | 275,426 | 420,754 | 148,253 | 32.6 | 49.8 | 17.6 | | | | |
| | 1914 | 15 | 7 | 8 | 409 | 150 | 152 | 107 | 36.7 | 37.2 | 26.1 | 592,843 | 186,808 | 229,293 | 176,742 | 31.5 | 38.7 | 29.8 | | | | |
| South Dakota..... | 1919 | 17 | 6 | 6 | 469 | 209 | 169 | 91 | 44.6 | 36.0 | 19.4 | 940,179 | 419,007 | 330,315 | 190,857 | 44.6 | 35.1 | 20.3 | | | | |
| | 1914 | 18 | 3 | 5 | 400 | 181 | 77 | 142 | 45.2 | 19.3 | 35.5 | 477,474 | 245,105 | 75,494 | 156,875 | 51.3 | 15.8 | 32.9 | | | | |
| Nebraska..... | 1919 | 34 | 17 | 18 | 1,471 | 500 | 718 | 253 | 34.0 | 48.8 | 17.2 | 2,823,234 | 945,565 | 1,410,068 | 467,601 | 33.5 | 49.9 | 16.6 | | | | |
| | 1914 | 35 | 17 | 22 | 1,303 | 375 | 672 | 256 | 28.8 | 51.6 | 19.6 | 1,517,924 | 401,296 | 832,808 | 283,910 | 26.4 | 54.9 | 18.7 | | | | |
| Kansas..... | 1919 | 92 | 10 | 34 | 1,959 | 961 | 398 | 600 | 49.1 | 20.3 | 30.6 | 3,358,336 | 1,545,859 | 768,689 | 1,043,788 | 46.0 | 22.9 | 31.1 | | | | |
| | 1914 | 105 | 8 | 37 | 1,607 | 831 | 315 | 461 | 51.7 | 19.6 | 28.7 | 695,799 | 845,899 | 339,639 | 509,961 | 49.9 | 20.0 | 30.1 | | | | |
| SOUTH ATLANTIC..... | 1919 | 151 | 132 | 68 | 12,080 | 3,025 | ..... | ..... | 25.0 | ..... | ..... | 18,211,883 | 4,785,179 | ..... | ..... | 26.3 | ..... | ..... |  |  |  |  |
| | 1914 | 159 | 124 | 86 | 10,102 | 2,823 | 5,436 | 1,843 | 27.9 | 53.8 | 18.2 | 8,925,073 | 2,420,700 | 4,998,735 | 1,635,638 | 27.1 | 55.7 | 17.2 | | | | |
| Delaware..... | 1919 | 2 | 1 | 3 | 284 | 13 | ..... | 1271 | 4.6 | ..... | ..... | 444,095 | 18,032 | ..... | 1425,463 | 4.2 | ..... | ..... |  |  |  |  |
| | 1914 | 6 | 2 | 4 | | | | | | | | | | | | | | | | | | |

MANUFACTURES.

TABLE 8.—CHARACTER OF OWNERSHIP, BY DIVISIONS AND STATES: 1919 AND 1914—Continued.

| DIVISION AND STATE. | Cen- sus year. | NUMBER OF ESTABLISHMENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | AMOUNT RECEIVED FOR WORK DONE. | | | | | |
|---|----------------------|--|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------|---------------------|------------------------|-------------------------|---------------------|--------------|-----------------------------|--------------------------------|----------------|------------------------|--------------------|---------------------|--|
| | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | In establishments owned by— | | | Per cent of total. | | | |
| | | | | | | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | Indi- vid- uals. | Cor- pora- tions. | All oth- ers. | | Indi- vid- uals. | Corpora- tions. | All others. | Indi- vid- uals. | Corpora- tions. | All oth- ers. | |
| SOUTH ATLANTIC—Con. West Virginia..... | 1919 | 19 | 14 | 11 | 920 | 202 | 589 | 129 | 22.0 | 64.0 | 14.0 | 1,775,349 | 665,951 | 907,238 | 202,160 | 37.5 | 51.1 | 11.4 | |
| | 1914 | 16 | 21 | 7 | 827 | 200 | 571 | 56 | 24.2 | 69.0 | 8.8 | 785,782 | 169,769 | 591,343 | 24,670 | 21.6 | 75.3 | 3. | |
| North Carolina..... | 1919 | 26 | 20 | 10 | 1,433 | 466 | 648 | 319 | 32.5 | 45.2 | 22.3 | 2,252,100 | 879,316 | 921,032 | 451,752 | 39.0 | 40.9 | 20.1 | |
| | 1914 | 31 | 16 | 12 | 1,165 | 520 | 404 | 181 | 44.6 | 39.8 | 15.6 | 1,026,358 | 430,263 | 439,007 | 157,088 | 41.9 | 42.8 | 15.3 | |
| South Carolina..... | 1919 | 15 | 7 | 6 | 625 | 266 | 208 | 151 | 42.6 | 33.3 | 24.2 | 833,801 | 316,541 | 268,285 | 248,975 | 38.0 | 32.2 | 29.9 | |
| | 1914 | 7 | 9 | 7 | 517 | 114 | 287 | 116 | 22.1 | 55.5 | 22.4 | 422,212 | 97,614 | 229,748 | 94,850 | 23.1 | 54.4 | 22.5 | |
| Georgia..... | 1919 | 21 | 22 | 9 | 2,194 | 294 | 1,447 | 453 | 13.4 | 66.0 | 20.6 | 3,216,832 | 422,592 | 2,328,893 | 465,347 | 13.1 | 72.4 | 14.5 | |
| | 1914 | 17 | 18 | 8 | 1,776 | 292 | 1,306 | 178 | 16.5 | 73.5 | 10.0 | 1,632,221 | 258,254 | 1,227,152 | 146,815 | 15.8 | 75.2 | 9.0 | |
| Florida..... | 1919 | 13 | 16 | 6 | 983 | 234 | 670 | 79 | 23.8 | 68.2 | 8.0 | 1,480,051 | 283,942 | 1,097,077 | 99,032 | 19.2 | 74.1 | 6.7 | |
| | 1914 | 22 | 15 | 8 | 864 | 289 | 439 | 136 | 33.5 | 50.8 | 15.7 | 946,314 | 292,608 | 510,194 | 143,512 | 30.9 | 53.9 | 15.2 | |
| EAST SOUTH CENTRAL.. | 1919 | 78 | 67 | 37 | 7,083 | 2,470 | 3,360 | 1,253 | 34.0 | 47.4 | 17.7 | 9,687,736 | 3,239,428 | 4,731,581 | 1,716,727 | 33.4 | 48.8 | 17.7 | |
| | 1914 | 78 | 89 | 43 | 6,447 | 1,202 | 3,991 | 1,254 | 18.6 | 61.9 | 19.5 | 5,863,673 | 1,037,814 | 3,761,811 | 1,064,048 | 17.7 | 64.2 | 18.1 | |
| Kentucky..... | 1919 | 28 | 19 | 16 | 2,294 | 1,425 | 372 | 497 | 62.1 | 16.2 | 21.7 | 2,005,346 | 1,752,021 | 542,528 | 610,797 | 80.3 | 18.7 | 21.0 | |
| | 1914 | 32 | 33 | 10 | 1,873 | 429 | 1,176 | 268 | 22.9 | 62.8 | 14.3 | 1,665,979 | 352,007 | 1,098,090 | 215,882 | 21.1 | 65.9 | 13.0 | |
| Tennessee..... | 1919 | 24 | 24 | 11 | 2,693 | 524 | 1,673 | 490 | 19.5 | 62.1 | 18.4 | 3,639,602 | 688,042 | 2,190,108 | 761,452 | 18.9 | 60.2 | 20.9 | |
| | 1914 | 17 | 31 | 19 | 2,580 | 230 | 1,573 | 777 | 8.9 | 61.0 | 30.0 | 2,296,797 | 201,873 | 1,406,568 | 688,356 | 8.8 | 61.2 | 30.0 | |
| Alabama..... | 1919 | 13 | 17 | 7 | 1,462 | 190 | 1,093 | 179 | 13.0 | 74.8 | 12.2 | 2,190,118 | 253,487 | 1,701,792 | 240,839 | 11.5 | 77.5 | 11.0 | |
| | 1914 | 15 | 19 | 7 | 1,388 | 260 | 1,012 | 116 | 18.7 | 72.9 | 8.4 | 1,360,088 | 222,683 | 1,055,061 | 82,944 | 16.4 | 77.5 | 6.1 | |
| Mississippi..... | 1919 | 13 | 7 | 3 | 634 | 331 | 222 | 81 | 52.2 | 35.0 | 12.8 | 946,670 | 545,878 | 297,153 | 103,639 | 57.7 | 31.4 | 10.9 | |
| | 1914 | 14 | 6 | 7 | 606 | 283 | 230 | 93 | 46.7 | 38.0 | 15.3 | 540,209 | 201,251 | 202,092 | 76,866 | 48.4 | 37.4 | 14.2 | |
| WEST SOUTH CENTRAL.. | 1919 | 160 | 96 | 87 | 10,004 | 2,478 | 5,679 | 1,847 | 24.8 | 56.8 | 18.5 | 16,553,772 | 3,863,827 | 9,599,532 | 3,090,413 | 23.3 | 58.0 | 18.7 | |
| | 1914 | 162 | 95 | 110 | 8,096 | 2,300 | 4,012 | 1,784 | 28.4 | 49.6 | 22.0 | 9,218,167 | 2,450,721 | 4,977,686 | 1,789,760 | 26.6 | 54.0 | 19.4 | |
| Arkansas..... | 1919 | 30 | 10 | 9 | 937 | 452 | 347 | 138 | 48.2 | 37.0 | 14.7 | 1,393,024 | 651,261 | 537,410 | 174,353 | 46.8 | 40.7 | 12.5 | |
| | 1914 | 23 | 11 | 19 | 832 | 316 | 261 | 255 | 38.0 | 31.4 | 30.6 | 836,457 | 305,446 | 273,434 | 257,577 | 36.5 | 32.7 | 30.8 | |
| Louisiana..... | 1919 | 7 | 11 | 6 | 1,605 | 362 | 1,100 | 143 | 22.6 | 68.5 | 8.9 | 2,349,774 | 444,322 | 1,711,779 | 193,673 | 18.9 | 72.8 | 8.2 | |
| | 1914 | 10 | 11 | 7 | 1,243 | 331 | 722 | 190 | 26.6 | 58.1 | 15.3 | 1,190,148 | 302,185 | 728,302 | 159,661 | 25.4 | 61.2 | 13.4 | |
| Oklahoma..... | 1919 | 50 | 21 | 28 | 1,904 | 588 | 860 | 546 | 29.5 | 43.1 | 27.4 | 3,561,050 | 962,787 | 1,613,466 | 984,806 | 27.0 | 45.3 | 27.7 | |
| | 1914 | 49 | 25 | 27 | 1,416 | 457 | 593 | 366 | 32.3 | 41.9 | 25.8 | 1,669,721 | 529,190 | 767,398 | 373,133 | 31.7 | 46.0 | 22.3 | |
| Texas..... | 1919 | 73 | 54 | 44 | 5,468 | 1,076 | 3,372 | 1,020 | 19.7 | 61.7 | 18.7 | 9,249,915 | 1,805,457 | 5,706,877 | 1,737,581 | 19.5 | 61.7 | 18.8 | |
| | 1914 | 80 | 48 | 57 | 4,605 | 1,190 | 2,436 | 973 | 26.0 | 52.9 | 21.1 | 5,521,841 | 1,313,000 | 3,208,552 | 999,389 | 23.8 | 58.1 | 18.1 | |
| MOUNTAIN..... | 1919 | 130 | 103 | 48 | 6,004 | 1,286 | 4,205 | 513 | 21.4 | 70.0 | 8.5 | \$11,330,923 | \$2,434,727 | \$7,924,321 | \$971,875 | 21.5 | 69.9 | 8.6 | |
| | 1914 | 125 | 84 | 61 | 4,974 | 1,104 | ..... | ..... | 22.2 | ..... | ..... | 6,550,610 | 1,410,129 | ..... | ..... | 21.6 | ..... | ..... |  |
| Montana..... | 1919 | 23 | 22 | 4 | 971 | 155 | 765 | 51 | 16.0 | 78.8 | 5.3 | 1,894,356 | 293,185 | 1,604,109 | 97,062 | 15.5 | 79.4 | 5.1 | |
| | 1914 | 17 | 19 | 6 | 819 | 151 | 607 | 61 | 18.4 | 74.1 | 7.5 | 1,266,552 | 227,321 | 948,209 | 91,022 | 17.9 | 74.9 | 7.2 | |
| Idaho..... | 1919 | 23 | 9 | 8 | 571 | 297 | 180 | 94 | 52.0 | 31.5 | 16.5 | 1,179,846 | 576,878 | 403,548 | 190,420 | 48.9 | 34.2 | 16.9 | |
| | 1914 | 22 | 6 | 8 | 442 | 249 | 124 | 69 | 56.3 | 28.1 | 15.6 | 592,749 | 303,959 | 185,412 | 103,378 | 51.3 | 31.3 | 17.4 | |
| Wyoming..... | 1919 | 13 | 7 | 3 | 357 | 156 | 158 | 43 | 43.7 | 44.3 | 12.0 | 763,953 | 320,570 | 375,922 | 87,461 | 42.0 | 49.2 | 8.8 | |
| | 1914 | 11 | 2 | 5 | 135 | 94 | ..... | 191 | 50.8 | ..... | 49.2 | 238,048 | 128,156 | ..... | 109,892 | 53.8 | ..... | 46.2 | |
| Colorado..... | 1919 | 39 | 31 | 22 | 2,086 | 350 | 1,508 | 228 | 16.8 | 72.3 | 10.9 | 3,769,849 | 607,213 | 2,725,708 | 426,838 | 16.1 | 72.5 | 11.4 | |
| | 1914 | 36 | 31 | 27 | 1,750 | 258 | 1,239 | 262 | 14.7 | 70.4 | 14.9 | 2,163,293 | 296,090 | 1,534,574 | 332,609 | 13.7 | 70.9 | 15.4 | |
| New Mexico..... | 1919 | 10 | 4 | 2 | 202 | 109 | 154 | 29 | 37.8 | 52.7 | 9.9 | 432,279 | 176,303 | 205,711 | 50,265 | 40.8 | 47.6 | 11.6 | |
| | 1914 | 7 | 5 | 3 | 240 | 66 | 132 | 42 | 27.5 | 55.0 | 17.5 | 280,373 | 76,824 | 157,069 | 46,480 | 27.4 | 56.0 | 16.6 | |
| Arizona..... | 1919 | 5 | 12 | 4 | 539 | 80 | 413 | 46 | 14.8 | 76.6 | 8.5 | 987,438 | 157,737 | 740,645 | 83,056 | 16.0 | 75.6 | 8.4 | |
| | 1914 | 7 | 6 | 4 | 335 | 142 | 159 | 34 | 42.4 | 47.5 | 10.1 | 425,999 | 191,914 | 186,671 | 47,414 | 45.1 | 43.8 | 11.1 | |
| Utah..... | 1919 | 9 | 15 | 3 | 1,040 | 74 | 951 | 15 | 7.1 | 91.4 | 1.4 | 1,973,166 | 154,225 | 1,789,384 | 29,557 | 7.8 | 90.7 | 1.5 | |
| | 1914 | 20 | 12 | 4 | 1,070 | 109 | 937 | 24 | 10.2 | 87.6 | 2.2 | 1,307,433 | 125,750 | 1,215,243 | 26,440 | 9.2 | 88.9 | 1.9 | |
| Nevada..... | 1919 | 8 | 3 | 2 | 148 | 65 | 76 | 7 | 43.9 | 51.4 | 4.7 | 340,036 | 148,616 | 173,204 | 18,216 | 43.7 | 50.9 | 5.4 | |
| | 1914 | 5 | 3 | 4 | 124 | 35 | 67 | 22 | 28.2 | 64.0 | 17.8 | 216,193 | 66,115 | 112,157 | 37,921 | 30.6 | 51.9 | 17.5 | |
| PACIFIC..... | 1919 | 353 | 293 | 100 | 16,836 | 3,377 | 10,949 | 2,510 | 20.1 | 65.0 | 14.9 | 33,879,304 | 6,782,060 | 21,958,668 | 5,138,576 | 20.0 | 64.8 | 15.2 | |
| | 1914 | 382 | 207 | 213 | 15,459 | 2,631 | 10,516 | 2,312 | 17.0 | 68.0 | 15.0 | 20,347,226 | 3,394,667 | 13,949,834 | 3,002,725 | 16.7 | 68.6 | 14.8 | |
| Washington..... | 1919 | 90 | 46 | 41 | 3,539 | 686 | 2,282 | 571 | 19.4 | 64.5 | 16.1 | 7,336,715 | 1,450,880 | 4,766,660 | 1,119,175 | 19.8 | 65.0 | 15.3 | |
| | 1914 | 92 | 52 | 48 | 3,298 | 628 | 2,251 | 419 | 19.0 | 68.3 | 12.7 | 4,251,620 | 799,288 | 2,894,255 | 558,077 | 18.8 | 68.1 | 13.1 | |
| Oregon..... | 1919 | 83 | 28 | 12 | 2,033 | 332 | 1,503 | 198 | 16.3 | 73.9 | 9.7 | 3,620,983 | 533,155 | 2,734,786 | 362,042 | 14.7 | 75.3 | 10.0 | |
| | 1914 | 24 | 27 | 17 | 1,745 | 246 | 1,305 | 194 | 14.1 | 74.8 | 11.1 | 2,146,868 | 265,837 | 1,620,579 | 230,452 | 13.8 | 75.5 | 10.7 | |
| California..... | 1919 | 230 | 219 | 137 | 11,264 | 2,359 | 7,184 | 1,741 | 20.9 | 63.6 | 15.5 | 22,912,066 | 4,798,025 | 14,457,222 | 3,657,359 | 20.9 | 63.1 | 16.0 | |
| | 1914 | 266 | 128 | 148 | 10,416 | 1,757 | 6,960 | 1,699 | 16.9 | 66.8 | 16.3 | 13,948,738 | 2,299,542 | 9,435,000 | 2,214,196 | 16.5 | 67.6 | 15.9 | |

* Includes the group "Corporations."

POWER LAUNDRIES.

1037

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horsepower. |
|-------------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-----------|-----------|--------------------|--------------------------------|---------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| ALABAMA..... | 1919 | 37 | 1,684 | 31 | 191 | 1,462 | \$1,250,596 | \$355,277 | \$771,293 | \$463,521 | \$2,196,118 | 1,675 |
| | 1914 | 41 | 1,569 | 31 | 150 | 1,383 | 784,541 | 147,929 | 480,569 | 256,450 | 1,360,688 | 1,362 |
| Birmingham..... | 1919 | 7 | 873 | ..... | 109 | 764 | 674,623 | 219,184 | 430,817 | 228,684 | 1,228,172 | 771 |
| | 1914 | 10 | 781 | 3 | 80 | 698 | 456,048 | 86,609 | 254,513 | 129,832 | 755,530 | 681 |
| Mobile..... | 1919 | 6 | 224 | 5 | 39 | 180 | 117,496 | 53,761 | 117,471 | 47,162 | 287,060 | 50 |
| | 1914 | 4 | 228 | 1 | 20 | 207 | 80,024 | 20,686 | 84,141 | 29,859 | 197,991 | 157 |
| Montgomery..... | 1919 | 4 | 195 | 6 | 38 | 151 | 127,333 | 46,392 | 55,644 | 50,602 | 196,351 | 123 |
| | 1914 | 3 | 149 | 4 | 13 | 132 | 81,905 | 15,231 | 42,523 | 27,414 | 121,328 | 111 |
| ARIZONA..... | 1919 | 21 | 508 | 13 | 46 | 539 | 444,981 | 72,838 | 430,605 | 253,740 | 987,438 | 635 |
| | 1914 | 17 | 379 | 19 | 25 | 335 | 266,812 | 30,998 | 194,678 | 70,770 | 425,999 | 326 |
| Phoenix..... | 1919 | 3 | 160 | ..... | 18 | 142 | 93,807 | 27,554 | 131,925 | 60,470 | 280,110 | 37 |
| | 1914 | 3 | 130 | 4 | 9 | 117 | 68,000 | 10,266 | 67,581 | 24,019 | 133,147 | 80 |
| ARKANSAS..... | 1919 | 49 | 1,045 | 46 | 62 | 937 | 699,445 | 87,446 | 549,125 | 330,619 | 1,393,024 | 1,058 |
| | 1914 | 53 | 1,011 | 76 | 103 | 832 | 577,314 | 98,628 | 338,838 | 147,826 | 836,457 | 1,092 |
| Fort Smith..... | 1919 | 3 | 69 | 5 | 3 | 61 | 30,312 | 4,100 | 45,475 | 24,955 | 87,993 | 40 |
| | 1914 | 4 | 108 | 14 | 10 | 84 | 66,020 | 12,084 | 35,910 | 11,568 | 93,438 | 88 |
| Hot Springs..... | 1919 | 4 | 138 | 2 | 7 | 129 | 125,835 | 9,500 | 70,505 | 40,888 | 182,069 | 51 |
| | 1914 | 3 | 103 | 4 | 14 | 85 | 100,400 | 10,549 | 38,870 | 27,128 | 87,280 | 125 |
| Little Rock..... | 1919 | 11 | 373 | 4 | 32 | 337 | 230,412 | 43,974 | 214,666 | 124,928 | 603,577 | 169 |
| | 1914 | 6 | 301 | 5 | 30 | 266 | 138,540 | 34,267 | 118,172 | 41,015 | 277,736 | 187 |
| CALIFORNIA..... | 1919 | 586 | 13,223 | 633 | 1,326 | 11,264 | 18,373,479 | 2,120,534 | 9,301,912 | 4,582,096 | 22,912,606 | 15,537 |
| | 1914 | 532 | 12,077 | 624 | 1,037 | 10,416 | 9,618,271 | 1,084,550 | 6,212,685 | 2,262,195 | 13,948,738 | 13,503 |
| Alameda..... | 1919 | 12 | 107 | 13 | 9 | 85 | 87,760 | 11,870 | 70,396 | 62,744 | 204,824 | ..... |
| | 1914 | 9 | 114 | 18 | 4 | 92 | 79,803 | 4,420 | 56,273 | 23,668 | 119,157 | 96 |
| Bakersfield..... | 1919 | 3 | 208 | 4 | 111 | 93 | 91,510 | 5,050 | 93,500 | 77,191 | 191,097 | ..... |
| | 1914 | 5 | 101 | 5 | 5 | 91 | 115,873 | 4,788 | 55,606 | 26,474 | 134,505 | 105 |
| Berkeley..... | 1919 | 13 | 164 | 8 | 8 | 148 | 130,725 | 21,857 | 126,112 | 40,919 | 304,233 | ..... |
| | 1914 | 14 | 167 | 10 | 9 | 142 | 139,217 | 10,348 | 84,817 | 22,992 | 181,183 | 131 |
| Eureka..... | 1919 | 5 | 80 | 6 | 4 | 70 | 63,150 | 2,525 | 49,317 | 29,936 | 96,950 | ..... |
| | 1914 | 5 | 67 | 9 | 4 | 54 | 90,804 | 3,764 | 26,536 | 10,472 | 63,446 | 92 |
| Fresno..... | 1919 | 14 | 224 | 17 | 22 | 185 | 276,215 | 26,939 | 200,559 | 117,091 | 486,685 | ..... |
| | 1914 | 8 | 168 | 11 | 9 | 148 | 166,970 | 9,359 | 99,543 | 31,433 | 227,072 | 207 |
| Long Beach..... | 1919 | 5 | 220 | 1 | 19 | 200 | 240,571 | 26,109 | 114,315 | 50,887 | 302,404 | ..... |
| | 1914 | 4 | 145 | 4 | 20 | 121 | 151,113 | 17,770 | 81,840 | 33,180 | 176,299 | 220 |
| Los Angeles..... | 1919 | 46 | 3,365 | 32 | 515 | 2,818 | 4,685,894 | 753,691 | 1,988,938 | 957,249 | 5,676,164 | 3,031 |
| | 1914 | 42 | 3,179 | 33 | 394 | 2,752 | 2,697,607 | 316,224 | 1,561,456 | 565,167 | 3,553,871 | 3,053 |
| Oakland..... | 1919 | 57 | 2,991 | 54 | 119 | 2,818 | 1,276,328 | 181,896 | 865,042 | 374,544 | 2,153,878 | ..... |
| | 1914 | 66 | 1,125 | 70 | 98 | 951 | 856,138 | 119,506 | 590,816 | 201,020 | 1,350,680 | 1,143 |
| Pasadena..... | 1919 | 12 | 340 | 18 | 37 | 285 | 524,013 | 62,451 | 292,073 | 107,205 | 689,201 | ..... |
| | 1914 | 7 | 307 | 8 | 28 | 271 | 263,918 | 29,205 | 169,697 | 52,603 | 381,950 | 203 |
| Sacramento..... | 1919 | 18 | 465 | 22 | 40 | 403 | 481,076 | 61,306 | 342,686 | 150,580 | 785,713 | ..... |
| | 1914 | 12 | 373 | 15 | 30 | 328 | 337,707 | 44,354 | 211,749 | 77,804 | 463,322 | 350 |
| San Bernardino ¹ | 1919 | 5 | 88 | 3 | 11 | 74 | 93,025 | 9,486 | 44,851 | 23,385 | 95,981 | ..... |
| San Diego..... | 1919 | 17 | 430 | 13 | 59 | 358 | 493,129 | 80,675 | 235,267 | 123,485 | 600,398 | ..... |
| | 1914 | 13 | 461 | 12 | 27 | 422 | 349,705 | 30,133 | 221,478 | 85,459 | 465,862 | 442 |
| San Francisco..... | 1919 | 110 | 2,852 | 120 | 224 | 2,508 | 2,870,239 | 381,603 | 2,405,460 | 1,024,850 | 5,341,139 | ..... |
| | 1914 | 110 | 2,799 | 128 | 225 | 2,446 | 2,192,830 | 298,433 | 1,576,651 | 530,282 | 3,430,092 | 3,425 |
| San Jose..... | 1919 | 14 | 280 | 20 | 20 | 240 | 251,695 | 207,630 | 240,197 | 96,158 | 511,784 | ..... |
| | 1914 | 16 | 233 | 27 | 17 | 189 | 113,283 | 18,845 | 117,257 | 36,065 | 269,594 | 306 |
| Santa Ana ¹ | 1919 | 4 | 125 | 1 | 8 | 116 | 132,723 | 7,430 | 80,993 | 50,929 | 102,733 | ..... |
| Santa Barbara..... | 1919 | 6 | 133 | 5 | 13 | 115 | 63,223 | 10,134 | 100,922 | 56,366 | 222,741 | ..... |
| | 1914 | 4 | 79 | 3 | 1 | 75 | 61,710 | 1,200 | 49,763 | 13,130 | 94,092 | 80 |
| Stockton..... | 1919 | 14 | 252 | 14 | 19 | 219 | 287,574 | 19,052 | 185,707 | 77,986 | 449,755 | ..... |
| | 1914 | 11 | 227 | 13 | 9 | 205 | 164,050 | 10,018 | 134,863 | 34,959 | 279,814 | 209 |
| Vallejo..... | 1919 | 3 | 124 | 6 | 8 | 110 | 115,425 | 8,456 | 107,460 | 59,591 | 211,103 | ..... |
| | 1914 | 6 | 84 | 4 | 6 | 74 | 67,029 | 10,109 | 49,125 | 18,741 | 96,231 | 89 |
| COLORADO..... | 1919 | 92 | 2,470 | 86 | 298 | 2,086 | 2,255,955 | 442,133 | 1,437,628 | 683,537 | 3,759,849 | 2,925 |
| | 1914 | 94 | 2,079 | 97 | 223 | 1,759 | 1,440,896 | 249,777 | 849,010 | 364,301 | 2,163,263 | 2,723 |
| Boulder City ¹ | 1919 | 3 | 50 | 4 | 5 | 41 | 39,203 | 5,030 | 26,202 | 12,448 | 59,480 | 74 |
| Colorado Springs ¹ | 1919 | 5 | 196 | 6 | 27 | 103 | 170,665 | 29,447 | 119,077 | 28,211 | 282,017 | 85 |
| Denver..... | 1919 | 38 | 1,529 | 22 | 201 | 1,306 | 1,368,840 | 312,007 | 917,545 | 422,919 | 2,407,244 | 1,467 |
| | 1914 | 38 | 1,235 | 27 | 149 | 1,059 | 869,666 | 168,268 | 511,294 | 200,546 | 1,299,055 | 1,383 |
| Greeley ¹ | 1919 | 3 | 43 | 2 | 5 | 36 | 38,104 | 6,280 | 24,766 | 12,522 | 69,840 | 40 |
| Pueblo..... | 1919 | 3 | 172 | 1 | 24 | 147 | 223,632 | 34,796 | 83,091 | 45,450 | 256,970 | 180 |
| | 1914 | 3 | 139 | 1 | 14 | 124 | 150,167 | 19,013 | 63,726 | 50,150 | 158,485 | 137 |
| CONNECTICUT..... | 1919 | 128 | 2,334 | 131 | 179 | 2,024 | 2,421,654 | 285,874 | 1,531,432 | 799,699 | 3,560,276 | 3,646 |
| | 1914 | 127 | 2,184 | 125 | 146 | 1,913 | 1,454,961 | 161,660 | 894,291 | 408,401 | 2,108,011 | 3,174 |
| Bridgeport..... | 1919 | 13 | 283 | 15 | 27 | 241 | 310,577 | 44,803 | 170,898 | 86,016 | 425,734 | 602 |
| | 1914 | 8 | 270 | 9 | 27 | 234 | 196,596 | 24,792 | 116,087 | 48,220 | 266,474 | 435 |
| Hartford..... | 1919 | 16 | 438 | 18 | 48 | 372 | 532,897 | 74,143 | 312,716 | 168,255 | 768,865 | 615 |
| | 1914 | 17 | 386 | 19 | 19 | 348 | 277,436 | 22,514 | 172,664 | 88,424 | 410,678 | 435 |
| Meriden..... | 1919 | 3 | 78 | 2 | 9 | 67 | 43,716 | 12,031 | 36,048 | 10,473 | 73,785 | 70 |
| | 1914 | 4 | 91 | 4 | 13 | 74 | 65,083 | 9,352 | 31,883 | 8,834 | 78,803 | 100 |

¹ Not reported in 1914.

MANUFACTURES.

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|------------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| CONNECTICUT—Continued. | | | | | | | | | | | | |
| New Britain..... | 1919 | 4 | 85 | 6 | 5 | 74 | \$113,461 | \$12,250 | \$94,638 | \$22,268 | \$177,368 | 129 |
| | 1914 | 4 | 77 | 2 | 5 | 70 | 102,637 | 10,732 | 37,646 | 16,620 | 96,770 | 137 |
| New Haven..... | 1919 | 16 | 520 | 12 | 33 | 475 | 483,130 | 56,024 | 321,361 | 153,460 | 718,970 | 560 |
| | 1914 | 18 | 430 | 12 | 29 | 389 | 281,860 | 35,145 | 175,356 | 70,201 | 395,540 | 596 |
| New London..... | 1919 | 4 | 67 | 3 | 3 | 61 | 55,372 | 2,370 | 39,265 | 18,857 | 90,497 | 93 |
| | 1914 | 4 | 66 | 3 | 2 | 61 | 54,156 | 1,050 | 23,596 | 7,760 | 52,851 | 105 |
| Norwich..... | 1919 | 4 | 52 | 0 | 1 | 45 | 73,225 | 600 | 43,500 | 21,066 | 98,898 | 95 |
| | 1914 | 3 | 55 | 4 | 3 | 48 | 25,215 | 5,564 | 18,790 | 10,293 | 50,300 | 65 |
| Stamford..... | 1919 | 3 | 75 | 3 | 8 | 64 | 46,068 | 21,420 | 37,834 | 13,786 | 111,215 | 50 |
| | 1914 | 3 | 64 | 3 | 4 | 57 | 25,021 | 10,847 | 25,411 | 9,003 | 60,499 | 80 |
| Waterbury..... | 1919 | 5 | 116 | 2 | 8 | 106 | 59,846 | 8,842 | 77,036 | 48,562 | 167,582 | 165 |
| | 1914 | 7 | 127 | 3 | 7 | 117 | 56,108 | 9,865 | 58,831 | 28,156 | 126,116 | 210 |
| DELAWARE..... | | | | | | | | | | | | |
| | 1919 | 6 | 300 | 10 | 6 | 284 | 375,386 | 13,935 | 220,984 | 95,822 | 444,095 | 334 |
| | 1914 | 12 | 360 | 16 | 27 | 326 | 253,264 | 26,206 | 92,178 | 42,524 | 242,897 | 335 |
| Wilmington..... | 1919 | 4 | 281 | 7 | 4 | 270 | 360,276 | 213,084 | 12,635 | 91,327 | 425,120 | ..... |
| | 1914 | 9 | 346 | 11 | 27 | 308 | 236,604 | 26,206 | 86,610 | 39,869 | 226,332 | 301 |
| DISTRICT OF COLUMBIA..... | | | | | | | | | | | | |
| | 1919 | 21 | 1,805 | 10 | 140 | 1,655 | 1,374,200 | 314,468 | 1,049,580 | 481,036 | 2,559,210 | 1,633 |
| | 1914 | 18 | 1,351 | 10 | 124 | 1,217 | 971,336 | 121,408 | 440,990 | 181,876 | 1,028,475 | 1,071 |
| FLORIDA..... | | | | | | | | | | | | |
| | 1919 | 35 | 1,146 | 23 | 140 | 983 | 881,099 | 192,147 | 488,157 | 365,461 | 1,480,051 | 1,437 |
| | 1914 | 45 | 991 | 41 | 86 | 804 | 612,525 | 91,098 | 356,124 | 182,317 | 946,314 | 1,120 |
| Jacksonville..... | 1919 | 6 | 367 | 5 | 40 | 322 | 250,674 | 75,037 | 160,537 | 95,655 | 496,315 | 325 |
| | 1914 | 6 | 234 | 2 | 28 | 204 | 189,157 | 39,000 | 77,195 | 39,073 | 275,155 | 372 |
| Pensacola..... | 1919 | 3 | 117 | ..... | 28 | 89 | 66,313 | 28,332 | 34,679 | 40,459 | 133,811 | 45 |
| | 1914 | 3 | 97 | 4 | 16 | 77 | 33,439 | 18,053 | 22,186 | 17,007 | 79,354 | 69 |
| Tampa..... | 1919 | 3 | 178 | ..... | 27 | 151 | 147,941 | 38,482 | 54,781 | 56,739 | 234,260 | 195 |
| | 1914 | 3 | 191 | 4 | 14 | 173 | 110,919 | 10,114 | 95,748 | 51,249 | 210,557 | 158 |
| GEORGIA..... | | | | | | | | | | | | |
| | 1919 | 52 | 2,522 | 40 | 288 | 2,194 | 1,919,132 | 426,179 | 1,205,256 | 872,895 | 3,216,832 | 2,566 |
| | 1914 | 43 | 2,008 | 35 | 197 | 1,770 | 1,044,728 | 207,229 | 571,737 | 335,841 | 1,632,221 | 1,773 |
| Atlanta..... | 1919 | 12 | 1,317 | 5 | 184 | 1,128 | 1,022,240 | 286,026 | 679,903 | 481,579 | 1,834,362 | 1,070 |
| | 1914 | 13 | 1,039 | 4 | 119 | 916 | 505,786 | 130,495 | 300,561 | 192,244 | 912,952 | 901 |
| Augusta..... | 1919 | 3 | 119 | 4 | 8 | 107 | 166,838 | 6,092 | 55,975 | 47,101 | 147,394 | 95 |
| | 1914 | 3 | 80 | 4 | 9 | 67 | 61,173 | 7,094 | 22,452 | 15,248 | 60,448 | 105 |
| Macon..... | 1919 | 6 | 239 | 1 | 31 | 197 | 106,468 | 44,458 | 119,304 | 66,570 | 285,771 | 260 |
| | 1914 | 3 | 175 | ..... | 17 | 168 | 83,725 | 16,872 | 49,491 | 22,948 | 131,486 | 84 |
| Savannah..... | 1919 | 5 | 290 | 2 | 28 | 260 | 216,095 | 42,644 | 162,104 | 90,080 | 394,109 | ..... |
| | 1914 | 4 | 300 | 1 | 24 | 275 | 150,960 | 24,854 | 78,257 | 53,543 | 222,415 | 236 |
| Waycross ¹ | 1919 | 3 | 23 | 2 | 4 | 17 | 10,550 | 3,363 | 7,915 | 26,272 | 14,515 | 25 |
| IDAHO..... | | | | | | | | | | | | |
| | 1919 | 40 | 652 | 38 | 43 | 571 | 877,560 | 59,420 | 487,635 | 322,581 | 1,179,846 | 756 |
| | 1914 | 36 | 510 | 42 | 26 | 442 | 486,600 | 28,844 | 246,094 | 140,586 | 592,749 | 1,033 |
| Boise..... | 1919 | 3 | 98 | 1 | 7 | 90 | 118,859 | 13,157 | 76,555 | 35,447 | 176,242 | 142 |
| | 1914 | 3 | 85 | 2 | 7 | 76 | 98,962 | 7,545 | 55,036 | 15,987 | 117,267 | 70 |
| ILLINOIS..... | | | | | | | | | | | | |
| | 1919 | 470 | 12,189 | 405 | 1,205 | 10,579 | 12,627,971 | 2,087,158 | 7,895,989 | 4,942,918 | 20,606,032 | 14,833 |
| | 1914 | 461 | 12,470 | 437 | 1,029 | 11,004 | 8,401,995 | 1,150,466 | 5,474,339 | 2,038,683 | 12,840,432 | 13,472 |
| Alton..... | 1919 | 4 | 65 | 3 | 7 | 55 | 98,094 | 13,554 | 33,195 | 21,273 | 93,375 | 80 |
| | 1914 | 3 | 52 | 2 | 2 | 48 | 44,275 | 2,300 | 23,742 | 13,891 | 66,406 | 55 |
| Aurora..... | 1919 | 3 | 118 | 3 | 7 | 108 | 78,853 | 10,389 | 58,055 | 51,767 | 161,979 | 80 |
| | 1914 | 3 | 98 | 2 | 10 | 86 | 38,404 | 8,272 | 37,790 | 16,430 | 81,541 | 105 |
| Bloomington..... | 1919 | 3 | 99 | 4 | 8 | 87 | 62,122 | 11,440 | 64,597 | 37,325 | 159,756 | 50 |
| | 1914 | 4 | 149 | 4 | 14 | 131 | 77,144 | 14,850 | 61,526 | 23,306 | 164,270 | 136 |
| Centralla ¹ | 1919 | 3 | 31 | 4 | 2 | 25 | 15,184 | 1,612 | 12,635 | 6,946 | 27,133 | 40 |
| Champaign..... | 1919 | 5 | 96 | 9 | 4 | 83 | 41,441 | 3,052 | 59,953 | 29,965 | 144,639 | 42 |
| | 1914 | 3 | 62 | 6 | 14 | 42 | 39,325 | 10,008 | 16,800 | 8,201 | 60,652 | 57 |
| Chicago..... | 1919 | 250 | 8,137 | 171 | 823 | 7,143 | 8,627,351 | 1,560,989 | 5,719,267 | 3,453,567 | 14,836,208 | 7,544 |
| | 1914 | 222 | 8,398 | 190 | 807 | 7,401 | 5,395,721 | 847,328 | 3,918,958 | 1,863,017 | 8,949,896 | 8,010 |
| Danville..... | 1919 | 5 | 124 | 6 | 21 | 97 | 162,870 | 28,761 | 56,377 | 36,329 | 177,140 | 183 |
| | 1914 | 4 | 132 | 4 | 25 | 103 | 118,345 | 25,629 | 30,366 | 21,691 | 133,614 | 163 |
| Decatur..... | 1919 | 4 | 234 | 1 | 25 | 208 | 156,111 | 32,240 | 132,469 | 42,000 | 295,040 | 132 |
| | 1914 | 5 | 192 | 6 | 10 | 176 | 115,900 | 10,730 | 73,447 | 35,849 | 158,794 | 305 |
| East St. Louis..... | 1919 | 6 | 134 | 4 | 19 | 111 | 156,973 | 36,349 | 67,791 | 46,952 | 203,785 | 125 |
| | 1914 | 4 | 110 | ..... | 12 | 98 | 142,724 | 19,002 | 41,197 | 34,468 | 119,435 | 206 |
| Evanston..... | 1919 | 6 | 214 | 5 | 20 | 189 | 213,543 | 32,868 | 160,109 | 93,690 | 432,226 | 245 |
| | 1914 | 6 | 194 | 4 | 22 | 168 | 133,914 | 21,522 | 96,634 | 29,107 | 215,005 | 124 |
| Galesburg..... | 1919 | 4 | 54 | 3 | 6 | 45 | 40,269 | 6,816 | 27,199 | 30,366 | 71,513 | 81 |
| | 1914 | 5 | 77 | 3 | 11 | 63 | 48,699 | 8,344 | 28,590 | 15,544 | 74,212 | 86 |
| Granite ¹ | 1919 | 3 | 20 | 4 | 1 | 15 | 26,598 | 416 | 9,412 | 5,823 | 20,367 | ..... |
| Joliet..... | 1919 | 4 | 108 | 1 | 19 | 88 | 126,947 | 25,395 | 35,370 | 32,841 | 126,090 | 88 |
| | 1914 | 6 | 115 | 1 | 13 | 101 | 104,137 | 17,496 | 40,591 | 30,743 | 133,622 | 141 |
| La Salle ¹ | 1919 | 3 | 58 | 4 | 4 | 50 | 58,256 | 4,556 | 30,812 | 16,356 | 85,567 | 33 |
| Moline..... | 1919 | 6 | 103 | 10 | 5 | 88 | 132,379 | 5,470 | 64,335 | 45,208 | 166,622 | ..... |
| | 1914 | 5 | 89 | 7 | 8 | 74 | 154,077 | 5,533 | 34,427 | 14,549 | 84,629 | 76 |

¹ Not reported in 1914.

POWER LAUNDRIES.

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TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|-----------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-----------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| ILLINOIS--Continued. | | | | | | | | | | | | |
| Peoria..... | 1919 | 8 | 335 | 12 | 47 | 276 | \$442,090 | \$55,423 | \$166,243 | \$147,471 | \$504,199 | 420 |
| | 1914 | 11 | 335 | 18 | 22 | 295 | 281,928 | 14,874 | 126,857 | 65,248 | 316,606 | 449 |
| Quincy..... | 1919 | 3 | 160 | ..... | 19 | 141 | 160,092 | 24,778 | 70,393 | 88,018 | 207,905 | 163 |
| | 1914 | 3 | 206 | ..... | 19 | 187 | 167,362 | 21,160 | 60,187 | 27,067 | 179,713 | 157 |
| Rock Island..... | 1919 | 5 | 77 | 12 | 5 | 60 | 75,605 | 7,423 | 38,692 | 27,216 | 102,031 | ..... |
| | 1914 | 7 | 102 | 8 | 8 | 80 | 87,451 | 6,456 | 33,087 | 16,813 | 85,894 | 108 |
| Rockford..... | 1919 | 7 | 166 | 4 | 13 | 149 | 86,726 | 12,245 | 97,967 | 48,931 | 218,442 | 110 |
| | 1914 | 8 | 178 | 9 | 20 | 149 | 82,025 | 19,124 | 66,387 | 25,271 | 150,418 | 176 |
| Springfield..... | 1919 | 8 | 351 | 8 | 30 | 313 | 344,393 | 52,687 | 180,025 | 115,658 | 478,529 | 336 |
| | 1914 | 8 | 324 | 6 | 21 | 297 | 161,650 | 18,912 | 126,786 | 57,255 | 290,274 | 315 |
| INDIANA..... | | | | | | | | | | | | |
| | 1919 | 158 | 4,328 | 153 | 607 | 3,588 | 3,629,011 | 536,857 | 2,107,044 | 1,556,505 | 5,588,748 | 5,260 |
| | 1914 | 174 | 4,307 | 170 | 387 | 3,750 | 2,295,353 | 382,896 | 1,520,680 | 702,337 | 3,697,112 | 4,739 |
| Crawfordsville ¹ | 1919 | 5 | 41 | 6 | 5 | 30 | 30,302 | 2,300 | 12,460 | 10,756 | 44,706 | 25 |
| Elkhart..... | 1919 | 3 | 52 | 2 | 7 | 43 | 49,054 | 7,340 | 19,267 | 16,003 | 71,306 | 65 |
| | 1914 | 3 | 67 | 1 | 12 | 54 | 51,000 | 10,780 | 22,200 | 18,085 | 63,240 | 48 |
| Evansville..... | 1919 | 8 | 377 | 3 | 31 | 343 | 284,233 | 40,002 | 154,669 | 77,597 | 362,886 | 242 |
| | 1914 | 6 | 370 | 2 | 31 | 337 | 240,983 | 30,450 | 109,410 | 51,741 | 271,055 | 286 |
| Fort Wayne..... | 1919 | 7 | 202 | 4 | 16 | 182 | 211,441 | 18,984 | 124,132 | 215,893 | 420,383 | 9 |
| | 1914 | 3 | 194 | 3 | 18 | 173 | 70,987 | 13,709 | 65,568 | 20,171 | 134,838 | 205 |
| Gary ¹ | 1919 | 5 | 97 | 3 | 9 | 85 | 80,792 | 14,220 | 77,322 | 41,116 | 163,511 | 175 |
| Indianapolis..... | 1919 | 10 | 1,409 | 5 | 206 | 1,198 | 1,075,085 | 284,072 | 705,702 | 479,080 | 1,947,684 | 970 |
| | 1914 | 20 | 1,406 | 12 | 151 | 1,243 | 678,760 | 171,807 | 548,013 | 241,150 | 1,283,137 | 1,452 |
| Kokomo..... | 1919 | 3 | 77 | 3 | 1 | 73 | 62,195 | 785 | 49,370 | 27,334 | 113,913 | 115 |
| | 1914 | 3 | 62 | 3 | 1 | 58 | 20,375 | 390 | 16,938 | 6,623 | 49,500 | 45 |
| Logansport..... | 1919 | 3 | 116 | 4 | 10 | 102 | 91,113 | 12,033 | 61,409 | 47,021 | 154,120 | 60 |
| | 1914 | 3 | 109 | 4 | 4 | 101 | 89,523 | 2,704 | 45,231 | 14,456 | 97,420 | 146 |
| Marion..... | 1919 | 4 | 95 | 5 | 11 | 79 | 84,666 | 12,385 | 44,233 | 24,960 | 120,412 | ..... |
| | 1914 | 4 | 91 | 5 | 6 | 80 | 82,537 | 4,210 | 35,216 | 11,428 | 74,204 | 76 |
| Muncie..... | 1919 | 3 | 108 | 2 | 12 | 94 | 82,268 | 12,428 | 76,444 | 38,601 | 166,851 | 142 |
| | 1914 | 3 | 89 | 2 | 7 | 80 | 59,875 | 5,740 | 34,915 | 9,725 | 83,655 | 71 |
| Richmond ¹ | 1919 | 4 | 48 | 3 | 4 | 41 | 21,593 | 4,160 | 22,656 | 25,916 | 64,621 | 40 |
| South Bend..... | 1919 | 4 | 146 | 1 | 8 | 137 | 159,829 | 14,231 | 88,477 | 53,292 | 224,814 | 100 |
| | 1914 | 8 | 139 | 4 | 20 | 115 | 101,517 | 16,781 | 67,405 | 43,777 | 169,118 | 351 |
| Terre Haute..... | 1919 | 5 | 140 | 3 | 23 | 114 | 240,766 | 30,393 | 82,018 | 60,363 | 196,625 | 394 |
| | 1914 | 4 | 253 | 1 | 41 | 211 | 165,621 | 45,924 | 72,690 | 48,207 | 257,982 | 248 |
| Vincennes..... | 1919 | 3 | 79 | 4 | 3 | 72 | 74,600 | 2,973 | 29,088 | 14,485 | 78,200 | 170 |
| | 1914 | 3 | 74 | 4 | 2 | 68 | 39,334 | 936 | 22,787 | 8,801 | 65,003 | 57 |
| IOWA..... | | | | | | | | | | | | |
| | 1919 | 129 | 2,466 | 137 | 255 | 2,074 | 2,599,074 | 357,951 | 1,372,508 | 601,410 | 3,904,658 | 3,168 |
| | 1914 | 176 | 2,883 | 186 | 179 | 2,518 | 1,784,871 | 180,634 | 1,150,519 | 587,627 | 2,862,005 | 3,873 |
| Burlington..... | 1919 | 3 | 64 | 6 | 6 | 52 | 57,453 | 7,006 | 31,347 | 23,674 | 88,435 | 97 |
| | 1914 | 4 | 90 | 7 | 7 | 76 | 29,549 | 7,000 | 32,403 | 17,006 | 74,407 | 76 |
| Cedar Rapids..... | 1919 | 5 | 171 | 2 | 19 | 160 | 143,302 | 25,601 | 108,671 | 54,732 | 308,510 | 165 |
| | 1914 | 7 | 210 | 7 | 18 | 185 | 123,032 | 17,616 | 94,568 | 45,452 | 237,771 | 292 |
| Davenport..... | 1919 | 6 | 175 | 6 | 15 | 154 | 160,386 | 24,294 | 105,491 | 74,875 | 291,038 | 105 |
| | 1914 | 7 | 171 | 3 | 13 | 155 | 55,980 | 17,766 | 62,343 | 18,849 | 162,384 | 149 |
| Des Moines..... | 1919 | 11 | 418 | 11 | 49 | 358 | 407,134 | 70,120 | 236,846 | 152,720 | 692,039 | 380 |
| | 1914 | 12 | 392 | 10 | 19 | 363 | 191,790 | 24,436 | 197,049 | 86,187 | 433,783 | 486 |
| Dubuque..... | 1919 | 3 | 73 | 5 | 10 | 58 | 102,630 | 16,920 | 32,397 | 35,448 | 104,171 | 68 |
| | 1914 | 6 | 79 | 5 | 4 | 70 | 63,478 | 2,756 | 33,319 | 20,559 | 70,873 | 110 |
| Sioux City..... | 1919 | 6 | 234 | 2 | 52 | 230 | 361,838 | 89,093 | 192,189 | 85,810 | 573,694 | 295 |
| | 1914 | 8 | 276 | 6 | 24 | 246 | 197,650 | 27,633 | 124,289 | 43,932 | 293,530 | 318 |
| KANSAS..... | | | | | | | | | | | | |
| | 1919 | 138 | 2,270 | 165 | 146 | 1,950 | 1,982,927 | 191,778 | 1,230,845 | 612,059 | 3,358,336 | 2,785 |
| | 1914 | 150 | 1,853 | 180 | 66 | 1,607 | 1,181,164 | 59,707 | 683,703 | 325,076 | 1,695,799 | 2,664 |
| Fort Scott ¹ | 1919 | 3 | 25 | 2 | ..... | 23 | 32,417 | ..... | 20,107 | 8,545 | 50,813 | 24 |
| Hutchinson..... | 1919 | 6 | 139 | 9 | 9 | 121 | 146,507 | 10,480 | 77,590 | 38,436 | 203,106 | 40 |
| | 1914 | 5 | 123 | 7 | 4 | 112 | 98,985 | 3,760 | 40,939 | 19,771 | 110,262 | 206 |
| Kansas City..... | 1919 | 6 | 146 | 11 | 14 | 121 | 184,139 | 16,122 | 66,416 | 92,212 | 236,404 | 60 |
| | 1914 | 7 | 97 | 8 | 2 | 87 | 47,400 | 396 | 42,331 | 18,376 | 87,337 | 151 |
| Leavenworth ¹ | 1919 | 3 | 107 | 5 | 6 | 96 | 101,450 | 5,930 | 60,380 | 36,221 | 129,000 | 105 |
| Parsons..... | 1919 | 4 | 57 | 5 | 2 | 50 | 54,800 | 1,560 | 36,351 | 13,283 | 73,833 | 162 |
| | 1914 | 3 | 46 | 4 | 4 | 38 | 40,567 | 2,080 | 13,106 | 6,744 | 27,993 | 48 |
| Pittsburg..... | 1919 | 4 | 38 | 6 | ..... | 30 | 16,351 | ..... | 20,620 | 11,257 | 45,382 | 10 |
| | 1914 | 3 | 35 | 5 | ..... | 30 | 15,400 | ..... | 14,100 | 4,877 | 37,500 | 66 |
| Salina..... | 1919 | 4 | 63 | 6 | ..... | 57 | 77,413 | ..... | 39,193 | 37,470 | 105,285 | 22 |
| | 1914 | 3 | 46 | 4 | 1 | 41 | 22,780 | 416 | 20,221 | 15,442 | 51,100 | 54 |
| Topeka..... | 1919 | 6 | 232 | 4 | 34 | 194 | 136,732 | 43,798 | 109,440 | 56,405 | 319,790 | 175 |
| | 1914 | 10 | 206 | 10 | 11 | 185 | 96,260 | 9,933 | 78,049 | 39,629 | 184,517 | 226 |
| Wichita..... | 1919 | 7 | 409 | 9 | 33 | 367 | 293,089 | 63,520 | 287,426 | 149,292 | 692,973 | 180 |
| | 1914 | 8 | 295 | 9 | 21 | 265 | 211,465 | 22,679 | 132,420 | 62,089 | 315,408 | 291 |
| KENTUCKY..... | | | | | | | | | | | | |
| | 1919 | 63 | 2,591 | 53 | 244 | 2,294 | 1,688,280 | 236,126 | 1,183,377 | 789,000 | 2,905,346 | 6,702 |
| | 1914 | 75 | 2,086 | 54 | 159 | 1,873 | 1,116,867 | 145,637 | 698,533 | 300,532 | 1,665,979 | 2,655 |
| Lexington..... | 1919 | 3 | 288 | ..... | 37 | 251 | 277,181 | 40,123 | 156,426 | 90,139 | 347,011 | 313 |
| | 1914 | 6 | 277 | 6 | 19 | 252 | 125,282 | 16,150 | 97,593 | 44,793 | 199,672 | 376 |
| Louisville..... | 1919 | 20 | 1,245 | 13 | 107 | 1,125 | 734,733 | 152,075 | 580,210 | 380,690 | 1,353,869 | 1,224 |
| | 1914 | 20 | 898 | 9 | 88 | 806 | 466,915 | 83,167 | 325,388 | 138,787 | 775,986 | 967 |
| Owensboro..... | 1919 | 3 | 61 | ..... | 7 | 54 | 62,706 | 7,653 | 25,242 | 17,308 | 62,743 | 118 |
| | 1914 | 3 | 56 | 1 | 3 | 52 | 59,889 | 2,800 | 15,685 | 5,937 | 35,857 | 108 |

¹ Not reported in 1914.

MANUFACTURES.

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|--------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| LOUISIANA..... | 1919 | 24 | 1,837 | 17 | 215 | 1,605 | \$1,449,125 | \$329,437 | \$788,575 | \$485,213 | \$2,349,774 | 1,778 |
| | 1914 | 28 | 1,369 | 24 | 102 | 1,243 | 1,102,216 | 114,323 | 437,252 | 231,637 | 1,190,148 | 1,197 |
| New Orleans..... | 1919 | 9 | 1,246 | 1 | 149 | 1,096 | 800,365 | 216,771 | 506,240 | 309,238 | 1,441,427 | 1,125 |
| | 1914 | 9 | 849 | 8 | 42 | 799 | 582,875 | 53,438 | 265,833 | 136,085 | 689,757 | 721 |
| MAINE..... | 1919 | 81 | 1,144 | 81 | 70 | 993 | 1,121,566 | 80,482 | 607,083 | 412,828 | 1,514,854 | 1,577 |
| | 1914 | 92 | 1,097 | 101 | 66 | 930 | 635,304 | 53,956 | 380,663 | 182,477 | 939,021 | 1,741 |
| Auburn..... | 1919 | 4 | 81 | 3 | 3 | 25 | 36,004 | 2,100 | 17,511 | 9,241 | 35,178 | 50 |
| | 1914 | 6 | 68 | 10 | 4 | 54 | 36,053 | 2,912 | 23,884 | 11,433 | 59,044 | 89 |
| Augusta..... | 1919 | 4 | 29 | 6 | 1 | 22 | 16,767 | 1,560 | 15,647 | 12,917 | 45,725 | 15 |
| | 1914 | 3 | 36 | 3 | 1 | 32 | 20,433 | 1,590 | 15,872 | 9,630 | 36,028 | 53 |
| Bangor..... | 1919 | 4 | 133 | 2 | 16 | 115 | 93,164 | 16,624 | 63,410 | 76,962 | 177,057 | 73 |
| | 1914 | 5 | 102 | 2 | 16 | 84 | 64,585 | 13,827 | 29,555 | 32,670 | 86,172 | 166 |
| Lewiston..... | 1919 | 4 | 39 | 4 | — | 35 | 49,930 | — | 30,476 | 26,598 | 80,116 | 105 |
| | 1914 | 4 | 41 | 5 | — | 36 | 13,600 | — | 18,567 | 6,565 | 33,611 | 98 |
| Portland..... | 1919 | 10 | 413 | 10 | 34 | 399 | 455,418 | 42,152 | 199,491 | 101,809 | 523,398 | 219 |
| | 1914 | 11 | 335 | 11 | 17 | 307 | 246,084 | 14,527 | 131,388 | 38,773 | 323,559 | 436 |
| MARYLAND..... | 1919 | 46 | 1,888 | 39 | 230 | 1,619 | 1,519,051 | 286,507 | 968,450 | 690,733 | 2,640,686 | 2,341 |
| | 1914 | 54 | 1,921 | 62 | 144 | 1,715 | 1,104,371 | 104,175 | 593,792 | 259,456 | 1,391,902 | 2,211 |
| Baltimore..... | 1919 | 30 | 1,540 | 22 | 204 | 1,314 | 1,158,852 | 258,309 | 806,581 | 565,363 | 2,220,206 | 1,751 |
| | 1914 | 25 | 1,420 | 25 | 120 | 1,275 | 827,250 | 84,023 | 437,699 | 178,179 | 1,019,230 | 1,561 |
| Cumberland..... | 1919 | 4 | 152 | 2 | 13 | 137 | 206,093 | 16,406 | 87,381 | 59,789 | 208,220 | 130 |
| | 1914 | 4 | 145 | 2 | 8 | 135 | 167,574 | 7,862 | 46,81 | 21,194 | 117,331 | 121 |
| MASSACHUSETTS..... | 1919 | 340 | 7,900 | 330 | 809 | 6,821 | 7,260,319 | 1,166,026 | 5,285,153 | 2,484,350 | 12,864,279 | 11,502 |
| | 1914 | 391 | 8,861 | 404 | 886 | 7,771 | 4,695,798 | 713,460 | 3,721,409 | 1,891,000 | 8,661,830 | 11,382 |
| Arlington ¹ | 1919 | 3 | 42 | 2 | 3 | 27 | 35,166 | 2,584 | 24,850 | 13,239 | 71,464 | 50 |
| | 1919 | 3 | 17 | 1 | 13 | 13 | 15,685 | 660 | 11,114 | 4,564 | 27,011 | — |
| Attleboro..... | 1919 | 4 | 48 | 5 | 3 | 40 | 23,361 | 1,544 | 18,904 | 5,041 | 36,904 | 93 |
| | 1914 | 3 | 59 | 1 | 14 | 44 | 50,858 | 19,482 | 30,563 | 8,059 | 95,304 | — |
| Beverly..... | 1919 | 4 | 80 | 3 | 11 | 66 | 27,943 | 10,660 | 30,175 | 10,033 | 10,840 | 60 |
| | 1914 | — | — | — | — | — | — | — | — | — | — | — |
| Boston..... | 1919 | 59 | 1,929 | 51 | 230 | 1,698 | 1,847,187 | 397,961 | 1,300,385 | 651,767 | 3,495,010 | 2,454 |
| | 1914 | 55 | 2,358 | 42 | 189 | 2,127 | 1,108,103 | 243,501 | 941,278 | 363,223 | 2,297,350 | 2,709 |
| Brockton..... | 1919 | 3 | 190 | 3 | 25 | 132 | 126,384 | 30,827 | 87,600 | 37,513 | 225,811 | 125 |
| | 1914 | 6 | 165 | 10 | 15 | 140 | 120,999 | 14,208 | 81,475 | 18,825 | 160,609 | 195 |
| Brookline ¹ | 1919 | 4 | 137 | 5 | 14 | 118 | 108,304 | 18,868 | 84,224 | 25,943 | 210,714 | 65 |
| | 1919 | 8 | 483 | 5 | 74 | 404 | 536,590 | 105,774 | 310,274 | 129,248 | 772,688 | 617 |
| Cambridge..... | 1919 | 9 | 542 | 6 | 88 | 448 | 36,717 | 90,811 | 224,900 | 66,962 | 563,183 | 585 |
| | 1914 | — | — | — | — | — | — | — | — | — | — | — |
| Chicopee..... | 1919 | 4 | 28 | 5 | — | 23 | 25,850 | — | 25,080 | 11,566 | 49,057 | 60 |
| | 1914 | 3 | 30 | 4 | — | 26 | 16,918 | — | 10,745 | 5,843 | 28,175 | 65 |
| Clinton..... | 1919 | 3 | 11 | 3 | — | 8 | 9,980 | — | 5,956 | 5,400 | 20,897 | 28 |
| | 1919 | 3 | 73 | 1 | 7 | 65 | 36,512 | 17,917 | 49,340 | 22,235 | 123,313 | 95 |
| Everett..... | 1919 | 3 | 87 | 2 | 9 | 76 | 31,782 | 12,122 | 27,603 | 15,009 | 82,352 | 72 |
| | 1914 | — | — | — | — | — | — | — | — | — | — | — |
| Fall River..... | 1919 | 13 | 271 | 15 | 16 | 240 | 353,018 | 18,144 | 207,857 | 120,446 | 492,060 | 551 |
| | 1914 | 13 | 278 | 16 | 12 | 250 | 263,308 | 10,251 | 137,099 | 63,111 | 302,077 | 531 |
| Fitchburg..... | 1919 | 4 | 79 | 7 | 4 | 68 | 51,600 | 2,730 | 51,404 | 27,734 | 108,225 | 85 |
| | 1914 | 5 | 93 | 7 | 3 | 83 | 37,198 | 1,024 | 30,520 | 12,851 | 68,252 | 111 |
| Haverhill..... | 1919 | 16 | 183 | 23 | 2 | 158 | 113,387 | 635 | 117,464 | 45,312 | 248,255 | 215 |
| | 1914 | 10 | 205 | 25 | 9 | 171 | 65,050 | 7,155 | 82,007 | 32,192 | 180,000 | 315 |
| Lawrence..... | 1919 | 9 | 135 | 11 | 3 | 121 | 104,402 | 3,520 | 105,914 | 49,342 | 208,598 | 97 |
| | 1914 | 11 | 144 | 13 | 8 | 123 | 64,900 | 6,620 | 58,504 | 23,535 | 132,377 | 203 |
| Lowell..... | 1919 | 9 | 208 | 13 | 5 | 190 | 203,089 | 5,452 | 149,309 | 75,142 | 314,322 | 140 |
| | 1914 | 9 | 233 | 10 | 6 | 217 | 66,955 | 4,768 | 94,742 | 33,810 | 199,347 | 328 |
| Lynn..... | 1919 | 13 | 375 | 13 | 42 | 320 | 320,231 | 31,222 | 228,039 | 108,039 | 531,101 | 321 |
| | 1914 | 10 | 399 | 16 | 35 | 348 | 257,228 | 26,782 | 151,526 | 44,967 | 353,038 | 443 |
| Malden..... | 1919 | 3 | 136 | 1 | 14 | 121 | 147,027 | 16,957 | 101,575 | 30,854 | 216,977 | 105 |
| | 1914 | 4 | 139 | 3 | 14 | 122 | 42,549 | 13,174 | 54,600 | 26,299 | 119,937 | 170 |
| Methuen..... | 1919 | 3 | 48 | 1 | 3 | 44 | 41,550 | 4,396 | 34,941 | 14,457 | 60,910 | 55 |
| | 1914 | 3 | 56 | 1 | 4 | 51 | 14,043 | 2,832 | 22,834 | 4,167 | 36,651 | 56 |
| New Bedford..... | 1919 | 14 | 310 | 14 | 20 | 276 | 314,053 | 50,814 | 229,030 | 114,629 | 542,893 | 378 |
| | 1914 | 13 | 257 | 14 | 14 | 229 | 142,976 | 11,819 | 126,809 | 47,846 | 294,490 | 559 |
| Newburyport..... | 1919 | 3 | 58 | 1 | 6 | 51 | 88,814 | 4,337 | 40,397 | 14,616 | 79,469 | 5 |
| | 1914 | 5 | 47 | 5 | 4 | 38 | 17,340 | 2,662 | 17,390 | 8,285 | 41,980 | 91 |
| North Adams..... | 1919 | 3 | 68 | 3 | 2 | 63 | 47,373 | 1,081 | 44,325 | 20,666 | 91,949 | 51 |
| | 1914 | 4 | 75 | 5 | 5 | 65 | 41,103 | 4,836 | 29,340 | 11,240 | 62,366 | 105 |
| Northampton..... | 1919 | 3 | 60 | 1 | 9 | 50 | 34,158 | 11,003 | 35,307 | 15,931 | 72,940 | — |
| | 1914 | 4 | 57 | 4 | — | 53 | 16,018 | — | 23,300 | 7,320 | 50,734 | 172 |
| Salem..... | 1919 | 4 | 155 | 4 | 26 | 125 | 178,830 | 40,044 | 98,228 | 35,426 | 262,305 | 125 |
| | 1914 | 5 | 166 | 4 | 10 | 162 | 62,298 | 13,345 | 82,714 | 22,535 | 176,825 | 148 |
| Somerville..... | 1919 | 8 | 184 | 6 | 22 | 156 | 114,972 | 25,453 | 145,804 | 53,733 | 301,745 | 185 |
| | 1914 | 5 | 76 | 5 | 4 | 66 | 19,916 | 7,252 | 40,894 | 19,908 | 96,781 | 122 |
| Southbridge ¹ | 1919 | 3 | 28 | 3 | — | 25 | 32,500 | — | 19,944 | 10,485 | 43,318 | 15 |
| | 1914 | — | — | — | — | — | — | — | — | — | — | — |
| Springfield..... | 1919 | 12 | 354 | 7 | 46 | 301 | 344,855 | 75,911 | 236,241 | 99,305 | 575,754 | 360 |
| | 1914 | 13 | 414 | 9 | 47 | 368 | 278,335 | 48,043 | 182,159 | 57,299 | 421,202 | 313 |
| Taunton..... | 1919 | 3 | 61 | 2 | 6 | 53 | 77,267 | 7,588 | 46,481 | 23,491 | 99,840 | 90 |
| | 1914 | 6 | 108 | 8 | 5 | 95 | 68,325 | 3,701 | 47,319 | 27,962 | 103,066 | 169 |
| Watertown..... | 1919 | 3 | 190 | 2 | 9 | 179 | 117,756 | 13,704 | 142,244 | 63,459 | 295,758 | 216 |
| | 1914 | 4 | 283 | 2 | 9 | 272 | 87,091 | 7,890 | 147,265 | 44,826 | 270,686 | 127 |
| Worcester..... | 1919 | 11 | 401 | 8 | 56 | 337 | 441,813 | 72,091 | 242,279 | 120,894 | 620,680 | 423 |
| | 1914 | 13 | 387 | 10 | 20 | 357 | 174,255 | 21,478 | 144,116 | 59,656 | 316,215 | 378 |

¹ Not reported in 1914.

POWER LAUNDRIES.

1041

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|----------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-----------|-------------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| MICHIGAN..... | 1919 | 197 | 5,746 | 218 | 615 | 4,913 | \$5,421,984 | \$935,955 | \$3,789,179 | \$2,192,476 | \$9,410,373 | 7,150 |
| | 1914 | 234 | 5,637 | 270 | 465 | 4,902 | 3,172,343 | 458,146 | 2,161,118 | 628,502 | 5,116,286 | 6,457 |
| Ann Arbor..... | 1919 | 3 | 91 | 7 | ..... | 84 | 109,925 | ..... | 46,598 | 40,289 | 127,780 | 75 |
| | 1914 | 5 | 84 | 9 | 5 | 70 | 65,273 | 2,056 | 26,651 | 23,922 | 70,380 | 137 |
| Battle Creek..... | 1919 | 4 | 113 | 4 | 11 | 98 | 117,504 | 11,813 | 62,177 | 47,634 | 130,463 | 47 |
| | 1914 | 4 | 137 | 5 | 5 | 127 | 69,637 | 7,020 | 49,337 | 21,477 | 101,949 | 78 |
| Benton Harbor ¹ | 1919 | 3 | 62 | 7 | ..... | 55 | 38,500 | ..... | 38,604 | 29,835 | 97,673 | 33 |
| Detroit..... | 1919 | 56 | 2,924 | 54 | 404 | 2,466 | 2,861,724 | 665,476 | 2,207,595 | 1,296,390 | 5,583,941 | 2,432 |
| | 1914 | 46 | 2,662 | 43 | 265 | 2,354 | 1,436,227 | 286,126 | 1,153,957 | 432,854 | 2,623,299 | 2,782 |
| Flint ¹ | 1919 | 5 | 220 | 5 | 30 | 185 | 163,435 | 40,255 | 163,383 | 85,787 | 322,605 | 100 |
| Grand Rapids..... | 1919 | 7 | 437 | 6 | 44 | 387 | 359,528 | 83,835 | 225,229 | 123,459 | 637,625 | 477 |
| | 1914 | 7 | 549 | 3 | 89 | 457 | 355,485 | 81,052 | 196,663 | 68,322 | 529,858 | 933 |
| Jackson..... | 1919 | 4 | 78 | 4 | 7 | 67 | 49,472 | 9,788 | 61,125 | 39,438 | 150,976 | 70 |
| | 1914 | 4 | 92 | 3 | 7 | 82 | 44,347 | 5,855 | 37,210 | 14,663 | 75,510 | 163 |
| Kalamazoo..... | 1919 | 3 | 193 | 2 | 17 | 174 | 277,098 | 18,269 | 114,218 | 64,410 | 272,267 | 135 |
| | 1914 | 4 | 203 | 7 | 3 | 193 | 183,904 | 4,180 | 86,410 | 55,853 | 175,855 | 178 |
| Lansing..... | 1919 | 4 | 147 | 5 | 9 | 133 | 144,869 | 16,970 | 104,937 | 45,748 | 237,500 | 25 |
| | 1914 | 11 | 141 | 14 | 7 | 120 | 57,077 | 4,274 | 53,459 | 28,417 | 119,244 | 180 |
| Muskegon..... | 1919 | 4 | 91 | 3 | 8 | 80 | 89,125 | 9,748 | 51,684 | 30,450 | 121,165 | 25 |
| | 1914 | 3 | 69 | 2 | 9 | 58 | 20,931 | 7,816 | 17,623 | 15,690 | 46,019 | 65 |
| Port Huron..... | 1919 | 3 | 134 | 2 | 9 | 123 | 120,575 | 13,128 | 62,544 | 43,084 | 153,261 | 115 |
| | 1914 | 3 | 112 | 2 | 8 | 102 | 73,109 | 4,280 | 36,398 | 17,934 | 87,232 | 120 |
| Saginaw..... | 1919 | 3 | 166 | 3 | 19 | 144 | 102,078 | 21,103 | 98,024 | 49,632 | 215,033 | 227 |
| | 1914 | 5 | 164 | 7 | 14 | 143 | 100,008 | 10,028 | 62,650 | 26,523 | 135,695 | 156 |
| Sault Ste. Marie..... | 1919 | 3 | 88 | 1 | 20 | 67 | 125,349 | 21,706 | 26,495 | 24,384 | 93,958 | 65 |
| MINNESOTA..... | 1919 | 156 | 3,818 | 156 | 385 | 3,277 | 3,967,632 | 534,725 | 2,915,506 | 1,437,708 | 6,087,088 | 4,766 |
| | 1914 | 188 | 4,024 | 203 | 327 | 3,494 | 2,708,038 | 332,555 | 1,640,388 | 865,443 | 4,100,464 | 4,284 |
| Duluth..... | 1919 | 8 | 326 | 5 | 65 | 256 | 368,126 | 93,057 | 158,946 | 106,020 | 600,059 | ..... |
| | 1914 | 15 | 423 | 12 | 57 | 354 | 425,348 | 57,894 | 178,209 | 110,819 | 480,882 | 871 |
| Minneapolis..... | 1919 | 50 | 1,688 | 50 | 184 | 1,474 | 1,828,639 | 205,071 | 1,295,065 | 652,771 | 2,856,009 | 1,997 |
| | 1914 | 50 | 1,614 | 54 | 129 | 1,431 | 966,380 | 142,893 | 727,840 | 347,243 | 1,743,943 | 1,697 |
| St. Paul..... | 1919 | 27 | 972 | 24 | 105 | 843 | 879,753 | 143,250 | 585,586 | 314,079 | 1,414,705 | 1,089 |
| | 1914 | 23 | 1,079 | 19 | 96 | 964 | 677,216 | 96,516 | 437,282 | 235,119 | 1,036,697 | 927 |
| MISSISSIPPI..... | 1919 | 23 | 712 | 20 | 58 | 634 | 527,254 | 77,848 | 319,905 | 285,102 | 946,670 | 1,916 |
| | 1914 | 27 | 683 | 32 | 49 | 607 | 347,909 | 55,270 | 214,578 | 122,244 | 540,209 | 680 |
| Jackson..... | 1919 | 3 | 119 | 1 | 17 | 101 | 89,101 | 24,195 | 41,952 | 33,323 | 106,264 | 100 |
| | 1914 | 3 | 84 | 4 | 8 | 72 | 41,500 | 13,166 | 27,765 | 7,985 | 69,957 | 85 |
| MISSOURI..... | 1919 | 165 | 6,839 | 112 | 730 | 5,997 | 7,321,472 | 934,688 | 3,009,453 | 2,544,213 | 9,438,493 | 3,243 |
| | 1914 | 177 | 6,757 | 144 | 714 | 5,899 | 4,332,735 | 725,765 | 2,609,155 | 1,349,790 | 6,810,206 | 7,941 |
| Hannibal ¹ | 1919 | 3 | 68 | 3 | 12 | 53 | 73,612 | 12,638 | 23,917 | 41,940 | 85,010 | 40 |
| Joplin..... | 1919 | 5 | 158 | 8 | 13 | 137 | 128,566 | 14,956 | 69,621 | 38,426 | 160,186 | 95 |
| | 1914 | 6 | 140 | 3 | 16 | 121 | 106,185 | 18,213 | 45,893 | 19,449 | 111,855 | 178 |
| Kansas City..... | 1919 | 32 | 2,347 | 15 | 256 | 2,078 | 2,816,305 | 269,112 | 1,499,853 | 816,704 | 3,534,116 | 2,715 |
| | 1914 | 35 | 2,160 | 19 | 352 | 1,789 | 1,378,004 | 361,210 | 855,626 | 476,574 | 2,217,291 | 2,886 |
| St. Joseph..... | 1919 | 5 | 286 | 2 | 37 | 247 | 257,584 | 69,019 | 161,165 | 113,924 | 442,547 | 235 |
| | 1914 | 6 | 324 | 4 | 38 | 282 | 157,185 | 31,902 | 106,067 | 20,392 | 281,854 | 280 |
| St. Louis..... | 1919 | 51 | 2,799 | 20 | 322 | 2,457 | 2,882,764 | 431,167 | 1,597,258 | 1,095,458 | 3,791,806 | 3,214 |
| | 1914 | 42 | 2,800 | 19 | 210 | 2,571 | 1,755,148 | 206,207 | 1,192,880 | 608,706 | 2,589,167 | 2,764 |
| Springfield..... | 1919 | 3 | 187 | ..... | 19 | 148 | 169,950 | 31,111 | 75,291 | 42,599 | 190,230 | 177 |
| | 1914 | 5 | 210 | 4 | 17 | 189 | 137,345 | 18,370 | 64,901 | 30,724 | 175,499 | 118 |
| MONTANA..... | 1919 | 49 | 1,092 | 34 | 87 | 971 | 1,373,349 | 163,891 | 839,771 | 473,189 | 1,894,356 | 1,463 |
| | 1914 | 42 | 920 | 37 | 64 | 819 | 954,412 | 88,745 | 599,489 | 226,350 | 1,266,552 | 999 |
| Butte..... | 1919 | 4 | 240 | ..... | 25 | 215 | 408,934 | 49,498 | 208,521 | 78,190 | 441,756 | 422 |
| | 1914 | 4 | 242 | ..... | 16 | 226 | 365,518 | 25,805 | 172,979 | 53,205 | 327,148 | 271 |
| Great Falls..... | 1919 | 3 | 180 | 3 | 13 | 164 | 181,870 | 27,382 | 131,847 | 81,454 | 297,305 | 138 |
| | 1914 | 3 | 127 | 2 | 10 | 115 | 64,766 | 13,660 | 83,494 | 36,725 | 195,617 | 89 |
| NEBRASKA..... | 1919 | 69 | 1,710 | 73 | 166 | 1,471 | 1,906,483 | 324,634 | 979,217 | 646,759 | 2,823,234 | 1,942 |
| | 1914 | 74 | 1,490 | 85 | 102 | 1,303 | 995,413 | 133,644 | 613,189 | 372,039 | 1,517,924 | 1,779 |
| Hastings ¹ | 1919 | 3 | 45 | 3 | 3 | 39 | 30,554 | 10,858 | 24,013 | 23,184 | 74,028 | 55 |
| Lincoln..... | 1919 | 6 | 304 | 6 | 41 | 257 | 223,672 | 82,980 | 117,950 | 106,754 | 488,997 | 262 |
| | 1914 | 6 | 239 | 5 | 20 | 214 | 122,880 | 26,978 | 100,242 | 67,452 | 253,071 | 167 |
| Omaha..... | 1919 | 20 | 790 | 15 | 75 | 700 | 1,029,032 | 172,617 | 533,890 | 293,571 | 1,421,239 | 1,030 |
| | 1914 | 19 | 670 | 15 | 52 | 603 | 436,995 | 77,445 | 310,015 | 178,668 | 725,221 | 804 |
| NEVADA..... | 1919 | 13 | 109 | 12 | 9 | 148 | 218,366 | 15,880 | 142,288 | 85,588 | 340,036 | 223 |
| | 1914 | 12 | 150 | 13 | 13 | 124 | 191,392 | 17,410 | 88,054 | 40,374 | 216,193 | 247 |
| Reno ¹ | 1919 | 4 | 79 | 4 | 5 | 70 | 130,547 | 9,436 | 66,495 | 37,348 | 169,005 | 99 |

¹ Not reported in 1914.

MANUFACTURES.

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|--------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|------------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| NEW HAMPSHIRE..... | 1919 | 61 | 708 | 71 | 21 | 616 | \$380,224 | \$21,703 | \$496,877 | \$254,386 | \$908,856 | 1,802 |
| | 1914 | 74 | 864 | 86 | 18 | 760 | 440,499 | 13,291 | 324,754 | 132,476 | 728,733 | 1,209 |
| Concord..... | 1919 | 3 | 101 | 3 | 6 | 92 | 18,700 | 9,060 | 52,183 | 28,926 | 115,420 | 110 |
| | 1914 | 5 | 118 | 6 | 4 | 108 | 44,410 | 4,966 | 43,800 | 12,859 | 100,967 | 185 |
| Dover..... | 1919 | 3 | 33 | 5 | ..... | 28 | 7,125 | ..... | 16,408 | 7,751 | 36,122 | 98 |
| | 1914 | 4 | 30 | 6 | ..... | 24 | 11,905 | ..... | 8,218 | 4,568 | 18,292 | 46 |
| Koene..... | 1919 | 3 | 42 | 4 | 2 | 36 | 20,904 | 845 | 24,214 | 14,263 | 54,971 | 57 |
| | 1914 | 3 | 54 | 4 | 2 | 48 | 18,087 | 915 | 18,547 | 4,035 | 35,414 | 55 |
| Manchester..... | 1919 | 9 | 130 | 8 | 5 | 117 | 86,121 | 3,892 | 109,584 | 48,501 | 222,681 | 217 |
| | 1914 | 13 | 176 | 13 | 4 | 159 | 83,287 | 2,748 | 83,820 | 31,206 | 170,053 | 251 |
| Nashua..... | 1919 | 6 | 70 | 8 | ..... | 62 | 40,050 | ..... | 48,190 | 23,314 | 104,747 | 158 |
| | 1914 | 9 | 86 | 15 | 2 | 69 | 27,185 | 1,024 | 29,295 | 16,326 | 77,178 | 161 |
| Portsmouth..... | 1919 | 6 | 76 | 8 | 2 | 66 | 37,555 | 1,176 | 43,815 | 23,442 | 102,734 | 162 |
| | 1914 | 5 | 58 | 6 | ..... | 52 | 29,700 | ..... | 19,739 | 7,708 | 44,123 | 82 |
| NEW JERSEY..... | 1919 | 131 | 4,061 | 110 | 370 | 3,581 | 4,632,446 | 669,273 | 2,863,462 | 1,392,522 | 7,091,621 | 6,257 |
| | 1914 | 142 | 4,024 | 124 | 258 | 3,642 | 2,876,920 | 289,618 | 1,648,758 | 655,556 | 3,590,739 | 5,103 |
| Asbury Park..... | 1919 | 5 | 84 | 5 | 2 | 77 | 113,452 | 2,836 | 46,794 | 20,190 | 125,047 | 122 |
| | 1914 | 3 | 47 | 5 | ..... | 42 | 16,575 | ..... | 15,041 | 4,475 | 28,202 | 59 |
| Atlantic City..... | 1919 | 5 | 111 | 3 | 3 | 105 | 111,196 | 2,000 | 81,251 | 45,992 | 198,686 | 73 |
| | 1914 | 5 | 83 | 3 | 10 | 70 | 82,803 | 7,022 | 27,832 | 8,535 | 68,768 | 154 |
| Camden..... | 1919 | 6 | 101 | 5 | 4 | 92 | 106,561 | 8,122 | 73,473 | 27,040 | 167,923 | 139 |
| | 1914 | 6 | 132 | 4 | 11 | 117 | 73,135 | 11,412 | 45,515 | 17,803 | 114,923 | 156 |
| Hoboken..... | 1919 | 5 | 82 | 4 | 13 | 65 | 85,876 | 20,287 | 57,842 | 43,012 | 193,983 | 131 |
| | 1914 | 3 | 122 | 1 | 7 | 114 | 106,286 | 10,191 | 60,589 | 33,235 | 151,834 | 185 |
| Jersey City..... | 1919 | 15 | 936 | 8 | 89 | 839 | 1,200,143 | 204,420 | 701,875 | 382,849 | 1,838,970 | 2,020 |
| | 1914 | 16 | 804 | 15 | 47 | 742 | 700,580 | 89,821 | 347,612 | 142,607 | 788,328 | 1,168 |
| Newark..... | 1919 | 16 | 677 | 9 | 100 | 568 | 765,054 | 130,949 | 398,514 | 152,083 | 1,013,920 | 962 |
| | 1914 | 18 | 640 | 10 | 48 | 588 | 466,705 | 49,631 | 277,612 | 107,069 | 632,286 | 815 |
| Orange..... | 1919 | 3 | 108 | 1 | 8 | 99 | 104,042 | 16,278 | 84,154 | 37,518 | 231,273 | 176 |
| | 1914 | 3 | 126 | 1 | 8 | 117 | 54,490 | 5,048 | 64,093 | 19,113 | 110,265 | 122 |
| Passaic..... | 1919 | 6 | 154 | 7 | 12 | 135 | 132,106 | 20,406 | 113,510 | 40,086 | 236,751 | 191 |
| | 1914 | 4 | 227 | 4 | 8 | 215 | 115,510 | 5,795 | 83,773 | 15,016 | 117,638 | 102 |
| Paterson..... | 1919 | 6 | 221 | 2 | 24 | 195 | 327,552 | 61,240 | 172,781 | 69,900 | 421,289 | 322 |
| | 1914 | 12 | 228 | 7 | 21 | 200 | 133,598 | 24,016 | 92,079 | 58,813 | 210,279 | 400 |
| Plainfield..... | 1919 | 4 | 54 | 2 | 3 | 49 | 117,277 | 3,344 | 42,343 | 14,156 | 75,040 | 114 |
| | 1914 | 3 | 66 | 2 | 6 | 58 | 41,640 | 4,162 | 23,920 | 8,800 | 44,810 | 95 |
| Trenton..... | 1919 | 4 | 215 | 5 | 18 | 192 | 259,838 | 21,907 | 129,450 | 70,512 | 303,032 | 190 |
| | 1914 | 5 | 232 | 4 | 19 | 209 | 210,249 | 21,169 | 81,436 | 42,469 | 185,169 | 242 |
| NEW MEXICO..... | 1919 | 16 | 326 | 15 | 19 | 292 | 332,123 | 26,110 | 171,506 | 105,609 | 432,279 | 345 |
| | 1914 | 15 | 274 | 14 | 20 | 240 | 205,065 | 29,444 | 104,732 | 49,719 | 280,373 | 396 |
| Albuquerque ¹ | 1919 | 3 | 129 | 1 | 12 | 116 | 162,571 | 18,049 | 64,727 | 32,385 | 169,866 | 142 |
| NEW YORK..... | 1919 | 535 | 13,757 | 495 | 1,264 | 21,112 | 15,758,753 | 2,271,163 | 9,600,451 | 5,622,388 | 24,627,441 | 11,998 |
| | 1914 | 614 | 15,489 | 638 | 1,100 | 13,751 | 10,354,297 | 1,135,567 | 6,062,092 | 2,821,811 | 14,304,964 | 19,288 |
| Albany..... | 1919 | 9 | 279 | 3 | 41 | 235 | 386,206 | 51,574 | 143,177 | 100,003 | 425,850 | 357 |
| | 1914 | 15 | 353 | 9 | 36 | 308 | 269,605 | 45,291 | 136,387 | 61,950 | 354,047 | 428 |
| Amsterdam..... | 1919 | 5 | 58 | 12 | ..... | 46 | 64,975 | ..... | 31,281 | 33,426 | 94,064 | 77 |
| | 1914 | 6 | 60 | 9 | 1 | 50 | 34,508 | 260 | 25,015 | 8,533 | 70,640 | 139 |
| Auburn..... | 1919 | 7 | 100 | 11 | ..... | 89 | 90,953 | ..... | 55,290 | 42,045 | 137,827 | 13 |
| | 1914 | 8 | 118 | 12 | 3 | 103 | 62,450 | 2,040 | 36,767 | 22,080 | 98,243 | 161 |
| Binghamton..... | 1919 | 4 | 155 | 5 | 7 | 143 | 79,229 | 81,242 | 83,927 | 45,546 | 187,830 | 101 |
| | 1914 | 7 | 161 | 8 | 8 | 145 | 96,095 | 10,178 | 60,027 | 18,780 | 129,911 | 125 |
| Buffalo..... | 1919 | 26 | 1,899 | 18 | 191 | 1,190 | 1,684,748 | 222,701 | 808,410 | 392,995 | 1,993,151 | 1,874 |
| | 1914 | 29 | 1,605 | 25 | 167 | 1,413 | 1,292,704 | 170,529 | 660,994 | 265,314 | 1,532,612 | 1,606 |
| Elmira..... | 1919 | 4 | 156 | 3 | 18 | 135 | 142,598 | 20,978 | 71,441 | 44,381 | 166,282 | 99 |
| | 1914 | 4 | 137 | 6 | 7 | 124 | 115,117 | 4,425 | 45,009 | 26,862 | 105,001 | 108 |
| Gloversville..... | 1919 | 4 | 888 | 6 | 1 | 81 | 51,081 | 624 | 65,381 | 26,942 | 135,384 | 130 |
| | 1914 | 8 | 74 | 10 | 1 | 63 | 33,479 | 468 | 33,039 | 18,394 | 72,350 | 247 |
| Hudson ¹ | 1919 | 3 | 31 | 4 | ..... | 27 | 22,250 | ..... | 19,246 | 14,934 | 47,402 | 33 |
| | 1914 | 4 | 122 | 3 | 1 | 118 | 111,145 | 3,009 | 77,276 | 29,980 | 143,204 | 72 |
| Ithaca..... | 1919 | 5 | 131 | 4 | 4 | 123 | 103,640 | 2,995 | 50,999 | 16,281 | 110,092 | 95 |
| Jamestown..... | 1919 | 4 | 87 | 6 | 5 | 76 | 142,600 | 5,634 | 48,485 | 24,405 | 723,889 | 114 |
| | 1914 | 7 | 112 | 13 | 7 | 92 | 88,646 | 8,433 | 46,212 | 18,347 | 104,783 | 156 |
| Johnstown..... | 1919 | 3 | 14 | 4 | ..... | 10 | 5,776 | ..... | 9,562 | 6,610 | 22,882 | 32 |
| | 1914 | 4 | 20 | 7 | ..... | 13 | 12,169 | ..... | 5,657 | 5,369 | 21,327 | 75 |
| Kingston..... | 1919 | 3 | 35 | 3 | 8 | 24 | 18,150 | 6,782 | 17,348 | 6,275 | 31,704 | 41 |
| | 1914 | 5 | 43 | 5 | 2 | 36 | 33,735 | 720 | 14,252 | 5,557 | 29,650 | 119 |
| Little Falls..... | 1919 | 3 | 26 | 4 | ..... | 22 | 44,139 | ..... | 19,128 | 12,517 | 45,092 | 24 |
| | 1914 | 3 | 43 | 5 | ..... | 18 | 20,550 | ..... | 9,300 | 4,190 | 26,261 | 5 |
| Lockport..... | 1919 | 3 | 51 | 2 | 8 | 41 | 69,759 | 7,567 | 25,879 | 13,895 | 60,685 | 74 |
| | 1914 | 8 | 41 | 2 | 6 | 34 | 44,965 | 4,040 | 11,180 | 4,968 | 30,275 | 69 |
| Middletown..... | 1919 | 4 | 41 | 4 | 4 | 33 | 18,690 | 3,912 | 18,880 | 18,459 | 54,389 | 83 |
| | 1914 | 5 | 39 | 5 | 3 | 31 | 28,262 | 1,424 | 18,353 | 9,157 | 55,264 | 83 |
| Newburgh ¹ | 1919 | 6 | 61 | 10 | 1 | 50 | 46,647 | 750 | 43,910 | 29,261 | 90,229 | 60 |

¹ Not reported in 1914.

POWER LAUNDRIES.

1043

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|----------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-------------|-------------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| NEW YORK—Continued. | | | | | | | | | | | | |
| New York..... | 1919 | 170 | 7,016 | 108 | 675 | 6,233 | \$7,330,032 | \$1,462,508 | \$5,832,782 | \$3,419,473 | \$14,010,971 | 11,336 |
| Manhattan borough..... | 1914 | 149 | 7,180 | 118 | 503 | 6,559 | 4,354,648 | 597,732 | 2,936,220 | 1,427,051 | 6,897,049 | 8,730 |
| Bronx borough..... | 1919 | 80 | 4,101 | 43 | 317 | 3,741 | 4,655,878 | 840,855 | 3,551,388 | 1,928,934 | 8,922,799 | 6,182 |
| Brooklyn borough..... | 1914 | 68 | 4,395 | 46 | 330 | 4,019 | 2,454,496 | 378,938 | 1,706,770 | 877,735 | 4,324,720 | 5,381 |
| Queens borough..... | 1919 | 16 | 427 | 9 | 49 | 369 | 422,846 | 82,519 | 396,258 | 195,841 | 909,528 | 992 |
| | 1914 | 12 | 207 | 10 | 16 | 181 | 160,550 | 12,628 | 100,173 | 35,205 | 255,119 | 318 |
| | 1919 | 63 | 2,230 | 48 | 279 | 1,903 | 2,053,199 | 487,685 | 1,716,085 | 1,154,116 | 4,336,774 | 3,865 |
| | 1914 | 62 | 2,376 | 58 | 147 | 2,171 | 1,651,551 | 181,803 | 995,050 | 476,458 | 2,128,635 | 2,746 |
| | 1919 | 11 | 258 | 8 | 30 | 220 | 198,109 | 51,447 | 168,451 | 140,532 | 438,570 | 297 |
| | 1914 | 7 | 202 | 4 | 10 | 188 | 88,051 | 24,363 | 74,227 | 38,253 | 189,176 | 285 |
| Niagara Falls ¹ | 1919 | 3 | ..... | ..... | 32 | ..... | 192,910 | 43,821 | 81,720 | 34,027 | 218,110 | 130 |
| Olean..... | 1919 | 3 | 56 | 4 | 6 | 46 | 66,539 | 8,516 | 31,526 | 14,583 | 71,368 | 50 |
| Oswego..... | 1914 | 3 | 51 | 6 | 9 | 36 | 44,676 | 7,656 | 13,758 | 8,885 | 42,972 | 43 |
| | 1919 | 4 | 47 | 6 | 2 | 39 | 40,766 | 757 | 23,543 | 15,927 | 75,702 | 40 |
| | 1914 | 6 | 49 | 7 | 1 | 41 | 28,147 | 1,560 | 17,160 | 6,457 | 48,032 | 47 |
| Plattsburg ¹ | 1919 | 3 | 36 | 3 | 2 | 31 | 28,641 | 2,912 | 16,335 | 11,597 | 62,263 | 50 |
| Poughkeepsie..... | 1919 | 5 | 64 | 5 | 4 | 55 | 49,555 | 4,192 | 41,736 | 31,358 | 103,656 | 135 |
| | 1914 | 10 | 140 | 11 | 4 | 125 | 64,862 | 3,432 | 71,972 | 18,907 | 142,635 | 105 |
| Rensselaer..... | 1919 | 3 | 22 | 3 | 1 | 18 | 32,215 | 1,000 | 11,362 | 6,905 | 30,130 | 55 |
| | 1914 | 4 | 26 | 4 | ..... | 22 | 24,005 | ..... | 9,320 | 5,379 | 27,485 | 60 |
| Rochester..... | 1919 | 15 | 758 | 8 | 102 | 648 | 1,107,290 | 141,505 | 411,207 | 257,492 | 1,111,070 | 1,020 |
| | 1914 | 18 | 1,460 | 9 | 120 | 1,331 | 841,957 | 101,157 | 587,716 | 304,054 | 1,310,458 | 1,595 |
| Rome..... | 1919 | 3 | 43 | 6 | 1 | 36 | 31,893 | 2,080 | 25,271 | 16,134 | 64,498 | 52 |
| | 1914 | 6 | 48 | 8 | 2 | 38 | 33,937 | 2,080 | 14,254 | 7,624 | 39,805 | 76 |
| Schenectady..... | 1919 | 8 | 107 | 9 | 5 | 93 | 133,602 | 1,502 | 55,872 | 44,694 | 132,040 | 249 |
| | 1914 | 7 | 95 | 7 | ..... | 88 | 175,229 | ..... | 41,593 | 21,571 | 83,164 | 226 |
| Syracuse..... | 1919 | 21 | 593 | 22 | 475 | 66 | 856,720 | 42,038 | 295,403 | 147,628 | 705,745 | 1,111 |
| | 1914 | 27 | 544 | 29 | 40 | 476 | 480,467 | 29,658 | 217,778 | 93,404 | 477,429 | 639 |
| Troy..... | 1919 | 8 | 254 | 10 | 16 | 228 | 128,050 | 27,191 | 163,762 | 99,387 | 348,126 | 300 |
| | 1914 | 16 | 322 | 19 | 20 | 283 | 178,296 | 14,548 | 125,367 | 53,602 | 277,527 | 453 |
| Utica..... | 1919 | 17 | 222 | 19 | 39 | 164 | 782,418 | 20,500 | 114,802 | 60,401 | 283,998 | 892 |
| | 1914 | 15 | 217 | 20 | 16 | 181 | 173,518 | 11,873 | 84,790 | 20,948 | 216,517 | 253 |
| Yonkers ¹ | 1919 | 3 | 93 | 2 | 11 | 80 | 67,398 | 20,840 | 68,003 | 42,344 | 185,765 | 145 |
| NORTH CAROLINA..... | | | | | | | | | | | | |
| | 1919 | 56 | 1,631 | 53 | 145 | 1,433 | 1,161,269 | 206,632 | 755,186 | 462,040 | 2,252,100 | 1,354 |
| | 1914 | 59 | 1,335 | 56 | 114 | 1,165 | 798,650 | 100,692 | 361,497 | 240,947 | 1,026,368 | 1,359 |
| Asheville..... | 1919 | 3 | 222 | 7 | 25 | 190 | 170,931 | 39,129 | 74,351 | 35,459 | 266,721 | 105 |
| | 1914 | 4 | 186 | 4 | 10 | 172 | 93,800 | 10,360 | 57,702 | 27,462 | 136,810 | 90 |
| Charlotte..... | 1919 | 3 | 4 | 271 | 34 | 239 | 304,186 | 54,485 | 112,064 | 108,897 | 327,276 | 222 |
| | 1914 | 6 | 226 | 5 | 40 | 181 | 211,203 | 34,780 | 55,684 | 77,051 | 219,555 | 259 |
| Greensboro ¹ | 1919 | 3 | 146 | 2 | 25 | 119 | 73,193 | 28,732 | 69,750 | 49,645 | 198,703 | 155 |
| New Bern ¹ | 1919 | 5 | 44 | 6 | 5 | 33 | 24,050 | 7,200 | 21,590 | 6,020 | 118,635 | 27 |
| Raleigh..... | 1919 | 3 | 132 | 3 | 11 | 118 | 51,277 | 12,609 | 55,677 | 37,612 | 168,206 | 77 |
| | 1914 | 3 | 115 | ..... | 9 | 106 | 48,716 | 9,470 | 39,944 | 22,987 | 94,497 | 77 |
| Rocky Mount ¹ | 1919 | 3 | 70 | 3 | 2 | 65 | 40,979 | 5,880 | 42,020 | 19,465 | 98,641 | 20 |
| NORTH DAKOTA..... | | | | | | | | | | | | |
| | 1919 | 29 | 488 | 27 | 35 | 426 | 615,070 | 57,592 | 277,297 | 255,235 | 844,433 | 506 |
| | 1914 | 30 | 478 | 31 | 38 | 409 | 552,458 | 34,852 | 207,953 | 142,804 | 592,843 | 725 |
| Fargo..... | 1919 | 4 | 112 | 1 | 13 | 98 | 154,943 | 20,276 | 69,556 | 51,043 | 223,707 | 113 |
| | 1914 | 5 | 122 | 2 | 16 | 104 | 162,983 | 15,512 | 54,636 | 43,636 | 153,102 | 166 |
| Grand Forks..... | 1919 | 4 | 115 | 4 | 12 | 99 | 153,923 | 15,156 | 64,557 | 55,169 | 182,983 | 94 |
| | 1914 | 3 | 126 | 3 | 10 | 113 | 119,482 | 8,880 | 46,530 | 26,288 | 120,155 | 83 |
| OHIO..... | | | | | | | | | | | | |
| | 1919 | 277 | 8,316 | 273 | 1,003 | 7,040 | 8,209,509 | 1,418,357 | 4,703,668 | 2,874,537 | 12,528,344 | 12,107 |
| | 1914 | 296 | 8,434 | 309 | 860 | 7,265 | 5,066,162 | 839,455 | 3,157,194 | 1,361,646 | 7,822,491 | 10,909 |
| Akron..... | 1919 | 17 | 382 | 24 | 47 | 311 | 641,675 | 52,868 | 264,783 | 176,687 | 764,744 | 599 |
| | 1914 | 10 | 232 | 12 | 15 | 205 | 168,433 | 12,816 | 97,280 | 41,777 | 224,672 | 264 |
| Alliance ¹ | 1919 | 3 | 40 | 2 | 5 | 39 | 60,580 | 7,260 | 25,701 | 16,576 | 63,600 | 55 |
| Ashtabula..... | 1919 | 3 | 54 | 2 | 3 | 49 | 69,943 | 5,200 | 34,513 | 20,111 | 82,821 | 52 |
| | 1914 | 3 | 57 | 1 | 3 | 53 | 67,959 | 2,739 | 22,912 | 13,317 | 43,936 | 92 |
| Canton..... | 1919 | 5 | 317 | 4 | 30 | 283 | 212,608 | 42,681 | 118,270 | 75,664 | 377,212 | 364 |
| | 1914 | 5 | 183 | 7 | 29 | 147 | 155,728 | 24,873 | 63,593 | 22,718 | 194,878 | 206 |
| Cincinnati..... | 1919 | 17 | 1,320 | 11 | 202 | 1,107 | 1,363,095 | 271,644 | 621,588 | 310,683 | 1,790,873 | 2,054 |
| | 1914 | 25 | 1,712 | 19 | 199 | 1,494 | 794,293 | 194,568 | 639,736 | 261,111 | 1,553,889 | 2,011 |
| Cleveland..... | 1919 | 43 | 1,887 | 35 | 293 | 1,559 | 1,624,832 | 453,520 | 1,213,918 | 919,918 | 3,386,129 | 2,284 |
| | 1914 | 27 | 1,818 | 15 | 275 | 1,528 | 948,720 | 292,041 | 703,067 | 366,600 | 1,810,406 | 1,962 |
| Columbus..... | 1919 | 13 | 637 | 12 | 69 | 556 | 693,791 | 84,057 | 347,675 | 200,562 | 897,779 | 864 |
| | 1914 | 17 | 695 | 15 | 67 | 613 | 465,396 | 63,076 | 256,748 | 81,441 | 631,896 | 948 |
| Dayton..... | 1919 | 10 | 613 | 8 | 79 | 526 | 583,581 | 109,579 | 309,558 | 161,183 | 895,277 | 826 |
| | 1914 | 7 | 482 | 4 | 47 | 431 | 435,723 | 49,685 | 181,613 | 54,651 | 430,663 | 604 |
| East Liverpool..... | 1919 | 3 | 118 | 8 | 105 | 105 | 48,000 | 6,534 | 43,336 | 15,200 | 105,976 | 47 |
| | 1914 | 3 | 87 | 10 | 77 | 77 | 53,960 | ..... | 33,476 | 8,411 | 67,012 | 46 |
| Elyria ¹ | 1919 | 3 | 62 | 4 | 5 | 53 | 32,096 | 7,604 | 36,319 | 14,127 | 82,677 | 71 |
| Hamilton..... | 1919 | 4 | 91 | 5 | 7 | 79 | 58,134 | 6,378 | 48,288 | 45,268 | 124,146 | 108 |
| | 1914 | 4 | 57 | 4 | 7 | 46 | 29,318 | 4,970 | 18,081 | 7,214 | 43,392 | 59 |
| Lima..... | 1919 | 3 | 114 | 4 | 8 | 102 | 120,446 | 2,845 | 68,395 | 44,304 | 156,915 | 135 |
| | 1914 | 3 | 114 | 4 | 11 | 99 | 70,715 | 6,796 | 41,811 | 15,559 | 98,124 | 180 |
| Lorain ¹ | 1919 | 3 | 93 | 4 | 10 | 79 | 105,148 | 17,044 | 75,410 | 36,216 | 165,520 | 84 |
| Mansfield..... | 1919 | 4 | 52 | 5 | ..... | 47 | 19,810 | ..... | 26,555 | 13,730 | 61,244 | 61 |
| | 1914 | 3 | 55 | 5 | 1 | 49 | 48,111 | 425 | 18,986 | 7,408 | 43,425 | 87 |
| Springfield..... | 1919 | 4 | 111 | 3 | 7 | 101 | 117,882 | 13,440 | 67,160 | 28,890 | 127,361 | 297 |
| | 1914 | 5 | 108 | 4 | 9 | 95 | 72,600 | 11,876 | 36,749 | 14,672 | 80,456 | 97 |

¹ Not reported in 1914.

MANUFACTURES.

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|--------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|------------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| OHIO—Continued. | | | | | | | | | | | | |
| Tiffin..... | 1919 | 3 | 41 | 5 | 6 | 30 | \$18,375 | \$4,093 | \$16,930 | \$15,262 | \$50,550 | 50 |
| Tiffin..... | 1914 | 3 | 32 | 5 | 1 | 26 | 15,539 | 780 | 10,352 | 3,538 | 27,980 | 34 |
| Toledo..... | 1919 | 13 | 457 | 9 | 83 | 365 | 401,006 | 140,272 | 256,730 | 141,164 | 777,640 | 1,547 |
| Toledo..... | 1914 | 16 | 499 | 7 | 66 | 420 | 292,681 | 68,529 | 203,344 | 74,233 | 565,203 | 830 |
| Warren..... | 1919 | 4 | 78 | 4 | 7 | 67 | 21,400 | 10,104 | 45,715 | 25,476 | 101,867 | 70 |
| Warren..... | 1914 | 4 | 63 | 5 | 1 | 57 | 42,125 | 1,273 | 30,681 | 7,100 | 70,983 | 81 |
| Youngstown..... | 1919 | 4 | 296 | ..... | 40 | 256 | 671,115 | 45,610 | 224,147 | 105,553 | 472,749 | 261 |
| Youngstown..... | 1914 | 5 | 274 | 6 | 19 | 249 | 187,025 | 16,562 | 132,205 | 65,114 | 286,136 | 278 |
| OKLAHOMA..... | | | | | | | | | | | | |
| Muskogee..... | 1919 | 99 | 2,355 | 117 | 244 | 1,904 | 2,157,041 | 376,873 | 1,330,751 | 875,092 | 3,561,059 | 2,191 |
| Muskogee..... | 1914 | 101 | 1,632 | 115 | 101 | 1,416 | 986,074 | 100,677 | 653,320 | 359,743 | 1,669,721 | 1,766 |
| Muskogee..... | 1919 | 5 | 167 | 8 | 10 | 149 | 113,541 | 20,133 | 100,616 | 81,159 | 253,369 | 160 |
| Muskogee..... | 1914 | 7 | 148 | 7 | 8 | 133 | 59,980 | 8,572 | 59,545 | 41,286 | 152,934 | 171 |
| Oklahoma City..... | 1919 | 4 | 531 | 2 | 81 | 448 | 638,525 | 125,978 | 286,091 | 151,898 | 807,936 | 323 |
| Oklahoma City..... | 1914 | 5 | 330 | 7 | 28 | 295 | 199,648 | 29,518 | 149,713 | 64,631 | 373,912 | 252 |
| Tulsa..... | 1919 | 6 | 293 | 6 | 23 | 264 | 294,919 | 37,842 | 186,946 | 130,073 | 513,457 | 159 |
| Tulsa..... | 1914 | 3 | 38 | 3 | 1 | 34 | 57,834 | 1,560 | 18,808 | 7,730 | 50,327 | 41 |
| OREGON..... | | | | | | | | | | | | |
| Eugene City ¹ | 1919 | 73 | 2,253 | 60 | 160 | 2,033 | 2,117,225 | 237,322 | 1,778,045 | 723,313 | 3,629,983 | 2,334 |
| Eugene City ¹ | 1914 | 78 | 1,969 | 74 | 150 | 1,745 | 1,669,317 | 174,382 | 961,677 | 385,166 | 2,146,868 | 2,338 |
| Eugene City ¹ | 1919 | 3 | 65 | 3 | ..... | 62 | 46,462 | ..... | 41,388 | 10,861 | 69,131 | 44 |
| Portland..... | 1919 | 23 | 1,426 | 9 | 118 | 1,299 | 1,273,267 | 225,490 | 1,214,017 | 452,358 | 2,452,794 | 1,302 |
| Portland..... | 1914 | 31 | 1,320 | 20 | 115 | 1,185 | 1,155,750 | 135,241 | 681,399 | 259,111 | 1,489,862 | 1,514 |
| Salem..... | 1919 | 3 | 56 | 2 | 4 | 50 | 59,902 | 6,100 | 29,558 | 12,915 | 74,323 | 73 |
| Salem..... | 1914 | 3 | 59 | 3 | 4 | 52 | 42,575 | 4,640 | 24,738 | 5,154 | 45,991 | 111 |
| PENNSYLVANIA..... | | | | | | | | | | | | |
| Allentown..... | 1919 | 351 | 9,956 | 369 | 1,003 | 8,584 | 10,042,553 | 1,459,390 | 5,720,792 | 3,078,721 | 14,351,068 | 13,760 |
| Allentown..... | 1914 | 396 | 11,831 | 447 | 974 | 10,410 | 8,100,248 | 884,289 | 4,236,358 | 1,843,109 | 10,225,004 | 12,602 |
| Allentown..... | 1919 | 3 | 70 | 4 | 6 | 60 | 69,384 | 6,168 | 36,668 | 30,190 | 81,335 | 68 |
| Allentown..... | 1914 | 5 | 86 | 6 | 5 | 75 | 56,501 | 3,186 | 27,079 | 6,336 | 69,092 | 91 |
| Chester ¹ | 1919 | 4 | 109 | 3 | 9 | 97 | 138,594 | 13,880 | 53,610 | 26,498 | 120,349 | 112 |
| Erie..... | 1919 | 7 | 233 | 4 | 27 | 202 | 157,160 | 52,838 | 171,067 | 61,441 | 358,150 | 228 |
| Erie..... | 1914 | 7 | 219 | 3 | 12 | 204 | 85,036 | 10,540 | 92,911 | 28,435 | 177,678 | 227 |
| Harrisburg..... | 1919 | 8 | 353 | 12 | 40 | 301 | 454,404 | 46,480 | 171,547 | 89,336 | 481,433 | 520 |
| Harrisburg..... | 1914 | 8 | 363 | 11 | 36 | 316 | 293,720 | 29,010 | 119,222 | 77,761 | 281,558 | 385 |
| Johnstown..... | 1919 | 4 | 1 | 153 | 14 | 134 | 117,123 | 28,168 | 71,391 | 32,422 | 165,498 | 109 |
| Johnstown..... | 1914 | 3 | 114 | 5 | 6 | 103 | 47,420 | 4,208 | 39,069 | 16,487 | 80,284 | 99 |
| Lancaster..... | 1919 | 4 | 121 | 3 | 12 | 106 | 146,111 | 15,519 | 68,483 | 25,658 | 153,201 | 165 |
| Lancaster..... | 1914 | 3 | 161 | 3 | 14 | 144 | 139,684 | 11,899 | 57,209 | 10,266 | 150,159 | 211 |
| Philadelphia..... | 1919 | 97 | 3,491 | 103 | 297 | 3,091 | 3,721,104 | 447,980 | 2,338,433 | 1,197,887 | 5,767,846 | 3,792 |
| Philadelphia..... | 1914 | 91 | 4,277 | 113 | 330 | 3,834 | 2,733,662 | 278,000 | 1,603,193 | 801,356 | 3,974,099 | 3,533 |
| Pittsburgh..... | 1919 | 25 | 1,692 | 11 | 244 | 1,437 | 2,108,360 | 376,488 | 916,821 | 504,088 | 2,545,532 | 3,573 |
| Pittsburgh..... | 1914 | 26 | 2,169 | 11 | 254 | 1,904 | 1,713,036 | 283,446 | 854,934 | 324,777 | 2,035,245 | 2,467 |
| Reading..... | 1919 | 7 | 121 | 7 | 13 | 111 | 195,850 | 20,487 | 70,993 | 34,136 | 172,800 | 182 |
| Reading..... | 1914 | 12 | 175 | 12 | 8 | 155 | 109,655 | 6,016 | 62,266 | 24,128 | 135,477 | 294 |
| Wilkes-Barre..... | 1919 | 5 | 167 | 1 | 18 | 148 | 178,039 | 27,455 | 90,902 | 48,941 | 218,781 | 143 |
| Wilkes-Barre..... | 1914 | 7 | 195 | 5 | 15 | 175 | 131,392 | 13,072 | 63,242 | 20,668 | 143,240 | 234 |
| Williamsport..... | 1919 | 0 | 64 | 6 | 2 | 50 | 57,500 | 1,744 | 23,692 | 18,681 | 57,406 | 120 |
| Williamsport..... | 1914 | 7 | 113 | 9 | 4 | 100 | 64,080 | 3,504 | 33,985 | 18,234 | 78,233 | 136 |
| York..... | 1919 | 7 | 138 | 9 | 14 | 115 | 221,420 | 17,047 | 61,030 | 30,309 | 154,665 | 212 |
| York..... | 1914 | 7 | 143 | 9 | 4 | 130 | 142,600 | 2,636 | 60,643 | 19,406 | 136,770 | 188 |
| RHODE ISLAND..... | | | | | | | | | | | | |
| Newport..... | 1919 | 70 | 1,272 | 87 | 150 | 1,035 | 1,181,827 | 201,405 | 805,303 | 457,898 | 2,154,652 | 2,257 |
| Newport..... | 1914 | 66 | 1,402 | 70 | 140 | 1,192 | 684,194 | 135,280 | 544,455 | 230,004 | 1,260,942 | 1,829 |
| Newport..... | 1919 | 8 | 156 | 10 | 7 | 139 | 98,718 | 8,630 | 86,019 | 54,545 | 195,653 | 141 |
| Newport..... | 1914 | 7 | 127 | 8 | 8 | 111 | 51,331 | 6,800 | 50,088 | 16,608 | 84,248 | 187 |
| Pawtucket..... | 1919 | 12 | 170 | 20 | 8 | 142 | 162,432 | 9,500 | 112,402 | 60,941 | 278,793 | 390 |
| Pawtucket..... | 1914 | 6 | 185 | 10 | 10 | 165 | 63,934 | 6,153 | 76,958 | 27,612 | 151,421 | 265 |
| Providence..... | 1919 | 26 | 786 | 27 | 131 | 628 | 758,724 | 178,175 | 502,817 | 257,533 | 1,416,470 | 1,161 |
| Providence..... | 1914 | 27 | 915 | 25 | 115 | 775 | 503,169 | 117,860 | 348,184 | 156,088 | 856,110 | 880 |
| Warwick ¹ | 1919 | 4 | 32 | 5 | ..... | 27 | 59,175 | ..... | 17,104 | 7,683 | 36,680 | 104 |
| Woonsocket..... | 1919 | 6 | 33 | 7 | 1 | 25 | 17,610 | 600 | 22,922 | 12,047 | 64,874 | 133 |
| Woonsocket..... | 1914 | 8 | 64 | 10 | 3 | 61 | 27,672 | 1,900 | 23,992 | 12,108 | 64,020 | 168 |
| SOUTH CAROLINA..... | | | | | | | | | | | | |
| Charleston..... | 1919 | 28 | 723 | 29 | 69 | 625 | 555,911 | 91,983 | 316,689 | 237,036 | 833,801 | 654 |
| Charleston..... | 1914 | 23 | 588 | 24 | 47 | 517 | 265,692 | 37,213 | 146,556 | 95,898 | 422,212 | 604 |
| Charleston..... | 1919 | 4 | 172 | 1 | 15 | 156 | 192,623 | 23,928 | 72,368 | 77,738 | 215,008 | 270 |
| Charleston..... | 1914 | 4 | 166 | 2 | 18 | 146 | 83,222 | 11,609 | 47,689 | 32,070 | 120,900 | 140 |
| Columbia..... | 1919 | 7 | 123 | 4 | 20 | 99 | 64,400 | 25,949 | 52,040 | 44,347 | 149,783 | 124 |
| Columbia..... | 1914 | 3 | 149 | 2 | 7 | 140 | 53,228 | 8,900 | 31,047 | 22,310 | 108,678 | 82 |
| Greenville..... | 1919 | 3 | 128 | 8 | 18 | 102 | 72,938 | 20,754 | 41,338 | 35,749 | 143,806 | 53 |
| Greenville..... | 1914 | 3 | 79 | 7 | 8 | 64 | 34,016 | 5,103 | 20,713 | 11,046 | 49,592 | 115 |
| SOUTH DAKOTA..... | | | | | | | | | | | | |
| Aberdeen..... | 1919 | 29 | 542 | 29 | 44 | 469 | 841,521 | 62,908 | 348,306 | 252,605 | 940,179 | 702 |
| Aberdeen..... | 1914 | 26 | 454 | 29 | 25 | 400 | 352,747 | 24,559 | 190,492 | 112,555 | 477,474 | 520 |
| Aberdeen..... | 1919 | 3 | 137 | 2 | 11 | 124 | 258,392 | 23,370 | 97,256 | 54,352 | 244,193 | ..... |
| Aberdeen..... | 1914 | 3 | 114 | 6 | 10 | 98 | 55,644 | 11,457 | 42,527 | 22,843 | 107,032 | 88 |
| Sioux Falls..... | 1919 | 5 | 107 | 5 | 10 | 92 | 194,607 | 10,882 | 76,045 | 50,522 | 209,197 | ..... |
| Sioux Falls..... | 1914 | 3 | 93 | 4 | 4 | 85 | 79,603 | 3,128 | 44,789 | 28,326 | 123,147 | 93 |

¹ Not reported in 1914.

POWER LAUNDRIES.

1045

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|---------------------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-----------|-------------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| TENNESSEE..... | 1919 | 50 | 3,041 | 51 | 297 | 2,693 | \$2,113,707 | \$434,931 | \$1,292,035 | \$837,634 | \$3,039,602 | 3,621 |
| | 1914 | 67 | 2,898 | 62 | 256 | 2,580 | 1,558,029 | 214,819 | 908,671 | 437,720 | 2,296,797 | 3,107 |
| Chattanooga..... | 1919 | 5 | 400 | 7 | 348 | 45 | 227,970 | 57,384 | 201,635 | 117,803 | 515,642 | 278 |
| | 1914 | 6 | 379 | 7 | 26 | 346 | 160,340 | 22,047 | 121,032 | 45,338 | 297,562 | 273 |
| Knoxville..... | 1919 | 8 | 334 | 8 | 24 | 302 | 206,769 | 54,049 | 157,156 | 142,318 | 470,793 | 412 |
| | 1914 | 8 | 327 | 8 | 24 | 295 | 105,469 | 18,042 | 88,821 | 72,307 | 224,389 | 302 |
| Memphis..... | 1919 | 7 | 996 | 2 | 90 | 904 | 702,746 | 146,466 | 450,039 | 261,217 | 1,228,590 | 1,165 |
| | 1914 | 8 | 1,042 | 2 | 67 | 973 | 673,517 | 66,826 | 402,426 | 166,931 | 869,647 | 1,239 |
| Nashville..... | 1919 | 7 | 821 | 5 | 94 | 722 | 622,777 | 130,654 | 294,416 | 163,879 | 815,600 | 862 |
| | 1914 | 6 | 636 | 6 | 100 | 530 | 370,115 | 76,064 | 163,349 | 73,943 | 555,471 | 497 |
| TEXAS..... | 1919 | 171 | 6,321 | 175 | 678 | 5,468 | 5,582,009 | 950,709 | 3,399,532 | 2,070,297 | 9,249,915 | 5,918 |
| | 1914 | 185 | 5,254 | 221 | 428 | 4,605 | 3,443,394 | 485,562 | 2,117,949 | 1,071,622 | 5,521,841 | 6,063 |
| Amarillo..... | 1919 | 3 | 94 | 3 | 11 | 80 | 111,588 | 13,697 | 72,159 | 32,447 | 211,208 | 95 |
| | 1914 | 3 | 82 | ..... | 0 | 73 | 72,173 | 9,526 | 45,533 | 18,603 | 110,384 | 85 |
| Austin..... | 1919 | 5 | 96 | 8 | 3 | 85 | 102,045 | 5,070 | 52,584 | 35,537 | 118,353 | 103 |
| | 1914 | 4 | 118 | 5 | 108 | 33,645 | 33,645 | 4,217 | 41,795 | 19,223 | 93,267 | 104 |
| Beaumont..... | 1919 | 4 | 277 | ..... | 38 | 230 | 264,512 | 84,396 | 136,074 | 117,327 | 499,778 | ..... |
| | 1914 | 3 | 167 | 3 | 25 | 139 | 97,112 | 32,216 | 69,245 | 23,763 | 238,926 | 214 |
| Dallas..... | 1919 | 9 | 825 | 4 | 123 | 698 | 567,608 | 144,350 | 374,687 | 167,827 | 1,170,280 | 619 |
| | 1914 | 10 | 637 | 4 | 83 | 560 | 375,026 | 109,058 | 253,621 | 108,862 | 755,897 | 815 |
| El Paso..... | 1919 | 6 | 423 | 2 | 35 | 386 | 412,071 | 51,347 | 187,285 | 103,748 | 478,786 | 318 |
| | 1914 | 8 | 289 | 6 | 24 | 259 | 237,423 | 26,673 | 101,770 | 63,341 | 280,046 | 260 |
| Fort Worth..... | 1919 | 9 | 659 | 12 | 57 | 590 | 480,609 | 69,723 | 399,874 | 182,948 | 961,597 | 376 |
| | 1914 | 7 | 400 | 6 | 33 | 361 | 334,262 | 30,788 | 171,172 | 53,007 | 423,867 | 336 |
| Galveston..... | 1919 | 3 | 199 | 4 | 31 | 164 | 197,125 | 53,533 | 90,249 | 51,557 | 326,778 | 120 |
| | 1914 | 3 | 255 | ..... | 41 | 214 | 196,610 | 55,447 | 96,811 | 51,487 | 308,704 | 175 |
| Houston..... | 1919 | 9 | 731 | 3 | 116 | 612 | 731,177 | 108,247 | 363,736 | 258,244 | 1,126,529 | 626 |
| | 1914 | 8 | 648 | 6 | 83 | 559 | 422,509 | 89,851 | 260,630 | 220,024 | 748,419 | 640 |
| Paris..... | 1919 | 3 | 121 | 2 | 11 | 108 | 111,431 | 15,642 | 73,718 | 83,983 | 183,899 | 88 |
| | 1914 | 3 | 125 | 17 | 5 | 103 | 109,590 | 7,236 | 42,082 | 22,866 | 101,262 | 135 |
| San Antonio..... | 1919 | 9 | 562 | 2 | 38 | 522 | 422,805 | 83,462 | 319,678 | 178,474 | 994,452 | 344 |
| | 1914 | 9 | 472 | 4 | 31 | 437 | 313,998 | 33,270 | 122,728 | 73,668 | 492,348 | 577 |
| Waco..... | 1919 | 5 | 254 | 5 | 13 | 236 | 196,362 | 19,658 | 129,337 | 71,390 | 306,037 | 220 |
| | 1914 | 5 | 244 | 6 | 5 | 233 | 73,310 | 5,950 | 111,625 | 47,743 | 191,398 | 164 |
| UTAH..... | 1919 | 27 | 1,213 | 20 | 153 | 1,040 | 1,954,860 | 199,280 | 767,711 | 379,339 | 1,973,106 | 1,865 |
| | 1914 | 36 | 1,107 | 31 | 96 | 1,070 | 1,213,651 | 108,567 | 580,473 | 321,923 | 1,367,433 | 1,926 |
| Ogden..... | 1919 | 5 | 175 | 2 | 25 | 148 | 197,975 | 39,874 | 111,115 | 53,187 | 278,254 | 343 |
| | 1914 | 8 | 169 | 3 | 13 | 148 | 186,283 | 15,502 | 82,467 | 66,502 | 202,018 | 239 |
| Salt Lake City..... | 1919 | 10 | 801 | 5 | 79 | 717 | 1,500,538 | 118,087 | 547,225 | 268,251 | 1,379,035 | 1,302 |
| | 1914 | 12 | 846 | 9 | 80 | 757 | 903,093 | 89,655 | 412,938 | 218,514 | 998,749 | 1,400 |
| VERMONT..... | 1919 | 28 | 364 | 32 | 8 | 324 | 253,957 | 10,531 | 179,099 | 97,392 | 399,668 | 478 |
| | 1914 | 41 | 441 | 40 | 14 | 378 | 233,082 | 7,628 | 146,014 | 63,214 | 362,041 | 518 |
| Burlington..... | 1919 | 4 | 83 | 5 | ..... | 78 | 56,300 | ..... | 47,365 | 27,822 | 97,718 | 79 |
| | 1914 | 5 | 98 | 0 | 4 | 88 | 34,017 | 2,536 | 36,660 | 10,270 | 87,080 | 76 |
| Rutland..... | 1919 | 3 | 33 | 3 | 28 | 28 | 14,500 | 1,500 | 16,254 | 9,881 | 40,813 | 72 |
| | 1914 | 5 | 56 | 0 | 4 | 46 | 46,605 | 1,650 | 22,189 | 9,724 | 48,802 | 73 |
| VIRGINIA..... | 1919 | 63 | 2,674 | 51 | 256 | 2,367 | 1,724,255 | 326,067 | 1,110,703 | 658,519 | 3,009,759 | 1,989 |
| | 1914 | 71 | 1,965 | 76 | 195 | 1,694 | 1,055,152 | 107,266 | 524,337 | 285,809 | 1,453,912 | 1,918 |
| Lynchburg..... | 1919 | 4 | 203 | 2 | 20 | 181 | 175,204 | 36,920 | 90,477 | 48,992 | 271,813 | 178 |
| | 1914 | 3 | 210 | 1 | 18 | 191 | 85,085 | 26,602 | 58,603 | 31,836 | 183,113 | 109 |
| Newport News ¹ | 1919 | 4 | 175 | 2 | 21 | 152 | 193,319 | 28,013 | 80,474 | 44,647 | 198,961 | 106 |
| Norfolk..... | 1919 | 6 | 320 | 4 | 60 | 247 | 311,324 | 166,741 | 145,174 | 72,329 | 624,147 | 256 |
| | 1914 | 8 | 344 | 7 | 57 | 280 | 316,118 | 50,549 | 82,156 | 44,403 | 301,480 | 260 |
| Petersburg..... | 1919 | 4 | 92 | 5 | 7 | 80 | 93,100 | 5,600 | 47,039 | 30,337 | 105,630 | 92 |
| | 1914 | 3 | 61 | 4 | 2 | 55 | 41,218 | 1,040 | 19,086 | 7,006 | 44,540 | 54 |
| Portsmouth..... | 1919 | 3 | 73 | 2 | 18 | 53 | 46,705 | 22,103 | 27,858 | 27,131 | 96,918 | 55 |
| | 1914 | 3 | 60 | 3 | 5 | 61 | 26,820 | 4,240 | 14,740 | 9,515 | 45,500 | 53 |
| Richmond..... | 1919 | 8 | 1,048 | 5 | 63 | 980 | 372,617 | 70,092 | 342,732 | 155,091 | 787,114 | 465 |
| | 1914 | 10 | 559 | 11 | 68 | 480 | 253,802 | 47,988 | 167,856 | 98,341 | 420,599 | 490 |
| Roanoke..... | 1919 | 5 | 164 | 2 | 22 | 140 | 89,114 | 27,439 | 96,973 | 83,279 | 232,821 | 186 |
| | 1914 | 6 | 151 | 6 | 8 | 137 | 94,852 | 10,052 | 46,336 | 24,123 | 109,161 | 188 |
| WASHINGTON..... | 1919 | 177 | 4,032 | 180 | 313 | 3,539 | 3,595,777 | 515,812 | 3,387,500 | 1,359,049 | 7,336,715 | 4,932 |
| | 1914 | 192 | 3,744 | 205 | 241 | 3,208 | 2,838,858 | 265,045 | 1,895,268 | 655,300 | 4,251,620 | 4,022 |
| Aberdeen..... | 1919 | 4 | 82 | 5 | 5 | 72 | 60,211 | 268,808 | 1,565,472 | 18,895 | 118,112 | 66 |
| | 1914 | 4 | 69 | 7 | 5 | 57 | 25,436 | 3,036 | 34,378 | 12,200 | 98,784 | 91 |
| Bellingham..... | 1919 | 3 | 104 | 4 | 4 | 96 | 84,721 | 5,471 | 90,103 | 34,210 | 175,186 | 150 |
| | 1914 | 4 | 80 | 6 | 5 | 69 | 78,826 | 3,078 | 43,239 | 15,348 | 81,043 | 105 |
| Everett..... | 1919 | 6 | 138 | 10 | 6 | 122 | 141,238 | 6,512 | 99,257 | 45,280 | 207,492 | 176 |
| | 1914 | 6 | 107 | 6 | 6 | 95 | 108,590 | 8,990 | 47,939 | 23,390 | 107,012 | 109 |
| Seattle..... | 1919 | 42 | 1,619 | 27 | 149 | 1,443 | 1,349,412 | 268,808 | 1,565,472 | 468,752 | 3,282,896 | 1,526 |
| | 1914 | 49 | 1,545 | 32 | 112 | 1,401 | 1,146,693 | 121,063 | 908,928 | 258,013 | 1,837,555 | 1,241 |
| Spokane..... | 1919 | 13 | 543 | 7 | 54 | 482 | 588,245 | 96,021 | 414,930 | 197,542 | 972,605 | 667 |
| | 1914 | 17 | 585 | 13 | 45 | 527 | 514,385 | 59,945 | 321,255 | 99,069 | 745,275 | 669 |
| Tacoma..... | 1919 | 25 | 497 | 26 | 41 | 430 | 380,936 | 55,318 | 402,750 | 192,407 | 872,088 | 480 |
| | 1914 | 17 | 385 | 15 | 20 | 350 | 206,389 | 22,590 | 198,817 | 60,079 | 415,896 | 383 |

¹ Not reported in 1914.

MANUFACTURES.

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920) WITH 3 OR MORE ESTABLISHMENTS: 1919 AND 1914—Continued.

| STATE AND CITY. | Census year. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|--------------------|--------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| WEST VIRGINIA..... | 1919 | 44 | 1,057 | 50 | 87 | 920 | \$1,175,992 | \$116,587 | \$616,267 | \$327,396 | \$1,775,349 | 1,457 |
| | 1914 | 44 | 929 | 35 | 67 | 827 | 689,040 | 61,417 | 358,361 | 135,119 | 785,782 | 1,305 |
| Charleston..... | 1919 | 5 | 154 | 7 | 28 | 119 | 238,781 | 31,731 | 89,704 | 37,682 | 219,350 | 266 |
| | 1914 | 3 | 115 | ..... | 10 | 105 | 41,827 | 10,216 | 44,502 | 15,242 | 98,613 | 129 |
| Clarksburg..... | 1919 | 3 | 120 | 1 | 10 | 109 | 192,362 | 14,348 | 79,900 | 27,950 | 185,906 | 104 |
| | 1914 | 3 | 100 | 1 | 6 | 93 | 140,643 | 6,835 | 49,408 | 11,951 | 97,500 | 176 |
| Fairmont..... | 1919 | 5 | 95 | 7 | 7 | 81 | 78,482 | 6,690 | 53,581 | 21,697 | 111,048 | 143 |
| | 1914 | 3 | 81 | ..... | 6 | 75 | 70,787 | 4,870 | 32,090 | 8,555 | 62,748 | 160 |
| Huntington..... | 1919 | 4 | 125 | 7 | 5 | 113 | 137,651 | 6,050 | 79,806 | 17,168 | 137,651 | 135 |
| | 1914 | 4 | 80 | 5 | 7 | 77 | 28,650 | 6,140 | 34,203 | 10,650 | 78,992 | 92 |
| Parkersburg..... | 1919 | 3 | 118 | 2 | 9 | 107 | 110,143 | 16,744 | 67,821 | 28,797 | 131,550 | 116 |
| | 1914 | 3 | 129 | 2 | 10 | 117 | 110,741 | 8,217 | 46,803 | 24,505 | 104,217 | 100 |
| Wheeling..... | 1919 | 3 | 116 | ..... | 11 | 105 | 212,618 | 10,336 | 76,310 | 73,980 | 201,854 | 297 |
| | 1914 | 3 | 132 | ..... | 12 | 120 | 103,633 | 12,853 | 57,759 | 18,200 | 127,513 | 129 |
| WISCONSIN..... | 1919 | 145 | 2,529 | 135 | 271 | 2,123 | 2,633,647 | 362,073 | 1,328,275 | 926,618 | 3,650,118 | 4,071 |
| | 1914 | 150 | 2,045 | 161 | 219 | 2,295 | 1,794,553 | 201,026 | 939,930 | 526,480 | 2,353,183 | 3,175 |
| Beloit..... | 1919 | 4 | 58 | 6 | ..... | 52 | 80,001 | ..... | 30,867 | 21,104 | 70,797 | 163 |
| | 1914 | 4 | 57 | 7 | ..... | 50 | 53,251 | ..... | 21,412 | 14,329 | 44,957 | 53 |
| Green Bay..... | 1919 | 3 | 51 | 2 | ..... | 44 | 60,954 | 8,424 | 20,107 | 12,144 | 65,502 | 139 |
| | 1914 | 3 | 66 | 5 | 7 | 54 | 40,394 | 5,798 | 21,604 | 8,507 | 53,038 | 78 |
| Kenosha..... | 1919 | 6 | 67 | 10 | 3 | 34 | 53,061 | 3,730 | 55,693 | 42,361 | 150,599 | 125 |
| | 1914 | 6 | 69 | 8 | 2 | 59 | 29,584 | 701 | 23,344 | 18,871 | 52,235 | 122 |
| La Crosse..... | 1919 | 5 | 111 | 3 | 13 | 95 | 136,015 | 15,555 | 63,890 | 35,605 | 163,113 | 154 |
| | 1914 | 4 | 124 | 1 | 11 | 112 | 64,909 | 10,008 | 46,831 | 18,203 | 122,734 | 129 |
| Madison..... | 1919 | 5 | 116 | 7 | 9 | 100 | 80,793 | 9,400 | 69,922 | 38,465 | 172,441 | 223 |
| | 1914 | 3 | 67 | 5 | 1 | 91 | 115,047 | 1,140 | 43,034 | 21,703 | 90,724 | 85 |
| Manitowoc..... | 1919 | 4 | 38 | 4 | ..... | 34 | 34,725 | ..... | 23,657 | 13,342 | 51,461 | 100 |
| | 1914 | 3 | 18 | 6 | ..... | 12 | 28,950 | ..... | 2,953 | 3,644 | 17,495 | 35 |
| Milwaukee..... | 1919 | 32 | 950 | 20 | 124 | 815 | 851,824 | 168,688 | 549,867 | 308,697 | 1,420,544 | 1,353 |
| | 1914 | 33 | 1,133 | 24 | 111 | 908 | 592,941 | 109,002 | 443,904 | 222,873 | 1,012,904 | 1,422 |
| Racine..... | 1919 | 5 | 145 | 5 | 20 | 120 | 208,479 | 27,548 | 75,393 | 64,380 | 239,574 | 317 |
| | 1914 | 4 | 93 | 5 | 11 | 82 | 84,190 | 12,181 | 35,085 | 14,063 | 98,237 | 108 |
| Superior..... | 1919 | 3 | 155 | ..... | 23 | 112 | 191,270 | 39,032 | 76,067 | 72,745 | 244,383 | 101 |
| | 1914 | 4 | 158 | ..... | 18 | 140 | 194,250 | 24,005 | 59,795 | 31,660 | 198,719 | 144 |
| WYOMING..... | 1919 | 23 | 412 | 19 | 36 | 357 | 424,031 | 45,290 | 309,815 | 148,493 | 763,053 | 719 |
| | 1914 | 18 | 212 | 22 | 5 | 185 | 174,200 | 6,440 | 147,728 | 64,501 | 238,048 | 322 |
| Cheyenne..... | 1919 | 3 | 108 | 2 | 12 | 94 | 90,424 | 15,926 | 75,280 | 38,049 | 205,720 | 180 |
| | 1914 | 3 | 69 | 1 | 4 | 64 | 89,740 | 5,240 | 34,426 | 31,051 | 87,171 | 113 |

TABLE 10.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER. | NUMBER OF ENGINES OR MOTORS. | | | HORSEPOWER. | | | | | |
|--|------------------------------|------------------|------------------|-------------|------------------|------------------|------------------------|-------|-------|
| | 1919 | 1914 | 1909 | Amount. | | | Per cent distribution. | | |
| | | | | 1919 | 1914 | 1909 | 1919 | 1914 | 1909 |
| Primary power, total..... | 13,262 | 10,830 | 6,928 | 106,793 | 174,881 | 123,477 | 100.0 | 100.0 | 100.0 |
| Owned..... | 3,684 | 4,902 | 4,527 | 147,261 | 146,817 | 109,870 | 74.8 | 84.0 | 89.0 |
| Steam..... | 3,461 | 4,423 | 4,119 | 144,194 | 141,224 | 109,272 | 73.2 | 80.8 | 85.3 |
| Engines..... | 3,363 | (¹) | (¹) | 139,547 | (¹) | (¹) | 70.8 | ..... | ..... |
| Turbines..... | 98 | (¹) | (¹) | 4,647 | (¹) | (¹) | 2.4 | ..... | ..... |
| Internal-combustion engines..... | 212 | 368 | 379 | 2,908 | 4,915 | 4,073 | 1.5 | 2.8 | 3.3 |
| Water..... | 11 | 111 | 29 | 159 | 678 | 525 | 0.1 | 0.4 | 0.4 |
| Water wheels and turbines..... | 7 | (¹) | (¹) | 140 | (¹) | (¹) | 0.1 | ..... | ..... |
| Water motors..... | 4 | (¹) | (¹) | 19 | (¹) | (¹) | (¹) | ..... | ..... |
| Rented..... | 9,578 | 5,928 | 2,401 | 49,532 | 28,064 | 13,607 | 25.2 | 16.0 | 11.0 |
| Electric..... | 9,578 | 5,928 | 2,401 | 43,887 | 24,655 | 11,157 | 22.3 | 14.1 | 9.0 |
| Other..... | ..... | ..... | ..... | 5,645 | 3,409 | 2,450 | 2.9 | 1.9 | 2.0 |
| Electric..... | 17,117 | 12,260 | 5,393 | 75,276 | 44,168 | 23,916 | 100.0 | 100.0 | 100.0 |
| Rented..... | 9,578 | 5,928 | 2,401 | 43,887 | 24,655 | 11,157 | 58.3 | 55.8 | 46.7 |
| Generated by establishments reporting..... | 7,539 | 6,332 | 2,992 | 31,389 | 19,513 | 12,759 | 41.7 | 44.2 | 53.3 |

¹ Not reported separately.¹ Less than one-tenth of 1 per cent.

POWER LAUNDRIES.

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TABLE 11.—FUEL CONSUMED, BY DIVISIONS AND STATES: 1919 AND 1914.

| DIVISION AND STATE. | COAL. | | Coke (ton, 2,000 pounds) | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). | DIVISION AND STATE. | COAL. | | Coke (ton, 2,000 pounds) | Fuel oils (barrels). | Gasoline and other volatile oils (barrels). | Gas (1,000 cubic feet). |
|------------------------------------|--|---------------------------------|--------------------------|----------------------|---|-------------------------|-----------------------|--|---------------------------------|--------------------------|----------------------|---|-------------------------|
| | Anthracite ¹ (ton, 2,240 pounds). | Bituminous (ton, 2,000 pounds). | | | | | | Anthracite ¹ (ton, 2,240 pounds). | Bituminous (ton, 2,000 pounds). | | | | |
| UNITED STATES: | | | | | | | SOUTH ATLANTIC—CON. | | | | | | |
| 1919..... | 226,527 | 1,346,010 | 22,484 | 729,444 | 37,502 | 2,001,285 | Maryland— | | | | | | |
| 1914..... | 212,892 | 1,212,687 | 16,161 | 710,506 | (2) | 3,786,429 | 1919..... | 1,326 | 17,284 | | | 11 | 57,928 |
| 1909..... | 178,640 | 886,784 | 14,785 | 372,586 | (2) | 2,729,324 | 1914..... | 603 | 14,345 | | 220 | (2) | 35,595 |
| Per cent of increase: ³ | | | | | | | District of Columbia— | | | | | | |
| 1914-1919..... | 6.4 | 2.7 | 39.1 | 7.9 | | -47.1 | 1919..... | 415 | 13,353 | | 8 | 104 | 2,322 |
| 1909-1914..... | 19.2 | 36.8 | 9.3 | 90.7 | | 38.7 | 1914..... | 6 | 11,174 | | 150 | (2) | 2,654 |
| NEW ENGLAND: | | | | | | | Virginia— | | | | | | |
| 1919..... | 13,924 | 118,266 | 3,109 | 14,320 | 1,318 | 26,521 | 1919..... | 85 | 20,761 | 600 | 4 | 335 | 1,146 |
| 1914..... | 20,411 | 109,833 | 4,469 | 576 | (2) | 43,883 | 1914..... | 1,372 | 18,716 | | 20 | (2) | 6,377 |
| Maine— | | | | | | | West Virginia— | | | | | | |
| 1919..... | 2,562 | 9,508 | 342 | 375 | 11 | 1,040 | 1919..... | | 5,310 | | 2,500 | 20 | 170,935 |
| 1914..... | 2,846 | 8,531 | | 48 | (2) | 4,088 | 1914..... | 74 | 4,355 | | 7 | (2) | 179,838 |
| New Hampshire— | | | | | | | North Carolina— | | | | | | |
| 1919..... | 361 | 7,275 | 141 | 42 | 38 | 780 | 1919..... | 795 | 14,893 | | 125 | 4 | 1,525 |
| 1914..... | 796 | 7,900 | 244 | 92 | (2) | 2,374 | 1914..... | 651 | 13,670 | 5 | 127 | (2) | 2,475 |
| Vermont— | | | | | | | South Carolina— | | | | | | |
| 1919..... | 170 | 3,403 | 72 | 2 | 57 | 426 | 1919..... | 750 | 7,104 | 147 | | 310 | 2,256 |
| 1914..... | 360 | 3,481 | 104 | 18 | (2) | 1,056 | 1914..... | 1,500 | 6,834 | | 107 | (2) | 424 |
| Massachusetts— | | | | | | | Georgia— | | | | | | |
| 1919..... | 6,712 | 63,883 | 1,986 | 4,014 | 438 | 8,663 | 1919..... | 280 | 23,126 | 863 | 121 | 756 | 3,479 |
| 1914..... | 9,100 | 59,930 | 3,777 | (2) | (2) | 25,777 | 1914..... | 544 | 18,026 | 744 | 64 | (2) | 2,698 |
| Rhode Island— | | | | | | | Florida— | | | | | | |
| 1919..... | 542 | 9,675 | | 9,855 | 16 | 12,273 | 1919..... | 500 | 2,731 | | 4,136 | 141 | 210 |
| 1914..... | 1,282 | 11,723 | | | | 4,100 | 1914..... | 100 | 3,825 | | 2,867 | (2) | 1,699 |
| Connecticut— | | | | | | | EAST SOUTH CENTRAL: | | | | | | |
| 1919..... | 3,577 | 24,522 | 569 | 32 | 758 | 3,339 | 1919..... | 553 | 101,160 | 267 | 1 | 6,988 | 20,821 |
| 1914..... | 6,027 | 18,318 | 344 | 41 | (2) | 6,479 | 1914..... | 565 | 97,116 | 2,585 | 2,430 | (2) | 42,411 |
| MIDDLE ATLANTIC: | | | | | | | Kentucky— | | | | | | |
| 1919..... | 156,567 | 162,193 | 8,042 | 111 | 3,761 | 61,877 | 1919..... | | 36,707 | | | 619 | 19,649 |
| 1914..... | 106,742 | 131,051 | 1,363 | 1,265 | (2) | 292,787 | 1914..... | | 33,018 | 260 | 38 | (2) | 23,380 |
| New York— | | | | | | | Tennessee— | | | | | | |
| 1919..... | 80,048 | 68,823 | 1,272 | 29 | 2,158 | 43,807 | 1919..... | 150 | 40,908 | 267 | 1 | 606 | 5,179 |
| 1914..... | 80,732 | 55,150 | 1,363 | 538 | (2) | 87,448 | 1914..... | 315 | 39,431 | 280 | 64 | (2) | 10,807 |
| New Jersey— | | | | | | | Alabama— | | | | | | |
| 1919..... | 29,717 | 24,028 | 6,676 | 55 | 270 | 7,402 | 1919..... | 403 | 16,754 | | | 5,559 | 751 |
| 1914..... | 34,389 | 8,251 | | 165 | (2) | 10,410 | 1914..... | 250 | 17,120 | 2,045 | 287 | (2) | 1,107 |
| Pennsylvania— | | | | | | | Mississippi— | | | | | | |
| 1919..... | 40,802 | 69,342 | 94 | 27 | 1,333 | 10,608 | 1919..... | | 6,791 | | | 204 | 1,242 |
| 1914..... | 51,621 | 67,650 | | 562 | (2) | 194,879 | 1914..... | | 6,947 | | 2,041 | (2) | 1,027 |
| EAST NORTH CENTRAL: | | | | | | | WEST SOUTH CENTRAL: | | | | | | |
| 1919..... | 32,090 | 441,162 | 4,087 | 587 | 6,486 | 218,473 | 1919..... | 7,787 | 71,411 | 3,231 | 84,448 | 2,907 | 994,115 |
| 1914..... | 10,809 | 377,431 | 1,851 | 1,475 | (2) | 884,162 | 1914..... | 2,995 | 80,537 | 550 | 53,516 | (2) | 1,891,725 |
| Ohio— | | | | | | | Arkansas— | | | | | | |
| 1919..... | 3,920 | 97,297 | 126 | | 1,194 | 164,574 | 1919..... | 1,730 | 4,195 | 61 | | 272 | 298,118 |
| 1914..... | 1,994 | 57,922 | 651 | 116 | (2) | 742,424 | 1914..... | 557 | 7,601 | | 1,351 | (2) | 154,147 |
| Indiana— | | | | | | | Louisiana— | | | | | | |
| 1919..... | 1,031 | 59,447 | 849 | 30 | 555 | 10,299 | 1919..... | | 9,622 | | 6,276 | 10 | 22,921 |
| 1914..... | 782 | 68,095 | 211 | 217 | (2) | 23,565 | 1914..... | | 7,251 | | 788 | (2) | 49,068 |
| Illinois— | | | | | | | Oklahoma— | | | | | | |
| 1919..... | 2,850 | 182,475 | 2,240 | 542 | 4,117 | 28,653 | 1919..... | 1,319 | 8,507 | | 12,784 | 1,004 | 504,686 |
| 1914..... | 4,305 | 164,198 | 607 | 630 | (2) | 78,843 | 1914..... | 1,292 | 9,161 | 550 | 148 | (2) | 1,220,414 |
| Michigan— | | | | | | | Texas— | | | | | | |
| 1919..... | 2,279 | 68,183 | 739 | 15 | 549 | 11,111 | 1919..... | 4,738 | 49,087 | 3,170 | 65,408 | 1,681 | 168,300 |
| 1914..... | 1,777 | 58,417 | 318 | 216 | (2) | 14,601 | 1914..... | 1,146 | 50,404 | | 51,189 | (2) | 408,096 |
| Wisconsin— | | | | | | | MOUNTAIN: | | | | | | |
| 1919..... | 22,010 | 33,760 | 124 | | 71 | 3,836 | 1919..... | 1,232 | 96,851 | 331 | 25,624 | 1,402 | 8,643 |
| 1914..... | 1,951 | 28,799 | 4 | 206 | (2) | 29,729 | 1914..... | 2,207 | 81,902 | 345 | 14,704 | (2) | 17,066 |
| WEST NORTH CENTRAL: | | | | | | | Montana— | | | | | | |
| 1919..... | 9,245 | 232,354 | 1,529 | 59,434 | 4,537 | 259,357 | 1919..... | 630 | 19,302 | | 12 | 65 | 1,703 |
| 1914..... | 3,201 | 227,296 | 919 | 52,437 | (2) | 284,350 | 1914..... | 390 | 14,846 | | 140 | (2) | 3,816 |
| Minnesota— | | | | | | | Idaho— | | | | | | |
| 1919..... | 4,322 | 42,805 | 1,013 | 2 | 399 | 5,732 | 1919..... | | 11,332 | | 2 | 180 | 300 |
| 1914..... | 2,148 | 40,549 | 12 | 295 | (2) | 6,786 | 1914..... | | 7,285 | | 67 | (2) | |
| Iowa— | | | | | | | Wyoming— | | | | | | |
| 1919..... | 2,652 | 42,198 | 334 | 50 | 2,204 | 1,089 | 1919..... | | 6,712 | | 1,371 | 103 | 235 |
| 1914..... | 23 | 56,924 | 435 | 709 | (2) | 6,481 | 1914..... | | 3,904 | | 32 | (2) | 2,304 |
| Missouri— | | | | | | | Colorado— | | | | | | |
| 1919..... | 104 | 81,272 | 176 | 51,008 | 822 | 20,542 | 1919..... | 509 | 36,369 | 321 | | 393 | 2,513 |
| 1914..... | 690 | 72,494 | 357 | 48,422 | (2) | 69,329 | 1914..... | 150 | 35,004 | | 120 | (2) | 6,647 |
| North Dakota— | | | | | | | New Mexico— | | | | | | |
| 1919..... | 1,755 | 6,945 | | 67 | 10 | 528 | 1919..... | | 3,666 | | 25 | 199 | 756 |
| 1914..... | 40 | 9,564 | | 89 | (2) | | 1914..... | 1,061 | 2,967 | | 77 | (2) | 43 |
| South Dakota— | | | | | | | Arizona— | | | | | | |
| 1919..... | 12 | 9,000 | | 2 | 146 | 403 | 1919..... | 3 | 997 | | 16,894 | 120 | 3,106 |
| 1914..... | 10 | 8,141 | | 99 | (2) | 537 | 1914..... | | 1,206 | 345 | 10,229 | (2) | 2,088 |
| Nebraska— | | | | | | | Utah— | | | | | | |
| 1919..... | 385 | 22,800 | | 8 | 325 | 692 | 1919..... | | 17,623 | | | 66 | 30 |
| 1914..... | 320 | 20,389 | 115 | 469 | (2) | 4,624 | 1914..... | | 15,819 | | 5 | (2) | 2,418 |
| Kansas— | | | | | | | Nevada— | | | | | | |
| 1919..... | 15 | 27,334 | 7 | 8,297 | 631 | 230,919 | 1919..... | | 850 | 10 | 7,320 | 216 | 70 |
| 1914..... | | 19,238 | | 2,354 | (2) | 196,074 | 1914..... | | 871 | | 4,034 | (2) | |
| SOUTH ATLANTIC: | | | | | | | PACIFIC: | | | | | | |
| 1919..... | 4,151 | 107,655 | 1,610 | 6,894 | 1,681 | 240,958 | 1919..... | 978 | 14,958 | 278 | 538,025 | 8,362 | 164,523 |
| 1914..... | 4,967 | 93,265 | 775 | 3,571 | (2) | 232,895 | 1914..... | 995 | 14,206 | 3,304 | 580,532 | (2) | 98,591 |
| Delaware— | | | | | | | Washington— | | | | | | |
| 1919..... | | 3,093 | | | | 1,157 | 1919..... | 154 | 11,358 | 32 | 31,807 | 1,272 | 6,188 |
| 1914..... | 117 | 2,320 | 26 | | | 805 | 1914..... | 250 | 9,580 | 809 | 44,724 | (2) | 9,500 |
| | | | | | | | Oregon— | | | | | | |
| | | | | | | | 1919..... | 556 | 735 | | 53,149 | 712 | 3,019 |
| | | | | | | | 1914..... | 200 | 1,525 | 150 | 58,969 | (2) | 3,325 |
| | | | | | | | California— | | | | | | |
| | | | | | | | 1919..... | 268 | 2,865 | 246 | 453,069 | 6,378 | 155,516 |
| | | | | | | | 1914..... | 545 | 2,801 | 2,345 | 481,839 | (2) | 83,766 |

¹ Includes some semianthracite.

² Included in figures for fuel oils.

³ A minus sign (—) denotes decrease.

MANUFACTURES.

TABLE 12.—DETAILED STATEMENT FOR THE INDUSTRY,

| DIVISION AND STATE. | | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | Capital. | |
|---------------------|---------------------------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|--|---------|--------------|---------|-----------|----------|---------------|
| | | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | | Total. | 16 and over. | | Under 16. | | |
| | | | | | | Male. | Female. | Average number. | Number, 15th day of— | | | Male. | Female. | Male. | | Female. |
| | | | | | | | | | Maximum month. | Minimum month. | | | | | | |
| 1 | UNITED STATES..... | 5,678 | 152,569 | 5,514 | 4,953 | 4,809 | 5,414 | 131,879 | Ju 134,019 | Fe 128,620 | 135,698 | 40,007 | 94,838 | 411 | 442 | \$153,805,207 |
| 2 | NEW ENGLAND..... | 708 | 13,782 | 732 | 419 | 303 | 515 | 11,813 | Jy 12,307 | Ja 11,258 | 12,073 | 4,369 | 7,552 | 39 | 113 | 12,625,547 |
| 3 | Maine..... | 81 | 1,144 | 81 | 37 | 1 | 32 | 993 | Au 1,199 | Ja 814 | 1,062 | 333 | 726 | 2 | 1 | 1,121,566 |
| 4 | New Hampshire..... | 61 | 708 | 71 | 7 | 2 | 12 | 616 | Au 688 | Ja 566 | 627 | 215 | 410 | 1 | 1 | 380,224 |
| 5 | Vermont..... | 28 | 364 | 32 | 2 | 1 | 5 | 324 | Au 360 | Ja 302 | 320 | 71 | 248 | 1 | ..... | 253,057 |
| 6 | Massachusetts..... | 340 | 7,960 | 330 | 254 | 220 | 335 | 6,821 | Jy 6,951 | Ja 6,650 | 6,914 | 2,541 | 4,266 | 23 | 84 | 7,266,819 |
| 7 | Rhode Island..... | 70 | 1,272 | 87 | 45 | 43 | 62 | 1,035 | Jy 1,078 | Ja 980 | 1,074 | 439 | 609 | 8 | 18 | 1,181,827 |
| 8 | Connecticut..... | 128 | 2,334 | 131 | 74 | 36 | 69 | 2,024 | Se 2,092 | Ja 1,946 | 2,076 | 770 | 1,293 | 4 | 9 | 2,421,654 |
| 9 | MIDDLE ATLANTIC..... | 1,017 | 27,774 | 974 | 937 | 614 | 1,086 | 24,163 | Au 24,690 | Fe 23,611 | 24,884 | 8,180 | 16,562 | 55 | 87 | 31,333,752 |
| 10 | New York..... | 535 | 13,757 | 495 | 462 | 265 | 537 | 11,998 | Au 12,332 | Fe 11,671 | 12,583 | 4,369 | 8,203 | 7 | 4 | 15,758,753 |
| 11 | New Jersey..... | 131 | 4,061 | 110 | 130 | 124 | 116 | 3,581 | Au 3,783 | Fe 3,434 | 3,655 | 1,319 | 2,309 | 6 | 21 | 4,632,446 |
| 12 | Pennsylvania..... | 351 | 9,956 | 369 | 345 | 225 | 433 | 8,581 | No 8,718 | Ja 8,497 | 8,646 | 2,492 | 6,050 | 42 | 62 | 10,942,553 |
| 13 | EAST NORTH CENTRAL..... | 1,247 | 33,108 | 1,184 | 1,168 | 1,293 | 1,240 | 28,223 | Jy 28,795 | Fe 27,714 | 28,970 | 8,118 | 20,701 | 31 | 120 | 32,622,122 |
| 14 | Ohio..... | 277 | 8,316 | 273 | 265 | 386 | 352 | 7,040 | De 7,233 | Fe 6,923 | 7,280 | 2,206 | 5,067 | 3 | 4 | 8,209,509 |
| 15 | Indiana..... | 158 | 4,328 | 153 | 148 | 315 | 144 | 3,568 | De 3,681 | Fe 3,437 | 3,715 | 900 | 2,706 | 2 | 47 | 3,629,011 |
| 16 | Illinois..... | 470 | 12,189 | 405 | 387 | 365 | 373 | 10,570 | Jy 10,702 | Se 10,451 | 10,677 | 3,172 | 7,448 | 14 | 43 | 12,627,971 |
| 17 | Michigan..... | 197 | 5,746 | 218 | 182 | 174 | 259 | 4,913 | Jy 5,238 | Fe 4,577 | 5,121 | 1,241 | 3,864 | 8 | 8 | 5,421,984 |
| 18 | Wisconsin..... | 145 | 2,529 | 135 | 100 | 53 | 112 | 2,123 | Au 2,159 | Ap 2,070 | 2,177 | 539 | 1,616 | 4 | 18 | 2,633,647 |
| 19 | WEST NORTH CENTRAL..... | 713 | 18,133 | 699 | 614 | 443 | 704 | 15,673 | Jy 15,891 | Fe 15,232 | 15,774 | 4,178 | 11,564 | 9 | 23 | 19,204,470 |
| 20 | Minnesota..... | 156 | 3,818 | 156 | 116 | 83 | 186 | 3,277 | De 3,350 | Se 3,210 | 3,404 | 899 | 2,496 | 2 | 7 | 3,907,932 |
| 21 | Iowa..... | 129 | 2,469 | 137 | 93 | 54 | 108 | 2,074 | Jy 2,140 | My 2,012 | 2,132 | 570 | 1,562 | ..... | ..... | 2,569,074 |
| 22 | Missouri..... | 165 | 6,839 | 112 | 240 | 205 | 285 | 5,997 | De 6,085 | Fe 5,937 | 6,270 | 1,544 | 4,721 | 3 | 11 | 7,321,472 |
| 23 | North Dakota..... | 29 | 488 | 27 | 11 | 10 | 14 | 426 | Au 450 | Ja 377 | 456 | 122 | 334 | ..... | ..... | 615,070 |
| 24 | South Dakota..... | 29 | 542 | 29 | 18 | 9 | 17 | 469 | Au 395 | Fe 325 | 494 | 127 | 364 | 1 | 2 | 841,521 |
| 25 | Nebraska..... | 69 | 1,710 | 73 | 73 | 40 | 44 | 1,471 | De 1,532 | Ja 1,397 | 1,542 | 400 | 1,137 | 2 | 3 | 1,906,483 |
| 26 | Kansas..... | 136 | 2,270 | 165 | 63 | 33 | 50 | 1,959 | Jy 2,024 | Ja 1,881 | 1,467 | 516 | 950 | 1 | ..... | 1,982,927 |
| 27 | SOUTH ATLANTIC..... | 351 | 13,746 | 305 | 498 | 493 | 370 | 12,080 | De 12,480 | Ap * 11,741 | 12,638 | 3,388 | 9,219 | 21 | 10 | 10,686,205 |
| 28 | Delaware..... | 6 | 300 | 10 | 4 | ..... | 2 | 284 | Je 293 | Mh 270 | 285 | 89 | 195 | ..... | 1 | 375,386 |
| 29 | Maryland..... | 46 | 1,883 | 39 | 56 | 95 | 79 | 1,619 | De 1,639 | Mh 1,603 | 1,689 | 498 | 1,191 | ..... | ..... | 1,519,051 |
| 30 | District of Columbia..... | 21 | 1,805 | 10 | 63 | 45 | 42 | 1,655 | Jy 1,709 | Ap 1,603 | 1,658 | 395 | 1,261 | 2 | ..... | 1,374,200 |
| 31 | Virginia..... | 63 | 2,674 | 51 | 84 | 102 | 70 | 2,367 | Au 2,475 | Ja 2,260 | 2,442 | 608 | 1,771 | ..... | 3 | 1,724,255 |
| 32 | West Virginia..... | 44 | 1,057 | 50 | 41 | 17 | 29 | 920 | No 967 | Ja 862 | 969 | 289 | 679 | 1 | ..... | 1,175,992 |
| 33 | North Carolina..... | 56 | 1,631 | 53 | 71 | 37 | 37 | 1,433 | Au 1,497 | Ja 1,370 | 1,457 | 366 | 1,090 | 1 | ..... | 1,161,269 |
| 34 | South Carolina..... | 28 | 723 | 29 | 33 | 22 | 14 | 625 | No 672 | My 595 | 675 | 188 | 487 | ..... | ..... | 555,911 |
| 35 | Georgia..... | 52 | 2,522 | 40 | 98 | 119 | 71 | 2,194 | No 2,353 | Fe 2,067 | 2,302 | 602 | 1,686 | 14 | ..... | 1,919,132 |
| 36 | Florida..... | 35 | 1,146 | 23 | 58 | 56 | 26 | 983 | De 1,117 | My 878 | 1,161 | 293 | 859 | 3 | 6 | 881,099 |
| 37 | EAST SOUTH CENTRAL..... | 182 | 8,028 | 155 | 249 | 296 | 245 | 7,083 | No 7,245 | Je 6,929 | 7,482 | 1,904 | 5,299 | 214 | 5 | 5,579,837 |
| 38 | Kentucky..... | 63 | 2,591 | 53 | 102 | 87 | 75 | 2,294 | No 2,345 | Ja 2,240 | 2,337 | 668 | 1,658 | 0 | 2 | 1,688,280 |
| 39 | Tennessee..... | 59 | 3,041 | 51 | 89 | 105 | 103 | 2,693 | Jy 2,783 | Ap 2,645 | 2,923 | 730 | 1,992 | 201 | ..... | 2,113,707 |
| 40 | Alabama..... | 37 | 1,684 | 31 | 38 | 105 | 48 | 1,462 | No 1,573 | Fe 1,284 | 1,587 | 384 | 1,202 | 1 | ..... | 1,250,500 |
| 41 | Mississippi..... | 23 | 712 | 20 | 20 | 19 | 10 | 634 | Jy 661 | Ja 611 | 635 | 182 | 447 | 3 | 3 | 527,254 |
| 42 | WEST SOUTH CENTRAL..... | 343 | 11,558 | 355 | 390 | 474 | 335 | 10,004 | Se 10,452 | Fe 9,463 | 10,595 | 2,906 | 7,617 | 17 | 25 | 9,885,520 |
| 43 | Arkansas..... | 49 | 1,045 | 46 | 36 | 5 | 21 | 937 | Se 973 | Ap 910 | 1,026 | 287 | 769 | ..... | ..... | 696,445 |
| 44 | Louisiana..... | 24 | 1,837 | 17 | 60 | 94 | 61 | 1,605 | Au 1,652 | Ja 1,529 | 1,655 | 444 | 1,205 | ..... | 6 | 1,449,125 |
| 45 | Oklahoma..... | 99 | 2,355 | 117 | 100 | 78 | 66 | 1,994 | Se 2,085 | Ja 1,887 | 2,025 | 475 | 1,519 | 14 | 17 | 2,157,041 |
| 46 | Texas..... | 171 | 6,321 | 175 | 194 | 287 | 187 | 5,468 | De 5,808 | Fe 5,072 | 5,595 | 1,730 | 4,124 | 3 | 2 | 5,582,909 |
| 47 | MOUNTAIN..... | 281 | 6,932 | 237 | 231 | 222 | 238 | 6,004 | Au 6,394 | Mh 5,716 | 6,080 | 1,687 | 4,380 | 5 | 17 | 7,881,234 |
| 48 | Montana..... | 49 | 1,092 | 34 | 40 | 29 | 18 | 971 | Jy 1,020 | No 933 | 1,011 | 267 | 743 | 1 | ..... | 1,373,349 |
| 49 | Idaho..... | 40 | 652 | 38 | 18 | 10 | 15 | 571 | Jy 602 | Fe 539 | 580 | 164 | 416 | ..... | ..... | 877,590 |
| 50 | Wyoming..... | 23 | 412 | 19 | 16 | 3 | 17 | 357 | Au 395 | Fe 325 | 359 | 82 | 274 | 1 | 2 | 424,031 |
| 51 | Colorado..... | 92 | 2,470 | 86 | 80 | 112 | 106 | 2,086 | Au 2,236 | Mh 1,956 | 2,120 | 545 | 1,564 | ..... | 11 | 2,255,955 |
| 52 | New Mexico..... | 16 | 326 | 15 | 5 | 8 | 0 | 292 | Au 328 | Fe 253 | 251 | 78 | 170 | 2 | 1 | 332,123 |
| 53 | Arizona..... | 21 | 598 | 13 | 24 | 10 | 12 | 539 | Jy 592 | Fe 508 | 564 | 150 | 411 | ..... | 3 | 444,081 |
| 54 | Utah..... | 27 | 1,213 | 20 | 42 | 50 | 61 | 1,040 | Au 1,085 | My 1,006 | 1,056 | 339 | 717 | ..... | ..... | 1,954,879 |
| 55 | Nevada..... | 13 | 169 | 12 | 6 | ..... | 3 | 148 | My 155 | Oc 142 | 148 | 62 | 85 | 1 | ..... | 218,366 |
| 56 | PACIFIC..... | 836 | 19,508 | 873 | 447 | 671 | 681 | 16,836 | De 17,249 | Ap 16,409 | 17,223 | 5,217 | 11,944 | 20 | 42 | 24,086,481 |
| 57 | Washington..... | 177 | 4,032 | 180 | 128 | 58 | 127 | 3,539 | De 3,666 | Mh 3,400 | 3,684 | 1,114 | 2,568 | 1 | 1 | 3,595,777 |
| 58 | Oregon..... | 73 | 2,253 | 60 | 67 | 28 | 80 | 2,033 | Au 2,127 | Ja 1,938 | 1,861 | 381 | 1,479 | 1 | ..... | 2,117,225 |
| 59 | California..... | 586 | 13,223 | 633 | 292 | 590 | 474 | 11,264 | Jy 11,530 | Ap 11,009 | 11,678 | 3,722 | 7,897 | 18 | 41 | 18,373,479 |

* Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

* Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

POWER LAUNDRIES.

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BY DIVISIONS AND STATES: 1919.

| EXPENSES. | | | | | | | | POWER. | | | | | | | | | |
|---------------------|--------------|---------------|------------------|--------------------|---|----------------------|-------------------------|---------------|--------------------------------|-------------------------------|-----------------|------------------------------|---------------------------|--------------------|--------|----|--|
| Salaries and wages. | | | | For contract work. | Rent and taxes. | | For materials. | | Amount received for work done. | Primary horsepower. | | | | | | | Electric horsepower generated in establishments reporting. |
| Officials. | Clerks, etc. | Wage earners. | Rent of factory. | | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | Total. | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power. ¹ | Rent. ² | | | |
| \$12,398,761 | \$10,299,424 | \$92,898,837 | \$1,554,464 | \$3,864,409 | \$2,666,160 | \$39,694,801 | \$13,807,376 | \$236,382,369 | 106,793 | 139,647 | 4,647 | 2,008 | 159 | 49,532 | 31,389 | 1 | |
| 979,718 | 792,303 | 8,894,947 | 767,896 | 337,892 | 219,727 | 3,081,056 | 1,426,497 | 21,462,586 | 20,762 | 15,920 | 257 | 190 | 134 | 4,261 | 2,036 | 2 | |
| 58,033 | 22,449 | 607,083 | 6,392 | 16,298 | 17,759 | 284,565 | 128,263 | 1,514,854 | 1,577 | 1,032 | 60 | 14 | ..... | 471 | 27 | 3 | |
| 12,350 | 9,363 | 486,877 | 5,004 | 15,772 | 5,771 | 107,305 | 87,081 | 968,856 | 1,302 | 939 | 50 | 17 | 14 | 282 | ..... | 4 | |
| 3,016 | 13,515 | 179,099 | 810 | 9,104 | 4,439 | 57,748 | 39,644 | 399,668 | 478 | 173 | ..... | ..... | 40 | 259 | 1 | 5 | |
| 924,695 | 511,331 | 5,285,153 | 738,385 | 215,379 | 147,082 | 1,706,535 | 777,815 | 12,804,279 | 11,502 | 8,846 | 127 | 112 | 25 | 2,392 | 1,523 | 6 | |
| 104,207 | 97,198 | 805,303 | 4,040 | 25,516 | 18,766 | 315,904 | 141,994 | 2,154,652 | 2,267 | 1,774 | ..... | 21 | ..... | 462 | 216 | 7 | |
| 177,417 | 108,467 | 1,531,432 | 13,265 | 55,913 | 25,910 | 548,999 | 250,700 | 3,560,276 | 3,646 | 3,156 | 20 | 26 | 49 | 395 | 269 | 8 | |
| 2,794,806 | 1,608,021 | 18,184,705 | 188,147 | 770,127 | 549,059 | 7,552,687 | 2,540,944 | 46,070,130 | 41,120 | 31,679 | 1,037 | 735 | 10 | 7,668 | 6,808 | 9 | |
| 1,545,712 | 725,451 | 9,600,451 | 120,272 | 488,527 | 233,659 | 4,207,503 | 1,414,885 | 24,627,441 | 21,112 | 15,825 | 667 | 267 | 10 | 4,343 | 3,979 | 10 | |
| 413,271 | 256,002 | 2,893,462 | 7,190 | 85,833 | 139,821 | 1,007,111 | 385,411 | 7,091,021 | 0,257 | 5,394 | 250 | 39 | ..... | 574 | 1,320 | 11 | |
| 832,822 | 626,568 | 5,720,792 | 60,685 | 107,767 | 176,179 | 2,338,073 | 740,618 | 14,351,068 | 13,760 | 10,460 | 120 | 429 | ..... | 2,751 | 1,599 | 12 | |
| 2,847,471 | 2,492,929 | 19,824,175 | 291,672 | 847,143 | 536,622 | 9,581,345 | 2,911,709 | 51,789,615 | 43,422 | 30,181 | 1,501 | 647 | ..... | 11,063 | 8,040 | 13 | |
| 616,651 | 801,706 | 4,703,668 | 64,089 | 180,825 | 134,298 | 2,181,743 | 692,794 | 12,528,344 | 12,107 | 7,930 | 477 | 454 | ..... | 3,246 | 1,755 | 14 | |
| 392,967 | 213,890 | 2,107,064 | 24,495 | 90,580 | 40,095 | 1,215,946 | 340,559 | 5,588,748 | 5,260 | 3,589 | 180 | 12 | ..... | 1,529 | 749 | 15 | |
| 1,213,080 | 874,072 | 7,895,989 | 173,575 | 392,325 | 226,940 | 3,864,746 | 1,078,172 | 20,606,032 | 14,833 | 10,960 | 621 | 87 | ..... | 3,165 | 3,814 | 16 | |
| 477,931 | 458,924 | 3,789,179 | 26,372 | 116,127 | 93,927 | 1,651,581 | 540,895 | 9,416,373 | 7,151 | 4,679 | 5 | 44 | ..... | 2,423 | 1,383 | 17 | |
| 217,736 | 144,337 | 1,328,275 | 3,141 | 67,286 | 35,392 | 607,329 | 259,289 | 3,650,118 | 4,071 | 3,023 | 268 | 50 | ..... | 739 | 339 | 18 | |
| 1,440,537 | 1,023,739 | 10,583,132 | 47,357 | 687,684 | 341,749 | 5,061,791 | 1,888,198 | 27,390,421 | 22,112 | 16,850 | 221 | 260 | ..... | 4,781 | 6,433 | 19 | |
| 282,947 | 251,778 | 2,415,506 | 8,884 | 154,550 | 61,396 | 1,038,194 | 399,514 | 6,037,088 | 4,766 | 3,030 | 25 | 10 | ..... | 1,101 | 1,007 | 20 | |
| 193,675 | 164,276 | 1,372,508 | 12,128 | 231,804 | 58,121 | 603,582 | 297,823 | 3,904,658 | 3,108 | 2,406 | ..... | 5 | ..... | 757 | ..... | 21 | |
| 552,291 | 382,397 | 3,909,453 | 17,624 | 160,661 | 91,051 | 1,972,108 | 572,105 | 9,438,493 | 8,243 | 7,406 | 34 | 132 | ..... | 671 | 5,027 | 22 | |
| 38,128 | 19,464 | 277,297 | 1,233 | 14,596 | 10,961 | 175,959 | 79,276 | 844,433 | 505 | 167 | ..... | 6 | ..... | 333 | 12 | 23 | |
| 39,186 | 23,722 | 348,306 | 3,278 | 11,118 | 11,790 | 172,517 | 80,983 | 940,179 | 702 | 265 | 83 | ..... | ..... | 354 | 115 | 24 | |
| 219,892 | 104,832 | 979,217 | 3,300 | 61,823 | 24,358 | 461,617 | 186,142 | 2,823,234 | 1,942 | 1,394 | 10 | 7 | ..... | 531 | 222 | 25 | |
| 114,508 | 77,270 | 1,280,845 | 910 | 53,132 | 84,063 | 637,814 | 274,245 | 3,353,336 | 2,785 | 1,682 | 69 | 100 | ..... | 1,034 | 50 | 26 | |
| 1,158,508 | 815,997 | 6,731,272 | 20,131 | 282,769 | 264,279 | 3,165,305 | 1,025,633 | 18,211,883 | 13,765 | 10,648 | 80 | 205 | ..... | 2,832 | 2,200 | 27 | |
| 11,180 | 2,755 | 220,984 | ..... | 585 | 4,280 | 79,004 | 25,818 | 444,095 | 334 | 320 | ..... | ..... | ..... | 14 | ..... | 28 | |
| 123,316 | 163,191 | 908,450 | 1,514 | 24,367 | 23,533 | 552,892 | 137,341 | 2,640,686 | 2,341 | 2,077 | ..... | ..... | ..... | 264 | 316 | 29 | |
| 193,571 | 120,897 | 1,049,580 | 4,882 | 32,320 | 37,402 | 367,529 | 113,507 | 2,559,210 | 1,633 | 1,500 | ..... | ..... | ..... | 43 | 987 | 30 | |
| 225,013 | 100,454 | 1,110,703 | 200 | 43,856 | 46,102 | 485,642 | 172,877 | 3,009,750 | 1,989 | 1,238 | ..... | ..... | ..... | 751 | 13 | 31 | |
| 78,005 | 38,582 | 616,267 | ..... | 24,188 | 16,896 | 251,678 | 75,718 | 1,775,349 | 1,437 | 1,057 | ..... | 105 | ..... | 295 | 160 | 32 | |
| 138,505 | 68,127 | 755,186 | 950 | 39,054 | 21,583 | 317,814 | 144,226 | 2,252,100 | 1,354 | 857 | 75 | 85 | ..... | 337 | 95 | 33 | |
| 58,258 | 33,725 | 316,689 | 5,105 | 21,378 | 5,838 | 107,749 | 60,287 | 833,801 | 654 | 340 | ..... | ..... | ..... | 314 | 40 | 34 | |
| 223,830 | 202,343 | 1,205,256 | 1,837 | 58,061 | 73,550 | 689,745 | 183,150 | 3,210,832 | 2,696 | 1,897 | ..... | 2 | ..... | 667 | 245 | 35 | |
| 106,224 | 85,923 | 438,157 | 5,643 | 33,931 | 35,093 | 262,252 | 103,209 | 1,480,051 | 1,437 | 1,272 | 6 | 13 | ..... | 147 | 348 | 36 | |
| 572,990 | 531,192 | 3,560,610 | 32,870 | 135,950 | 115,675 | 1,801,873 | 574,384 | 9,687,736 | 12,874 | 6,713 | 612 | 37 | ..... | 5,512 | 1,544 | 37 | |
| 176,861 | 59,265 | 1,153,377 | 601 | 11,185 | 40,187 | 613,744 | 175,276 | 2,905,340 | 5,762 | 2,329 | 392 | 35 | ..... | 3,009 | 256 | 38 | |
| 192,738 | 242,193 | 1,292,035 | 2,662 | 60,635 | 42,749 | 621,221 | 216,413 | 3,639,620 | 3,621 | 2,688 | 180 | ..... | ..... | 753 | 609 | 39 | |
| 158,882 | 196,395 | 771,293 | 3,199 | 55,764 | 22,676 | 341,777 | 121,744 | 2,196,118 | 1,675 | 1,246 | 40 | 2 | ..... | 387 | 339 | 40 | |
| 44,509 | 33,339 | 319,905 | 26,918 | 8,376 | 10,063 | 225,151 | 60,951 | 946,670 | 1,816 | 450 | ..... | ..... | ..... | 1,366 | 289 | 41 | |
| 914,166 | 830,299 | 6,067,983 | 26,668 | 205,284 | 253,737 | 2,773,975 | 996,246 | 16,553,772 | 10,945 | 7,544 | 119 | 307 | ..... | 2,975 | 1,017 | 42 | |
| 60,492 | 26,954 | 519,125 | ..... | 26,266 | 24,870 | 238,573 | 101,046 | 1,308,024 | 1,058 | 708 | ..... | 54 | ..... | 205 | 150 | 43 | |
| 177,800 | 151,637 | 788,575 | 2,093 | 22,282 | 45,530 | 365,909 | 119,304 | 2,349,774 | 1,778 | 1,419 | ..... | ..... | ..... | 359 | 12 | 44 | |
| 212,385 | 164,488 | 1,330,751 | 250 | 45,656 | 33,684 | 628,705 | 246,387 | 3,561,059 | 2,191 | 1,267 | 29 | 78 | ..... | 817 | 42 | 45 | |
| 463,489 | 487,220 | 3,399,532 | 23,515 | 111,080 | 150,233 | 1,540,788 | 529,609 | 9,249,915 | 5,918 | 4,150 | 90 | 175 | ..... | 1,503 | 813 | 46 | |
| 556,709 | 468,133 | 4,577,956 | 9,413 | 165,547 | 168,141 | 1,749,091 | 707,985 | 11,330,923 | 8,981 | 6,532 | 302 | 65 | ..... | 2,082 | 1,458 | 47 | |
| 96,907 | 66,984 | 839,771 | 100 | 25,950 | 25,841 | 343,189 | 130,000 | 1,894,356 | 1,463 | 1,082 | ..... | 7 | ..... | 374 | 4 | 48 | |
| 34,145 | 25,275 | 487,635 | 2,565 | 10,339 | 10,515 | 216,552 | 106,029 | 1,179,846 | 756 | 290 | ..... | 6 | ..... | 460 | 114 | 49 | |
| 29,270 | 10,020 | 300,815 | ..... | 20,421 | 8,265 | 95,109 | 53,384 | 763,953 | 719 | 504 | ..... | 0 | ..... | 209 | 66 | 50 | |
| 224,720 | 217,404 | 1,437,628 | 2,210 | 74,870 | 57,715 | 510,599 | 177,938 | 3,750,840 | 2,925 | 2,114 | 290 | 40 | ..... | 481 | ..... | 51 | |
| 12,190 | 13,920 | 171,506 | 2,850 | 6,792 | 5,130 | 68,473 | 37,130 | 432,279 | 345 | 208 | ..... | 6 | ..... | 131 | 10 | 52 | |
| 51,948 | 20,800 | 430,605 | 1,688 | 12,080 | 10,853 | 170,794 | 82,946 | 987,438 | 685 | 502 | ..... | ..... | ..... | 183 | 10 | 53 | |
| 95,036 | 104,244 | 767,711 | ..... | 11,364 | 46,618 | 294,834 | 84,505 | 1,973,166 | 1,865 | 1,667 | ..... | ..... | ..... | 198 | 1,254 | 54 | |
| 12,484 | 3,396 | 142,285 | ..... | 3,731 | 3,204 | 49,541 | 36,017 | 340,036 | 223 | 165 | 12 | ..... | ..... | 46 | ..... | 55 | |
| 1,136,857 | 1,736,811 | 14,468,057 | 170,210 | 432,013 | 416,571 | 4,927,678 | 1,736,780 | 33,879,304 | 22,893 | 13,480 | 518 | 402 | 15 | 8,328 | 1,763 | 56 | |
| 318,044 | 107,768 | 3,387,500 | 10,728 | 149,724 | 102,847 | 1,039,526 | 319,523 | 7,336,715 | 4,932 | 3,480 | 198 | 2 | ..... | 1,252 | 428 | 57 | |
| 165,571 | 71,751 | 1,778,645 | 6,064 | 35,144 | 33,145 | 516,112 | 207,201 | 3,629,933 | 2,334 | 1,951 | ..... | 20 | ..... | 453 | 114 | 58 | |
| 653,242 | 1,467,292 | 9,301,912 | 152,818 | 247,145 | 280,579 | 3,372,040 | 1,210,056 | 22,912,606 | 15,537 | 8,139 | 320 | 440 | 15 | 6,623 | 1,221 | 59 | |

* Same number reported for one or more other months.

DYEING AND CLEANING.

General character of the industry.—Dyeing and cleaning is not considered a manufacturing industry, and statistics relating thereto were not gathered at prior censuses, but at the census of 1919 reports were secured for establishments operated by mechanical power, which, as in the laundry industry, has been taken as a basis for segregating the establishments operated on a factory basis from the numerous neighborhood establishments of a hand character, engaged in cleaning and pressing, and to some extent in dyeing. The industry is not to be confused with "Dyeing and finishing textiles," which embraces establishments engaged in the bleaching, dyeing, and mercerizing of yarns and fabrics, an important branch of the great textile industry. These statistics are not included in the report for the manufacturing industries.

Summary.—Table 1 presents the general statistics for 1919, in harmony with Table 1 of the report on power laundries, which gives comparative statistics for that industry for prior years.

Summary, by states.—Statistics are presented in Table 2 for the chief factors, number of establishments, number of persons engaged in the industry, and the amount received for work done, by geographic divisions and states, together with the urban population. The states are grouped by geographic divisions so as to bring together those operating under similar industrial conditions. Every state is represented by a sufficient number of establishments to permit of the statistics being reported separately, with the exception of Nevada, which has been combined with Utah.

Persons engaged in the industry.—The age classification of the average number of wage earners in Table 3 and other tables is an estimate obtained by the method described in the "Explanation of terms," page 2. Detailed figures for states will be found in Table 12.

Wage earners, by months.—The statistics for wage earners in Table 4 are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the year. For the country as a whole, females constituted 43.6 per cent of the average number of wage earners and males 56.4 per cent.

Prevailing hours of labor.—A notable feature of Table 5 is the relatively large percentage of wage earners in establishments where the prevailing hours of labor per week were 44 and under, chiefly in the Middle Atlantic and East North Central states. Of the total number of wage earners, 46.5 per cent were in the groups of 48 hours per week or less. Only 5.6 per cent are found in the groups 60 hours per week and over, and the higher groups are most pro-

nounced in the states of the East South Central division.

Size of establishments, by average number of wage earners.—The industry is one of relatively small units, as shown by Table 6, 60 per cent of the establishments employing fewer than 6 wage earners, or no wage earners. The table shows only 9 establishments employing more than 100 wage earners.

Size of establishments, by amount received for work done.—A classification as to size, on the basis of income, or amount received for work done, is given in Table 7. The average income per establishment for all classes was approximately \$25,000, and the industry includes comparatively few large establishments, only 4 reporting income for work done in excess of \$500,000.

Character of ownership.—Table 8 shows that in most states the bulk of the business, whether measured by number of wage earners or by income, is under corporate ownership, although in a number of states there are no establishments under corporate ownership, and in some of the others the income and number of employees in individually owned plants exceed those operated by corporations.

Statistics for cities.—Table 9 gives the statistics for cities of 10,000 inhabitants or more reporting 3 or more establishments. The table also carries the figures for the respective states. States not represented by cities are not included.

Number and horsepower of types of prime movers.—Table 10 gives the total horsepower reported for the industry. The industry is, relatively, a large consumer of electric power, 71 per cent of the total horsepower being utilized in the form of electrical energy, either purchased or generated.

Fuel consumed.—Table 11 shows the consumption of fuel, by kinds and by states. The figures for gas include both manufactured and natural gas.

Detailed statement, by geographic divisions and states.—Table 12 presents the statistics in detail for all states, grouped by geographic divisions.

TABLE 1.—SUMMARY, 1919.

| | Number or amount. |
|------------------------------------|-------------------|
| Number of establishments..... | 2,156 |
| Persons engaged..... | 24,934 |
| Proprietors and firm members..... | 2,285 |
| Salaried employees..... | 3,842 |
| Wage earners (average number)..... | 18,807 |
| Primary horsepower..... | 23,946 |
| Capital..... | \$28,734,049 |
| Salaries and wages..... | 23,520,607 |
| Salaries..... | 5,275,883 |
| Wages..... | 18,245,024 |
| Paid for contract work..... | 460,660 |
| Rent and taxes..... | 2,231,379 |
| Cost of materials..... | 11,801,549 |
| Amount received for work done..... | 54,421,305 |

DYEING AND CLEANING.

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TABLE 2.—URBAN POPULATION AND THE DYEING AND CLEANING INDUSTRY, BY DIVISIONS AND STATES, WITH STATE RANK: 1919.

| DIVISION AND STATE. | URBAN POPULATION. ¹ | | DYEING AND CLEANING. | | | | | DIVISION AND STATE. | URBAN POPULATION. ¹ | | DYEING AND CLEANING. | | | | |
|-------------------------|--------------------------------|-------------|---------------------------|--|--------------------------------|-------------|---------------------------|---------------------|--------------------------------|-----|---------------------------|--|--------------------------------|--|--|
| | | | Number of establishments. | Number of persons engaged in the industry. | Amount received for work done. | | | | | | Number of establishments. | Number of persons engaged in the industry. | Amount received for work done. | | |
| | Number. | State rank. | | | Amount. | State rank. | Amount. | | State rank. | | | | | | |
| UNITED STATES..... | 47,119,807 | ..... | 2,156 | 24,934 | \$54,421,805 | ..... | SOUTH ATLANTIC—Con. | | | | | | | | |
| NEW ENGLAND..... | 5,447,404 | ..... | 102 | 1,542 | 3,091,562 | ..... | District of Columbia..... | 443,056 | 25 | 6 | 103 | \$236,761 | 34 | | |
| Maine..... | 252,109 | 33 | 12 | 126 | 241,671 | 33 | Virginia..... | 505,451 | 18 | 30 | 371 | 698,898 | 22 | | |
| New Hampshire..... | 214,104 | 34 | 8 | 62 | 111,359 | 43 | West Virginia..... | 273,834 | 31 | 37 | 265 | 560,139 | 25 | | |
| Vermont..... | 75,095 | 40 | 6 | 25 | 42,883 | 47 | North Carolina..... | 352,770 | 27 | 21 | 197 | 321,586 | 29 | | |
| Massachusetts..... | 3,247,063 | 5 | 45 | 894 | 2,252,321 | 7 | South Carolina..... | 201,740 | 34 | 18 | 105 | 152,458 | 40 | | |
| Rhode Island..... | 532,408 | 20 | 7 | 174 | 388,639 | 27 | Georgia..... | 553,656 | 19 | 12 | 169 | 320,963 | 30 | | |
| Connecticut..... | 1,126,625 | 12 | 24 | 261 | 654,689 | 23 | Florida..... | 267,832 | 32 | 10 | 88 | 160,834 | 39 | | |
| MIDDLE ATLANTIC..... | 16,151,031 | ..... | 340 | 4,746 | 11,248,444 | ..... | EAST SOUTH CENTRAL..... | 1,489,738 | ..... | 124 | 1,258 | 2,230,520 | ..... |  |  |
| New York..... | 8,230,190 | 1 | 159 | 2,428 | 5,956,122 | 1 | Kentucky..... | 482,428 | 22 | 41 | 360 | 720,341 | 21 | | |
| New Jersey..... | 2,172,199 | 6 | 39 | 536 | 1,408,447 | 11 | Tennessee..... | 487,168 | 23 | 32 | 511 | 894,743 | 18 | | |
| Pennsylvania..... | 4,748,642 | 2 | 142 | 1,782 | 3,883,875 | 5 | Alabama..... | 394,859 | 25 | 27 | 282 | 487,293 | 45 | | |
| EAST NORTH CENTRAL..... | 11,600,805 | ..... | 548 | 6,584 | 14,957,484 | ..... | Mississippi..... | 145,283 | 37 | 24 | 105 | 126,148 | 42 | | |
| Ohio..... | 3,326,337 | 4 | 173 | 2,118 | 4,657,055 | 3 | WEST SOUTH CENTRAL..... | 2,193,317 | ..... | 183 | 1,522 | 3,356,379 | ..... |  |  |
| Indiana..... | 1,273,203 | 10 | 101 | 825 | 1,588,752 | 10 | Arkansas..... | 167,482 | 36 | 10 | 101 | 215,912 | 35 | | |
| Illinois..... | 3,944,757 | 3 | 159 | 2,110 | 5,298,935 | 2 | Louisiana..... | 508,541 | 21 | 26 | 220 | 384,776 | 28 | | |
| Michigan..... | 2,050,776 | 7 | 73 | 895 | 2,043,569 | 8 | Oklahoma..... | 351,774 | 28 | 50 | 363 | 844,692 | 19 | | |
| Wisconsin..... | 1,005,732 | 13 | 42 | 632 | 1,369,183 | 12 | Texas..... | 1,105,520 | 11 | 97 | 898 | 1,910,999 | 6 | | |
| WEST NORTH CENTRAL..... | 3,788,495 | ..... | 371 | 3,511 | 7,502,266 | ..... | MOUNTAIN..... | 858,868 | ..... | 113 | 866 | 1,847,235 | ..... |  |  |
| Minnesota..... | 876,532 | 14 | 46 | 629 | 1,368,915 | 13 | Montana..... | 118,183 | 38 | 23 | 125 | 312,189 | 31 | | |
| Iowa..... | 636,695 | 17 | 70 | 584 | 1,333,047 | 14 | Idaho..... | 53,569 | 43 | 4 | 50 | 130,507 | 41 | | |
| Missouri..... | 1,398,187 | 9 | 125 | 1,414 | 2,827,687 | 6 | Wyoming..... | 35,062 | 45 | 12 | 39 | 110,366 | 44 | | |
| North Dakota..... | 47,124 | 44 | 14 | 90 | 201,086 | 36 | Colorado..... | 382,528 | 26 | 42 | 346 | 763,058 | 20 | | |
| South Dakota..... | 67,031 | 42 | 15 | 78 | 178,570 | 38 | New Mexico..... | 15,370 | 46 | 4 | 17 | 29,373 | 48 | | |
| Nebraska..... | 313,624 | 29 | 41 | 415 | 983,987 | 17 | Arizona..... | 69,714 | 41 | 15 | 104 | 200,055 | 37 | | |
| Kansas..... | 449,302 | 24 | 60 | 301 | 608,974 | 24 | Utah and Nevada..... | 184,432 | ..... | 13 | 179 | 311,187 | ..... |  |  |
| SOUTH ATLANTIC..... | 3,590,017 | ..... | 146 | 1,959 | 3,543,316 | ..... | PACIFIC..... | 3,000,142 | ..... | 229 | 2,946 | 6,044,099 | ..... |  |  |
| Delaware..... | 111,248 | 39 | 3 | 33 | 73,834 | 46 | Washington..... | 656,681 | 16 | 46 | 549 | 1,127,528 | 15 | | |
| Maryland..... | 820,430 | 15 | 9 | 598 | 1,011,843 | 16 | Oregon..... | 303,248 | 30 | 23 | 274 | 534,282 | 26 | | |
| | | | | | | | California..... | 2,040,213 | 8 | 160 | 2,123 | 4,882,289 | 4 | | |

¹ Population of incorporated places (municipalities) as of July 1, 1920.

* Combined to avoid disclosure.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919.

TABLE 3. PERSONS EMPLOYED

| CLASS. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | | CLASS. | Total. | Male. | Fe- male. | PER CENT OF TOTAL. | |
|---|--------|--------|--------------|-----------------------|--------------|--|--------|--------|--------------|-----------------------|--------------|
| | | | | Male. | Fe- male. | | | | | Male. | Fe- male. |
| All classes | 24,934 | 14,482 | 10,452 | 58.3 | 41.9 | Clerks and other subordinate salaried employees | 2,570 | 619 | 1,951 | 24.1 | 75.9 |
| Proprietors and officials | 3,557 | 3,249 | 308 | 91.3 | 8.7 | Wage earners (average number) | 18,807 | 10,614 | 8,193 | 56.4 | 43.6 |
| Proprietors and firm members | 2,285 | 2,154 | 131 | 94.3 | 5.7 | 16 years of age and over | 18,681 | 10,509 | 8,172 | 56.3 | 43.7 |
| Salaried officers of corporations | 631 | 585 | 46 | 92.7 | 7.3 | Under 16 years of age | 126 | 105 | 21 | 83.3 | 16.7 |
| Superintendents and managers | 641 | 510 | 131 | 79.6 | 20.4 | | | | | | |

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR STATES:¹ 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

| STATE. | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. | | | | | | | | | | | | Per cent minimum is of maximum. |
|--------------------|--------------------------------------|---|--------------|--------|--------|--------|--------|--------|---------|------------|---------------|-----------|-----------|---------------------------------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | |
| | | | | | | | | | | | | | | |
| United States..... | 18,807 | 16,750 | 16,839 | 17,727 | 18,976 | 19,095 | 19,248 | 19,130 | 19,241 | 19,807 | 20,156 | 19,748 | 18,996 | 83.1 |
| Males..... | 10,614 | 8,444 | 8,564 | 9,967 | 10,622 | 10,683 | 10,840 | 10,791 | 10,901 | 11,139 | 11,327 | 11,171 | 10,822 | 84.3 |
| Females..... | 8,193 | 7,206 | 7,275 | 7,760 | 8,354 | 8,383 | 8,408 | 8,339 | 8,340 | 8,671 | 8,829 | 8,577 | 8,174 | 81.0 |
| California..... | 1,687 | 1,586 | 1,624 | 1,631 | 1,679 | 1,672 | 1,674 | 1,701 | 1,697 | 1,746 | 1,756 | 1,750 | 1,728 | 90.3 |
| Males..... | 828 | 781 | 812 | 800 | 812 | 810 | 820 | 827 | 835 | 844 | 881 | 858 | 856 | 88.6 |
| Females..... | 859 | 805 | 812 | 831 | 867 | 862 | 854 | 874 | 862 | 902 | 875 | 892 | 872 | 89.2 |
| Illinois..... | 1,633 | 1,474 | 1,472 | 1,552 | 1,660 | 1,691 | 1,691 | 1,662 | 1,640 | 1,664 | 1,744 | 1,704 | 1,642 | 84.4 |
| Males..... | 936 | 845 | 842 | 896 | 944 | 959 | 958 | 948 | 950 | 945 | 1,007 | 985 | 953 | 83.6 |
| Females..... | 697 | 629 | 630 | 656 | 716 | 732 | 733 | 714 | 690 | 719 | 737 | 719 | 689 | 85.5 |
| Indiana..... | 599 | 545 | 545 | 572 | 612 | 609 | 606 | 609 | 612 | 611 | 627 | 622 | 618 | 86.9 |
| Males..... | 359 | 329 | 325 | 340 | 366 | 365 | 360 | 363 | 366 | 369 | 377 | 374 | 374 | 86.2 |
| Females..... | 240 | 216 | 220 | 232 | 246 | 244 | 246 | 246 | 246 | 242 | 250 | 248 | 244 | 86.4 |
| Massachusetts..... | 723 | 585 | 588 | 638 | 742 | 758 | 779 | 761 | 745 | 777 | 805 | 774 | 724 | 72.7 |
| Males..... | 407 | 321 | 328 | 346 | 408 | 424 | 448 | 435 | 435 | 440 | 454 | 436 | 409 | 70.7 |
| Females..... | 316 | 264 | 260 | 292 | 334 | 334 | 331 | 326 | 310 | 337 | 351 | 338 | 315 | 74.1 |

¹ States with 200 or more wage earners; states with 500 or more wage earners distributed by sex.

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TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, BY DIVISIONS AND STATES: 1919.

| DIVISION AND STATE. | TOTAL. | | ESTABLISHMENTS EMPLOYING— | | | | | | | | | | |
|---------------------------|-------------------|---------------------------------|---------------------------|-------------------|---------------------------------|-------------------|----------------------------------|-------------------|-----------------------------------|-------------------|------------------------------------|-------------------|------------------------|
| | | | No wage earners. | | 1 to 5 wage earners, inclusive. | | 6 to 20 wage earners, inclusive. | | 21 to 50 wage earners, inclusive. | | 51 to 100 wage earners, inclusive. | | Over 100 wage earners. |
| | Estab-lish-ments. | Wage earners. (average number). | Estab-lish-ments. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. | Estab-lish-ments. | Wage earners. |
| UNITED STATES..... | 2,156 | 18,807 | 113 | 1,171 | 3,107 | 704 | 7,358 | 125 | 4,227 | 34 | 2,202 | 9 | 1,793 |
| NEW ENGLAND..... | 102 | 1,185 | 5 | 50 | 142 | 33 | 364 | 10 | 330 | 3 | 173 | 1 | 176 |
| Maine..... | 12 | 94 | 1 | 5 | 9 | 5 | 38 | 1 | 47 | | | | |
| New Hampshire..... | 8 | 46 | | 4 | 10 | 4 | 36 | | | | | | |
| Vermont..... | 6 | 16 | 1 | 6 | 16 | | | | | | | | |
| Massachusetts..... | 45 | 723 | 3 | 19 | 54 | 13 | 170 | 7 | 202 | 2 | 121 | 1 | 176 |
| Rhode Island..... | 7 | 121 | | 4 | 20 | 1 | 20 | 2 | 81 | | | | |
| Connecticut..... | 24 | 185 | | 13 | 33 | 10 | 100 | | | 1 | 52 | | |
| MIDDLE ATLANTIC..... | 340 | 3,568 | 19 | 172 | 449 | 109 | 1,234 | 32 | 997 | 5 | 337 | 3 | 551 |
| New York..... | 159 | 1,793 | 13 | 74 | 175 | 49 | 582 | 19 | 572 | 2 | 113 | 2 | 351 |
| New Jersey..... | 39 | 455 | 1 | 20 | 63 | 11 | 127 | 6 | 199 | 1 | 66 | | |
| Pennsylvania..... | 142 | 1,320 | 5 | 78 | 211 | 49 | 525 | 7 | 226 | 2 | 158 | 1 | 200 |
| EAST NORTH CENTRAL..... | 548 | 4,982 | 32 | 273 | 755 | 193 | 2,009 | 36 | 1,083 | 12 | 780 | 2 | 355 |
| Ohio..... | 173 | 1,594 | 14 | 92 | 249 | 54 | 536 | 8 | 269 | 3 | 185 | 2 | 355 |
| Indiana..... | 101 | 599 | 5 | 67 | 175 | 24 | 244 | 4 | 120 | 1 | 60 | | |
| Illinois..... | 150 | 1,633 | 9 | 62 | 185 | 68 | 735 | 16 | 450 | 4 | 263 | | |
| Michigan..... | 73 | 681 | 4 | 29 | 90 | 34 | 340 | 4 | 132 | 2 | 119 | | |
| Wisconsin..... | 42 | 475 | | 23 | 56 | 13 | 154 | 4 | 112 | 2 | 153 | | |
| WEST NORTH CENTRAL..... | 371 | 2,572 | 20 | 236 | 650 | 95 | 932 | 12 | 379 | 7 | 425 | 1 | 186 |
| Minnesota..... | 46 | 482 | 1 | 22 | 66 | 19 | 198 | 1 | 31 | 3 | 187 | | |
| Iowa..... | 70 | 405 | 2 | 46 | 114 | 19 | 197 | 3 | 94 | | | | |
| Missouri..... | 125 | 1,062 | 6 | 79 | 222 | 30 | 304 | 6 | 181 | 3 | 169 | 1 | 186 |
| North Dakota..... | 14 | 64 | 2 | 9 | 31 | 3 | 33 | | | | | | |
| South Dakota..... | 15 | 57 | | 12 | 30 | 3 | 27 | | | | | | |
| Nebraska..... | 41 | 299 | 1 | 29 | 89 | 8 | 68 | 2 | 73 | 1 | 69 | | |
| Kansas..... | 60 | 203 | 8 | 39 | 98 | 13 | 105 | | | | | | |
| SOUTH ATLANTIC..... | 146 | 1,494 | 5 | 71 | 200 | 58 | 550 | 11 | 688 | 1 | 56 | | |
| Delaware..... | 3 | 23 | | 2 | 10 | 1 | 13 | | | | | | |
| Maryland..... | 9 | 441 | | 2 | 5 | 6 | 57 | 1 | 379 | | | | |
| District of Columbia..... | 6 | 94 | | 3 | 13 | 2 | 25 | | | 1 | 56 | | |
| Virginia..... | 30 | 281 | | 9 | 25 | 18 | 175 | 3 | 81 | | | | |
| West Virginia..... | 37 | 232 | 3 | 20 | 53 | 12 | 108 | 2 | 71 | | | | |
| North Carolina..... | 21 | 151 | | 14 | 38 | 5 | 42 | 2 | 71 | | | | |
| South Carolina..... | 18 | 77 | 1 | 13 | 30 | 3 | 25 | 1 | 22 | | | | |
| Georgia..... | 12 | 129 | | 5 | 14 | 5 | 51 | 2 | 64 | | | | |
| Florida..... | 10 | 66 | 1 | 8 | 12 | 6 | 54 | | | | | | |
| EAST SOUTH CENTRAL..... | 124 | 937 | 1 | 80 | 201 | 35 | 372 | 6 | 169 | 2 | 195 | | |
| Kentucky..... | 41 | 259 | | 30 | 73 | 10 | 88 | | | 1 | 98 | | |
| Tennessee..... | 32 | 390 | | 18 | 58 | 8 | 93 | 5 | 142 | 1 | 97 | | |
| Alabama..... | 27 | 220 | 1 | 10 | 28 | 15 | 165 | 1 | 27 | | | | |
| Mississippi..... | 24 | 68 | | 22 | 42 | 2 | 26 | | | | | | |
| WEST SOUTH CENTRAL..... | 183 | 1,102 | 7 | 112 | 296 | 58 | 605 | 5 | 146 | 1 | 55 | | |
| Arkansas..... | 10 | 75 | | 3 | 7 | 7 | 68 | | | | | | |
| Louisiana..... | 26 | 158 | 1 | 16 | 38 | 7 | 77 | 2 | 43 | | | | |
| Oklahoma..... | 50 | 255 | 4 | 33 | 107 | 12 | 110 | 1 | 38 | | | | |
| Texas..... | 97 | 614 | 2 | 60 | 144 | 32 | 350 | 2 | 65 | 1 | 55 | | |
| MOUNTAIN..... | 118 | 636 | 8 | 62 | 169 | 40 | 366 | 3 | 101 | | | | |
| Montana..... | 23 | 94 | 1 | 10 | 42 | 6 | 52 | | | | | | |
| Idaho..... | 4 | 44 | | 3 | 11 | 1 | 33 | | | | | | |
| Wyoming..... | 12 | 26 | 3 | 8 | 20 | 1 | 6 | | | | | | |
| Colorado..... | 42 | 252 | 3 | 18 | 46 | 20 | 180 | 1 | 26 | | | | |
| New Mexico..... | 4 | 12 | | 4 | 12 | | | | | | | | |
| Arizona..... | 15 | 79 | | 7 | 22 | 8 | 57 | | | | | | |
| Utah and Nevada..... | 13 | 129 | 1 | 6 | 16 | 4 | 38 | 2 | 75 | | | | |
| PACIFIC..... | 229 | 2,331 | 16 | 115 | 305 | 83 | 926 | 10 | 334 | 3 | 241 | 2 | 525 |
| Washington..... | 40 | 437 | 4 | 24 | 69 | 14 | 157 | 3 | 119 | 1 | 92 | | |
| Oregon..... | 23 | 207 | | 15 | 34 | 6 | 64 | 1 | 38 | 1 | 71 | | |
| California..... | 160 | 1,687 | 12 | 76 | 202 | 63 | 705 | 6 | 177 | 1 | 78 | 2 | 525 |

TABLE 7.—SIZE OF ESTABLISHMENTS, BY AMOUNT RECEIVED FOR WORK DONE: 1919, 1914, AND 1909.

| VALUE OF PRODUCT. | Number of estab-lishments. | Average number of wage earners. | Amount received for work done. | PER CENT DISTRIBUTION. | | |
|-----------------------------|----------------------------|---------------------------------|--------------------------------|----------------------------|---------------------------------|--------------------------------|
| | | | | Number of estab-lishments. | Average number of wage earners. | Amount received for work done. |
| All classes..... | 2,156 | 18,807 | \$54,421,305 | 100.0 | 100.0 | 100.0 |
| Less than \$5,000..... | 408 | 399 | 1,238,563 | 19.9 | 2.1 | 2.3 |
| \$5,000 to \$20,000..... | 1,014 | 3,904 | 11,272,973 | 47.0 | 20.8 | 20.7 |
| \$20,000 to \$100,000..... | 661 | 9,141 | 27,130,718 | 30.7 | 48.6 | 49.9 |
| \$100,000 to \$500,000..... | 69 | 4,421 | 12,098,790 | 3.2 | 23.5 | 22.2 |
| \$500,000 and over..... | 4 | 942 | 2,683,261 | 0.2 | 5.0 | 4.9 |

MANUFACTURES.

TABLE 8.—CHARACTER OF OWNERSHIP, BY DIVISIONS AND STATES: 1919.

| DIVISION AND STATE. | NUMBER OF ESTABLISHMENTS OWNED BY— | | | AVERAGE NUMBER OF WAGE EARNERS. | | | | | | | | | AMOUNT RECEIVED FOR WORK DONE. | | | | | | | | |
|---------------------------|------------------------------------|-----------------|--------------|---------------------------------|-----------------------------|-----------------|--------------|--------------------|-----------------|--------------|--------------|-----------------------------|--------------------------------|--------------|--------------------|-----------------|--------------|--|--|--|--|
| | | | | Total. | In establishments owned by— | | | Per cent of total. | | | Total. | In establishments owned by— | | | Per cent of total. | | | | | | |
| | Indi-vid-u-als. | Cor-pora-tions. | All oth-ers. | | Indi-vid-u-als. | Cor-pora-tions. | All oth-ers. | Indi-vid-u-als. | Cor-pora-tions. | All oth-ers. | | Indi-vid-u-als. | Cor-pora-tions. | All oth-ers. | Indi-vid-u-als. | Cor-pora-tions. | All oth-ers. | | | | |
| UNITED STATES..... | 1,230 | 432 | 494 | 18,807 | 6,448 | 9,782 | 2,577 | 34.3 | 52.0 | 13.7 | \$54,421,305 | \$18,639,034 | \$27,393,531 | \$8,388,740 | 34.2 | 50.3 | 15.4 | | | | |
| NEW ENGLAND..... | 50 | 30 | 22 | 1,185 | 277 | 772 | 130 | 23.4 | 65.1 | 11.5 | 3,691,502 | 859,857 | 2,379,814 | 451,891 | 23.3 | 64.5 | 12.2 | | | | |
| Maine..... | 8 | 3 | 1 | 94 | 134 | 60 | ..... | 63.8 | ..... | ..... | 241,671 | 110,724 | 130,947 | ..... | 54.2 | ..... | ..... |  |  |  |  |
| New Hampshire..... | 5 | ..... | 3 | 46 | 36 | ..... | 10 | 78.3 | ..... | 21.7 | 111,359 | 75,141 | ..... | 30,218 | 67.5 | ..... | 32.5 | | | | |
| Vermont..... | 3 | 1 | 2 | 16 | ..... | ..... | 16 | ..... | ..... | ..... | 42,883 | ..... | ..... | 42,883 | ..... | ..... | ..... |  |  |  |  |
| Massachusetts..... | 20 | 10 | 9 | 723 | 104 | 566 | 53 | 14.4 | 78.3 | 7.3 | 2,252,321 | 343,707 | 1,721,030 | 187,584 | 15.3 | 73.4 | 8.3 | | | | |
| Rhode Island..... | 4 | 2 | 1 | 121 | 63 | 158 | ..... | 52.1 | ..... | ..... | 388,639 | 158,752 | 1,229,887 | ..... | 40.8 | ..... | ..... |  |  |  |  |
| Connecticut..... | 10 | 8 | 6 | 185 | 41 | 105 | 39 | 22.2 | 56.8 | 21.1 | 654,689 | 177,023 | 337,913 | 139,763 | 27.0 | 51.6 | 21.3 | | | | |
| MIDDLE ATLANTIC..... | 183 | 84 | 73 | 3,568 | 1,063 | 2,029 | 476 | 29.8 | 50.9 | 13.3 | 11,248,444 | 3,310,577 | 6,385,195 | 1,552,672 | 29.4 | 56.8 | 13.8 | | | | |
| New York..... | 76 | 48 | 35 | 1,793 | 469 | 1,127 | 197 | 26.2 | 62.9 | 11.0 | 5,950,122 | 1,538,567 | 3,085,968 | 731,587 | 25.8 | 61.9 | 12.3 | | | | |
| New Jersey..... | 24 | 11 | 4 | 455 | 207 | 232 | 16 | 45.5 | 51.0 | 3.5 | 1,408,447 | 596,047 | 773,257 | 39,143 | 42.3 | 54.9 | 2.8 | | | | |
| Pennsylvania..... | 83 | 25 | 34 | 1,320 | 387 | 670 | 263 | 29.3 | 50.8 | 19.9 | 3,883,875 | 1,175,963 | 1,925,970 | 781,942 | 30.3 | 49.6 | 20.1 | | | | |
| EAST NORTH CENTRAL..... | 304 | 140 | 104 | 4,982 | 1,638 | 2,786 | 558 | 32.9 | 55.9 | 11.2 | 14,957,484 | 4,868,209 | 8,272,904 | 1,816,311 | 32.5 | 55.3 | 12.1 | | | | |
| Ohio..... | 91 | 45 | 37 | 1,594 | 351 | 1,059 | 184 | 22.0 | 66.4 | 11.5 | 4,657,055 | 1,031,063 | 3,030,969 | 595,023 | 22.1 | 65.1 | 12.8 | | | | |
| Indiana..... | 63 | 19 | 19 | 599 | 281 | 249 | 69 | 46.9 | 41.6 | 11.5 | 1,888,752 | 714,039 | 645,235 | 229,477 | 44.9 | 40.6 | 14.4 | | | | |
| Illinois..... | 80 | 54 | 25 | 1,633 | 505 | 979 | 149 | 30.9 | 60.0 | 9.1 | 5,298,935 | 1,638,496 | 3,137,710 | 522,739 | 30.9 | 59.2 | 9.9 | | | | |
| Michigan..... | 45 | 11 | 10 | 681 | 415 | 173 | 93 | 60.9 | 25.4 | 13.7 | 2,043,559 | 1,245,216 | 487,379 | 310,964 | 60.9 | 23.8 | 15.2 | | | | |
| Wisconsin..... | 24 | 11 | 7 | 475 | 86 | 326 | 63 | 18.1 | 68.6 | 13.3 | 1,309,183 | 239,405 | 971,670 | 158,108 | 17.5 | 71.0 | 11.6 | | | | |
| WEST NORTH CENTRAL..... | 221 | 62 | 88 | 2,572 | 938 | 1,263 | 371 | 36.5 | 49.1 | 14.4 | 7,502,206 | 2,836,919 | 3,481,706 | 1,183,041 | 37.8 | 46.4 | 15.8 | | | | |
| Minnesota..... | 26 | 10 | 10 | 482 | 107 | 199 | 116 | 34.6 | 41.3 | 24.1 | 1,308,915 | 481,089 | 609,535 | 278,291 | 35.1 | 44.5 | 20.3 | | | | |
| Iowa..... | 41 | 13 | 16 | 495 | 203 | 180 | 42 | 50.1 | 39.5 | 10.4 | 1,333,047 | 655,882 | 477,737 | 190,428 | 49.2 | 35.8 | 15.0 | | | | |
| Missouri..... | 71 | 30 | 24 | 1,062 | 253 | 730 | 79 | 23.8 | 68.7 | 7.4 | 2,827,087 | 758,656 | 1,813,089 | 255,342 | 26.8 | 64.1 | 9.0 | | | | |
| North Dakota..... | 9 | ..... | 6 | 64 | 30 | ..... | 34 | 46.9 | ..... | 53.1 | 201,086 | 101,446 | ..... | 99,640 | 50.4 | ..... | 49.6 | | | | |
| South Dakota..... | 9 | 1 | 5 | 57 | 41 | ..... | 16 | 71.9 | ..... | ..... | 178,870 | 130,888 | ..... | 47,682 | 73.3 | ..... | ..... |  |  |  |  |
| Nebraska..... | 26 | 7 | 8 | 299 | 109 | 103 | 27 | 36.5 | 54.5 | 9.0 | 988,987 | 338,539 | 558,166 | 87,282 | 34.4 | 56.7 | 8.9 | | | | |
| Kansas..... | 39 | 1 | 20 | 203 | 135 | ..... | 68 | 66.5 | ..... | ..... | 608,974 | 370,419 | ..... | 238,555 | 60.8 | ..... | ..... |  |  |  |  |
| SOUTH ATLANTIC..... | 90 | 32 | 24 | 1,494 | 554 | 807 | 133 | 37.1 | 54.0 | 8.9 | 3,543,316 | 1,249,214 | 1,914,392 | 379,710 | 35.3 | 54.0 | 10.7 | | | | |
| Delaware..... | 1 | 2 | ..... | 23 | ..... | 123 | ..... | ..... | ..... | ..... | 73,834 | ..... | 73,834 | ..... | 10.3 | ..... | ..... |  |  |  |  |
| Maryland..... | 5 | 4 | ..... | 441 | 35 | 406 | ..... | 7.0 | 92.1 | ..... | 1,011,843 | 104,109 | 907,734 | ..... | 10.3 | 89.7 | ..... |  |  |  |  |
| District of Columbia..... | 6 | ..... | ..... | 94 | 94 | ..... | ..... | 100.0 | ..... | ..... | 230,761 | 230,761 | ..... | ..... | 100.0 | ..... | ..... |  |  |  |  |
| Virginia..... | 17 | 10 | 3 | 281 | 108 | 150 | 23 | 38.4 | 53.4 | 8.2 | 698,898 | 233,389 | 400,314 | 65,195 | 33.4 | 57.3 | 9.3 | | | | |
| West Virginia..... | 23 | 8 | 6 | 232 | 84 | 118 | 30 | 36.2 | 50.9 | 12.9 | 500,139 | 185,129 | 272,674 | 102,436 | 33.1 | 48.7 | 18.3 | | | | |
| North Carolina..... | 10 | 3 | 8 | 151 | 50 | 74 | 27 | 33.1 | 49.0 | 17.9 | 321,580 | 107,450 | 145,183 | 98,953 | 33.4 | 45.1 | 21.4 | | | | |
| South Carolina..... | 13 | 2 | 3 | 77 | 51 | 26 | ..... | 66.2 | ..... | ..... | 152,458 | 79,738 | 172,720 | ..... | 52.3 | ..... | ..... |  |  |  |  |
| Georgia..... | 8 | 1 | 3 | 129 | 73 | ..... | 56 | 56.6 | ..... | ..... | 320,963 | 160,854 | ..... | 160,109 | 50.1 | ..... | ..... |  |  |  |  |
| Florida..... | 7 | 2 | 1 | 66 | 54 | 112 | ..... | 81.8 | 18.2 | ..... | 166,534 | 129,606 | 137,168 | ..... | 77.7 | 22.3 | ..... |  |  |  |  |
| EAST SOUTH CENTRAL..... | 69 | 28 | 27 | 937 | 277 | 488 | 172 | 29.6 | 52.1 | 18.4 | 2,230,520 | 631,786 | 1,182,205 | 416,529 | 28.3 | 53.0 | 13.7 | | | | |
| Kentucky..... | 24 | 9 | 8 | 259 | 75 | 154 | 30 | 29.0 | 59.5 | 11.6 | 720,341 | 204,792 | 422,896 | 92,653 | 28.4 | 58.7 | 12.9 | | | | |
| Tennessee..... | 12 | 13 | 7 | 390 | 74 | 248 | 68 | 19.0 | 63.6 | 17.4 | 894,743 | 179,908 | 556,566 | 158,269 | 20.1 | 62.2 | 17.7 | | | | |
| Alabama..... | 15 | 5 | 7 | 220 | 90 | 70 | 60 | 40.9 | 31.8 | 27.3 | 487,293 | 182,243 | 171,143 | 133,907 | 37.4 | 35.1 | 27.5 | | | | |
| Mississippi..... | 18 | 1 | 5 | 68 | 38 | ..... | 30 | 55.9 | ..... | ..... | 128,143 | 64,843 | ..... | 63,300 | 50.6 | ..... | ..... |  |  |  |  |
| WEST SOUTH CENTRAL..... | 108 | 20 | 55 | 1,102 | 581 | 238 | 283 | 52.7 | 21.6 | 25.7 | 3,356,379 | 1,695,847 | 639,626 | 1,020,906 | 50.5 | 19.1 | 30.4 | | | | |
| Arkansas..... | 4 | 1 | 5 | 75 | 29 | ..... | 46 | 38.7 | ..... | ..... | 215,012 | 77,643 | ..... | 138,269 | 36.0 | ..... | ..... |  |  |  |  |
| Louisiana..... | 17 | 7 | 2 | 158 | 50 | 108 | ..... | 31.6 | ..... | ..... | 384,776 | 117,801 | 266,915 | ..... | 30.6 | ..... | ..... |  |  |  |  |
| Oklahoma..... | 31 | 2 | 17 | 255 | 156 | ..... | 99 | 61.2 | ..... | ..... | 844,692 | 482,842 | ..... | 361,850 | 67.2 | ..... | ..... |  |  |  |  |
| Texas..... | 56 | 10 | 31 | 614 | 346 | 130 | 138 | 56.4 | 21.2 | 22.5 | 1,910,909 | 1,017,501 | 384,102 | 500,396 | 53.2 | 20.1 | 26.7 | | | | |
| MOUNTAIN..... | 71 | 7 | 35 | 636 | 328 | 205 | 103 | 51.6 | 32.2 | 16.2 | 1,847,235 | 995,693 | 543,683 | 307,859 | 53.9 | 29.4 | 16.7 | | | | |
| Montana..... | 16 | 2 | 5 | 94 | 61 | ..... | 33 | 64.9 | ..... | ..... | 312,189 | 200,949 | ..... | 111,240 | 64.4 | ..... | 35.6 | | | | |
| Idaho..... | 2 | ..... | 2 | 44 | 144 | ..... | ..... | ..... | ..... | ..... | 130,507 | 130,507 | ..... | ..... | ..... | ..... | ..... |  |  |  |  |
| Wyoming..... | 9 | 1 | 2 | 26 | 17 | ..... | 9 | 65.4 | ..... | ..... | 110,866 | 80,780 | ..... | 29,786 | 73.2 | ..... | ..... |  |  |  |  |
| Colorado..... | 23 | ..... | 19 | 262 | 106 | 102 | 44 | 42.1 | 40.5 | 17.5 | 753,058 | 330,914 | 305,434 | 116,710 | 43.9 | 40.6 | 15.5 | | | | |
| New Mexico..... | 3 | ..... | 1 | 12 | 112 | ..... | ..... | ..... | ..... | ..... | 29,873 | 29,873 | ..... | ..... | ..... | ..... | ..... |  |  |  |  |
| Arizona..... | 11 | 1 | 3 | 79 | 57 | ..... | 22 | 72.2 | ..... | ..... | 200,055 | 139,966 | ..... | 60,089 | 70.0 | ..... | ..... |  |  |  |  |
| Utah and Nevada..... | 7 | 3 | 3 | 129 | 42 | 79 | 8 | 32.6 | 61.2 | 6.2 | 311,187 | 119,630 | 171,507 | 20,050 | 38.4 | 55.1 | 6.4 | | | | |
| PACIFIC..... | 134 | 29 | 66 | 2,331 | 792 | 1,194 | 345 | 34.0 | 51.2 | 14.8 | 6,044,099 | 2,190,932 | 2,593,946 | 1,259,221 | 36.2 | 42.9 | 20.8 | | | | |
| Washington..... | 25 | 8 | 13 | 437 | 94 | 269 | 74 | 21.5 | 61.6 | 16.9 | 1,127,528 | 301,838 | 603,019 | 222,671 | 26.8 | 53.5 | 19.7 | | | | |
| Oregon..... | 9 | 7 | 7 | 207 | 34 | 142 | 31 | 16.4 | 68.6 | 15.0 | 534,282 | 119,939 | 315,275 | 99,068 | 22.4 | 59.0 | 18.5 | | | | |
| California..... | 100 | 14 | 46 | 1,687 | 664 | 783 | 240 | 39.4 | 40.4 | 14.2 | 4,382,289 | 1,769,155 | 1,675,652 | 937,482 | 40.4 | 38.2 | 21.4 | | | | |

¹ Includes the group "All others."
² Includes the groups "Individuals" and "Corporations."

¹ Includes the group "Corporations."
² Includes the group "Individuals."

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TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920):¹ 1919.

| STATE AND CITY. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horse-power. |
|--------------------|---------------------------|----------------------------------|-------------------------------|----------------------|--------------------------------|-----------|-----------|-----------|--------------------|--------------------------------|----------------------|
| | | Total. | Proprietors and firm members. | Salariied employees. | Wage earners (average number). | | | | | | |
| ALABAMA..... | 27 | 282 | 29 | 33 | 220 | \$210,717 | \$47,126 | \$158,458 | \$115,201 | \$487,293 | 219 |
| Birmingham..... | 10 | 113 | 10 | 12 | 91 | 84,949 | 18,390 | 68,824 | 42,532 | 224,328 | 117 |
| Montgomery..... | 3 | 72 | 4 | 17 | 51 | 20,484 | 10,580 | 33,711 | 30,227 | 110,940 | 25 |
| ARIZONA..... | 15 | 104 | 17 | 8 | 79 | 60,091 | 7,138 | 95,047 | 32,078 | 200,055 | 69 |
| Phoenix..... | 8 | 63 | 11 | 5 | 47 | 25,331 | 4,488 | 55,647 | 15,064 | 112,600 | 28 |
| ARKANSAS..... | 10 | 101 | 12 | 14 | 75 | 71,641 | 17,131 | 66,635 | 42,144 | 215,912 | 120 |
| Little Rock..... | 6 | 64 | 7 | 7 | 50 | 43,978 | 9,305 | 49,201 | 34,564 | 163,269 | 103 |
| CALIFORNIA..... | 160 | 2,123 | 205 | 231 | 1,037 | 2,025,673 | 336,454 | 1,618,999 | 799,908 | 4,382,289 | 1,697 |
| Los Angeles..... | 34 | 787 | 34 | 128 | 625 | 649,253 | 170,480 | 571,501 | 309,217 | 1,489,377 | 450 |
| San Francisco..... | 11 | 481 | 9 | 45 | 427 | 826,431 | 79,354 | 299,107 | 137,226 | 1,094,573 | 510 |
| Oakland..... | 9 | 133 | 10 | 12 | 111 | 58,682 | 21,174 | 130,436 | 42,873 | 263,967 | 85 |
| San Jose..... | 5 | 75 | 8 | 10 | 57 | 59,510 | 15,303 | 97,613 | 19,732 | 160,138 | 45 |
| Sacramento..... | 13 | 59 | 18 | 2 | 39 | 54,854 | 1,716 | 47,291 | 29,944 | 144,080 | 63 |
| Berkeley..... | 3 | 85 | 3 | 10 | 72 | 76,852 | 9,120 | 84,194 | 15,050 | 142,968 | 36 |
| San Diego..... | 13 | 83 | 8 | 5 | 70 | 59,790 | 6,115 | 57,253 | 27,489 | 127,180 | 108 |
| Fresno..... | 4 | 47 | 6 | 7 | 34 | 39,935 | 15,749 | 32,184 | 20,293 | 100,649 | 20 |
| COLORADO..... | 42 | 346 | 43 | 51 | 252 | 414,500 | 68,833 | 255,460 | 138,819 | 753,058 | 313 |
| Denver..... | 17 | 202 | 11 | 35 | 156 | 235,214 | 50,557 | 163,540 | 84,509 | 467,903 | 174 |
| CONNECTICUT..... | 24 | 261 | 24 | 52 | 185 | 304,256 | 79,105 | 210,956 | 111,512 | 654,689 | 242 |
| Hartford..... | 6 | 131 | 7 | 29 | 98 | 198,916 | 39,598 | 110,416 | 49,918 | 304,844 | 66 |
| FLORIDA..... | 10 | 88 | 9 | 13 | 68 | 86,273 | 14,037 | 52,536 | 39,185 | 166,834 | 58 |
| Jacksonville..... | 5 | 62 | 6 | 8 | 48 | 58,140 | 8,240 | 35,360 | 23,968 | 115,240 | 34 |
| GEORGIA..... | 12 | 169 | 3 | 37 | 129 | 129,541 | 32,022 | 93,775 | 90,559 | 320,963 | 187 |
| Atlanta..... | 7 | 137 | 8 | 28 | 101 | 109,439 | 25,282 | 74,937 | 78,841 | 263,720 | 102 |
| ILLINOIS..... | 159 | 2,119 | 133 | 353 | 1,633 | 2,601,180 | 612,619 | 1,809,095 | 1,249,966 | 5,298,935 | 2,105 |
| Chicago..... | 80 | 1,403 | 52 | 255 | 1,156 | 1,766,311 | 488,363 | 1,372,340 | 627,452 | 3,915,399 | 1,325 |
| Rock Island..... | 3 | 67 | 3 | 21 | 46 | 88,110 | 30,880 | 47,127 | 21,350 | 135,934 | 61 |
| Rockford..... | 5 | 44 | 3 | 8 | 33 | 50,930 | 15,791 | 32,922 | 16,689 | 120,755 | 57 |
| Springfield..... | 4 | 82 | 3 | 15 | 64 | 80,924 | 22,434 | 43,980 | 14,303 | 120,591 | 105 |
| INDIANA..... | 101 | 825 | 106 | 120 | 599 | 790,474 | 138,315 | 514,916 | 390,055 | 1,588,752 | 1,024 |
| Indianapolis..... | 18 | 279 | 14 | 44 | 221 | 209,278 | 58,474 | 181,319 | 109,576 | 489,559 | 268 |
| Terre Haute..... | 5 | 84 | 4 | 28 | 52 | 149,743 | 27,215 | 38,813 | 58,744 | 190,412 | 210 |
| Fort Wayne..... | 5 | 54 | 4 | 11 | 39 | 27,088 | 17,057 | 42,808 | 20,768 | 105,064 | 44 |
| IOWA..... | 70 | 584 | 76 | 103 | 405 | 679,719 | 127,310 | 422,751 | 253,684 | 1,333,047 | 523 |
| Sioux City..... | 8 | 95 | 10 | 20 | 65 | 62,261 | 20,386 | 91,990 | 55,710 | 280,366 | 73 |
| Des Moines..... | 6 | 115 | 2 | 29 | 84 | 129,164 | 19,678 | 80,611 | 48,405 | 238,121 | 73 |
| Waterloo..... | 5 | 81 | 3 | 12 | 66 | 66,358 | 16,640 | 61,673 | 21,067 | 145,405 | 44 |
| KENTUCKY..... | 41 | 360 | 40 | 61 | 259 | 343,830 | 77,180 | 192,690 | 152,731 | 720,341 | 347 |
| Louisville..... | 12 | 223 | 10 | 49 | 184 | 220,067 | 73,330 | 109,638 | 91,879 | 484,445 | 202 |
| LOUISIANA..... | 26 | 220 | 23 | 39 | 158 | 187,960 | 51,613 | 113,801 | 80,375 | 384,776 | 240 |
| New Orleans..... | 16 | 153 | 16 | 30 | 107 | 99,792 | 32,800 | 61,866 | 39,159 | 235,698 | 166 |
| MAINE..... | 12 | 126 | 10 | 22 | 94 | 131,883 | 24,567 | 87,054 | 43,905 | 241,671 | 112 |
| Portland..... | 3 | 79 | 1 | 16 | 62 | 77,757 | 10,487 | 53,785 | 24,347 | 134,947 | 28 |
| MARYLAND..... | 9 | 598 | 7 | 150 | 441 | 1,072,586 | 153,003 | 249,761 | 154,711 | 1,011,843 | 721 |
| Cumberland..... | 3 | 524 | 2 | 130 | 392 | 1,020,987 | 133,855 | 202,940 | 131,210 | 870,553 | 612 |
| Baltimore..... | 5 | 63 | 5 | 18 | 40 | 41,309 | 17,565 | 41,184 | 20,053 | 123,551 | 43 |
| MASSACHUSETTS..... | 45 | 894 | 38 | 133 | 723 | 896,211 | 185,412 | 671,117 | 584,673 | 2,252,321 | 1,063 |
| Watertown..... | 3 | 251 | 2 | 31 | 218 | 124,621 | 51,615 | 199,025 | 184,492 | 761,046 | 229 |
| Boston..... | 9 | 218 | 1 | 34 | 183 | 164,257 | 44,785 | 186,933 | 89,993 | 477,394 | 233 |
| MICHIGAN..... | 73 | 895 | 79 | 135 | 681 | 1,240,651 | 164,490 | 792,808 | 445,540 | 2,043,559 | 714 |
| Detroit..... | 22 | 412 | 16 | 14 | 382 | 774,320 | 100,818 | 483,465 | 262,504 | 1,180,979 | 398 |
| Flint..... | 4 | 42 | 5 | 2 | 35 | 99,612 | 4,066 | 49,830 | 22,570 | 107,587 | 40 |
| MINNESOTA..... | 46 | 629 | 48 | 99 | 482 | 739,244 | 126,330 | 488,498 | 271,765 | 1,398,915 | 593 |
| Minneapolis..... | 17 | 317 | 19 | 44 | 254 | 379,039 | 54,730 | 259,198 | 135,603 | 704,556 | 321 |
| St. Paul..... | 9 | 160 | 9 | 34 | 117 | 149,308 | 47,209 | 117,777 | 84,187 | 350,086 | 160 |
| Duluth..... | 5 | 74 | 2 | 14 | 58 | 111,023 | 19,423 | 55,491 | 17,742 | 166,507 | 65 |
| MISSOURI..... | 125 | 1,414 | 124 | 228 | 1,062 | 1,281,853 | 359,455 | 899,098 | 650,768 | 2,827,687 | 1,292 |
| St. Louis..... | 36 | 868 | 24 | 171 | 673 | 758,528 | 283,379 | 505,698 | 378,090 | 1,669,507 | 715 |
| Kansas City..... | 40 | 306 | 45 | 28 | 233 | 306,182 | 62,896 | 253,389 | 159,126 | 693,507 | 329 |
| Joplin..... | 6 | 49 | 5 | 7 | 37 | 53,269 | 7,921 | 38,442 | 17,222 | 106,605 | 85 |
| NEBRASKA..... | 41 | 415 | 43 | 73 | 299 | 698,613 | 111,472 | 289,080 | 219,597 | 983,987 | 408 |
| Omaha..... | 15 | 238 | 11 | 41 | 186 | 476,824 | 70,034 | 184,166 | 140,179 | 613,051 | 221 |
| Lincoln..... | 5 | 79 | 6 | 23 | 50 | 58,234 | 34,349 | 46,998 | 36,015 | 161,374 | 53 |
| NEW JERSEY..... | 39 | 536 | 34 | 47 | 455 | 559,997 | 87,640 | 549,119 | 369,990 | 1,408,447 | 608 |
| Newark..... | 5 | 88 | 3 | 8 | 77 | 111,906 | 15,281 | 133,462 | 101,397 | 367,050 | 98 |
| Jersey City..... | 5 | 69 | 6 | 11 | 52 | 85,828 | 27,190 | 52,557 | 22,482 | 165,104 | 48 |
| NEW YORK..... | 159 | 2,428 | 150 | 485 | 1,793 | 3,311,500 | 656,964 | 1,984,813 | 1,847,027 | 5,956,122 | 1,617 |
| New York..... | 60 | 1,040 | 33 | 377 | 1,230 | 1,899,545 | 493,994 | 1,394,943 | 793,087 | 4,091,287 | 833 |
| Buffalo..... | 20 | 234 | 20 | 44 | 170 | 402,046 | 48,014 | 173,830 | 195,458 | 549,270 | 206 |
| Rochester..... | 8 | 84 | 9 | 15 | 70 | 198,217 | 17,695 | 77,429 | 66,070 | 250,790 | 40 |
| Syracuse..... | 8 | 87 | 9 | 11 | 67 | 86,950 | 10,874 | 59,577 | 33,530 | 154,759 | 107 |

¹ Cities with 3 establishments and income of \$100,000 for work done.

MANUFACTURES.

TABLE 9.—STATISTICS FOR CITIES OF 10,000 INHABITANTS OR MORE (CENSUS OF 1920):¹ 1919—Continued.

| STATE AND CITY. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | Capital. | Salaries. | Wages. | Cost of materials. | Amount received for work done. | Primary horsepower. |
|----------------------|---------------------------|----------------------------------|-------------------------------|---------------------|--------------------------------|-------------|-----------|-------------|--------------------|--------------------------------|---------------------|
| | | Total. | Proprietors and firm members. | Salaried employees. | Wage earners (average number). | | | | | | |
| OHIO..... | 173 | 2,113 | 105 | 354 | 1,594 | \$2,630,374 | \$483,306 | \$1,528,284 | \$893,346 | \$4,657,055 | 2,714 |
| Cleveland..... | 25 | 564 | 15 | 34 | 465 | 571,831 | 137,063 | 485,801 | 298,609 | 1,290,470 | 632 |
| Cincinnati..... | 8 | 422 | 3 | 111 | 308 | 602,176 | 129,166 | 225,072 | 136,992 | 880,054 | 499 |
| Akron..... | 12 | 156 | 10 | 19 | 127 | 303,557 | 51,044 | 145,537 | 63,019 | 381,252 | 218 |
| Columbus..... | 12 | 182 | 6 | 49 | 127 | 176,125 | 48,173 | 85,951 | 64,544 | 341,555 | 105 |
| Toledo..... | 13 | 123 | 12 | 20 | 91 | 132,177 | 32,865 | 95,811 | 45,176 | 301,812 | 113 |
| Dayton..... | 9 | 67 | 8 | 15 | 44 | 90,946 | 15,911 | 47,805 | 37,085 | 166,557 | 104 |
| Youngstown..... | 5 | 60 | 3 | 16 | 41 | 52,973 | 23,883 | 58,236 | 22,175 | 145,719 | 88 |
| OKLAHOMA..... | 50 | 363 | 73 | 35 | 255 | 425,037 | 43,129 | 298,423 | 152,201 | 844,092 | 259 |
| Tulsa..... | 6 | 100 | 9 | 18 | 73 | 77,214 | 26,880 | 80,943 | 35,709 | 230,671 | 49 |
| Oklahoma City..... | 5 | 51 | 15 | 3 | 33 | 76,766 | 4,580 | 40,322 | 16,187 | 125,397 | 32 |
| OREGON..... | 23 | 274 | 24 | 43 | 207 | 187,110 | 37,740 | 204,799 | 120,459 | 534,282 | 198 |
| Portland..... | 12 | 233 | 11 | 40 | 182 | 154,729 | 47,065 | 180,829 | 106,985 | 451,028 | 139 |
| PENNSYLVANIA..... | 142 | 1,782 | 105 | 297 | 1,320 | 2,711,626 | 401,361 | 1,260,980 | 1,052,188 | 3,883,875 | 1,097 |
| Philadelphia..... | 33 | 605 | 43 | 112 | 450 | 1,067,955 | 130,527 | 411,474 | 457,496 | 1,348,872 | 549 |
| Pittsburgh..... | 10 | 448 | 8 | 83 | 357 | 616,058 | 166,910 | 337,225 | 257,151 | 1,073,393 | 504 |
| RHODE ISLAND..... | 7 | 174 | 7 | 46 | 121 | 226,928 | 58,883 | 96,084 | 61,238 | 388,039 | 132 |
| Providence..... | 3 | 91 | 3 | 30 | 58 | 157,379 | 46,013 | 58,184 | 31,317 | 229,887 | 87 |
| TENNESSEE..... | 32 | 511 | 27 | 94 | 390 | 450,607 | 117,460 | 204,863 | 178,919 | 894,743 | 485 |
| Memphis..... | 8 | 231 | 6 | 53 | 222 | 267,024 | 57,998 | 162,454 | 86,289 | 404,953 | 220 |
| Chattanooga..... | 6 | 86 | 2 | 22 | 62 | 65,428 | 33,964 | 45,903 | 27,117 | 181,580 | 100 |
| Nashville..... | 5 | 62 | 2 | 7 | 53 | 44,193 | 12,642 | 22,290 | 31,125 | 105,384 | 60 |
| TEXAS..... | 97 | 838 | 125 | 99 | 614 | 914,340 | 143,036 | 640,298 | 339,770 | 1,910,999 | 798 |
| Dallas..... | 15 | 198 | 11 | 37 | 150 | 290,401 | 66,584 | 172,896 | 77,962 | 496,499 | 134 |
| Fort Worth..... | 11 | 146 | 17 | 13 | 116 | 190,140 | 14,408 | 101,413 | 57,502 | 329,800 | 88 |
| Wichita Falls..... | 7 | 64 | 13 | 5 | 46 | 65,942 | 6,850 | 69,174 | 32,816 | 226,305 | 24 |
| Houston..... | 10 | 101 | 11 | 13 | 77 | 65,825 | 14,840 | 69,366 | 32,861 | 196,717 | 252 |
| El Paso..... | 9 | 71 | 14 | 11 | 46 | 41,905 | 17,365 | 39,981 | 21,095 | 141,409 | 33 |
| San Antonio..... | 0 | 53 | 8 | 6 | 39 | 58,831 | 7,502 | 30,427 | 13,743 | 100,717 | 48 |
| UTAH AND NEVADA..... | 13 | 179 | 14 | 36 | 120 | 189,243 | 47,267 | 122,307 | 67,760 | 311,187 | 115 |
| Salt Lake City..... | 9 | 162 | 10 | 34 | 118 | 176,483 | 44,867 | 106,067 | 60,568 | 275,147 | 95 |
| VIRGINIA..... | 30 | 371 | 23 | 67 | 281 | 426,901 | 58,941 | 222,528 | 138,208 | 608,898 | 406 |
| Richmond..... | 12 | 106 | 13 | 12 | 81 | 156,917 | 13,288 | 74,693 | 45,364 | 215,669 | 120 |
| Norfolk..... | 3 | 56 | 2 | 19 | 35 | 39,310 | 22,334 | 22,441 | 14,234 | 112,113 | 74 |
| Roanoke..... | 5 | 66 | 2 | 13 | 51 | 69,606 | 12,924 | 30,602 | 17,077 | 108,073 | 79 |
| WASHINGTON..... | 46 | 549 | 54 | 58 | 437 | 445,964 | 107,150 | 480,233 | 210,680 | 1,127,528 | 395 |
| Seattle..... | 12 | 292 | 10 | 42 | 240 | 239,833 | 80,671 | 280,126 | 84,565 | 567,496 | 191 |
| Spokane..... | 5 | 94 | 3 | 6 | 85 | 73,009 | 9,712 | 82,900 | 52,452 | 200,909 | 41 |
| Tacoma..... | 4 | 43 | 8 | 3 | 32 | 21,815 | 8,148 | 26,848 | 28,453 | 110,514 | 38 |
| WEST VIRGINIA..... | 37 | 205 | 36 | 27 | 232 | 357,443 | 45,307 | 196,194 | 105,934 | 500,139 | 241 |
| Clarksburg..... | 7 | 61 | 9 | 3 | 49 | 67,323 | 11,040 | 49,561 | 24,752 | 151,951 | 41 |
| Huntington..... | 3 | 64 | 2 | 9 | 53 | 46,074 | 15,150 | 36,984 | 18,438 | 109,537 | 21 |
| WISCONSIN..... | 42 | 632 | 39 | 118 | 475 | 579,471 | 152,182 | 407,073 | 361,122 | 1,369,183 | 561 |
| Milwaukee..... | 11 | 382 | 2 | 79 | 301 | 301,637 | 112,870 | 263,593 | 239,293 | 909,929 | 309 |

¹ Cities with 3 establishments and income of \$100,000 for work done.

TABLE 10.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919.

| | Number of engines or motors. | HORSEPOWER. | | | Number of engines or motors. | HORSEPOWER. | |
|----------------------------------|------------------------------|-------------|------------------------|--|------------------------------|-------------|------------------------|
| | | Amount. | Per cent distribution. | | | Amount. | Per cent distribution. |
| Primary power, total..... | 3,379 | 23,946 | 100.0 | Primary power—Continued. | | | |
| Owned..... | 527 | 8,885 | 37.1 | Rented..... | 2,852 | 15,061 | 62.9 |
| Steam..... | 394 | 7,429 | 31.0 | Electric..... | 2,852 | 14,902 | 62.2 |
| Internal-combustion engines..... | 131 | 1,450 | 6.1 | Other..... | | 159 | 0.7 |
| Water motors..... | 2 | 6 | (²) | Electric..... | 3,141 | 16,593 | 100.0 |
| | | | | Rented..... | 2,852 | 14,902 | 89.8 |
| | | | | Generated by establishments reporting..... | 289 | 1,691 | 10.2 |

¹ Includes 36 of 579 horsepower reported as steam turbines.² Less than one-tenth of 1 per cent.

DYEING AND CLEANING.

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TABLE 11.—FUEL CONSUMED, BY DIVISIONS AND STATES: 1919.

| DIVISION AND STATE. | COAL. | | Coke (ton, 2,000 pounds). | Fuel oils (bar- rels). | Gasoline and other volatile oils (bar- rels). | Gas (1,000 cubic feet). | DIVISION AND STATE. | COAL. | | Coke (ton, 2,000 pounds). | Fuel oils (bar- rels). | Gasoline and other volatile oils (bar- rels). | Gas (1,000 cubic feet). |
|-----------------------|--|---|------------------------------------|---------------------------------|---|----------------------------------|------------------------|--|---|------------------------------------|---------------------------------|---|----------------------------------|
| | Anthra- cite ¹ (ton, 2,240 pounds). | Bitumi- nous (ton, 2,000 pounds). | | | | | | Anthra- cite ¹ (ton, 2,240 pounds). | Bitumi- nous (ton, 2,000 pounds). | | | | |
| UNITED STATES.... | 24,954 | 131,102 | 3,451 | 40,451 | 32,024 | 321,981 | SOUTH ATLANTIC—Con. | | | | | | |
| NEW ENGLAND..... | 2,360 | 8,544 | 261 | 216 | 1,318 | 4,131 | District of Columbia.. | 130 | 153 | | | 50 | 960 |
| Maine..... | 825 | 670 | 40 | 4 | 203 | 560 | Virginia..... | 20 | 2,408 | | 674 | 200 | 1,383 |
| New Hampshire..... | 12 | 391 | | | 62 | | West Virginia..... | | 282 | | 30 | 684 | 31,471 |
| Vermont..... | 118 | 56 | | | 6 | | North Carolina..... | | 1,317 | 25 | 20 | 152 | 750 |
| Massachusetts..... | 74 | 5,751 | 221 | 122 | 582 | 1,614 | South Carolina..... | | 494 | | 6 | 57 | 377 |
| Rhode Island..... | 832 | 451 | | | 116 | | Georgia..... | | 2,153 | 18 | 2 | 730 | 523 |
| Connecticut..... | 479 | 1,225 | | 90 | 433 | 1,773 | Florida..... | | 270 | 134 | | 237 | |
| MIDDLE ATLANTIC..... | 18,586 | 12,663 | 1,277 | 192 | 2,411 | 20,529 | EAST SOUTH CENTRAL... | 20 | 7,739 | 340 | 11 | 853 | 26,782 |
| New York..... | 11,505 | 5,336 | 859 | 114 | 1,230 | 13,020 | Kentucky..... | | 2,718 | | | 44 | 24,484 |
| New Jersey..... | 2,139 | 9,969 | 82 | | 42 | 2,711 | Tennessee..... | | 3,351 | | 2 | 193 | 827 |
| Pennsylvania..... | 4,942 | 6,358 | 336 | 78 | 1,139 | 4,798 | Alabama..... | 15 | 1,342 | 258 | | 692 | 1,314 |
| EAST NORTH CENTRAL... | 2,274 | 52,693 | 673 | 228 | 9,291 | 89,767 | Mississippi..... | 5 | 328 | 28 | 9 | 54 | 157 |
| Ohio..... | 269 | 13,753 | 143 | 115 | 2,929 | 64,164 | WEST SOUTH CENTRAL... | 651 | 3,682 | 94 | 920 | 2,206 | 82,000 |
| Indiana..... | | 6,786 | 22 | 12 | 1,198 | 7,310 | Arkansas..... | 20 | 81 | | 2 | 43 | 2,846 |
| Illinois..... | 1,109 | 18,129 | 19 | 101 | 1,394 | 11,349 | Louisiana..... | | 801 | 18 | 18 | 413 | 12,180 |
| Michigan..... | 66 | 7,160 | 346 | | 3,758 | 5,047 | Oklahoma..... | 150 | 229 | | 17 | 60 | 36,479 |
| Wisconsin..... | 830 | 6,865 | 143 | | 12 | 1,897 | Texas..... | 481 | 2,571 | 76 | 883 | 1,690 | 30,555 |
| WEST NORTH CENTRAL.. | 854 | 25,847 | 477 | 755 | 5,391 | 34,164 | MOUNTAIN..... | 25 | 7,577 | 27 | 11 | 372 | 4,512 |
| Minnesota..... | 350 | 4,457 | 29 | 70 | 1,877 | 1,701 | Montana..... | | 1,147 | | | 4 | 150 |
| Iowa..... | 113 | 5,539 | | 464 | 1,525 | 3,982 | Idaho..... | | 246 | | | | |
| Missouri..... | 278 | 9,738 | 128 | 178 | 1,482 | 10,964 | Wyoming..... | | 215 | | | 140 | |
| North Dakota..... | 90 | 604 | 306 | | 77 | 326 | Colorado..... | | 4,649 | 24 | 10 | 110 | 2,005 |
| South Dakota..... | | 584 | | | 77 | 762 | New Mexico..... | | 122 | | | | 24 |
| Nebraska..... | 23 | 3,017 | 14 | 82 | 329 | 7,154 | Arizona..... | 25 | 223 | | 1 | 28 | 2,033 |
| Kansas..... | | 1,708 | | 11 | 25 | 9,273 | Utah and Nevada..... | | 975 | 2 | | 90 | 300 |
| SOUTH ATLANTIC..... | 166 | 10,818 | 177 | 732 | 2,425 | 35,765 | PACIFIC..... | 18 | 1,539 | 125 | 37,386 | 7,757 | 24,271 |
| Delaware..... | 6 | 160 | | | 300 | | Washington..... | 12 | 1,225 | 125 | 327 | 1,170 | 2,365 |
| Maryland..... | 10 | 3,591 | | | 15 | 313 | Oregon..... | | 20 | | 2,246 | 29 | 2,217 |
| | | | | | | | California..... | 6 | 285 | | 34,813 | 6,558 | 19,689 |

MANUFACTURES.

TABLE 12.—DETAILED STATEMENT,

| DIVISION AND STATE. | Number of establishments. | PERSONS ENGAGED IN THE INDUSTRY. | | | | | | | WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. | | | | | | Capital. | EXPENSES | |
|---------------------------|---------------------------|----------------------------------|-------------------------------|---|--------------|---------|-----------------|----------------------|--|--------------|---------|-----------|---------|---------------------|--------------|-------------|----------------|
| | | Total. | Proprietors and firm members. | Salaried officers, superintendents, and managers. | Clerks, etc. | | Wage earners. | | Total. | 16 and over. | | Under 16. | | Salaries and wages. | | Officials. | |
| | | | | | Male. | Female. | Average number. | Number, 15th day of— | | Male. | Female. | Male. | Female. | | | | |
| | | | | | | | | Maximum month. | | | | | | | | | Minimum month. |
| UNITED STATES..... | 2,166 | 24,934 | 2,285 | 1,272 | 619 | 1,951 | 18,807 | Oct 20,156 | Ja 16,750 | 19,101 | 10,841 | 8,131 | 107 | 22 | \$28,734,049 | \$3,039,187 | |
| NEW ENGLAND..... | 102 | 1,542 | 100 | 71 | 19 | 187 | 1,185 | Oct 1,304 | Ja 989 | 1,189 | 709 | 462 | 12 | 6 | 1,670,321 | 196,935 | |
| Maine..... | 12 | 126 | 10 | 8 | ..... | 14 | 94 | Oct 103 | Ja 80 | 94 | 51 | 43 | ..... | ..... | 131,883 | 13,500 | |
| New Hampshire..... | 8 | 62 | 13 | ..... | 1 | 2 | 46 | Aug 49 | Dec 43 | 46 | 29 | 17 | ..... | ..... | 24,923 | ..... |  |
| Vermont..... | 6 | 25 | 8 | ..... | ..... | 1 | 16 | Jan 18 | Jy 14 | 17 | 10 | 7 | ..... | ..... | 26,120 | ..... |  |
| Massachusetts..... | 45 | 894 | 38 | 31 | 10 | 92 | 723 | Oct 805 | Ja 585 | 738 | 415 | 309 | 8 | 6 | 896,211 | 97,417 | |
| Rhode Island..... | 7 | 174 | 7 | 12 | 5 | 29 | 121 | Ju 141 | Ja 87 | 107 | 54 | 49 | 4 | ..... | 226,928 | 36,154 | |
| Connecticut..... | 24 | 261 | 24 | 20 | 3 | 29 | 185 | Oct 191 | Ja 175 | 187 | 150 | 37 | ..... | ..... | 364,256 | 49,864 | |
| MIDDLE ATLANTIC..... | 340 | 4,746 | 349 | 232 | 135 | 462 | 3,568 | Oct 3,814 | Fe 3,184 | 3,679 | 2,164 | 1,506 | 8 | 1 | 6,583,123 | 678,253 | |
| New York..... | 159 | 2,428 | 150 | 123 | 100 | 262 | 1,793 | Oct 1,899 | Fe 1,611 | 1,813 | 1,099 | 712 | 2 | ..... | 3,311,500 | 378,497 | |
| New Jersey..... | 39 | 536 | 34 | 26 | 3 | 18 | 455 | No 475 | Fe 423 | 464 | 278 | 186 | ..... | ..... | 559,907 | 68,347 | |
| Pennsylvania..... | 142 | 1,782 | 165 | 83 | 32 | 182 | 1,320 | Oct 1,448 | Fe 1,160 | 1,402 | 787 | 608 | 6 | 1 | 2,711,626 | 281,409 | |
| EAST NORTH CENTRAL..... | 548 | 6,584 | 522 | 374 | 123 | 583 | 4,982 | Oct 5,209 | Ja 4,378 | 5,055 | 2,891 | 2,139 | 18 | 7 | 7,842,156 | 909,483 | |
| Ohio..... | 173 | 2,113 | 165 | 118 | 26 | 211 | 1,594 | Apr 1,717 | Ja 1,308 | 1,582 | 947 | 630 | 5 | ..... | 2,630,374 | 294,544 | |
| Indiana..... | 101 | 825 | 106 | 48 | 14 | 58 | 599 | Oct 627 | Ja 545 | 617 | 370 | 241 | 4 | 2 | 790,474 | 86,294 | |
| Illinois..... | 159 | 2,119 | 133 | 142 | 51 | 160 | 1,633 | Oct 1,744 | Fe 1,472 | 1,670 | 962 | 700 | 5 | 3 | 2,601,186 | 385,255 | |
| Michigan..... | 73 | 895 | 79 | 34 | 14 | 87 | 681 | Oct 744 | Fe 590 | 697 | 380 | 315 | 2 | ..... | 1,240,651 | 65,390 | |
| Wisconsin..... | 42 | 632 | 39 | 32 | 19 | 67 | 475 | Jan 400 | Fe 454 | 489 | 232 | 253 | 2 | 2 | 579,471 | 77,991 | |
| WEST NORTH CENTRAL..... | 371 | 3,511 | 416 | 175 | 87 | 261 | 2,572 | Oct 2,899 | Fe 2,202 | 2,509 | 1,449 | 1,044 | 15 | 1 | 3,885,400 | 429,923 | |
| Minnesota..... | 46 | 629 | 48 | 33 | 20 | 46 | 482 | Oct 526 | Fe 417 | 484 | 244 | 240 | ..... | ..... | 739,244 | 71,595 | |
| Iowa..... | 70 | 584 | 76 | 31 | 19 | 53 | 405 | Oct 432 | Fe 375 | 407 | 240 | 164 | 3 | ..... | 679,719 | 60,157 | |
| Missouri..... | 125 | 1,414 | 124 | 87 | 37 | 104 | 1,062 | Oct 1,243 | Fe 887 | 1,009 | 549 | 451 | 8 | 1 | 1,281,853 | 232,614 | |
| North Dakota..... | 14 | 90 | 20 | ..... | 1 | 5 | 64 | Aug 85 | Ja 44 | 82 | 46 | 36 | ..... | ..... | 140,535 | ..... |  |
| South Dakota..... | 15 | 78 | 19 | ..... | ..... | 2 | 57 | Sept 62 | Ja 49 | 58 | 38 | 20 | ..... | ..... | 95,039 | ..... |  |
| Nebraska..... | 41 | 415 | 43 | 23 | 9 | 41 | 299 | Oct 340 | Ja 246 | 317 | 182 | 193 | 2 | ..... | 698,613 | 64,153 | |
| Kansas..... | 60 | 301 | 86 | 1 | 1 | 10 | 203 | Oct 225 | Fe 181 | 152 | 150 | ..... | 2 | ..... | 250,397 | 1,404 | |
| SOUTH ATLANTIC..... | 146 | 1,959 | 132 | 185 | 40 | 108 | 1,494 | Mh 1,727 | Ja 1,366 | 1,510 | 764 | 732 | 11 | 3 | 2,483,367 | 264,341 | |
| Delaware..... | 3 | 83 | 1 | 3 | 1 | 5 | 23 | Apr 24 | Ja 22 | 24 | 20 | 4 | ..... | ..... | 97,632 | 6,500 | |
| Maryland..... | 9 | 598 | 7 | 122 | 10 | 18 | 441 | Oct 468 | Ja 379 | 425 | 117 | 307 | 1 | ..... | 1,072,586 | 128,465 | |
| District of Columbia..... | 6 | 103 | 6 | ..... | 1 | 2 | 94 | Sept 100 | Ja 81 | 99 | 60 | 39 | ..... | ..... | 147,450 | ..... |  |
| Virginia..... | 30 | 371 | 23 | 25 | 10 | 32 | 281 | My 287 | Fe 275 | 286 | 169 | 117 | ..... | ..... | 429,901 | 49,427 | |
| West Virginia..... | 37 | 295 | 36 | 14 | ..... | 13 | 232 | Dec 241 | Ja 224 | 241 | 130 | 111 | ..... | ..... | 357,443 | 35,992 | |
| North Carolina..... | 21 | 197 | 28 | 7 | ..... | 11 | 151 | Jy 166 | Fe 128 | 153 | 94 | 59 | ..... | ..... | 80,952 | 18,850 | |
| South Carolina..... | 18 | 105 | 19 | 4 | ..... | 5 | 77 | Sept 79 | Fe 74 | 78 | 51 | 26 | 1 | ..... | 78,589 | 11,307 | |
| Georgia..... | 12 | 169 | 3 | 5 | 16 | 10 | 129 | Oct 149 | Ja 107 | 139 | 77 | 50 | 9 | 3 | 129,541 | 6,520 | |
| Florida..... | 10 | 88 | 9 | 5 | 2 | 0 | 66 | Sept 67 | Ja 65 | 65 | 46 | 19 | ..... | ..... | 86,273 | 7,280 | |
| EAST SOUTH CENTRAL..... | 124 | 1,258 | 125 | 56 | 40 | 100 | 937 | Oct 1,007 | Ja 772 | 966 | 529 | 414 | 19 | 4 | 1,073,934 | 164,066 | |
| Kentucky..... | 41 | 360 | 40 | 16 | 2 | 43 | 259 | Nov 274 | Ja 238 | 268 | 151 | 110 | 3 | 4 | 343,830 | 58,540 | |
| Tennessee..... | 32 | 511 | 27 | 33 | 24 | 37 | 390 | Sept 416 | Ja 341 | 390 | 212 | 175 | 3 | ..... | 450,607 | 77,216 | |
| Alabama..... | 27 | 282 | 29 | 5 | 11 | 17 | 220 | Oct 255 | Mh 193 | 238 | 126 | 105 | 7 | ..... | 219,717 | 24,910 | |
| Mississippi..... | 24 | 105 | 29 | 2 | 3 | 3 | 68 | Jy 70 | Ja 67 | 70 | 40 | 24 | 6 | ..... | 59,780 | 3,400 | |
| WEST SOUTH CENTRAL..... | 183 | 1,522 | 233 | 70 | 47 | 70 | 1,102 | Oct 1,187 | Ja 992 | 1,167 | 783 | 368 | 16 | ..... | 1,598,978 | 141,178 | |
| Arkansas..... | 10 | 101 | 12 | 6 | 5 | 3 | 75 | Oct 81 | Ja 60 | 74 | 52 | 22 | ..... | ..... | 71,641 | 9,400 | |
| Louisiana..... | 26 | 220 | 23 | 17 | 6 | 16 | 153 | Nov 161 | Au 151 | 180 | 101 | 79 | ..... | ..... | 187,960 | 34,357 | |
| Oklahoma..... | 50 | 363 | 73 | 13 | 3 | 19 | 255 | Sept 284 | Ja 223 | 261 | 176 | 83 | 2 | ..... | 425,037 | 25,560 | |
| Texas..... | 97 | 838 | 125 | 34 | 33 | 32 | 614 | Dec 685 | Ja 540 | 652 | 454 | 184 | 14 | ..... | 914,340 | 71,861 | |
| MOUNTAIN..... | 113 | 866 | 125 | 31 | 27 | 47 | 636 | Sept 709 | Ja 551 | 642 | 351 | 287 | 4 | ..... | 938,023 | 68,510 | |
| Montana..... | 23 | 125 | 27 | 2 | 1 | 1 | 94 | Sept 111 | Fe 74 | 107 | 51 | 56 | ..... | ..... | 170,027 | 7,200 | |
| Idaho..... | 4 | 56 | 6 | 1 | 1 | 4 | 44 | Aug 46 | Ja 41 | 46 | 26 | 20 | ..... | ..... | 46,610 | 2,000 | |
| Wyoming..... | 12 | 39 | 13 | ..... | ..... | ..... | 26 | Oct 30 | Ja 22 | 25 | 13 | 12 | ..... | ..... | 40,646 | ..... |  |
| Colorado..... | 42 | 346 | 43 | 20 | 9 | 22 | 252 | Aug 277 | Ja 217 | 243 | 141 | 100 | 2 | ..... | 414,500 | 43,674 | |
| New Mexico..... | 4 | 17 | 5 | ..... | ..... | ..... | 12 | (2) 12 | (2) 12 | 10 | 10 | ..... | ..... | ..... | 16,306 | ..... |  |
| Arizona..... | 15 | 104 | 17 | ..... | ..... | 8 | 79 | Oct 83 | Ja 76 | 83 | 49 | 34 | ..... | ..... | 60,691 | ..... |  |
| Utah and Nevada..... | 13 | 179 | 14 | 8 | 16 | 12 | 129 | Jan 100 | Ja 105 | 128 | 61 | 65 | 2 | ..... | 189,243 | 15,636 | |
| PACIFIC..... | 229 | 2,946 | 283 | 78 | 101 | 153 | 2,331 | Sept 2,443 | Ja 2,166 | 2,384 | 1,201 | 1,179 | 4 | ..... | 2,658,747 | 186,498 | |
| Washington..... | 46 | 549 | 54 | 23 | 10 | 25 | 437 | Sept 488 | Fe 387 | 426 | 238 | 185 | 3 | ..... | 445,984 | 57,575 | |
| Oregon..... | 23 | 274 | 24 | 18 | ..... | 25 | 207 | Oct 228 | Fe 190 | 224 | 106 | 118 | ..... | ..... | 187,110 | 25,620 | |
| California..... | 160 | 2,123 | 205 | 37 | 91 | 103 | 1,687 | Oct 1,756 | Ja 1,586 | 1,734 | 857 | 876 | 1 | ..... | 2,025,673 | 103,303 | |

* Same number reported for one or more other months.

* Same number reported throughout the year.

DYEING AND CLEANING.

1059

BY DIVISIONS AND STATES: 1919.

| DIVISION AND STATE. | EXPENSES—continued. | | | | | | | Amount received for work done. | POWER. | | | | | | Electric horsepower generated in establishments reporting. |
|---------------------------|-------------------------------|---------------|--------------------|------------------|---|----------------------|-------------------------|--------------------------------|---------------------|-------------------------------|-----------------|------------------------------|-----------------------|----------------------|--|
| | Salaries and wages—Continued. | | For contract work. | Rent and taxes. | | For materials. | | | Primary horsepower. | | | | | | |
| | Clerks, etc. | Wage earners. | | Rent of factory. | Taxes, Federal, state, county, and local. | Principal materials. | Fuel and rent of power. | | Total. | Owned. | | | | Rented. ¹ | |
| | | | | | | | | | | Steam engines (not turbines). | Steam turbines. | Internal-combustion engines. | Water power (motors). | | |
| UNITED STATES..... | \$2,236,896 | 18,245,024 | \$460,660 | \$1,571,262 | \$360,117 | \$9,801,650 | \$1,990,899 | \$54,421,305 | 23,946 | 6,850 | 579 | 1,450 | 0 | 15,061 | 1,091 |
| NEW ENGLAND..... | 150,338 | 1,118,763 | 20,713 | 94,827 | 76,366 | 689,013 | 141,152 | 3,691,562 | 1,625 | 466 | 22 | 2 | 6 | 1,129 | 117 |
| Maine..... | 11,067 | 87,054 | 1,627 | 5,270 | 2,796 | 30,222 | 13,683 | 241,671 | 112 | 8 | ..... | ..... | ..... | 104 | ..... |
| New Hampshire..... | 1,940 | 40,098 | 829 | 3,607 | 496 | 14,194 | 5,575 | 111,359 | 46 | 10 | ..... | ..... | ..... | 36 | ..... |
| Vermont..... | 300 | 12,554 | 380 | 2,426 | 301 | 6,534 | 2,534 | 42,383 | 30 | 10 | ..... | ..... | ..... | 18 | ..... |
| Massachusetts..... | 87,995 | 671,117 | 15,947 | 61,577 | 63,496 | 505,459 | 79,214 | 2,252,321 | 1,063 | 370 | 2 | ..... | 2 | 687 | 117 |
| Rhode Island..... | 22,729 | 96,984 | 168 | 2,939 | 2,913 | 48,840 | 12,392 | 388,639 | 132 | 12 | ..... | 2 | ..... | 118 | ..... |
| Connecticut..... | 26,301 | 210,956 | 1,702 | 18,918 | 6,304 | 83,758 | 27,754 | 654,689 | 242 | 50 | 20 | ..... | ..... | 166 | ..... |
| MIDDLE ATLANTIC..... | 407,718 | 3,774,912 | 151,653 | 275,144 | 138,645 | 2,360,363 | 390,842 | 11,248,444 | 3,922 | 941 | 127 | 457 | ..... | 2,397 | 382 |
| New York..... | 278,467 | 1,964,813 | 112,299 | 159,439 | 44,794 | 1,108,686 | 238,341 | 5,956,122 | 1,617 | 282 | 70 | 29 | ..... | 1,230 | 76 |
| New Jersey..... | 19,290 | 549,119 | 22,084 | 37,875 | 7,453 | 323,727 | 46,203 | 1,408,447 | 698 | 247 | 25 | 11 | ..... | 325 | ..... |
| Pennsylvania..... | 169,952 | 1,200,980 | 17,270 | 77,830 | 86,398 | 936,960 | 116,238 | 3,883,875 | 1,097 | 412 | 26 | 417 | ..... | 842 | 306 |
| EAST NORTH CENTRAL..... | 641,429 | 5,051,677 | 65,133 | 416,199 | 174,710 | 2,781,804 | 558,225 | 14,957,484 | 7,178 | 2,173 | 149 | 509 | ..... | 4,347 | 627 |
| Ohio..... | 188,762 | 1,528,284 | 10,518 | 106,331 | 74,411 | 725,287 | 168,059 | 4,657,055 | 2,714 | 845 | 17 | 472 | ..... | 1,380 | 832 |
| Indiana..... | 52,021 | 514,916 | 8,958 | 53,117 | 10,732 | 331,378 | 58,677 | 1,588,752 | 1,024 | 273 | 0 | 18 | ..... | 727 | ..... |
| Illinois..... | 227,304 | 1,809,096 | 25,495 | 149,671 | 48,318 | 1,067,657 | 182,300 | 5,298,035 | 2,165 | 709 | 111 | 6 | ..... | 1,339 | 107 |
| Michigan..... | 99,091 | 792,308 | 10,328 | 67,622 | 15,689 | 360,218 | 85,322 | 2,043,559 | 714 | 145 | ..... | 11 | ..... | 658 | 8 |
| Wisconsin..... | 74,191 | 407,073 | 9,834 | 39,158 | 25,509 | 297,264 | 63,858 | 1,369,188 | 561 | 201 | 15 | 2 | ..... | 343 | 180 |
| WEST NORTH CENTRAL..... | 309,769 | 2,439,286 | 54,166 | 207,054 | 57,034 | 1,206,652 | 314,003 | 7,502,266 | 3,233 | 895 | ..... | 182 | ..... | 2,156 | 35 |
| Minnesota..... | 54,735 | 438,498 | 20,371 | 44,281 | 8,985 | 210,649 | 61,116 | 1,368,916 | 693 | 237 | ..... | ..... | ..... | 356 | 35 |
| Iowa..... | 67,153 | 422,751 | 5,593 | 57,280 | 7,973 | 181,341 | 72,343 | 1,333,047 | 523 | 172 | ..... | 3 | ..... | 348 | ..... |
| Missouri..... | 129,841 | 899,098 | 8,985 | 95,432 | 23,272 | 554,824 | 95,944 | 2,827,687 | 1,292 | 400 | ..... | 158 | ..... | 734 | ..... |
| North Dakota..... | 4,563 | 57,825 | 5,850 | 8,994 | 1,898 | 32,167 | 8,785 | 201,086 | 77 | 12 | ..... | 4 | ..... | 61 | ..... |
| South Dakota..... | 1,898 | 65,758 | 2,096 | 6,986 | 1,378 | 20,692 | 8,542 | 178,570 | 76 | ..... | ..... | 2 | ..... | 74 | ..... |
| Nebraska..... | 47,319 | 289,080 | 8,348 | 26,466 | 11,576 | 177,874 | 41,723 | 983,987 | 408 | 42 | ..... | 2 | ..... | 364 | ..... |
| Kansas..... | 7,240 | 210,276 | 2,023 | 24,605 | 2,852 | 113,105 | 25,560 | 608,974 | 264 | 32 | ..... | 13 | ..... | 219 | ..... |
| SOUTH ATLANTIC..... | 97,135 | 1,002,388 | 27,552 | 123,363 | 56,763 | 562,008 | 135,502 | 3,543,316 | 1,894 | 1,084 | 21 | 51 | ..... | 738 | 415 |
| Delaware..... | 5,297 | 18,813 | 208 | 1,110 | 1,338 | 16,280 | 1,688 | 73,834 | 31 | 18 | ..... | ..... | ..... | 13 | ..... |
| Maryland..... | 24,538 | 249,761 | 6,134 | 40,125 | 16,730 | 124,981 | 29,730 | 1,011,843 | 721 | 698 | ..... | ..... | ..... | 23 | 412 |
| District of Columbia..... | 3,131 | 102,601 | ..... | 2,160 | 2,484 | 37,081 | 7,097 | 236,761 | 73 | 40 | ..... | 14 | ..... | 19 | 3 |
| Virginia..... | 9,514 | 222,528 | 2,542 | 19,585 | 6,820 | 108,807 | 29,401 | 698,898 | 406 | 136 | 17 | 3 | ..... | 250 | ..... |
| West Virginia..... | 9,315 | 196,104 | 849 | 23,068 | 7,787 | 85,090 | 20,844 | 500,139 | 241 | 47 | ..... | 21 | ..... | 173 | ..... |
| North Carolina..... | 9,106 | 106,739 | 5,000 | 9,648 | 5,142 | 62,609 | 14,050 | 321,586 | 130 | 71 | ..... | 6 | ..... | 53 | ..... |
| South Carolina..... | 3,975 | 49,441 | 77 | 5,320 | 3,041 | 24,457 | 5,651 | 162,458 | 47 | 14 | ..... | 5 | ..... | 28 | ..... |
| Georgia..... | 25,602 | 93,775 | 860 | 8,041 | 12,297 | 69,913 | 20,649 | 320,933 | 187 | 49 | 4 | 2 | ..... | 132 | ..... |
| Florida..... | 6,757 | 52,536 | 11,882 | 8,306 | 1,124 | 32,790 | 6,395 | 166,834 | 58 | 11 | ..... | ..... | ..... | 47 | ..... |
| EAST SOUTH CENTRAL..... | 86,554 | 662,018 | 4,100 | 76,863 | 64,964 | 391,044 | 82,423 | 2,230,520 | 1,686 | 534 | 42 | 47 | ..... | 1,063 | 95 |
| Kentucky..... | 18,640 | 102,690 | 829 | 16,407 | 37,685 | 129,575 | 23,156 | 720,341 | 347 | 170 | ..... | 6 | ..... | 171 | 39 |
| Tennessee..... | 40,244 | 264,863 | 105 | 29,377 | 20,845 | 149,346 | 29,573 | 894,743 | 485 | 203 | 30 | 4 | ..... | 248 | ..... |
| Alabama..... | 22,216 | 158,468 | 2,741 | 24,377 | 4,821 | 93,273 | 21,928 | 487,293 | 219 | 122 | 12 | 7 | ..... | 78 | 6 |
| Mississippi..... | 5,454 | 46,007 | 425 | 6,702 | 1,613 | 18,850 | 7,706 | 128,143 | 685 | 39 | ..... | 30 | ..... | 566 | 50 |
| WEST SOUTH CENTRAL..... | 113,731 | 1,119,157 | 40,026 | 120,166 | 38,415 | 493,642 | 120,848 | 3,356,379 | 1,417 | 194 | 214 | 152 | ..... | 857 | 22 |
| Arkansas..... | 7,731 | 60,635 | 1,059 | 9,793 | 2,250 | 34,202 | 7,942 | 215,612 | 120 | 12 | 25 | 12 | ..... | 71 | ..... |
| Louisiana..... | 17,256 | 113,801 | 440 | 12,093 | 3,106 | 62,732 | 17,643 | 384,776 | 240 | 44 | 21 | 65 | ..... | 110 | 22 |
| Oklahoma..... | 17,669 | 298,423 | 3,472 | 34,306 | 3,964 | 127,643 | 24,658 | 844,692 | 259 | 27 | 10 | 13 | ..... | 209 | ..... |
| Texas..... | 71,175 | 640,298 | 44,055 | 64,034 | 26,035 | 269,165 | 70,605 | 1,910,990 | 768 | 111 | 158 | 62 | ..... | 467 | ..... |
| MOUNTAIN..... | 75,176 | 682,792 | 50,131 | 79,936 | 12,829 | 255,518 | 73,454 | 1,847,235 | 701 | 165 | 4 | ..... | ..... | 532 | ..... |
| Montana..... | 2,590 | 115,490 | ..... | 17,732 | 1,968 | 49,084 | 9,987 | 312,189 | 115 | ..... | ..... | ..... | ..... | 115 | ..... |
| Idaho..... | 8,668 | 48,110 | 41,329 | 3,606 | 273 | 5,336 | 2,616 | 130,507 | 18 | ..... | ..... | ..... | ..... | 18 | ..... |
| Wyoming..... | ..... | 31,618 | 150 | 8,412 | 239 | 12,413 | 4,827 | 110,366 | 53 | 4 | ..... | ..... | ..... | 49 | ..... |
| Colorado..... | 25,159 | 255,460 | 8,167 | 25,612 | 6,722 | 103,467 | 36,362 | 753,053 | 313 | 104 | 4 | ..... | ..... | 205 | ..... |
| New Mexico..... | ..... | 14,760 | 120 | 3,120 | 288 | 8,080 | 2,372 | 29,873 | 18 | ..... | ..... | ..... | ..... | 18 | ..... |
| Arizona..... | 7,138 | 65,047 | ..... | 10,213 | 786 | 23,369 | 9,609 | 200,056 | 69 | ..... | ..... | ..... | ..... | 69 | ..... |
| Utah and Nevada..... | 31,631 | 122,307 | 365 | 11,247 | 2,553 | 58,769 | 8,991 | 311,187 | 115 | 57 | ..... | ..... | ..... | 58 | ..... |
| PACIFIC..... | 294,846 | 2,304,031 | 38,186 | 117,710 | 39,482 | 962,606 | 174,450 | 6,044,099 | 2,290 | 398 | ..... | 50 | ..... | 1,842 | ..... |
| Washington..... | 49,575 | 480,233 | 8,273 | 27,938 | 9,695 | 174,220 | 36,469 | 1,127,528 | 395 | 46 | ..... | 2 | ..... | 347 | ..... |
| Oregon..... | 12,120 | 204,799 | 565 | 13,228 | 2,965 | 110,522 | 15,937 | 534,282 | 198 | 53 | ..... | ..... | ..... | 140 | ..... |
| California..... | 233,151 | 1,618,999 | 29,348 | 76,544 | 26,792 | 677,864 | 122,044 | 4,382,289 | 1,697 | 294 | ..... | 48 | ..... | 1,856 | ..... |

¹ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).