

MANUFACTURES—PENNSYLVANIA.

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this section give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in com-

parison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except

as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal-revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture. The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured—and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

GENERAL STATISTICS.

General character of the state.—Pennsylvania has a gross area of 45,126 square miles, of which 44,832 represent land surface. The inhabitants of the state in 1900 numbered 6,302,115; in 1910, 7,665,111; and in 1920, 8,720,017. In total population Pennsylvania has ranked second among the states at each census since 1830. The number of inhabitants per square mile in 1910 was 171, the corresponding figure for 1920 being 194.5.

In 1920 there were 77 cities in the state having more than 10,000 inhabitants (see Table 6). The combined population of these cities in that year was 4,427,087, which formed 50.8 per cent of the total for Pennsylvania. Of the total value of the state's manufactured products, 63.7 per cent was reported from these 77 cities.

Importance and growth of manufactures (Table 1).—The large increases in salaries and wages, cost of materials, and value of products, from 1914 to 1919, as presented in Table 1, are largely due to the changes in industrial conditions brought about by the World War, and therefore can not properly be used to measure the growth of manufactures during the census period 1914 to 1919. The increases, however, in number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the exceptional increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for the comparison of county totals for 1919 with those for prior censuses. Of the 67 counties in the state, Allegheny and Philadelphia Counties, which include the cities of Pittsburgh and Philadelphia, respectively, reported 45.7 per cent of the total value of products in the state in 1919 and 40 per cent of the average number of wage earners.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always satisfactory as indicating their importance from a manufacturing standpoint. Their ranking would change materially if based upon the average number of wage earners or value added by manufacture. Iron and steel, blast furnaces, for instance, which ranked third among the industries for which statistics are shown in the table, was thirteenth in average number of wage earners and ninth in value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables 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 for individual industries will be found in Table 52.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 3,500 wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—During the census period 1914-1919 all cities presented comparatively show increases in value of products, but for 12 of the 66 cities, for which figures are shown separately, there were decreases in the average number of wage earners. Eleven cities could not be shown separately without disclosing the operations of individual establishments, and the totals for them have been combined as "All other cities." (See footnote to table.)

Wage earners, by months (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months for selected industries, similar data are given for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more, and also the number of females for industries in which a large proportion of the wage earners were females. Of the total number of female wage earners in the state in 1919, 71.6 per cent were in the 77 cities, while of the male wage earners 59.3 per cent were reported by the cities. Of the total average number of wage earners shown for the 77 cities, 77.4 per cent were males and 22.6 per cent females. The state as a whole shows 80.5 per cent males and 19.5 per cent females.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Pennsylvania. In that year only 8.8 per cent of the wage earners were reported in the group "48 and under" as against 42.3 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 23.1 per cent of the total wage earners, as compared with 14.2 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the

state, 92.9 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 24.9 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 7.1 per cent of the total number of manufacturing establishments in the state, but reported 75.1 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—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. The table, therefore, gives combined figures for these two groups for all items for 1909, and for average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances to combine the establishments of one group of the industry with those of some other group of that industry to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 28.2 per cent of the number of establishments in the state in 1919, they reported 86.4 per cent of the average number of wage earners and 87.7 per cent of the total value of products. During the five-year period 1914 to 1919, the average number of wage earners in corporations increased 260,807, or 36.2

per cent, and the value of products, \$4,094,363,689, or 176.5 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in the 77 cities in 1919 represented 59.8 per cent of the total in the state. They reported in that year 61.7 per cent of the average number of wage earners and 63.7 per cent of the total value of products.

Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state (Table 16).—This table presents the principal industries in each of the 13 cities in the state having 50,000 inhabitants or more in 1920, the figures being given for those which can be shown without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 904,528 horsepower, or 25.5 per cent. This increase, however, is chiefly due to the gain of 629,690 horsepower, or 175.8 per cent, in rented power. The owned power increased 274,838 horsepower, or 8.6 per cent, during the five-year period.

Fuel consumed (Table 18).—This table shows the quantities of the principal kinds of fuel used by all the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel, and by the cities of 10,000 inhabitants or more. There were increases in each of the several kinds of fuel used in 1919 as compared with 1914. In 1919, of the total anthracite coal consumed, 47.2 per cent was used in the steam-railroad repair shops, the manufacture of cement, iron and steel rolling mills, petroleum refining, and zinc smelters; two industries combined—coke and iron and steel rolling mills—consumed 73.6 per cent of the bituminous coal; 82 per cent of the coke used was consumed in the iron and steel blast furnaces, while iron and steel rolling mills used 39.9 per cent of the fuel oils and 57.8 per cent of the gas.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. ¹			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	27,973	27,521	27,563	23,495	23,462	1.6	-0.2	17.3	0.1
Persons engaged.....	1,323,662	1,060,562	1,002,171	855,302	(²)	24.8	5.8	17.2	.....
Proprietors and firm members.....	27,433	28,034	29,743	29,029	(²)	-2.1	-5.7	14.3	.....
Salaried employees.....	160,392	108,050	94,885	66,081	43,035	48.4	13.9	43.6	50.4
Wage earners (average number).....	1,135,837	924,478	877,543	763,282	663,960	22.9	5.3	15.0	15.0
Primary horsepower.....	4,454,386	3,549,858	2,921,547	2,302,398	1,718,694	25.5	21.5	26.9	34.1
Capital.....	\$6,177,729,908	\$3,149,411,089	\$2,749,005,975	\$1,995,836,988	\$1,446,814,740	96.2	14.6	37.7	37.7
Salaries and wages.....	1,740,829,353	672,563,002	566,524,032	441,220,897	343,021,028	158.8	18.7	28.4	28.6
Salaries.....	834,763,215	144,610,485	110,897,242	73,269,007	46,145,490	131.5	30.4	51.4	58.8
Wages.....	1,406,066,138	527,952,517	455,626,790	367,960,890	296,875,548	160.3	15.9	23.8	23.9
Paid for contract work.....	45,761,912	20,604,279	14,582,289	13,344,850	(²)	122.1	41.3	9.3	.....
Rent and taxes.....	243,891,435	52,456,012	41,552,083	13,969,474	(²)	364.9	26.2	.....	.....
Cost of materials.....	4,210,408,628	1,688,920,716	1,582,559,988	1,142,942,707	958,301,272	149.3	6.7	38.5	19.3
Value of products.....	7,315,702,867	2,832,349,437	2,626,742,034	1,955,551,332	1,649,882,380	158.3	7.8	34.3	18.5
Value added by manufacture ⁴	3,105,294,239	1,143,428,721	1,044,182,046	812,608,625	691,681,108	171.6	9.5	28.5	17.5

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

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TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
The state.....	27, 973	1, 135, 837	\$1, 406, 066, 138	\$243, 801, 435	\$4, 210, 408, 628	\$7, 315, 702, 887	\$3, 105, 294, 239	4, 454, 386
Adams.....	145	2, 040	1, 527, 788	268, 641	5, 462, 520	8, 564, 398	3, 101, 878	5, 269
Allegheny.....	2, 655	173, 561	256, 067, 216	43, 154, 443	762, 024, 105	1, 347, 745, 164	585, 721, 059	1, 015, 130
Armstrong.....	150	4, 883	6, 756, 652	1, 087, 002	11, 607, 316	24, 158, 139	12, 550, 823	38, 306
Beaver.....	250	24, 474	39, 232, 351	5, 061, 926	123, 100, 735	201, 950, 502	78, 849, 767	211, 799
Bedford.....	159	1, 404	1, 463, 185	84, 033	6, 326, 746	9, 080, 375	2, 753, 629	13, 033
Berks.....	1, 031	41, 072	39, 910, 273	6, 316, 351	112, 504, 439	193, 859, 538	81, 355, 099	91, 078
Blair.....	167	19, 973	27, 711, 579	653, 259	52, 436, 440	87, 880, 380	35, 423, 940	33, 208
Bradford.....	147	4, 529	5, 528, 335	780, 366	12, 803, 273	22, 091, 853	9, 288, 676	15, 252
Bucks.....	498	15, 086	18, 730, 984	1, 801, 334	35, 611, 865	68, 876, 083	32, 993, 178	24, 189
Butler.....	188	6, 803	8, 797, 431	2, 212, 370	45, 624, 540	61, 741, 349	16, 116, 809	46, 063
Cambria.....	276	15, 023	25, 828, 491	2, 660, 635	56, 147, 860	97, 554, 133	41, 406, 273	165, 066
Cameron.....	21	989	1, 164, 447	219, 614	4, 453, 356	7, 779, 461	3, 326, 105	3, 629
Carbon.....	110	7, 398	7, 706, 958	1, 176, 767	18, 960, 890	40, 833, 425	21, 872, 529	31, 066
Centre.....	169	1, 985	1, 794, 343	148, 299	3, 697, 861	7, 251, 650	3, 553, 789	7, 866
Chester.....	336	12, 561	15, 788, 142	1, 174, 482	49, 619, 136	76, 895, 119	27, 275, 983	115, 836
Clarion.....	124	1, 243	1, 404, 097	64, 327	2, 121, 784	4, 493, 925	2, 372, 141	5, 284
Clearfield.....	267	5, 904	6, 232, 319	473, 991	15, 448, 030	27, 516, 334	12, 068, 304	19, 832
Clinton.....	133	5, 907	6, 808, 193	324, 353	12, 460, 615	23, 062, 540	11, 201, 931	10, 866
Columbia.....	183	6, 064	7, 349, 327	2, 980, 758	31, 459, 020	47, 116, 637	15, 656, 617	15, 687
Crawford.....	202	3, 745	4, 095, 026	523, 112	15, 229, 312	25, 288, 508	10, 059, 496	12, 806
Cumberland.....	188	4, 289	3, 913, 880	447, 592	9, 358, 305	17, 430, 992	8, 072, 687	7, 348
Dauphin.....	416	23, 765	27, 161, 223	5, 780, 524	93, 830, 257	163, 518, 414	69, 670, 157	122, 101
Delaware.....	302	67, 396	93, 604, 495	15, 417, 008	193, 030, 946	382, 989, 130	189, 952, 184	151, 241
Elk.....	96	5, 793	7, 504, 309	871, 540	24, 927, 861	43, 207, 007	18, 279, 146	35, 084
Erie.....	455	22, 944	28, 920, 511	5, 493, 222	58, 425, 857	128, 896, 694	70, 440, 807	83, 318
Fayette.....	307	11, 448	13, 721, 589	1, 660, 525	41, 825, 426	68, 806, 386	26, 980, 060	32, 822
Forest.....	16	1, 067	1, 039, 712	87, 789	3, 757, 185	6, 634, 808	2, 877, 623	2, 792
Franklin.....	170	5, 293	5, 789, 364	959, 328	13, 151, 990	25, 059, 673	11, 907, 674	11, 305
Fulton.....	44	77	54, 144	759	210, 438	399, 912	180, 474	7, 778
Greene.....	51	457	481, 424	16, 732	1, 227, 494	2, 112, 513	885, 019	3, 811
Huntingdon.....	179	3, 611	3, 418, 523	313, 709	6, 215, 824	12, 519, 062	6, 303, 838	11, 356
Indiana.....	198	2, 340	3, 102, 961	106, 241	11, 507, 466	17, 344, 313	5, 836, 847	13, 117
Jefferson.....	153	2, 602	3, 067, 113	367, 740	12, 029, 070	18, 960, 800	6, 930, 890	12, 284
Juniata.....	81	656	545, 050	15, 878	1, 317, 545	2, 332, 326	1, 014, 781	2, 026
Lackawanna.....	484	21, 124	17, 506, 710	2, 644, 512	37, 628, 580	73, 583, 554	35, 954, 974	40, 461
Lancaster.....	906	23, 590	19, 859, 638	4, 085, 017	65, 588, 395	112, 445, 407	46, 857, 012	40, 652
Lawrence.....	172	20, 329	38, 634, 029	3, 225, 555	142, 749, 930	200, 021, 383	66, 271, 453	232, 209
Lebanon.....	313	10, 076	8, 772, 282	704, 401	25, 810, 309	43, 940, 189	18, 129, 880	55, 964
Lehigh.....	667	24, 215	23, 593, 093	4, 875, 881	86, 334, 887	149, 098, 110	62, 763, 243	93, 379
Luzerne.....	579	24, 856	21, 400, 073	4, 616, 793	46, 776, 637	94, 702, 494	47, 925, 857	43, 086
Lycoming.....	317	12, 081	11, 040, 942	1, 567, 467	32, 502, 953	58, 912, 199	26, 409, 246	31, 763
McKean.....	206	5, 419	6, 586, 411	1, 218, 170	20, 894, 033	38, 241, 405	17, 347, 372	19, 196
Mercer.....	177	15, 695	26, 919, 047	1, 320, 469	88, 167, 669	129, 812, 015	41, 644, 346	127, 826
Mifflin.....	76	4, 917	5, 491, 457	222, 875	9, 270, 336	22, 208, 481	12, 038, 145	9, 361
Monroe.....	100	2, 000	1, 575, 682	154, 156	5, 284, 137	8, 544, 527	3, 260, 890	5, 133
Montgomery.....	712	28, 580	31, 811, 601	5, 437, 611	108, 952, 718	175, 283, 478	66, 310, 760	132, 076
Montour.....	51	1, 636	1, 465, 780	90, 180	4, 157, 401	6, 148, 154	1, 090, 753	8, 338
Northampton.....	427	32, 676	40, 390, 569	3, 685, 538	104, 360, 358	200, 405, 171	96, 044, 813	228, 902
Northumberland.....	285	11, 468	11, 652, 394	1, 021, 721	31, 259, 726	50, 149, 608	18, 889, 782	27, 666
Perry.....	106	992	887, 254	22, 051	3, 036, 661	4, 466, 442	1, 429, 781	4, 987
Philadelphia.....	9, 064	281, 105	326, 792, 395	81, 305, 466	1, 156, 340, 319	1, 096, 481, 074	840, 140, 755	528, 480
Pike.....	49	174	120, 822	3, 899	140, 076	414, 740	274, 664	1, 112
Potter.....	81	2, 028	2, 134, 054	306, 824	9, 355, 311	14, 180, 744	4, 825, 433	9, 333
Schuylkill.....	457	12, 060	10, 181, 108	1, 231, 525	29, 931, 564	50, 345, 292	20, 413, 728	38, 033
Snyder.....	85	785	434, 074	28, 850	2, 997, 869	4, 612, 527	1, 514, 658	2, 699
Somerset.....	175	791	789, 617	60, 640	1, 340, 220	3, 018, 767	1, 678, 547	5, 471
Sullivan.....	41	404	371, 633	24, 130	2, 030, 581	2, 714, 451	683, 870	1, 899
Susquehanna.....	81	2, 055	2, 478, 470	42, 895	3, 794, 864	7, 124, 401	3, 329, 537	4, 079
Tioga.....	94	1, 773	1, 755, 101	298, 943	13, 172, 997	19, 886, 255	6, 713, 258	5, 526
Union.....	52	973	724, 038	15, 100	3, 267, 591	4, 799, 323	1, 531, 782	2, 295
Venango.....	118	6, 115	8, 474, 350	1, 587, 589	40, 439, 593	58, 799, 158	18, 356, 695	17, 460
Warren.....	188	4, 472	5, 081, 777	987, 146	29, 812, 327	43, 492, 046	13, 679, 719	16, 902
Washington.....	380	15, 890	23, 498, 512	2, 483, 340	65, 363, 548	106, 004, 443	40, 640, 895	96, 009
Wayne.....	170	2, 453	1, 752, 613	178, 387	5, 192, 046	9, 356, 881	4, 164, 835	6, 349
Westmoreland.....	511	31, 066	47, 527, 289	10, 516, 265	117, 277, 236	215, 621, 666	98, 344, 430	168, 059
Wyoming.....	53	510	481, 550	18, 163	3, 514, 859	4, 843, 139	1, 628, 280	3, 454
York.....	1, 023	27, 117	23, 679, 533	7, 210, 011	65, 722, 460	122, 964, 979	57, 242, 519	60, 679

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent. distribution.	Amount (expressed in thousands of dollars).	Per cent. distribution.	Amount (expressed in thousands of dollars).	Per cent. distribution.			Average number.	Per cent. distribution.	Amount (expressed in thousands of dollars).	Per cent. distribution.	Amount (expressed in thousands of dollars).	Per cent. distribution.
All industries.....	27,973	1,135,837	100.0	7,315,703	100.0	3,105,294	100.0	Automobile repairing.....	1,359	5,225	0.5	20,682	0.3	12,318	0.4
Iron and steel, steel works and rolling mills.....	198	171,715	15.1	1,206,412	17.7	518,939	16.7	Wire.....	11	2,203	0.2	19,596	0.3	5,379	0.2
Foundry and machine-shop products.....	1,267	71,087	6.3	306,383	5.0	205,016	6.6	Food preparations, not elsewhere specified.....	145	1,482	0.1	19,434	0.3	4,479	0.1
Iron and steel, blast furnaces.....	58	14,619	1.3	311,080	4.3	66,120	2.1	Hats, fur-lent.....	20	5,414	0.5	17,995	0.2	12,077	0.4
Shipbuilding, including boat building.....	28	56,211	4.9	237,325	3.2	118,608	3.8	Machine tools.....	32	3,671	0.3	18,797	0.2	12,029	0.4
Silk goods, including throwsters.....	373	53,052	4.7	231,711	3.2	105,424	3.4	Soap.....	53	1,214	0.1	16,063	0.2	5,710	0.2
Cars and general shop construction and repairs by steam-railroad companies.....	195	78,749	6.9	231,534	3.2	128,370	4.1	Copper, tin, and sheet-iron work.....	453	2,883	0.3	14,824	0.2	7,790	0.2
Leather, tanned, curried, and finished.....	92	13,749	1.2	211,389	2.9	64,984	2.1	Cotton lace.....	13	3,140	0.3	14,814	0.2	8,404	0.3
Knit goods.....	606	44,156	3.9	183,261	2.6	71,564	2.3	Coffee and spice, roasting and grinding.....	85	522	(1)	14,070	0.2	2,732	0.1
Petroleum, refining.....	53	8,235	0.7	178,826	2.4	43,844	1.4	Textile machinery and parts.....	64	3,705	0.3	14,355	0.2	8,904	0.3
Cars, steam-railroad, not including operations of railroad companies.....	15	11,075	1.0	146,879	2.0	53,012	1.9	Boxes, paper and other, not elsewhere specified.....	150	5,209	0.5	14,003	0.2	7,394	0.2
Sugar, refining, not including beet sugar.....	4	3,221	0.3	133,796	1.8	14,000	0.4	Tools, not elsewhere specified.....	104	2,779	0.3	13,718	0.2	8,701	0.3
Bread and other bakery products.....	2,651	10,410	1.4	132,880	1.8	49,407	1.6	Minerals and earths, ground or otherwise treated.....	105	4,914	0.4	13,497	0.2	9,425	0.3
Electrical machinery, apparatus, and supplies.....	129	24,228	2.1	132,674	1.8	31,316	2.6	Ice, manufactured.....	226	2,733	0.2	12,680	0.2	5,548	0.3
Slaughtering and meat packing.....	178	4,438	0.4	122,862	1.7	15,581	0.5	Druggists' preparations.....	62	2,215	0.2	12,606	0.2	7,793	0.3
Coke, not including gas-house coke.....	123	11,536	1.0	119,731	1.6	39,377	1.3	Hardware.....	62	4,112	0.4	12,030	0.2	7,424	0.2
Worsted goods.....	89	15,400	1.4	118,475	1.6	35,963	1.2	Patent medicines and compounds.....	234	989	0.1	11,913	0.2	6,301	0.2
Printing and publishing, newspapers and periodicals.....	963	12,331	1.1	106,667	1.5	67,619	2.2	Stoves and hot-air furnaces.....	56	3,210	0.3	11,783	0.2	7,362	0.3
Tobacco, cigars and cigarettes.....	1,595	30,380	2.7	98,371	1.3	55,421	1.8	Springs, steel, car and carriage, not made in steel works or rolling mills.....	18	1,618	0.1	11,639	0.2	5,161	0.2
Glass.....	102	21,602	1.9	80,480	1.1	52,822	1.7	Wirework, including wire rope and cable, not elsewhere specified.....	51	2,018	0.2	11,477	0.2	4,981	0.2
Structural ironwork, not made in steel works or rolling mills.....	145	10,722	0.9	78,306	1.1	32,824	1.1	Explosives.....	26	1,217	0.1	11,446	0.2	5,344	0.2
Clothing, women's.....	615	14,364	1.3	77,474	1.1	31,257	1.0	Steam packing.....	33	1,775	0.2	11,358	0.2	5,802	0.2
Chemicals.....	56	7,134	0.6	73,333	1.0	40,552	1.5	Millinery and lace goods, not elsewhere specified.....	117	3,200	0.3	11,303	0.2	5,666	0.2
Clothing, men's.....	602	12,855	1.1	73,170	1.0	34,960	1.1	Marble and stone work.....	489	3,097	0.3	11,132	0.2	6,820	0.2
Confectionery and ice cream.....	339	11,010	1.0	71,120	1.0	28,590	0.9	Boot and shoe cut stock.....	11	367	(1)	11,074	0.2	2,535	0.1
Flour-mill and gristmill products.....	1,138	2,198	0.2	69,446	0.9	9,462	0.3	Roofing materials.....	23	1,170	0.1	10,837	0.1	4,507	0.1
Automobiles.....	25	4,434	0.4	68,491	0.9	17,070	0.5	Plumbers' supplies, not elsewhere specified.....	30	2,152	0.2	10,547	0.1	5,820	0.2
Cotton goods.....	118	9,767	0.9	66,404	0.9	27,584	0.9	Grease and tallow, not including lubricating greases.....	61	1,185	0.1	10,247	0.1	2,648	0.1
Boots and shoes, not including rubber boots and shoes.....	128	13,317	1.2	65,412	0.9	24,440	0.8	Cooperage.....	92	1,160	0.1	9,874	0.1	3,073	0.1
Paper and wood pulp.....	56	9,843	0.9	64,716	0.9	29,073	0.9	Cordage and twine.....	19	1,970	0.2	9,843	0.1	3,875	0.1
Liquors, malt.....	166	5,231	0.5	59,332	0.8	44,925	1.4	Butter.....	160	357	(1)	9,718	0.1	1,385	(1)
Tin plate and terneplate.....	11	2,005	0.2	58,816	0.8	14,061	0.5	Coal-tar products.....	19	1,333	0.1	9,492	0.1	3,283	0.1
Cement.....	22	7,443	0.7	54,540	0.7	29,166	0.9	Cotton small wares.....	37	2,472	0.2	9,364	0.1	3,668	0.1
Engines, steam, gas, and water.....	34	9,711	0.9	52,574	0.7	33,738	1.1	Coffins, burial cases, and undertakers' goods.....	41	1,824	0.2	9,312	0.1	4,048	0.1
Chocolate and cocoa products.....	10	3,231	0.3	48,660	0.7	16,398	0.5	Dental goods.....	56	2,853	0.3	9,300	0.1	6,024	0.2
Woolen goods.....	108	7,398	0.7	48,240	0.7	19,900	0.6	Fertilizers.....	31	1,021	0.1	8,731	0.1	2,880	0.1
Carpets and rugs, other than rag.....	48	7,626	0.7	47,480	0.6	19,948	0.6	Iron and steel, cast-iron pipe.....	7	1,707	0.1	8,710	0.1	4,556	0.1
Printing and publishing, book and job.....	1,289	10,461	0.9	46,153	0.6	28,865	0.9	Stamped and enameled ware, not elsewhere specified.....	30	2,179	0.2	8,478	0.1	4,277	0.1
Automobile bodies and parts.....	177	10,274	0.9	45,329	0.6	20,621	0.7	Waste.....	44	702	0.1	8,413	0.1	2,468	0.1
Brick and tile, terra-cotta, and fire-clay products.....	303	15,897	1.4	43,842	0.6	27,330	0.9	Cars and general shop construction and repairs by electric-railroad companies.....	80	4,122	0.4	8,306	0.1	5,190	0.2
Dyeing and finishing textiles, exclusive of that done in textile mills.....	103	7,381	0.6	42,475	0.6	22,760	0.7	Mineral and soda waters.....	521	1,115	0.1	7,826	0.1	3,766	0.1
Furniture.....	335	10,954	1.0	42,344	0.6	22,665	0.7	Asbestos products, not including steam packing.....	9	1,150	0.1	7,820	0.1	3,228	0.1
Iron and steel forgings, not made in steel works or rolling mills.....	48	6,197	0.5	38,709	0.5	19,760	0.6	Boxes, wooden packing, except cigar boxes.....	63	1,401	0.1	7,557	0.1	2,956	0.1
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	31	4,880	0.4	35,792	0.5	16,019	0.5	Lime.....	158	2,539	0.2	7,556	0.1	4,554	0.1
Paints.....	88	3,144	0.3	35,748	0.5	12,280	0.4	Tinware, not elsewhere specified.....	38	1,301	0.1	7,489	0.1	2,576	0.1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	538	7,101	0.6	35,125	0.5	16,030	0.5	Umbrellas and canes.....	21	1,376	0.1	7,247	0.1	2,878	0.1
Brass, bronze, and copper products.....	125	4,053	0.4	33,496	0.5	12,069	0.4	Bags, other than paper, not including bags made in textile mills.....	14	349	(1)	6,980	0.1	1,753	0.1
Gas, illuminating and heating.....	86	3,324	0.3	31,598	0.4	14,208	0.5	Trunks and valises.....	86	1,115	0.1	6,621	0.1	3,560	0.1
Ferroalloys.....	10	1,500	0.1	31,419	0.4	7,859	0.3	Instruments, professional and scientific.....	59	1,701	0.1	6,436	0.1	4,162	0.1
Condensed milk.....	49	1,355	0.1	31,029	0.4	6,048	0.2	Cork, cutting.....	11	1,570	0.1	6,371	0.1	2,773	0.1
Steam fittings and steam and hot-water heating apparatus.....	52	5,919	0.5	30,725	0.4	17,507	0.6	Mattresses and spring beds, not elsewhere specified.....	73	1,083	0.1	6,343	0.1	2,420	0.1
Pickles, preserves, and sauces.....	48	2,288	0.2	26,189	0.4	11,245	0.4	Smelting and refining, not from the ore.....	11	188	(1)	5,912	0.1	862	(1)
Oil, not elsewhere specified.....	37	632	0.1	25,479	0.3	8,228	0.3	Gas machines and gas and water meters.....	13	1,196	0.1	5,732	0.1	3,809	0.1
Iron and steel, wrought pipe.....	10	3,467	0.3	25,479	0.3	7,868	0.3	Wool pulling.....	4	150	(1)	5,604	0.1	1,563	0.1
Lumber and timber products.....	1,334	7,703	0.7	25,031	0.3	17,187	0.6	Wall paper, not made in paper mills.....	12	999	0.1	5,589	0.1	2,006	0.1
Shirts.....	210	8,932	0.8	24,775	0.3	10,177	0.3	Belted leather.....	17	414	(1)	5,574	0.1	1,996	0.1
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	31	4,546	0.4	23,102	0.3	10,521	0.3	Wood distillation.....	44	1,211	0.1	5,542	0.1	2,288	0.1
Oilcloth and linoleum, floor.....	5	2,549	0.2	22,806	0.3	10,932	0.4	Agricultural implements.....	27	1,371	0.1	5,536	0.1	2,940	0.1
								Paving materials.....	177	2,285	0.2	5,442	0.1	3,897	0.1
								Tobacco, chewing and smoking, and snuff.....	64	405	(1)	5,423	0.1	1,875	0.1
								Furnishing goods, men's.....	46	1,721	0.2	5,399	0.1	2,336	0.1
								All other industries.....	3,988	90,748	8.0	471,716	6.4	236,070	7.6

¹ Less than one-tenth of 1 per cent.

² Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Aluminum manufactures"; "cars, electric-railroad, not including operations of railroad companies"; "locomotives, not made by railroad companies"; and "smelting and refining, zinc."

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TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 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	1,323,662	1,060,165	263,497	80.1	19.9	Clerks and other subordinate salaried employees.	1919	113,922	74,925	38,997	65.8	34.2
	1914	1,060,562	844,300	216,262	79.6	20.4		1914	82,703	64,959	17,744	78.5	21.5
	1909	1,002,171	802,548	199,623	80.1	19.9		1909	69,982	55,703	14,279	79.7	20.3
Proprietors and officials.....	1919	73,903	71,081	2,822	96.2	3.8	Wage earners (average number).....	1919	1,135,837	914,159	221,678	80.5	19.5
	1914	53,381	51,761	1,620	97.0	3.0		1914	924,478	727,580	196,898	78.7	21.3
	1909	54,696	52,951	1,745	96.8	3.2		1909	877,543	693,894	183,649	79.1	20.9
Proprietors and firm members...	1919	27,433	26,350	1,083	96.1	3.9	16 years of age and over.....	1919	1,116,805	904,924	211,881	81.0	19.0
	1914	28,034	26,918	1,116	96.0	4.0		1914	897,469	715,044	182,425	79.7	20.3
	1909	29,743	28,550	1,193	96.0	4.0		1909	848,436	679,831	168,605	80.1	19.9
Salaried officers of corporations...	1919	13,841	13,402	439	96.8	3.2	Under 16 years of age.....	1919	19,032	9,235	9,797	48.5	51.5
	1914	8,588	8,372	216	97.5	2.5		1914	27,009	12,536	14,473	46.4	53.6
	1909	8,410	8,286	124	98.5	1.5		1909	29,107	14,063	15,044	48.3	51.7
Superintendents and managers...	1919	32,629	31,329	1,300	96.0	4.0							
	1914	16,759	16,478	286	98.3	1.7							
	1909	10,543	10,115	428	97.4	2.6							

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Cen- sus year.	Wage earners (average num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (average num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919	1,135,837	79.7	18.7	1.7	Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	7,381	79.9	18.4	1.7
	1914	924,478	77.3	19.7	2.9		1914	6,389	86.0	11.7	2.3
	1909	877,543	77.5	19.2	3.3	Electrical machinery, apparatus, and sup- plies.	1919	24,228	82.6	16.9	0.5
Automobile bodies and parts.....	1919	10,274	97.8	1.8	0.4		1914	14,866	87.5	11.8	0.8
	1914	1,440	98.6	0.7	0.7	Engines, steam, gas, and water.....	1919	9,711	97.7	2.2	0.1
Automobiles.....	1919	4,434	97.0	3.0	0.1		1914	5,222	99.9	0.1	(¹)
	1914	1,943	99.0	0.3	0.7	Foundry and machine-shop products ²	1919	79,009	97.3	2.3	0.5
Automobile repairing.....	1919	5,225	98.5	0.6	0.9		1914	57,116	98.6	0.9	0.6
	1914	1,608	99.8	0.1	0.1	Furniture.....	1919	10,954	91.1	7.9	1.0
Boots and shoes, not including rubber boots and shoes.	1919	13,317	56.3	37.4	6.3		1914	11,760	95.6	3.1	1.3
	1914	13,184	60.4	33.6	6.0	Glass.....	1919	21,602	87.3	10.4	2.2
Boxes, paper and other, not elsewhere specified.	1919	5,209	32.5	62.1	5.5		1914	23,606	89.1	5.5	5.4
	1914	5,140	29.1	59.4	11.6	Hardware.....	1919	4,112	76.0	17.7	6.3
Brass, bronze, and copper products.....	1919	4,053	97.1	2.8	0.2		1914	5,112	85.2	8.8	6.0
	1914	1,940	98.1	1.4	0.4	Hats, fur-felt.....	1919	5,414	75.9	20.8	3.3
Bread and other bakery products.....	1919	16,410	75.8	23.0	1.2		1914	6,714	76.2	22.4	2.4
	1914	15,157	82.9	15.2	1.9	Iron and steel, blast furnaces.....	1919	14,019	99.9	0.1	(¹)
Brick and tile, terra-cotta, and fire-clay products.	1919	15,897	98.4	0.8	0.8		1914	11,518	99.9	(¹)	(¹)
	1914	17,412	98.0	0.6	1.4	Iron and steel, steel works and rolling mills.	1919	171,715	99.3	0.7	0.1
Carpets and rugs, other than rag.....	1919	7,626	60.5	36.7	2.8		1914	131,955	99.1	0.8	0.5
	1914	9,569	64.7	31.9	3.3	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	4,546	90.2	8.9	0.9
Cars and general shop construction and re- pairs by electric-railroad companies.	1919	4,122	95.7	4.3	0.1		1914	2,547	92.8	4.4	2.8
	1914	2,972	99.6	0.3	0.1	Iron and steel forgings, not made in steel works or rolling mills.	1919	6,197	94.1	5.0	0.9
Cars and general shop construction and re- pairs by steam-railroad companies.	1919	78,749	98.2	1.8	(¹)		1914	2,205	97.2	(¹)	2.7
	1914	54,729	99.7	0.3	(¹)	Knit goods.....	1919	44,156	21.2	70.8	8.0
Cars, steam-railroad, not including opera- tions of railroad companies.	1919	11,675	98.7	1.2	0.1		1914	41,130	21.0	69.5	9.4
	1914	9,955	99.7	0.3	(¹)	Leather, tanned, curried, and finished.....	1919	13,749	92.5	6.9	0.6
Cement.....	1919	7,443	98.9	0.8	0.3		1914	11,988	95.0	4.2	0.9
	1914	7,910	99.5	(¹)	0.5	Liquors, malt.....	1919	5,231	99.6	0.3	(¹)
Chemicals.....	1919	7,184	77.1	21.7	1.2		1914	7,512	99.7	0.2	0.1
	1914	4,748	86.2	11.4	2.4	Lumber and timber products.....	1919	7,703	99.5	0.4	0.1
Clothing, men's.....	1919	12,855	42.4	55.0	2.6		1914	10,754	99.5	0.4	0.1
	1914	10,236	48.3	49.6	2.1	Lumber, planing-mill products, not includ- ing planing mills connected with saw- mills.	1919	7,191	97.5	2.1	0.4
Clothing, women's.....	1919	14,364	24.6	74.7	0.7		1914	8,588	97.8	1.4	0.9
	1914	17,217	29.9	68.8	1.3	Marble and stone work.....	1919	3,697	98.9	0.6	0.5
Coke, not including gas-house coke.....	1919	11,536	98.9	(¹)	0.1		1914	7,166	99.5	0.1	0.4
	1914	9,871	99.1	(¹)	0.9	Minerals and earths, ground or otherwise treated.	1919	4,914	99.7	0.2	0.1
Confectionery and ice cream.....	1919	11,010	50.9	45.5	3.7		1914	822	99.8	.....	0.2
	1914	8,038	46.3	47.7	0.1	Paper and wood pulp.....	1919	9,843	92.4	7.5	0.1
Cotton goods.....	1919	9,767	51.9	45.5	2.6		1914	7,447	92.2	7.6	0.2
	1914	9,153	50.3	42.9	6.8						

¹ Less than one-tenth of 1 per cent.

² Includes "iron and steel, tempering and welding"; "machine tools"; "steel barrels, drums, and tanks"; and "textile machinery and parts".

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914—Continued.

INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL.			INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL.		
			16 years of age and over.		Under 16 years of age.				16 years of age and over.		Under 16 years of age.
			Male.	Female.					Male.	Female.	
Petroleum, refining.	1919 1914	8,235 4,902	97.7 98.9	2.3 0.6	(1) 0.4	Steam fittings and steam and hot-water heating apparatus.	1919 1914	5,919 5,747	95.4 96.4	4.2 1.8	0.4 1.9
Printing and publishing, book and job.	1919 1914	10,461 10,139	69.9 73.1	26.6 23.2	3.5 3.7	Structural ironwork, not made in steel works or rolling mills.	1919 1914	10,722 9,308	99.3 99.7	0.6 0.2	(1) 0.1
Printing and publishing, newspapers and periodicals.	1919 1914	12,331 12,750	78.8 77.8	18.0 18.8	3.2 3.4	Tobacco, cigars and cigarettes.	1919 1914	30,380 36,931	32.9 36.4	66.4 60.5	0.7 3.2
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919 1914	4,880 3,172	83.2 85.9	14.1 12.2	2.7 1.8	Tools, not elsewhere specified.	1919 1914	3,779 2,077	93.3 97.5	6.1 1.2	0.6 1.2
Shipbuilding, including boat building.	1919 1914	56,211 4,773	99.3 98.0	0.5 0.3	0.2 1.1	Woolen goods.	1919 1914	7,398 5,960	62.2 61.7	36.2 34.5	1.6 3.8
Shirts.	1919 1914	8,932 10,890	13.9 10.9	82.1 77.6	4.0 5.6	Worsted goods.	1919 1914	15,400 17,292	39.3 37.8	55.5 61.8	5.2 10.4
Silk goods, including throwsters.	1919 1914	53,052 44,755	28.6 29.6	63.9 57.9	7.5 12.5	All other industries.	1919 1914	196,027 175,229	78.3 78.1	19.7 19.2	2.1 2.7
Slaughtering and meat packing.	1919 1914	4,438 3,616	91.4 97.4	8.4 2.2	0.2 0.4						

1 Less than one-tenth of 1 per cent.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			16 years of age and over.						Under 16 years of age.					
				Male.			Female.								
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Allentown.....	14,812	13,685	11,481	9,650	8,278	6,520	4,640	4,738	4,386	522	669	575	\$90,834,488	\$33,918,299	\$26,263,327
Altoona.....	12,800	10,732	8,409	11,670	10,077	7,797	1,051	535	478	79	120	134	53,946,093	22,592,676	16,702,738
Ambridge.....	3,414			3,194			211			9			26,768,145		
Beaver Falls.....	3,204	2,639	2,180	2,977	2,413	1,980	185	152	137	42	74	63	20,414,439	7,963,420	6,400,338
Bethlehem.....	14,961	12,388	9,568	12,807	10,079	7,882	1,949	1,965	1,440	205	344	246	102,567,075	43,965,949	30,128,705
Braddock.....	1,170	1,140	1,040	1,150	1,128	1,005	18	10	7	2	2	28	9,438,995	4,021,540	5,094,382
Bradford.....	1,539	1,178	1,318	1,373	1,052	1,123	152	115	162	14	11	33	10,861,158	4,034,401	3,886,538
Bristol.....	1,470	1,809		743	956		661	721		66	132		5,697,607	5,037,120	
Butler.....	3,744	3,303	2,807	3,371	3,169	2,720	338	97	61	35	37	26	44,476,790	15,006,393	11,033,726
Canonsburg.....	2,971			2,688			279			4			16,894,336		
Carbondale.....	861	1,897	1,503	547	1,333	1,220	252	451	235	62	113	48	3,187,996	3,170,410	2,523,387
Carlisle.....	1,422	1,603	1,334	907	1,064	835	463	481	426	52	58	73	6,543,455	3,414,950	2,495,710
Carnegie.....	222	337	337	200	309	325	21	24	10	1	4	2	2,789,605	1,724,111	1,183,545
Carrick.....	16			14			2						120,849		
Chambersburg.....	1,996	1,650	1,364	1,698	1,287	1,165	254	306	149	44	57	50	8,791,872	3,075,292	2,456,035
Charlertoi.....	2,023	1,904		1,537	1,443		452	287		34	174		5,687,212	2,909,338	
Chester.....	18,677	6,295	6,886	16,781	4,637	5,260	1,847	1,472	1,488	49	186	238	95,949,003	21,021,170	19,373,314
Columbia.....	2,322	2,141	2,773	1,543	1,424	1,966	698	632	643	81	85	164	9,812,018	3,340,702	4,807,068
Connellsville.....	1,623	1,087	1,035	1,522	1,038	1,005	96	43	27	5	6	3	4,663,847	1,993,667	1,970,936
Dickson City.....	806			169			520			117			903,003		
Du Bois.....	1,397	1,105	920	1,347	1,096	909	47	7	10	3	2	1	3,937,516	2,394,534	1,753,473
Dunmore.....	1,360	948	1,019	1,106	797	789	208	116	173	46	35	57	3,627,815	1,268,939	1,494,182
Easton.....	4,672	4,062	3,388	3,427	3,062	2,392	1,145	904	881	100	90	115	27,011,928	10,857,227	6,916,345
Erie.....	13,297	11,016	9,619	11,375	9,443	8,415	1,651	1,242	934	271	331	270	70,407,540	29,447,084	23,812,488
Greensburg.....	653	494	270	583	428	242	70	47	26		19	2	3,999,934	1,882,472	687,190
Harrisburg.....	10,522	7,966	9,743	7,860	5,485	7,088	2,609	2,361	2,531	53	120	124	52,152,818	18,872,156	22,665,328
Hazleton.....	3,815	2,744	2,682	1,473	899	995	2,008	1,552	1,357	334	293	330	14,880,168	5,593,761	4,707,025
Homestead.....	513	260	171	435	231	154	64	26	13	14	3	4	3,759,223	1,019,118	659,196
Jeannette.....	1,090			1,723			224			43			8,546,036		
Johnstown.....	12,865	12,177	10,233	12,430	11,665	9,939	407	365	95	18	147	199	90,468,742	50,973,960	46,774,343
Lancaster.....	9,444	8,862	7,955	6,136	5,526	4,690	2,981	2,907	2,770	327	429	495	48,025,759	20,011,393	15,933,705
Lebanon.....	5,651	5,270	5,591	3,775	3,093	4,288	1,699	1,141	1,046	177	136	257	23,242,000	9,871,443	11,429,063
McKeesport.....	11,909	6,857	8,246	11,640	6,530	7,990	263	201	266	6	126	50	105,053,713	33,743,329	42,494,567
McKees Rocks.....	3,114	3,548	3,554	2,842	3,180	3,472	262	273	52	10	95	30	13,201,791	7,894,165	9,581,579
Mahanoy City.....	450	661	590	136	175	143	285	466	398	29	20	49	1,086,619	1,057,349	867,576
Meadville.....	1,841	1,676	2,036	1,490	1,318	1,640	343	326	382	8	32	14	7,943,712	5,057,962	3,497,957
Mount Carmel.....	1,221	978	600	259	167	87	911	845	364	51	166	149	3,382,485	1,279,906	785,391
Nanticoke.....	1,029	747	344	146	103	70	854	538	179	29	106	95	2,015,014	995,335	414,701
New Castle.....	8,014	6,381	5,521	7,449	6,055	5,327	537	304	158	28	22	36	91,370,018	38,884,877	38,340,711
New Kensington.....	3,704			3,266			436			2			22,550,749		
Norristown.....	3,534	3,959	3,818	2,111	2,127	1,940	1,324	1,681	1,676	99	151	202	18,334,230	8,421,430	7,324,501
Oil City.....	3,306	2,276	1,283	3,225	2,215	1,256	81	57	24		4	3	14,068,716	4,871,681	2,954,892
Old Forge.....	262			13			171			78			236,196		
Philadelphia.....	281,105	251,288	251,294	196,903	165,937	167,140	78,912	76,822	73,848	5,290	8,527	10,306	1,096,481,074	784,499,633	743,720,228
Phoenixville.....	2,410	2,927	2,599	1,922	2,295	1,934	419	473	585	69	159	80	12,435,097	6,238,757	5,876,154

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TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909—Continued.

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			16 years of age and over.						Under 16 years of age.					
				Male.			Female.								
				1919	1914	1909	1919	1914	1909	1919	1914	1909			
Pittsburgh.....	83,290	69,620	67,420	72,796	58,879	58,698	9,570	9,454	7,277	924	1,287	1,445	614,726,978	246,694,018	243,391,960
Pittston.....	974	729	792	460	438	351	500	250	390	14	41	51	3,335,864	1,899,812	1,969,452
Potomouth.....	538	478	908	156	107	285	302	315	518	40	56	105	1,285,256	831,439	1,178,606
Plytstown.....	4,099	2,622	3,619	3,170	1,971	2,938	848	553	594	81	98	87	23,582,795	8,865,890	12,502,394
Pottsville.....	2,977	3,506	2,808	1,918	2,382	2,021	971	845	628	88	279	159	16,115,011	10,195,800	8,978,913
Punxsutawney.....	457	710	.....	383	656	.....	73	39	.....	1	15	.....	3,268,087	2,227,620	.....
Reading.....	29,122	24,131	24,145	20,130	16,760	16,610	7,609	6,333	6,213	1,383	1,038	1,322	141,560,831	53,231,926	51,134,967
Scranton.....	14,467	12,559	12,851	8,008	7,095	6,756	5,794	4,686	5,008	665	778	1,027	54,629,522	28,721,829	26,364,825
Shamokin.....	3,251	2,634	1,623	1,125	688	359	1,986	1,435	1,016	140	511	248	11,600,141	5,541,617	3,544,095
Sharon.....	2,707	2,298	2,545	2,600	2,243	2,523	81	27	20	26	28	2	18,030,458	6,372,998	5,962,278
Shenandoah.....	759	475	242	202	238	158	550	209	76	7	28	8	4,028,327	1,573,464	887,503
Sunbury.....	2,128	1,718	2,069	1,516	1,239	1,585	549	411	430	63	68	54	10,130,785	5,115,641	4,450,159
Tamaqua.....	806	974	.....	377	307	.....	404	514	.....	25	93	.....	2,956,545	1,680,748	.....
Uniontown.....	573	776	335	547	763	325	25	12	4	1	1	0	3,320,002	2,237,177	1,340,865
Warren.....	2,154	1,876	1,489	1,896	1,776	1,295	237	95	179	21	5	15	18,091,994	8,611,207	5,744,321
Washington.....	2,880	2,002	1,896	2,067	1,766	1,703	211	171	129	2	65	64	13,837,807	5,093,672	4,310,691
West Chester.....	1,005	894	916	843	785	829	159	103	81	3	6	6	3,994,654	2,084,505	2,145,343
Wilkes-Barre.....	9,408	8,107	7,553	5,828	5,063	4,943	3,154	2,510	2,062	426	534	548	41,986,203	16,733,954	13,525,957
Wilkesburg.....	323	194	185	304	189	181	19	4	4	.....	1	.....	1,703,167	572,207	538,217
Williamsport.....	8,566	6,015	5,594	6,401	4,599	4,121	2,074	1,312	1,303	91	104	170	41,658,834	15,863,699	13,201,787
York.....	13,368	10,851	9,836	9,405	7,032	7,494	3,534	2,844	1,998	429	375	344	59,588,904	22,043,328	17,649,592
All other cities ¹	39,113	22,848	19,054	37,761	21,436	18,006	1,267	1,221	795	85	191	253	414,335,845	105,791,578	107,206,331

¹ All other cities embrace: Berwick, Coatesville, Donora, Duquesne, Farrell, Monessen, North Braddock, Olyphant, Steelton, Swissvale, and Woodlawn in 1919; Coatesville, Dickson City, Duquesne, Farrell, Monessen, North Braddock, Old Forge, and Steelton in 1914; and Coatesville, Duquesne, Monessen, North Braddock, Old Forge, South Sharon, and Steelton in 1909.

TABLE 7.—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.....	1,161,601	945,481	<i>816,927</i>	97.0	98.3	85.3	July.....	1,138,814	920,404	860,435	95.1	95.7	89.6
February.....	1,128,614	949,918	825,082	94.2	98.7	85.9	August.....	1,156,018	914,502	873,308	96.5	95.1	90.9
March.....	1,101,621	962,114	835,617	92.0	100.0	87.0	September.....	1,158,562	917,927	911,802	96.7	95.4	94.9
April.....	1,083,824	955,614	844,230	90.5	99.3	87.9	October.....	1,141,814	902,731	933,852	95.3	93.8	97.2
May.....	<i>1,083,521</i>	942,197	850,373	90.5	97.9	88.5	November.....	1,172,074	<i>878,138</i>	947,698	97.9	90.8	98.6
June.....	1,105,314	936,124	807,526	92.3	97.3	90.3	December.....	1,197,667	873,588	960,668	100.0	90.8	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.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

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

INDUSTRY AND CITY.	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.	
All industries.....	1,135,837	1,161,601	1,128,614	1,101,621	1,083,824	1,083,521	1,105,314	1,138,814	1,156,018	1,158,562	1,141,814	1,172,674	1,197,667	90.5
Males.....	914,159	947,824	916,914	889,521	871,700	868,328	889,374	916,900	932,072	932,112	910,450	935,017	958,796	90.6
Females.....	221,678	213,777	211,700	212,100	212,118	215,199	215,940	221,914	223,946	226,450	231,364	237,657	238,871	88.6
Automobile bodies and parts.....	10,274	8,329	8,628	8,826	9,106	9,032	9,790	10,061	10,652	11,148	11,091	12,431	12,895	64.6
Automobiles.....	4,434	3,755	4,091	3,917	3,939	4,392	4,603	4,574	4,067	4,680	4,731	4,893	4,966	75.6
Automobile repairing.....	5,225	4,797	4,802	4,909	5,090	5,207	5,343	5,410	5,505	5,462	5,381	5,386	5,408	87.1
Boots and shoes, not including rubber boots and shoes.....	13,317	12,606	12,617	12,787	13,027	13,193	13,344	13,598	13,669	13,613	13,768	13,811	13,871	90.2
Boxes, paper and other, not elsewhere specified.....	5,209	4,766	4,886	4,940	4,976	5,014	5,085	5,286	5,334	5,341	5,460	5,625	5,795	82.2
Brass, bronze, and copper products.....	4,053	4,420	4,220	3,982	3,853	3,667	3,645	3,812	3,983	4,102	4,169	4,301	4,482	81.3
Bread and other bakery products.....	16,410	16,164	16,775	15,919	16,001	16,080	16,389	16,552	16,514	16,602	16,720	17,024	17,180	91.8
Brick and tile, terra-cotta, and fire-clay products.....	15,897	15,710	14,715	14,657	15,048	15,211	15,618	16,201	16,685	17,046	16,904	16,576	16,413	85.9
Carpets and rugs, other than rag.....	7,626	6,341	6,806	6,965	6,695	7,507	8,081	8,327	8,446	8,559	8,402	8,620	8,813	95.9
Cars and general shop construction and repairs by electric-railroad companies.....	4,122	4,298	4,223	4,214	4,087	4,057	4,088	4,062	4,062	4,062	4,085	4,120	4,171	93.6
Cars and general shop construction and repairs by steam-railroad companies.....	78,749	82,286	77,122	72,304	71,979	73,292	74,887	78,464	80,083	81,887	84,242	84,367	84,075	85.3
Cement.....	11,675	16,239	13,117	11,961	11,981	12,066	12,131	12,151	11,070	9,909	7,894	9,596	11,879	45.5
Chemicals.....	7,443	6,422	6,310	6,383	6,766	7,012	7,508	8,027	8,106	8,355	8,368	8,089	7,970	75.4
Clothing, men's.....	12,855	11,182	11,238	11,088	11,699	11,023	12,457	13,075	13,366	14,004	14,421	14,583	14,634	80.5
Clothing, women's.....	14,364	12,801	13,505	14,344	14,084	14,182	14,487	14,717	15,042	15,358	15,086	14,764	14,508	76.4
Coke, not including gas-house coke.....	11,536	13,293	12,367	11,947	10,888	10,120	9,859	10,828	12,374	12,077	11,243	11,314	12,122	74.2
Confectionery and ice cream.....	11,010	10,018	10,514	10,809	11,094	10,859	10,958	11,221	11,407	11,804	11,426	11,014	10,906	84.9
Cotton goods.....	9,767	8,898	8,784	8,917	9,166	9,491	9,841	10,055	10,155	10,249	10,406	10,581	10,611	82.3
Dyeing and finishing textiles, exclusive of that done in textile mills.....	7,381	6,761	6,643	6,595	6,665	7,018	7,394	7,671	7,944	7,623	7,782	8,314	8,362	76.5
Electrical machinery, apparatus, and supplies.....	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
Engines, steam, gas, and water.....	9,711	10,551	10,190	9,825	9,412	8,889	9,323	9,390	9,237	9,265	9,630	10,140	10,571	85.0
Foundry and machine-shop products.....	71,087	76,177	72,184	69,710	67,646	66,492	66,917	68,767	69,468	70,930	72,859	74,764	77,130	86.2
Furniture.....	10,954	9,648	9,690	9,984	10,281	10,501	10,864	11,251	11,445	11,650	11,840	12,022	12,266	78.7
Glass.....	21,602	20,149	20,607	20,490	20,477	20,349	20,896	18,809	20,558	23,389	24,283	24,944	25,673	75.4
Hardware.....	4,112	3,890	3,909	3,952	3,948	3,940	4,088	4,109	4,235	4,216	4,324	4,377	4,346	88.9
Hats, fur-felt.....	5,414	6,000	5,038	5,150	5,023	5,019	5,231	5,571	5,726	5,762	5,778	5,825	5,845	85.6
Iron and steel, blast furnaces.....	14,610	17,554	10,624	15,984	14,438	13,099	13,134	13,838	14,030	15,005	15,789	13,764	14,962	72.8
Iron and steel, steel works and rolling mills.....	171,715	202,680	190,815	177,543	166,937	159,332	163,373	174,004	176,471	169,885	145,858	160,270	174,068	71.7
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	4,546	5,024	5,020	4,915	4,605	4,348	4,363	4,497	4,373	4,428	5,000	4,400	4,613	78.9
Iron and steel forgings, not made in steel works or rolling mills.....	6,197	8,957	6,547	6,044	5,850	5,578	5,651	5,823	5,901	6,125	6,472	6,801	6,815	86.2
Knit goods.....	44,156	41,794	39,454	39,706	40,220	42,305	43,387	45,076	40,655	46,885	47,556	48,132	48,086	82.0
Leather, tanned, curried, and finished.....	13,749	12,287	12,538	12,648	12,818	13,610	14,026	14,313	14,431	14,620	14,577	14,727	14,787	83.1
Liquors, malt.....	5,231	5,128	5,052	5,109	5,255	5,404	5,735	5,774	5,504	5,242	5,001	4,906	4,602	79.7
Lumber and timber products.....	7,703	7,262	7,351	7,478	7,307	7,346	7,149	6,997	7,550	8,088	8,439	8,662	8,807	70.4
Lumber, planing-mill products, not including planing mills connected with sawmills.....	7,191	6,666	6,595	6,275	6,424	6,761	7,227	7,407	7,682	7,578	7,839	7,984	7,854	78.6
Machine tools.....	3,671	4,005	3,934	3,950	3,873	3,764	3,691	3,688	3,647	3,633	3,344	3,504	3,619	75.7
Marble and stone work.....	3,607	2,815	2,937	3,214	3,016	3,792	3,918	3,965	4,013	4,061	4,062	4,021	3,950	62.3
Minerals and earths, ground or otherwise treated.....	4,914	4,836	4,670	4,768	4,671	4,653	4,881	5,145	5,246	5,142	5,029	5,023	4,904	88.7
Paper and wood pulp.....	9,843	9,740	9,521	9,548	9,378	9,485	9,566	9,842	10,058	10,184	10,212	10,351	10,447	89.4
Petroleum, refining.....	8,235	8,134	8,220	8,017	8,157	8,158	8,404	8,512	8,405	8,353	8,254	8,168	8,038	94.2
Printing and publishing, book and job.....	10,461	10,783	9,977	10,111	10,082	10,130	10,212	10,307	10,405	10,627	10,751	10,909	11,148	80.5
Printing and publishing, newspapers and periodicals.....	12,331	11,684	11,911	12,137	11,866	12,206	12,447	12,469	12,659	12,637	12,656	12,697	12,603	92.0
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	4,880	4,385	4,488	4,445	4,713	4,767	4,752	4,916	4,863	5,002	5,315	5,310	5,595	78.4
Shipbuilding, including boat building.....	56,211	61,732	63,153	60,176	59,561	59,004	57,536	57,016	55,951	53,114	53,208	50,250	49,331	78.9
Shirts.....	8,932	8,486	8,362	8,026	7,984	8,230	8,254	8,708	9,084	9,482	9,750	10,324	10,487	76.1
Silk goods, including throwsters.....	53,052	50,128	51,008	51,227	52,072	52,806	52,362	53,015	53,618	53,717	52,567	56,762	57,342	87.4
Slaughtering and meat packing.....	4,438	4,583	4,385	4,318	4,237	4,248	4,312	4,339	4,254	4,409	4,671	4,610	4,890	86.6
Steam fittings and steam and hot-water heating apparatus.....	5,919	5,274	5,322	5,365	5,377	5,426	5,657	5,888	6,340	6,465	6,533	6,710	6,971	78.6
Structural ironwork, not made in steel works or rolling mills.....	10,722	11,570	11,351	10,667	10,288	10,347	10,486	10,521	10,649	10,667	10,750	10,668	10,700	88.9
Textile machinery and parts.....	3,705	3,276	3,303	3,359	3,388	3,505	3,505	3,719	3,842	3,961	3,926	4,220	4,387	74.7
Tobacco, cigars and cigarettes.....	30,380	29,663	29,905	30,713	30,461	30,406	29,781	29,305	29,518	29,856	32,224	34,316	35,412	72.1
Tools, not elsewhere specified.....	3,779	3,822	3,732	3,693	3,674	3,651	3,598	3,627	3,763	3,877	3,853	3,975	4,083	88.1
Woolen goods.....	7,398	6,782	5,386	6,182	5,895	7,196	7,716	8,181	8,474	8,465	8,438	8,430	8,631	60.0
Worsted goods.....	15,400	13,036	12,778	12,889	14,116	15,056	15,574	16,407	16,697	16,853	17,044	16,992	17,358	78.6
All other industries.....	197,173	195,723	192,438	190,212	187,816	188,289	193,210	198,900	203,992	204,899	203,560	203,513	203,544	91.7

MANUFACTURES—PENNSYLVANIA.

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TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

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

INDUSTRY AND CITY.	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.	
Industries showing large proportion of females.														
Boots and shoes, not including rubber boots and shoes.	5,336	6,108	5,116	5,140	5,193	5,259	5,350	5,436	5,446	5,380	5,501	5,519	5,581	91.4
Boxes, paper and other, not elsewhere specified.	3,408	3,158	3,224	3,300	3,306	3,339	3,341	3,490	3,445	3,437	3,494	3,618	3,744	84.3
Bread and other bakery products.	3,822	3,901	3,693	3,739	3,713	3,757	3,772	3,926	3,830	3,760	3,803	3,953	4,041	90.6
Carpets and rugs, other than rag.	2,914	2,556	2,385	2,468	2,655	2,889	3,017	3,092	3,149	3,171	3,141	3,204	3,241	73.6
Chemicals.	1,095	1,549	1,501	1,477	1,695	1,640	1,671	1,666	1,582	1,587	1,639	1,701	1,564	86.8
Clothing, men's.	7,260	6,361	6,399	6,521	6,474	6,607	6,964	7,452	7,689	8,035	8,225	8,214	8,242	76.9
Clothing, women's.	10,812	9,198	9,923	10,520	10,610	10,974	11,084	10,975	11,071	11,384	11,388	11,362	11,257	80.8
Confectionery and ice cream.	5,209	4,921	5,199	5,452	5,608	5,225	5,012	5,005	5,137	5,382	5,304	5,149	5,114	87.7
Cotton goods.	4,580	4,322	4,214	4,251	4,333	4,442	4,667	4,706	4,746	4,847	4,807	4,848	4,877	86.4
Dyeing and finishing textiles, exclusive of that done in textile mills.	1,406	1,312	1,261	1,194	1,199	1,273	1,385	1,460	1,518	1,526	1,539	1,602	1,603	74.5
Electrical machinery, apparatus, and supplies.	4,140	4,307	4,155	4,148	3,899	3,895	3,875	3,857	3,989	4,100	4,335	4,518	4,596	83.9
Hats, fur-felt.	1,225	1,121	1,126	1,150	1,095	1,093	1,097	1,214	1,281	1,330	1,369	1,402	1,413	77.4
Knit goods.	33,730	32,412	30,843	31,152	30,871	32,215	32,786	34,690	35,450	35,010	36,150	36,137	36,445	84.6
Printing and publishing, book and job.	2,833	2,700	2,734	2,805	2,788	2,774	2,762	2,807	2,811	2,855	2,914	3,038	3,008	88.9
Printing and publishing, newspapers and periodicals.	2,230	2,237	2,249	2,247	2,181	2,229	2,145	2,213	2,334	2,305	2,216	2,244	2,162	91.8
Shirts.	7,611	7,238	7,167	6,861	6,791	6,997	7,031	7,419	7,740	8,078	8,319	8,781	8,910	76.2
Silk goods, including throwsters.	36,580	35,509	36,047	36,149	36,481	36,781	35,911	36,354	36,835	36,561	35,165	38,481	38,686	90.9
Tobacco, cigars and cigarettes.	20,347	19,589	20,043	20,607	20,464	20,524	19,958	19,350	16,645	17,881	21,026	23,252	24,005	69.3
Woolen goods.	2,724	2,470	2,019	1,947	2,145	2,522	2,744	2,905	3,095	3,127	3,157	3,207	3,269	59.7
Worsted goods.	8,993	7,754	7,493	7,529	8,262	8,876	9,090	9,616	9,639	9,822	9,931	9,920	10,084	74.3
Total for cities.	701,136	710,357	691,564	676,790	667,414	671,458	685,451	705,342	715,996	714,922	700,933	728,113	747,292	89.3
Males.	542,493	559,004	541,610	526,576	516,618	516,682	529,703	545,673	556,680	552,739	535,310	555,208	575,115	89.7
Females.	158,643	151,353	149,954	150,214	151,796	154,776	159,748	159,669	159,316	162,183	165,623	170,905	172,177	87.1
ALLENTOWN.	14,812	13,996	14,084	13,951	14,196	14,415	14,554	14,676	14,547	14,738	15,835	16,242	16,510	84.5
Males.	9,897	9,291	9,264	9,084	9,181	9,409	9,660	9,958	10,176	10,287	10,574	10,710	10,870	83.0
Females.	4,945	4,705	4,820	4,927	5,015	5,006	4,894	4,718	4,371	4,451	5,261	5,532	5,640	77.5
ALTOONA.	12,800	12,672	11,766	11,459	11,616	12,046	12,506	13,013	13,369	13,469	13,881	13,972	13,831	82.0
Males.	11,722	11,472	10,683	10,406	10,586	10,998	11,380	11,846	12,270	12,466	12,849	12,929	12,784	80.5
Females.	1,078	1,200	1,083	1,053	1,030	1,053	1,126	1,167	1,099	1,003	1,032	1,043	1,047	83.6
AMBRIDGE.	3,414	3,151	3,200	3,117	3,055	3,170	3,333	3,584	3,625	3,698	3,795	3,673	3,561	80.5
Males.	3,198	2,980	3,029	2,937	2,867	2,971	3,107	3,356	3,389	3,444	3,533	3,431	3,342	80.9
Females.	216	171	171	180	198	205	226	228	236	254	262	242	219	65.3
BEAVER FALLS.	3,204	3,205	3,107	3,051	2,988	2,978	3,073	3,188	3,325	3,409	3,425	3,301	3,398	86.9
Males.	3,015	3,040	2,935	2,881	2,801	2,783	2,870	2,994	3,133	3,214	3,223	3,105	3,201	80.3
Females.	189	165	172	170	187	195	203	194	192	195	202	196	197	81.3
BETHLEHEM.	14,961	17,964	16,850	14,182	12,936	13,586	14,393	14,327	14,173	14,582	14,628	15,797	16,114	72.0
Males.	12,887	15,826	14,734	12,099	10,881	11,463	12,239	12,702	12,777	12,773	12,226	13,293	13,581	68.3
Females.	2,074	2,038	2,116	2,083	2,055	2,123	2,154	1,625	1,396	1,809	2,402	2,504	2,533	54.0
BRADDOCK.	1,170	1,218	1,185	1,139	1,268	1,329	1,261	1,269	1,300	1,079	838	1,071	1,083	63.1
Males.	1,152	1,201	1,166	1,121	1,250	1,311	1,242	1,251	1,283	1,062	820	1,052	1,065	62.5
Females.	18	17	19	18	18	18	19	18	17	17	18	19	18	89.5
BRADFORD.	1,539	1,453	1,488	1,553	1,587	1,597	1,569	1,435	1,471	1,625	1,673	1,688	1,729	79.2
Males.	1,386	1,303	1,328	1,409	1,441	1,254	1,329	1,282	1,317	1,468	1,506	1,523	1,572	78.2
Females.	153	150	160	144	146	143	140	153	154	157	167	165	157	83.8
BRISTOL.	1,470	1,260	1,301	1,288	1,304	1,370	1,427	1,542	1,559	1,581	1,603	1,668	1,747	71.6
Males.	769	659	657	638	651	691	734	802	815	852	869	911	955	66.2
Females.	701	601	644	650	653	679	693	740	744	729	734	757	792	74.6
BUTLER.	3,744	5,724	3,807	3,804	3,914	3,895	4,069	4,153	3,823	2,208	2,685	3,080	3,712	39.5
Males.	3,396	5,354	3,484	3,487	3,605	3,572	3,750	3,798	3,476	1,903	2,300	2,700	3,317	35.5
Females.	348	370	323	317	309	323	319	355	347	359	379	380	395	78.2
CANONSBURG.	2,971	3,143	3,135	3,009	2,922	2,871	2,953	2,981	2,988	2,973	2,882	2,915	2,940	89.8
Males.	2,692	2,877	2,880	2,749	2,651	2,601	2,635	2,671	2,689	2,685	2,551	2,648	2,667	88.6
Females.	279	266	255	260	271	270	318	310	299	288	271	267	273	80.2
CARBONDALE.	861	826	817	826	789	793	837	885	874	705	919	988	1,073	65.7
Males.	574	590	600	599	550	547	595	678	576	512	584	613	604	83.5
Females.	287	236	217	227	239	246	272	307	298	193	335	375	469	41.2
CARLISLE.	1,422	1,343	1,350	1,358	1,313	1,361	1,417	1,457	1,502	1,480	1,461	1,488	1,534	85.6
Males.	928	860	885	887	831	905	933	962	981	970	962	966	1,004	82.8
Females.	494	483	465	471	482	456	484	505	521	510	499	522	530	86.0
CARNEGIE.	222	197	202	193	203	199	221	243	253	245	250	234	224	76.3
Males.	201	176	181	179	182	178	200	222	232	224	229	213	203	74.1
Females.	21	21	21	21	21	21	21	21	21	21	21	21	21	-----
CARRICK.	16	14	15	16	17	17	17	16	16	16	16	16	16	82.4
Males.	14	12	13	14	15	15	15	14	14	14	14	14	14	80.0
Females.	2	2	2	2	2	2	2	2	2	2	2	2	2	-----
CHAMBERSBURG.	1,996	1,981	1,857	1,731	1,860	1,874	1,992	2,064	2,114	2,110	2,122	2,102	2,145	80.7
Males.	1,736	1,732	1,688	1,671	1,657	1,647	1,696	1,762	1,800	1,808	1,815	1,800	1,856	84.6
Females.	260	249	169	160	203	227	296	302	314	302	307	302	289	51.0
CHARLESTON.	2,023	2,089	2,074	2,105	2,077	1,917	1,853	1,729	1,881	2,042	2,095	2,199	2,215	78.1
Males.	1,557	1,669	1,628	1,634	1,606	1,453	1,406	1,283	1,418	1,597	1,608	1,699	1,708	75.4
Females.	466	420	446	471	471	464	447	441	463	445	487	500	507	82.8

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
CHESTER.....	18,677	19,950	20,287	18,969	17,826	17,907	18,546	17,915	17,989	18,044	18,531	18,544	19,016
Males.....	16,810	18,257	18,523	17,246	16,120	16,150	16,753	16,006	16,044	16,017	16,532	16,528	17,544
Females.....	1,867	1,693	1,764	1,723	1,706	1,757	1,793	1,909	1,945	2,027	1,999	2,016	2,072
COLUMBIA.....	2,322	2,256	2,271	2,085	2,106	2,235	2,285	2,322	2,383	2,449	2,475	2,487	2,510
Males.....	1,583	1,580	1,503	1,391	1,359	1,500	1,553	1,582	1,634	1,691	1,709	1,725	1,709
Females.....	739	676	768	694	747	735	732	740	749	758	766	762	801
CONNELLSVILLE.....	1,623	1,548	1,662	1,597	1,685	1,582	1,519	1,428	1,530	1,755	1,722	1,707	1,741
Males.....	1,527	1,443	1,563	1,504	1,591	1,488	1,424	1,355	1,435	1,663	1,627	1,614	1,639
Females.....	96	105	99	93	94	94	95	95	95	92	95	93	102
DICKSON CITY.....	806	901	909	543	853	885	916	911	914	856	189	897	901
Males.....	207	227	209	152	183	220	221	224	232	224	185	232	227
Females.....	599	674	700	391	670	665	695	687	682	632	65	665	674
DU BOIS.....	1,397	1,460	1,448	1,401	1,381	1,365	1,368	1,401	1,396	1,407	1,409	1,382	1,340
Males.....	1,350	1,414	1,400	1,353	1,332	1,316	1,323	1,356	1,351	1,360	1,360	1,335	1,300
Females.....	47	46	48	48	49	49	45	45	45	47	49	47	40
DUNMORE.....	1,360	1,401	1,394	1,331	1,339	1,338	1,196	1,370	1,392	1,418	1,275	1,425	1,441
Males.....	1,121	1,149	1,130	1,099	1,110	1,110	975	1,128	1,134	1,164	1,142	1,155	1,150
Females.....	239	252	264	232	229	228	221	242	258	254	133	270	286
EASTON.....	4,672	4,339	4,395	4,427	4,436	4,556	4,664	4,741	4,712	4,855	4,903	4,966	5,070
Males.....	3,480	3,261	3,251	3,242	3,237	3,348	3,479	3,522	3,528	3,639	3,697	3,739	3,817
Females.....	1,192	1,078	1,144	1,185	1,199	1,208	1,185	1,219	1,184	1,216	1,206	1,227	1,253
ERIE.....	13,297	13,007	13,136	13,082	12,296	12,339	12,461	13,024	13,617	13,819	14,035	14,309	14,429
Males.....	11,586	11,418	11,508	11,402	10,661	10,714	10,840	11,359	11,869	11,979	12,180	12,481	12,589
Females.....	1,711	1,589	1,596	1,680	1,635	1,625	1,621	1,665	1,748	1,840	1,855	1,888	1,840
GREENSBURG.....	653	812	638	648	639	620	592	619	626	652	675	676	639
Males.....	583	724	569	582	572	555	525	551	556	580	605	607	570
Females.....	70	88	69	66	67	65	67	68	70	72	70	69	69
HARRISBURG.....	10,522	12,215	11,016	9,701	9,750	10,075	10,187	10,163	10,119	10,477	10,668	10,834	11,059
Males.....	7,890	9,510	8,351	7,097	7,224	7,535	7,646	7,597	7,574	7,823	7,949	8,091	8,283
Females.....	2,632	2,705	2,665	2,604	2,526	2,540	2,541	2,566	2,545	2,654	2,719	2,743	2,776
HAZLETON.....	3,815	4,949	3,597	3,510	3,451	3,870	3,405	3,582	3,816	3,884	3,989	4,116	4,111
Males.....	1,570	2,973	1,598	1,478	1,393	1,321	1,409	1,438	1,440	1,440	1,526	1,519	1,519
Females.....	2,245	1,976	1,999	2,032	2,058	2,049	2,124	2,173	2,378	2,444	2,525	2,590	2,592
HOMESTEAD.....	513	449	453	484	505	525	559	584	546	541	516	510	504
Males.....	442	400	399	413	425	445	480	488	467	467	448	445	435
Females.....	71	49	60	71	80	80	79	76	79	74	70	65	69
JEANNETTE.....	1,990	1,783	1,757	1,721	1,731	1,771	1,795	1,874	2,304	2,274	2,282	2,278	2,310
Males.....	1,752	1,571	1,545	1,515	1,523	1,553	1,589	1,671	2,040	2,011	1,994	1,999	2,013
Females.....	238	212	212	206	208	218	206	203	264	263	288	279	297
JOHNSTOWN.....	12,855	16,908	14,370	14,183	13,850	12,771	14,252	15,119	15,671	15,589	3,477	5,458	12,772
Males.....	12,448	16,548	13,993	13,794	13,463	12,385	13,859	14,720	16,162	15,162	3,000	4,998	12,304
Females.....	407	360	377	389	387	386	393	399	419	427	417	460	468
LANCASTER.....	9,444	8,983	8,971	8,982	8,988	9,255	9,300	9,349	9,524	9,669	10,024	10,115	10,221
Males.....	6,345	6,025	5,938	5,914	5,883	6,158	6,240	6,277	6,487	6,559	6,779	6,854	7,029
Females.....	3,099	2,958	3,033	3,068	3,055	3,094	3,060	3,072	3,037	3,110	3,245	3,261	3,195
LEBANON.....	5,651	6,309	6,329	6,312	5,299	4,852	5,074	5,224	5,436	5,622	5,207	5,911	6,177
Males.....	3,820	4,561	4,583	4,570	3,550	3,096	3,173	3,393	3,591	3,682	3,440	3,974	4,227
Females.....	1,831	1,748	1,746	1,742	1,749	1,756	1,901	1,831	1,845	1,940	1,827	1,937	1,950
MCKEESPORT.....	11,909	12,974	12,739	12,748	11,380	11,199	12,095	12,819	12,666	9,025	10,112	12,028	12,523
Males.....	11,644	12,668	12,440	12,446	11,098	10,915	11,818	12,536	12,666	9,479	9,950	11,752	12,229
Females.....	265	306	299	302	282	284	277	283	275	146	156	276	294
MCKEES ROCKS.....	3,114	3,037	3,039	3,004	2,912	2,744	2,921	3,055	3,232	3,202	3,324	3,390	3,508
Males.....	2,847	2,814	2,808	2,739	2,655	2,485	2,674	2,780	2,924	2,906	3,035	3,116	3,228
Females.....	267	223	231	265	257	259	247	275	308	296	289	274	280
MAHANAY CITY.....	450	389	377	374	378	418	436	476	508	519	505	508	512
Males.....	138	126	121	124	129	133	150	158	159	143	142	137	134
Females.....	312	263	256	250	249	285	286	318	349	376	363	371	378
MEADVILLE.....	1,841	2,018	1,993	1,892	1,775	1,771	1,684	1,730	1,809	1,815	1,840	1,811	1,954
Males.....	1,494	1,589	1,542	1,451	1,457	1,446	1,408	1,448	1,503	1,511	1,513	1,491	1,605
Females.....	347	429	451	441	318	325	282	282	306	304	327	320	349
MOUNT CARMEL.....	1,221	1,110	1,086	1,179	1,149	1,189	1,207	1,326	1,284	1,242	1,272	1,263	1,345
Males.....	278	215	218	250	270	284	269	281	283	295	306	318	347
Females.....	943	895	868	929	879	905	938	1,045	1,001	947	966	945	998
NANTICOKE.....	1,029	931	960	895	918	964	1,026	1,049	1,096	1,100	1,094	1,134	1,175
Males.....	160	188	130	129	130	151	167	163	181	184	178	182	181
Females.....	869	803	830	766	782	813	859	886	915	922	916	952	994
NEW CASTLE.....	8,014	7,920	8,128	7,388	7,083	7,253	7,460	8,367	8,608	7,873	8,767	8,604	8,779
Males.....	7,469	7,428	7,588	6,856	6,579	6,777	6,947	7,788	7,990	7,286	8,169	8,021	8,199
Females.....	545	492	540	530	444	476	513	579	618	587	598	583	580
NEW KENSINGTON.....	3,704	3,466	3,347	3,431	3,407	3,573	3,808	4,079	4,145	3,782	3,494	3,864	4,052
Males.....	3,268	2,945	2,913	3,012	3,003	3,179	3,412	3,632	3,657	3,347	3,078	3,432	3,600
Females.....	436	521	434	419	404	394	396	447	488	435	416	432	446
NORRISTOWN.....	3,534	3,343	3,308	3,359	3,356	3,427	3,447	3,584	3,641	3,663	3,721	3,761	3,798
Males.....	2,155	2,058	2,018	2,063	2,083	2,071	2,113	2,181	2,237	2,255	2,261	2,274	2,308
Females.....	1,379	1,285	1,290	1,296	1,273	1,356	1,334	1,403	1,404	1,408	1,460	1,487	1,490
OH. CITY.....	3,303	3,098	3,201	3,162	3,068	3,079	3,193	3,335	3,406	3,451	3,511	3,572	3,601
Males.....	3,225	3,000	3,110	3,080	2,980	2,995	3,113	3,254	3,330	3,376	3,438	3,497	3,527
Females.....	81	98	91	82	88	84	80	81	76	75	73	75	74

MANUFACTURES—PENNSYLVANIA.

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TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

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

INDUSTRY AND CITY.	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.	
OLD FORGE.....	232	256	239	243	245	256	263	264	267	262	264	261	294	81.3
Males.....	30	27	25	23	25	25	26	29	27	27	29	44	53	43.4
Females.....	232	229	214	220	220	231	237	235	240	235	235	247	241	86.6
PHILADELPHIA.....	281,105	270,112	266,849	265,488	268,099	272,738	276,942	282,637	286,586	291,047	294,619	297,773	300,372	88.4
Males.....	199,486	193,585	191,336	189,437	190,418	192,852	196,590	200,059	203,935	206,461	207,596	209,416	211,857	80.4
Females.....	81,639	76,527	75,513	76,049	77,681	79,886	80,352	82,578	82,651	84,586	87,023	88,357	88,515	85.3
PHOENIXVILLE.....	2,410	2,393	2,388	2,317	2,320	2,318	2,399	2,405	2,516	2,491	2,454	2,449	2,470	92.1
Males.....	1,951	1,979	1,957	1,906	1,902	1,883	1,954	1,950	1,961	1,990	1,961	1,947	1,973	94.2
Females.....	459	414	431	411	418	430	445	455	551	501	493	502	497	80.4
PITTSBURGH.....	83,290	88,435	85,955	83,057	78,906	77,161	78,518	82,760	84,552	84,966	82,990	85,222	86,858	87.3
Males.....	73,292	78,633	76,882	73,402	69,315	67,724	68,870	72,616	74,239	74,698	72,510	74,735	76,380	86.1
Females.....	9,998	9,802	9,073	9,655	9,591	9,437	9,648	10,144	10,313	10,268	10,480	10,487	10,478	89.1
PITTSBURGH.....	974	1,008	973	949	871	863	909	918	985	991	1,053	1,065	1,103	78.2
Males.....	465	430	443	435	421	418	457	435	476	473	501	533	558	74.9
Females.....	509	578	530	514	450	445	452	483	509	518	552	532	545	77.0
PLYMOUTH.....	588	476	472	487	440	521	632	656	645	641	698	702	680	63.5
Males.....	174	155	157	155	164	178	181	187	174	176	187	180	188	77.8
Females.....	414	321	315	332	276	343	451	469	471	465	511	516	492	60.0
POTTSVILLE.....	4,099	4,446	4,196	3,911	3,756	3,677	3,836	3,977	3,835	4,069	4,231	4,567	4,687	78.5
Males.....	3,197	3,594	3,347	3,057	2,876	2,865	2,963	3,077	2,959	3,193	3,248	3,553	3,672	76.9
Females.....	902	852	849	854	880	812	873	900	876	876	983	1,014	1,015	83.6
POTTSVILLE.....	2,977	3,011	3,002	2,944	2,957	2,935	2,892	2,951	2,977	3,003	3,014	2,984	3,054	94.7
Males.....	1,946	1,973	1,935	1,927	1,929	1,946	1,884	1,909	1,938	1,960	1,978	1,982	2,011	93.7
Females.....	1,031	1,038	1,067	1,017	1,028	989	1,008	1,042	1,039	1,043	1,036	1,022	1,043	92.7
PUNXSUTAWNEY.....	457	680	668	679	428	447	460	341	348	354	361	368	350	50.1
Males.....	384	607	594	608	355	375	388	268	275	280	290	293	275	44.1
Females.....	73	73	74	71	73	72	72	73	73	74	71	75	75	94.7
READING.....	29,122	27,923	27,847	27,203	26,618	26,630	27,910	29,374	30,588	29,551	31,617	31,993	32,225	82.6
Males.....	20,880	20,251	19,988	19,475	18,808	18,678	19,639	20,647	22,111	21,214	22,883	23,323	23,543	79.3
Females.....	8,242	7,672	7,859	7,728	7,805	7,952	8,271	8,727	8,977	8,337	8,734	8,670	8,682	87.9
SCRANTON.....	14,467	14,088	13,693	13,862	14,023	14,588	14,878	15,052	14,917	14,269	14,171	14,833	15,230	89.9
Males.....	8,300	8,045	7,937	7,937	8,017	8,327	8,456	8,545	8,540	8,296	8,376	8,557	8,561	92.7
Females.....	6,167	6,043	5,756	5,925	6,006	6,261	6,422	6,507	6,371	5,973	5,795	6,276	6,669	86.3
SHAMOKIN.....	3,251	3,562	3,508	3,574	3,591	3,733	1,956	1,902	1,905	3,576	3,795	3,875	4,035	47.1
Males.....	1,100	1,184	1,182	1,174	1,216	1,244	767	759	732	1,258	1,437	1,466	1,501	48.8
Females.....	2,091	2,378	2,326	2,400	2,375	2,489	1,189	1,143	1,173	2,318	2,358	2,409	2,534	45.1
SHARON.....	2,707	3,457	3,078	3,022	2,817	2,635	2,687	1,967	2,079	2,210	2,740	2,963	2,829	56.9
Males.....	2,626	3,381	3,004	2,941	2,734	2,552	2,601	1,886	2,004	2,129	2,657	2,878	2,745	55.8
Females.....	81	70	74	81	83	83	86	81	75	81	88	85	84	88.0
SHENANDOAH.....	759	754	775	754	729	738	754	742	743	760	778	787	794	91.8
Males.....	203	199	202	202	200	197	203	201	203	203	212	205	209	92.9
Females.....	556	555	573	552	529	541	551	541	540	557	566	582	585	90.4
SUNBURY.....	2,128	2,102	2,117	2,191	2,270	2,317	2,402	2,480	2,076	1,208	1,580	2,274	2,519	48.0
Males.....	1,550	1,492	1,482	1,531	1,599	1,636	1,678	1,747	1,630	987	1,181	1,727	1,910	51.7
Females.....	578	610	635	660	671	681	724	733	446	221	399	547	609	30.2
TAMQUA.....	806	700	648	656	749	808	829	881	894	872	876	881	883	71.9
Males.....	378	378	374	376	388	386	383	385	386	366	360	371	372	94.3
Females.....	428	322	269	280	361	422	446	496	506	506	507	510	511	52.6
UNIONTOWN.....	573	539	520	504	572	577	630	594	542	537	580	607	614	82.5
Males.....	548	510	497	537	544	552	605	568	520	513	557	584	589	82.1
Females.....	25	29	23	27	28	25	25	26	22	24	23	23	25	75.9
WARREN.....	2,154	1,989	1,983	1,987	2,034	2,062	2,150	2,295	2,066	2,055	2,303	2,406	2,518	78.8
Males.....	1,914	1,823	1,827	1,839	1,876	1,872	1,937	2,017	1,791	1,798	1,984	2,067	2,197	79.1
Females.....	240	166	156	148	158	190	213	278	275	317	319	339	321	43.7
WASHINGTON.....	2,880	2,722	2,566	2,693	2,582	2,675	2,984	2,851	2,776	2,917	3,055	3,314	3,425	74.9
Males.....	2,069	2,510	2,383	2,501	2,399	2,485	2,759	2,660	2,599	2,715	2,844	3,045	3,158	75.5
Females.....	211	212	183	192	183	190	225	191	207	202	211	269	267	68.0
WEST CHESTER.....	1,005	915	923	928	970	975	1,000	1,026	1,063	1,062	1,048	1,057	1,093	88.7
Males.....	844	774	784	790	832	835	861	877	881	872	862	870	890	87.0
Females.....	161	141	139	138	138	140	139	149	182	190	186	187	203	68.0
WILKES-BARRE.....	9,408	9,161	9,071	9,101	9,048	9,095	9,343	9,565	9,743	9,667	9,568	10,181	10,353	82.8
Males.....	6,045	5,861	5,750	5,742	5,786	5,765	5,880	6,026	6,140	6,159	6,164	6,626	6,701	85.4
Females.....	3,363	3,300	3,321	3,359	3,262	3,330	3,463	3,539	3,603	3,508	3,404	3,555	3,652	66.8
WILKINSBURG.....	323	257	252	273	298	327	393	400	399	351	334	303	319	63.0
Males.....	304	239	236	257	282	310	373	375	349	331	314	283	299	62.9
Females.....	19	18	16	16	16	17	20	25	20	20	20	20	20	64.0
WILLIAMSPORT.....	8,566	8,054	8,144	8,026	7,875	8,042	8,328	8,726	8,836	8,940	9,171	9,317	9,333	84.4
Males.....	6,447	5,861	5,988	5,984	5,968	6,155	6,335	6,595	6,668	6,766	6,903	7,022	7,101	82.5
Females.....	2,119	2,193	2,156	2,042	1,907	1,887	1,993	2,131	2,168	2,174	2,265	2,295	2,232	82.2
YORK.....	13,368	12,672	12,728	12,522	12,473	12,632	13,021	13,466	13,532	13,827	14,232	14,616	14,696	84.9
Males.....	9,620	9,044	9,053	8,993	8,889	9,000	9,322	9,596	9,712	10,032	10,361	10,658	10,720	82.9
Females.....	3,748	3,628	3,675	3,529	3,583	3,632	3,699	3,870	3,820	3,795	3,871	3,958	3,976	89.1
ALL OTHER CITIES ¹	39,113	44,863	41,925	40,133	39,252	38,424	38,664	41,124	42,066	39,693	40,439	35,141	38,632	65.6
Males.....	37,814	43,297	40,555	38,893	38,032	37,244	37,504	39,936	40,810	38,410	38,111	33,757	37,219	64.9
Females.....	1,299	1,566	1,370	1,240	1,220	1,180	1,160	1,188	1,256	1,283	1,328	1,384	1,413	74.1

¹All other cities embrace: Berwick, Coatesville, Donora, Duquesne, Farrell, Monessen, North Braddock, Olyphant, Steelton, Swissvale, and Woodlawn.

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	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.
All industries.....	1919	1,135,837	144,123	44,822	202,039	186,672	128,114	178,892	98,314	62,861
	1914	924,478	(²)	(²)	81,406	105,238	296,241	228,256	133,894	79,443
	1909	877,543	(²)	(²)	61,599	46,263	109,826	301,893	258,257	99,705
Automobile bodies and parts.....	1919	10,274	(²) 43	(²) 21	1,907	1,322	364	5,903	653	1
	1914	1,440	(²)	(²)	11	34	238	1,029	123	5
Automobiles.....	1919	4,434	(²) 8	(²) 2	900	803	3	2,064	54	.....
	1914	1,643	(²)	(²)	4	620	57	932	12	18
Automobile repairing.....	1919	5,225	(²) 437	(²) 47	940	1,365	1,105	437	783	111
	1914	1,603	(²)	(²)	19	723	58	455	324	24
Boots and shoes, not including rubber boots and shoes.....	1919	13,317	(²) 205	(²) 66	2,675	3,515	3,638	2,876	342	.....
	1914	13,184	(²)	(²)	1,312	1,413	5,929	4,473	57	.....
Boxes, paper and other, not elsewhere specified.....	1919	5,209	(²) 265	(²) 62	1,273	2,081	1,286	242	.....	.....
	1914	5,140	(²)	(²)	621	544	3,208	600	77	.....
Brass, bronze, and copper products.....	1919	4,053	(²) 185	(²) 120	1,057	902	481	780	528	.....
	1914	1,940	(²)	(²)	52	159	721	944	64	.....
Bread and other bakery products.....	1919	16,410	(²) 416	(²) 2,078	5,780	2,443	2,978	602	1,281	232
	1914	15,157	(²)	(²)	1,482	442	5,181	1,926	5,022	1,104
Brick and tile, terra-cotta, and fire-clay products.....	1919	15,897	(²) 393	(²) 31	3,049	1,245	2,787	2,370	5,984	59
	1914	17,412	(²)	(²)	1,045	473	2,769	2,925	9,519	81
Carpets and rugs, other than rag.....	1919	7,626	(²) 9	(²)	6,931	566	.....	58	62	.....
	1914	9,569	(²)	(²)	23	1,809	3,275	4,376	25	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1919	4,122	(²)	(²)	173	2,809	254	156	445	235
	1914	2,972	(²)	(²)	3	14	166	1,878	359	552
Cars and general shop construction and repairs by steam-railroad companies.....	1919	78,749	(²) 107	(²) 996	55,051	7,545	37	14,571	115	327
	1914	54,729	(²)	(²)	9,489	7,764	4,977	26,552	3,313	2,634
Cars, steam-railroad, not including operations of railroad companies.....	1919	11,675	(²) 939	(²) 3,261	170	6,067	196	1,042	.....	.....
	1914	9,955	(²)	(²)	.....	.....	222	9,353	380	.....
Cement.....	1919	7,443	(²)	(²)	8	.....	3	3,897	1,139	2,896
	1914	7,910	(²)	(²)	.....	.....	.....	3,262	1,648	.....
Chemicals.....	1919	7,134	(²) 63	(²)	3,703	1,096	254	373	1,380	265
	1914	4,748	(²)	(²)	48	14	.....	1,359	878	2,454
Clothing, men's.....	1919	12,855	(²) 7,655	(²) 550	1,998	1,159	1,065	309	119	.....
	1914	10,236	(²)	(²)	1,200	2,963	5,092	838	141	2
Clothing, women's.....	1919	14,364	(²) 7,675	(²) 814	2,441	3,130	304	.....	.....	.....
	1914	17,217	(²)	(²)	2,119	9,223	5,449	410	16	.....
Coke, not including gas-house coke.....	1919	11,536	(²) 232	(²) 15	5,816	109	1,157	95	370	3,742
	1914	9,871	(²)	(²)	636	57	5,382	248	1,894	1,654
Confectionery and ice cream.....	1919	11,010	(²) 320	(²) 167	915	1,600	4,119	2,382	563	944
	1914	8,038	(²)	(²)	355	943	3,643	1,618	766	713
Cotton goods.....	1919	9,787	(²) 58	(²) 38	4,644	2,457	2,444	114	12	.....
	1914	9,158	(²)	(²)	10	53	7,239	1,856	.....	.....
Dyeing and finishing textiles, exclusive of that done in textile mills.....	1919	7,381	(²) 889	(²) 46	2,076	2,007	1,157	973	233	.....
	1914	6,389	(²)	(²)	184	1,801	1,801	3,007	1,041	.....
Electrical machinery, apparatus, and supplies.....	1919	24,228	(²) 301	(²) 41	12,491	7,945	1,801	1,552	3	4
	1914	14,666	(²)	(²)	60	458	10,331	3,621	396	.....
Engines, steam, gas, and water.....	1919	9,711	(²) 203	(²)	7,055	1,150	354	693	256	.....
	1914	5,222	(²)	(²)	213	217	2,562	1,410	788	32
Foundry and machine-shop products.....	1919	79,009	(²) 3,634	(²) 886	21,317	12,295	12,554	21,902	5,714	647
	1914	57,116	(²)	(²)	1,509	3,963	18,306	22,692	10,568	18
Furniture.....	1919	10,954	(²) 380	(²) 10	1,371	1,916	845	5,509	923	.....
	1914	11,780	(²)	(²)	1,299	767	1,744	5,482	2,309	159
Glass.....	1919	21,602	(²) 4,002	(²) 1,172	7,905	5,104	1,146	503	1,361	409
	1914	23,696	(²)	(²)	4,494	7,235	2,734	2,114	2,859	4,170
Hardware.....	1919	4,112	(²) 15	(²)	536	298	602	2,538	123	.....
	1914	5,112	(²)	(²)	178	948	1,550	2,039	397	.....
Hats, fur-felt.....	1919	5,414	(²) 193	(²) 4,548	517	156	.....	.....	.....	.....
	1914	6,714	(²)	(²)	265	5,722	545	182	.....	.....
Iron and steel, blast furnaces.....	1919	14,619	(²) 1,034	(²)	.....	80	1,193	856	1,961	10,768
	1914	11,518	(²)	(²)	.....	.....	.....	.....	5	10,240
Iron and steel, steel works and rolling mills.....	1919	171,715	(²) 30,427	(²) 6,978	25,290	5,256	3,207	29,628	39,429	31,500
	1914	131,955	(²)	(²)	6,521	11,902	14,545	26,948	34,721	37,318
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	1919	4,546	(²) 856	(²)	1,196	47	601	1,686	160	.....
	1914	2,547	(²)	(²)	1,060	33	48	1,156	250	.....
Iron and steel forgings, not made in steel works or rolling mills.....	1919	6,197	(²) 314	(²) 834	730	970	64	1,389	1,896	.....
	1914	2,205	(²)	(²)	425	227	193	1,184	94	77

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.³ Includes "iron and steel, tempering and welding"; "machine tools"; "steel barrels, drums, and tanks"; and "textile machinery and parts."

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TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	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.
Knit goods.....	1919	44,150	1,415	454	16,027	9,725	15,400	600	535	.....
	1914	41,130	(2)	(2)	807	1,533	34,353	4,073	364	.....
Leather, tanned, curried, and finished.....	1919	13,749	512	.....	7,146	3,142	1,434	1,253	262	.....
	1914	11,988	(2)	(2)	174	649	856	5,259	5,050	.....
Liquors, malt.....	1919	5,231	122	.....	4,054	172	374	293	216	.....
	1914	7,512	(2)	(2)	3,641	543	2,110	425	694	99
Lumber and timber products.....	1919	7,703	195	140	484	378	1,654	718	4,184	.....
	1914	10,754	(2)	(2)	305	287	1,411	884	7,414	453
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	7,191	451	87	2,398	1,269	1,444	1,122	420	.....
	1914	8,586	(2)	(2)	808	1,035	2,878	2,877	902	86
Marble and stone work.....	1919	3,697	692	63	299	1,332	605	528	128	50
	1914	7,100	(2)	(2)	1,547	3,229	1,184	999	407	.....
Minerals and earths, ground or otherwise treated.....	1919	4,914	6	12	319	26	172	369	3,699	311
	1914	522	(2)	(2)	6	4	41	125	568	78
Paper and wood pulp.....	1919	9,843	.....	1,170	3,437	752	28	403	1,877	2,176
	1914	7,447	.....	.....	.....	2	29	1,016	3,244	3,156
Petroleum, refining.....	1919	8,235	116	.....	73	93	4,502	2,738	85	678
	1914	4,902	.....	.....	.....	.....	3,067	1	675	1,259
Printing and publishing, book and job.....	1919	10,461	610	149	8,488	953	191	29	0	2
	1914	10,139	(2)	(2)	6,653	2,258	1,129	85	13	1
Printing and publishing, newspapers and periodicals.....	1919	12,331	851	378	10,065	464	345	187	38	3
	1914	12,750	(2)	(2)	9,878	1,015	1,290	475	82	10
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1919	4,880	50	1,786	334	285	8	2,230	187	.....
	1914	3,172	(2)	(2)	12	417	2,704	39	.....	.....
Shipbuilding, including boat building.....	1919	55,211	55,549	.....	325	239	85	.....	13	.....
	1914	4,773	(2)	(2)	344	4,111	163	118	37	.....
Shirts.....	1919	8,932	1,001	692	2,047	2,890	1,990	239	67	.....
	1914	10,890	(2)	(2)	465	2,903	7,109	335	78	.....
Silk goods, including throwsters.....	1919	53,052	1,732	178	7,941	31,993	9,515	1,125	568	.....
	1914	44,755	(2)	(2)	104	772	39,854	3,701	324	.....
Slaughtering and meat packing.....	1919	4,438	634	453	781	141	618	1,062	735	.....
	1914	3,616	(2)	(2)	47	117	122	507	2,386	437
Steam fittings and steam and hot-water heating apparatus.....	1919	5,919	119	29	1,259	2,142	1,310	687	373	.....
	1914	5,747	(2)	(2)	778	238	882	1,410	2,400	.....
Structural ironwork, not made in steel works or rolling mills.....	1919	10,722	1,121	173	1,812	943	4,493	2,092	83	.....
	1914	9,308	(2)	(2)	11	1,057	2,901	5,071	268	.....
Tobacco, cigars and cigarettes.....	1919	30,380	3,263	1,067	2,654	4,243	16,802	2,283	60	3
	1914	38,931	(2)	(2)	4,678	4,176	18,631	9,011	391	44
Tools, not elsewhere specified.....	1919	3,779	126	49	1,113	676	174	1,432	209	.....
	1914	2,077	(2)	(2)	253	389	74	1,164	197	.....
Woolen goods.....	1919	7,398	307	.....	3,582	1,492	1,030	733	254	.....
	1914	5,960	(2)	(2)	592	49	2,427	2,655	229	8
Worsted goods.....	1919	15,400	24	9,536	1,814	3,776	200	.....	.....	.....
	1914	17,892	.....	.....	.....	.....	16,204	1,688	.....	.....
All other industries.....	1919	190,627	13,969	4,973	35,662	42,142	20,844	52,609	18,493	7,995
	1914	175,229	(2)	(2)	15,206	22,063	47,494	54,551	25,006	7,909
Total for cities.....	1919	701,136	94,001	23,030	195,625	130,536	73,684	102,442	45,564	36,254
	1914	576,005	(2)	(2)	60,645	76,565	104,378	149,798	55,448	39,171
ALLENTOWN.....	1919	14,812	1,526	197	1,045	5,505	1,997	3,921	583	38
	1914	13,685	(2)	(2)	740	1,202	5,826	4,113	1,591	213
ALTOONA.....	1919	12,800	96	9	10,595	820	49	1,087	99	45
	1914	10,732	(2)	(2)	135	30	893	9,312	304	58
AMBRIDGE.....	1919	3,414	5	163	14	55	2,777	392	5	3
BEAVER FALLS.....	1919	3,204	6	131	133	53	1,467	1,374	5	35
	1914	2,639	(2)	(2)	49	219	694	797	844	30
BETHLEHEM.....	1919	14,961	11,221	25	165	1,348	1,183	314	19	686
	1914	12,388	(2)	(2)	58	3	2,821	8,827	416	263
BRADDOCK.....	1919	1,170	24	176	299	26	37	7	2	599
	1914	1,140	(2)	(2)	240	133	99	56	572	40
BRADFORD.....	1919	1,539	148	.....	500	115	620	98	20	38
	1914	1,178	(2)	(2)	90	7	596	150	313	22
BRISTOL.....	1919	1,470	52	.....	274	13	1,020	1	110	.....
	1914	1,809	(2)	(2)	5	30	1,145	484	124	21
BUTLER.....	1919	3,744	1	.....	131	2,452	235	242	628	55
	1914	3,303	(2)	(2)	85	283	175	1,947	776	37

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

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	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.
CANONSBURG.....	1919	2,971	.....	.....	2,378	338	210	12	33	.....
CARBONDALE.....	1919	861	2	20	54	679	12	53	13	28
	1914	1,897	(²)	(²)	90	77	1,833	377	20	.....
CARLISLE.....	1919	1,422	.....	20	130	437	315	377	136	7
	1914	1,603	(²)	(²)	2	37	633	558	370	3
CARNEGIE.....	1919	222	.....	27	51	21	99	.....	15	9
	1914	337	(²)	(²)	72	4	231	.....	20	10
CARRICK.....	1919	16	10	.....	3	.....	.....	3	.....	.....
CHAMBERSBURG.....	1919	1,996	7	259	819	122	153	544	85	7
	1914	1,650	(²)	(²)	20	866	382	308	59	15
CHARLEROI.....	1919	2,023	7	.....	518	1,411	38	31	6	12
	1914	1,904	(²)	(²)	49	1,551	174	.....	118	12
CHESTER.....	1919	18,677	11,595	313	827	1,137	1,980	2,070	443	312
	1914	6,295	(²)	(²)	108	691	2,426	1,599	978	493
COLUMBIA.....	1919	2,322	6	8	194	1,086	168	367	446	17
	1914	2,141	(²)	(²)	101	20	933	589	470	19
CONNELLSVILLE.....	1919	1,623	.....	.....	752	476	323	43	24	5
	1914	1,087	(²)	(²)	106	63	748	76	94	.....
DICKSON CITY.....	1919	806	.....	.....	35	590	181	.....	.....	.....
DU BOIS.....	1919	1,397	8	.....	130	10	162	1,029	58	.....
	1914	1,105	(²)	(²)	865	.....	60	94	77	9
DUNMORE.....	1919	1,360	.....	3	1,037	280	22	.....	2	16
	1914	948	(²)	(²)	57	37	668	180	6	.....
EASTON.....	1919	4,672	530	134	751	2,804	254	141	46	12
	1914	4,062	(²)	(²)	324	132	2,035	416	159	496
ERIE.....	1919	13,297	480	612	3,027	1,279	1,020	3,025	2,019	35
	1914	11,016	(²)	(²)	1,766	458	1,440	3,485	3,232	635
GREENSBURG.....	1919	653	160	.....	46	354	87	6	.....	.....
	1914	494	(²)	(²)	38	258	139	.....	56	3
HARRISBURG.....	1919	10,522	76	29	4,033	1,262	1,003	1,003	310	2,281
	1914	7,966	(²)	(²)	557	1,281	2,635	2,404	568	521
HAZLETON.....	1919	3,815	22	7	944	2,424	324	70	24	.....
	1914	2,744	(²)	(²)	111	450	2,049	38	87	.....
HOMESTEAD.....	1919	513	18	.....	133	104	80	174	3	1
	1914	260	(²)	(²)	57	52	122	18	8	3
JEANNETTE.....	1919	1,990	569	225	742	408	29	2	15	.....
JOHNSTOWN.....	1919	12,855	120	3	8,884	77	493	453	1,433	1,392
	1914	12,177	(²)	(²)	104	187	531	198	2,144	9,013
LANCASTER.....	1919	9,444	346	50	564	2,635	1,912	3,769	159	9
	1914	8,862	(²)	(²)	513	629	3,551	3,787	219	168
LEBANON.....	1919	5,651	1,989	38	250	465	1,731	433	58	687
	1914	5,270	(²)	(²)	2,588	176	1,942	231	77	256
McKEESPORT.....	1919	11,909	826	294	3,202	20	70	514	679	6,304
	1914	6,857	(²)	(²)	146	37	843	330	323	5,178
McKEES ROCKS.....	1919	3,114	2	.....	1,975	410	1	67	174	435
	1914	3,548	(²)	(²)	286	1,236	412	833	446	335
MAHANAY CITY.....	1919	450	1	96	174	121	56	.....	2	.....
	1914	661	(²)	(²)	77	75	409	2	88	10
MEADVILLE.....	1919	1,841	105	3	889	206	158	440	35	5
	1914	1,876	(²)	(²)	143	514	590	362	64	3
MOUNT CARMEL.....	1919	1,221	.....	36	658	2	520	4	1	.....
	1914	978	(²)	(²)	20	201	666	67	24	.....
NANTICOKE.....	1919	1,029	.....	2	49	232	699	17	.....	7
	1914	747	(²)	(²)	47	16	656	.....	21	.....
NEW CASTLE.....	1919	8,014	3,403	700	456	827	147	313	2,089	19
	1914	6,381	(²)	(²)	482	285	2,969	470	1,068	1,107

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

MANUFACTURES—PENNSYLVANIA.

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TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	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.
NEW KENSINGTON.....	1919	3,704	117	.....	121	2,990	177	236	63	.....
NORRISTOWN.....	1919	3,534	10	7	245	1,622	971	586	77	16
	1914	3,959	(²)	(²)	27	50	2,199	1,390	274	19
OIL CITY.....	1919	3,306	90	1	647	2,455	78	.....	6	29
	1914	2,276	(²)	(²)	107	.....	46	2,099	11	13
OLD FORGE.....	1919	262	.....	.....	4	255	3	.....	.....	.....
PHILADELPHIA.....	1919	281,105	40,943	10,245	102,319	54,045	22,591	41,945	6,194	2,823
	1914	251,286	(²)	(²)	28,583	47,417	90,366	64,844	14,401	5,725
PHOENIXVILLE.....	1919	2,410	.....	.....	195	102	330	1,693	86	4
	1914	2,927	(²)	(²)	23	1	499	2,317	79	8
PITTSBURGH.....	1919	83,290	2,963	3,248	18,782	16,377	8,253	13,053	13,818	6,761
	1914	69,620	(²)	(²)	8,397	7,166	25,174	14,995	8,173	5,715
PITTSFORD.....	1919	974	23	.....	546	256	119	.....	30	.....
	1914	729	(²)	(²)	83	.....	588	3	36	19
PLYMOUTH.....	1919	588	7	.....	31	545	.....	.....	5	.....
	1914	478	(²)	(²)	17	19	429	.....	13	.....
POTTSTOWN.....	1919	4,099	3	.....	259	371	1,313	1,039	355	759
	1914	2,622	(²)	(²)	39	102	972	446	361	702
POTTSVILLE.....	1919	2,977	9	20	1,429	153	1,054	249	49	14
	1914	3,506	(²)	(²)	103	65	1,780	2	1,536	14
PUNXSUTAWNEY.....	1919	457	.....	1	86	.....	198	76	20	78
	1914	710	(²)	(²)	262	4	204	5	57	148
READING.....	1919	29,122	3,402	472	4,814	3,572	7,065	3,226	457	1,114
	1914	24,131	(²)	(²)	5,140	3,502	7,488	6,289	1,177	469
SCRANTON.....	1919	14,497	877	195	5,697	6,862	503	165	152	16
	1914	12,559	(²)	(²)	3,063	1,390	5,101	2,250	505	250
SHAMOKIN.....	1919	3,251	35	.....	2,855	8	253	100	.....	.....
	1914	2,634	(²)	(²)	31	45	2,433	45	39	41
SHARON.....	1919	2,707	5	741	966	16	48	34	.....	897
	1914	2,298	(²)	(²)	1,054	473	97	4	498	172
SHENANDOAH.....	1919	759	198	1	143	199	153	6	54	5
	1914	475	(²)	(²)	14	110	247	40	64	.....
SUNBURY.....	1919	2,128	1	.....	361	839	806	57	27	37
	1914	1,718	(²)	(²)	30	5	934	186	534	29
TAMAQUA.....	1919	806	17	11	485	67	38	175	4	9
	1914	974	(²)	(²)	82	19	710	70	84	3
UNIONTOWN.....	1919	573	2	60	199	.....	296	.....	13	3
	1914	770	(²)	(²)	245	30	17	33	447	4
WARREN.....	1919	2,154	85	.....	307	758	287	607	110	.....
	1914	1,876	(²)	(²)	92	.....	612	721	308	53
WASHINGTON.....	1919	2,380	1,959	2	371	97	81	108	223	44
	1914	2,002	(²)	(²)	118	244	168	1,111	307	54
WEST CHESTER.....	1919	1,005	4	.....	65	559	102	238	13	24
	1914	894	(²)	(²)	6	451	140	196	68	33
WILKES-BARRE.....	1919	9,408	196	1,039	4,020	3,319	722	38	34	40
	1914	8,107	(²)	(²)	886	223	4,992	1,769	183	54
WILKINSBURG.....	1919	323	17	.....	95	97	22	25	.....	67
	1914	194	(²)	(²)	62	29	61	38	4	.....
WILLIAMSPORT.....	1919	8,566	354	5	2,263	2,041	1,742	1,590	289	282
	1914	6,015	(²)	(²)	648	384	1,688	1,910	1,227	158
YORK.....	1919	13,368	25	61	995	1,520	3,607	4,360	2,719	81
	1914	10,851	(²)	(²)	715	508	3,442	4,336	1,802	48
ALL OTHER CITIES ³	1919	39,113	9,263	3,281	464	511	976	4,515	10,087	10,011
	1914	22,848	(²)	(²)	196	3,019	3,169	2,585	7,425	6,464

¹ Includes 48 and under for 1914.² Corresponding figures not available.³ All other cities embrace: Berwick, Coatesville, Donora, Duquesne, Farrell, Monessen, North Braddock, Olyphant, Steelton, Swissvale, and Woodlawn in 1919; and Coatesville, Dickson City, Duquesne, Farrell, Monessen, North Braddock, Old Forge, and Steelton in 1914.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	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.
All industries.....	27,973	1,135,837	4,109	12,507	27,808	5,150	58,449	2,718	90,226	1,401	100,175	1,207	188,804	445	156,421	204	139,952	142	368,092	
Automobile bodies and parts.....	177	10,274	15	72	175	51	570	18	529	6	400	12	1,671	2	677	1	850	2	5,333	
Automobiles.....	25	4,434	8	26	20	2	33	3	106	4	239	1	181	5	1,019			2	2,230	
Automobile repairing.....	1,350	5,225	157	1,004	2,074	163	1,545	26	814	6	457	3	335							
Boots and shoes, not including rubber boots and shoes.....	128	13,317		12	28	20	271	33	1,269	25	1,809	23	3,485	12	3,958	3	2,497			
Boxes, paper and other, not elsewhere specified.....	150	5,209	1	20	63	53	702	45	1,569	24	1,601	6	989	1	285					
Brass, bronze, and copper products. Bread and other bakery products.....	125	4,053	5	47	133	36	389	19	732	7	514	8	1,178	2	515	1	592			
Brick and tile, terra-cotta, and fire-clay products.....	2,651	16,410	484	1,792	3,783	319	3,018	64	2,021	19	1,297	16	2,857	4	1,334	2	1,556	1	1,404	
Carpets and rugs, other than rag.....	303	15,897	3	25	83	85	1,103	103	3,545	44	3,104	38	5,651	3	1,146	2	1,265			
Cars and general shop construction and repairs by electric-railroad companies.....	48	7,626		3	10	7	98	12	398	9	625	10	1,624	4	1,574	1	520	2	2,877	
Cars and general shop construction and repairs by steam-railroad companies.....	80	4,122		37	98	20	227	13	407	5	363	3	375					2	2,652	
Cars, steam-railroad, not including operations of railroad companies.....	195	78,749		15	41	17	240	25	870	27	1,948	41	6,710	26	9,250	24	17,534	20	42,156	
Cement.....	15	11,675				2	16	2	54	1	86	3	507	2	772	2	1,764	3	8,476	
Chemicals.....	22	7,443		1	3	1	8				3	228	10	1,728	4	1,641	1	580	2	
Clothing, men's.....	56	7,134	1	8	28	17	198	14	456	4	267	8	1,162	1	377	2	1,229	1	3,417	
Clothing, women's.....	602	12,855	61	201	543	193	2,255	92	3,007	36	2,455	14	1,899	4	1,512			1	1,184	
Coke, not including gas-house coke. Confectionery and ice cream.....	615	14,364	36	153	443	236	2,830	111	3,651	56	3,955	21	2,899	2	580			3	4,726	
Cotton goods.....	123	11,536	1	24	78	32	426	25	897	17	1,232	16	2,476	5	1,701					
Dyeing and finishing textiles, exclusive of that done in textile mills.....	839	11,010	187	447	956	120	1,292	46	1,553	15	1,084	16	2,690	6	2,016	2	1,419	1	1,454	
Electrical machinery, apparatus, and supplies.....	118	9,767	1	11	33	26	346	33	1,129	23	1,704	17	2,668	4	1,217	2	1,215			
Engines, steam, gas, and water.....	163	7,381	2	28	76	57	716	46	1,595	16	1,162	8	1,132	4	1,496	2	1,294			
Foundry and machine-shop products.....	129	24,228	5	41	116	33	390	18	614	5	359	15	2,367	6	1,992	4	2,890	2	15,509	
Furniture.....	34	9,711		5	16	6	66	5	176		357	5	773	4	1,439	1	645	3	6,239	
Glass.....	1,267	71,087	100	409	1,078	208	3,547	197	6,526	104	7,572	98	15,882	35	12,130	19	12,889	7	11,463	
Hard ware.....	335	10,954	32	109	269	72	810	54	1,807	36	2,480	29	4,455	3	1,143					
Hats, fur-felt.....	102	21,602		2	8	6	99	12	479	24	1,790	30	4,929	21	7,248	4	2,397	3	4,646	
Iron and steel, blast furnaces.....	62	4,112	4	18	47	9	102	14	445	7	556	6	961	2	932	2	1,069			
Iron and steel, steel works and rolling mills.....	20	5,414	1	8	20	3	32	1	23	3	207	2	269			1	510		4,353	
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	58	14,619		1	4	5	66	1	26	13	1,017	23	3,669	6	1,917	7	4,789	2	3,131	
Iron and steel forgings, not made in steel works or rolling mills.....	198	171,716		4	19	4	50	11	345	19	1,351	31	5,073	46	17,671	35	24,670	48	122,536	
Knit goods.....	31	4,546		5	15	4	50	7	262	4	279	5	801	4	1,365	2	1,774			
Leather, tanned, curried, and finished.....	48	6,197		2	7	11	155	11	290	8	511	11	1,634	3	1,169	1	553	1	1,878	
Liquors, malt.....	606	44,156	11	61	177	141	1,880	162	5,618	123	8,721	76	12,637	23	7,548	7	4,620	2	3,055	
Lumber and timber products.....	92	13,749	4	3	8	14	189	11	425	19	1,323	24	3,860	12	4,247	5	3,697			
Lumber, planing-mill products, not including planing mills connected with sawmills.....	166	5,231	1	9	23	73	1,066	62	1,952	14	1,007	6	908	1	270					
Marble and stone work.....	1,334	7,703	72	992	2,035	221	2,183	30	899	10	675		885	3	1,026					
Minerals and earths, ground or otherwise treated.....	538	7,191	43	265	659	157	1,777	51	1,518	16	1,164	4	662			2	1,411			
Paper and wood pulp.....	489	3,697	105	279	642	52	543	38	1,184	11	821	4	607							
Petroleum, refining.....	105	4,914	1	24	69	35	411	18	546	13	989	9	1,265	5	1,634					
Printing and publishing, book and job.....	56	9,843		5	20	11	142	11	342	6	354	10	1,075	7	2,122	5	3,886	1	1,322	
Printing and publishing, newspapers and periodicals.....	53	8,235		5	14	10	120	16	526	14	936	3	484	3	1,307	1	715	1	4,133	
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1,289	10,461	366	602	1,354	220	2,356	66	2,089	17	1,206	14	2,239	4	1,217					
Shipbuilding, including boat building.....	963	12,331	285	430	1,147	106	1,762	43	1,313	17	1,077	16	2,457	5	1,499			1	3,076	
Shirts.....	31	4,880		11	26	4	48	2	84	7	458	2	463	1	412	3	1,603	1	1,786	
Silk goods, including throwsters.....	28	56,211	3	7	26	3	36	6	189	2	147	2	312					5	55,501	
Slaughtering and meat packing.....	216	8,932	4	32	106	71	897	55	1,852	32	2,252	19	2,872	3	953					
Steam fittings and steam and hot-water heating apparatus.....	373	53,052		4	17	35	493	93	3,420	93	6,715	100	15,679	34	11,985	8	5,953	6	8,790	
Structural ironwork, not made in steel works or rolling mills.....	176	4,438	18	91	185	33	392	13	386	9	575	7	1,111	4	1,281	1	508			
Tobacco, cigars and cigarettes.....	52	5,919	2	3	11	12	151	9	236	11	807	12	1,998	1	434	1	506	1	1,756	
Tools, not elsewhere specified.....	145	10,722	6	47	117	38	454	14	496	14	1,021	17	2,870	5	2,217	3	1,938	1	1,609	
Woolen goods.....	1,595	30,380	569	1,112	240	2,746	124	4,063	82	5,973	57	8,770	20	6,422	2	1,294				
Worsted goods.....	104	3,779	8	35	84	29	325	12	463	10	741	7	1,000	3	1,166					
All other industries.....	108	7,398	4	9	14	21	307	29	980	24	1,798	18	2,704	1	281	2	1,314			
	89	15,400	2	2	6	7	101	21	803	14	1,053	25	4,104	10	3,460	7	4,799	1	1,074	
	9,287	204,549	1,559	4,578	9,788	1,649	18,420	773	25,287	358	25,287	240	36,942	79	28,258	36	23,298	15	37,359	

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TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

INDUSTRY AND CITY.	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.	
Total for cities	16,734	701,136	2,362	7,059	16,555	3,529	40,172	1,726	56,578	839	59,790	708	112,011	282	98,184	136	93,542	93	224,304	
ALLENTOWN.....	330	14,812	51	123	327	62	703	44	1,889	19	1,356	24	3,893	9	3,189	1	524	3	3,431	
ALTOONA.....	64	12,800	0	30	66	12	137	9	289	2	147	1	163	2	668	1	795	4	11,366	
AMBRIDGE.....	22	3,414	2	11	33	1	7	1	24	2	102	1	613	2	623	2	808	1	1,609	
BEAVER FALLS.....	71	3,204	8	36	69	12	123	5	164	2	155	4	613	2	623	2	1,457	1	10,800	
BETHLEHEM.....	86	14,961	13	30	78	17	193	6	185	7	504	6	1,127	0	2,014	0	568	1	2,150	
BRADDOCK.....	49	1,170	7	24	55	12	115	2	65	1	57	2	310	1	315	1	672	1	1,851	
BRADFORD.....	83	1,539	17	30	63	15	144	11	328	5	365	5	639	1	315	1	672	1	1,851	
BRISTOL.....	34	1,470	3	20	29	5	56	2	75	1	86	1	237	1	380	1	672	1	1,851	
BUTLER.....	77	3,744	9	37	91	20	255	4	95	1	773	5	773	1	380	1	672	1	1,851	
CANONSBURG.....	32	2,971	9	14	37	3	32	1	30	1	30	3	525	1	496	1	672	1	1,851	
CARBONDALE.....	43	861	4	26	50	7	94	3	102	1	75	1	216	1	315	1	672	1	1,851	
CARLISLE.....	44	1,422	4	20	38	8	116	4	180	3	178	4	647	1	203	1	672	1	1,851	
CARNEGIE.....	26	222	2	16	38	5	53	2	69	1	57	1	647	1	203	1	672	1	1,851	
CARRICK.....	5	10	1	3	6	1	10	1	10	1	10	1	647	1	203	1	672	1	1,851	
CHAMBERSBURG.....	56	1,996	8	22	47	15	162	4	123	1	63	3	479	2	606	1	516	1	1,380	
CHARLEROI.....	35	2,023	2	24	41	4	57	2	55	1	118	1	118	1	372	1	775	3	12,930	
CHESTER.....	127	18,677	8	51	128	23	254	10	517	9	594	10	1,517	6	1,962	1	532	1	8,381	
COLUMBIA.....	56	2,322	7	24	71	10	97	4	136	4	279	5	821	1	386	1	637	1	1,375	
CONNELLSVILLE.....	51	1,623	0	23	57	13	168	2	52	4	258	1	116	1	335	1	637	1	1,375	
DICKSON CITY.....	10	806	1	4	7	1	7	2	64	1	64	1	145	2	590	1	637	1	1,375	
DU BOIS.....	41	1,397	2	26	67	8	76	1	29	3	196	1	122	1	997	1	997	1	1,029	
DUNMORE.....	27	1,800	5	11	32	4	36	1	173	5	305	2	296	3	1,213	1	771	1	1,154	
EASTON.....	102	4,672	17	131	301	62	730	35	1,114	16	1,198	17	2,682	9	3,074	5	2,924	1	1,274	
ERIE.....	293	13,297	5	39	87	13	137	7	188	16	1,198	2	241	0	3,074	5	2,924	1	1,274	
GREENSBURG.....	66	653	5	39	87	13	137	7	188	16	1,198	2	241	0	3,074	5	2,924	1	1,274	
HARRISBURG.....	216	10,522	30	95	210	39	412	20	616	14	1,058	11	1,967	3	942	2	1,471	2	3,846	
HAZLETON.....	74	3,815	8	30	91	21	238	4	110	6	423	2	380	2	631	2	1,471	2	3,846	
HOMESTEAD.....	45	513	9	22	33	9	116	2	62	2	128	1	174	1	204	1	1,140	1	1,140	
JEANNETTE.....	32	1,900	1	18	34	7	93	3	93	2	161	4	523	2	900	2	1,345	2	8,486	
JOHNSTOWN.....	149	12,855	11	69	166	38	383	15	462	7	439	4	617	2	723	2	1,579	1	8,486	
LANCASTER.....	285	9,444	47	103	265	72	759	27	956	14	994	14	2,180	4	1,404	3	1,882	1	1,004	
LEBANON.....	103	5,651	17	29	64	22	220	15	481	9	693	7	1,182	3	1,171	1	1,171	1	1,884	
MCKEESPORT.....	82	11,900	6	46	109	15	152	5	158	3	197	3	197	2	1,117	2	1,345	2	8,831	
MCKEES ROCKS.....	34	3,114	3	17	38	2	18	3	93	2	161	4	523	2	900	2	1,345	2	1,375	
MAHANAY CITY.....	24	450	14	38	4	47	2	94	4	271	4	271	4	271	4	271	4	271	4	271
MEADVILLE.....	43	1,941	4	17	43	11	125	2	74	2	154	0	787	1	383	1	658	1	658	
MOUNT CARMEL.....	35	1,221	5	15	30	4	47	2	45	2	160	3	556	1	383	1	658	1	658	
NANTICOKE.....	36	1,029	8	16	29	6	68	2	99	2	164	1	120	1	549	1	549	1	549	
NEW CASTLE.....	87	8,014	10	40	98	14	168	8	268	1	79	6	1,136	3	1,099	3	2,132	2	3,034	
NEW KENSINGTON.....	48	3,704	12	20	53	7	57	2	74	2	143	3	399	1	279	1	279	1	2,699	
NORRISTOWN.....	100	3,534	15	30	78	22	232	11	365	12	878	8	1,239	2	742	2	940	1	1,048	
OIL CITY.....	37	3,800	3	13	20	12	114	2	87	1	80	2	236	2	780	1	940	1	1,048	
OLD FORGE.....	8	262	1	5	6	7	7	1	7	1	7	1	255	1	255	1	255	1	255	
PHILADELPHIA.....	9,064	281,105	1,402	8,799	8,692	1,928	22,072	975	32,121	437	30,768	337	53,171	117	40,376	49	32,681	20	61,224	
PHOENIXVILLE.....	32	2,410	3	15	35	4	49	4	125	2	128	3	602	3	602	3	602	3	1,471	
PITTSBURGH.....	1,875	83,290	236	824	2,036	434	4,935	169	5,456	69	5,031	69	11,352	39	14,039	20	13,046	15	26,795	
PITTSFORD.....	40	974	5	16	40	9	100	3	86	6	405	3	405	3	405	3	405	3	405	
PLYMOUTH.....	21	588	3	9	21	2	27	3	95	2	102	2	283	2	283	2	283	2	283	
POTTSTOWN.....	86	4,090	8	34	94	19	202	5	150	7	524	8	1,121	4	1,362	1	640	1	640	
POTTSVILLE.....	91	2,977	12	36	86	21	228	14	446	4	251	1	232	1	454	2	1,280	1	1,280	
PUNXSUTAWNEY.....	30	457	3	18	48	8	83	4	108	3	218	28	4,023	12	4,138	0	4,303	5	9,134	
READING.....	527	29,122	78	176	397	104	1,173	72	2,464	46	3,430	22	3,516	4	1,474	6	3,903	1	1,129	
SCRANTON.....	311	14,407	34	98	244	79	915	40	1,866	27	1,930	22	3,516	4	1,474	6	3,903	1	1,129	
SHAMOKIN.....	67	3,251	12	29	72	13	134	6	197	3	226	2	235	1	148	1	768	1	1,624	
SHARON.....	40	2,707	6	17	49	8	104	3	114	2	145	1	148	1	148	1	148	1	148	
SHENANDOAH.....	39	759	2	21	57	9	115	2	67	2	113	3	407	1	291	2	1,552	1	1,552	
SUNBURY.....	45	2,128	10	18	45	10	111	3	75	1	54	2	307	1	293	1	293	1	293	
TAMAQUA.....	31	806	3	13	35	11	182	1	39	1	192	1	170	1	170	1	170	1	170	
UNIONTOWN.....	48	573	3	28	71	10	140	6	192	1	192	1	170	1	170	1	170	1	170	
WARREN.....	89	2,154	16	31	81	20	256	10	340	6	447	6	1,030	1	347	4	3,219	2	2,542	
WASHINGTON.....	92	2,880	10	63	115	9	97	4	122	3	233	2	297	1	347	4	3,219	2	2,542	
WEST CHESTER.....	52	1,005	10	22	58	11	124	6	179	3	233	2	297	1	347	4	3,219	2	2,542	
WILKES-BARRE.....	179	9,408	17	90	226	31	332	16	524	13	885	2	280	4	1,400	4	3,219	2	2,542	
WILKINSBURG.....	49	823	2	36	86	6	65	5	172	5	622	15	2,411	5	1,515	1	953	2	2,905	
WILLIAMSPORT.....	145	3,566	12	58	147	31	389	19	577	8	622	15	2,411	5	1,515	1	953	2	2,905	
YORK.....	273	13,383	38	86	221	59	735	39	1,360	22	1,536	18	2,460	8	2,868	1	953	2	2,905	
ALL OTHER CITIES.....	228	39,113	36	116	258	28	302	39	283	4	309	10	2,002	6	2,132	8	5,863	11	27,964	

1 All other cities embrace: Berwick, Coatesville, Donora, Duquesne, Farrell, Monessen, North Braddock, Olyphant, Steelton, Swissvale, and Woodlawn.

MANUFACTURES—PENNSYLVANIA.

TABLE 11.—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.....	27,973	27,521	27,583	1,135,837	924,478	877,543	\$7,315,702,867	\$2,332,349,437	\$2,628,742,034	\$3,105,294,239	\$1,143,428,721	\$1,044,182,046
Less than \$5,000.....	6,197	9,264	9,493	4,020	10,980	12,392	15,473,504	21,808,036	22,574,998	9,619,595	13,577,165	13,719,359
\$5,000 to \$20,000.....	8,257	3,598	3,784	24,280	43,762	46,720	89,388,454	87,643,164	90,897,695	48,462,428	47,818,762	48,251,171
\$20,000 to \$100,000.....	7,289	3,898	5,802	84,002	124,626	131,163	333,503,421	265,593,740	258,998,545	181,988,397	129,588,957	128,772,576
\$100,000 to \$500,000.....	4,113	2,769	3,104	199,349	368,694	370,082	932,559,677	601,258,501	623,159,484	437,015,079	428,201,132	412,461,925
\$500,000 to \$1,000,000.....	817	531	400	120,070	376,416	317,186	641,104,153	385,765,304	1,331,111,312	289,634,471	524,154,705	440,977,015
\$1,000,000 and over.....	1,200	491		703,216			5,303,673,658	1,490,280,092		2,158,574,260		
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.....	22.2	33.7	34.4	0.4	1.2	1.4	0.2	0.8	0.9	0.3	1.2	1.3
\$5,000 to \$20,000.....	29.5	31.2	31.8	2.1	4.7	5.3	1.2	3.1	3.5	1.6	4.2	4.6
\$20,000 to \$100,000.....	26.1	21.3	21.0	7.5	13.5	14.9	4.6	9.4	9.9	5.2	11.3	12.3
\$100,000 to \$500,000.....	14.7	10.1	11.3	17.6	39.9	42.2	12.7	21.2	35.1	14.1	37.5	30.5
\$500,000 to \$1,000,000.....	3.3	1.9		10.6			8.8	12.9		9.3		42.2
\$1,000,000 and over.....	4.3	1.8	1.5	61.9	40.7	36.1	72.5	52.6	50.7	60.5	45.8	

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Percent distribution.		1919	1914	Percent distribution.		1919	1914	Percent distribution.		1919	1914	Percent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
AUTOMOBILES.....	25	22	100.0	100.0	4,434	1,043	100.0	100.0	\$68,490,911	\$6,872,635	100.0	100.0	\$17,070,002	\$2,668,858	100.0	100.0
Less than \$20,000.....	3	4	12.0	18.2	7	6	0.2	0.4	27,582	19,570	(1)	0.3	21,832	8,747	0.1	0.3
\$20,000 to \$100,000.....	6	7	24.0	31.8	45	60	1.0	3.7	332,334	238,328	0.5	3.5	103,093	82,684	1.1	3.1
\$100,000 to \$500,000.....	8	8	32.0	36.4	194	247	4.4	33.3	1,646,126	2,590,615	2.4	37.7	587,765	953,674	3.4	35.7
\$500,000 to \$1,000,000.....	4		16.0		338		7.6		2,854,636		4.2		870,623		5.1	
\$1,000,000 and over.....	7	3	28.0	13.6	3,860	1,080	86.8	62.7	63,630,033	4,024,122	92.9	58.6	15,396,686	1,623,753	90.2	60.8
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES.....	128	131	100.0	100.0	13,317	13,184	100.0	100.0	65,411,673	27,844,752	100.0	100.0	24,439,720	11,320,623	100.0	100.0
Less than \$5,000.....	4	10	3.1	7.6	6	14	0.1	0.1	15,125	31,061	(1)	0.1	9,760	17,268	(1)	0.2
\$5,000 to \$20,000.....	10	14	7.8	10.7	44	139	0.3	1.1	117,399	164,241	0.2	0.6	60,248	76,203	0.2	0.7
\$20,000 to \$100,000.....	26	41	19.5	31.3	476	1,407	3.6	10.7	1,416,287	2,442,895	2.2	8.8	503,091	1,017,457	2.1	9.0
\$100,000 to \$500,000.....	53	48	41.4	36.6	3,142	2,831	23.6	67.4	12,914,010	9,087,320	19.7	32.5	5,087,320	2,769,825	20.7	67.1
\$500,000 to \$1,000,000.....	17	14	13.3	10.7	2,326		17.5		11,521,343	9,587,680	17.6	34.4	4,025,650		16.5	
\$1,000,000 and over.....	19	4	14.8	3.1	7,323	2,743	55.0	20.8	39,427,529	6,568,555	60.3	23.6	14,773,642	2,611,865	60.4	23.1
BREAD AND OTHER BAKERY PRODUCTS.....	2,651	2,987	100.0	100.0	16,410	15,157	100.0	100.0	132,880,426	54,139,906	100.0	100.0	49,406,563	22,454,532	100.0	100.0
Less than \$5,000.....	311	1,062	11.7	35.6	89	793	0.5	5.2	958,025	3,158,237	0.7	5.8	363,119	1,343,253	0.7	6.0
\$5,000 to \$20,000.....	1,301	1,551	49.1	51.9	1,850	4,257	11.3	28.1	15,093,385	14,669,528	11.4	27.1	5,690,750	6,142,633	11.3	27.4
\$20,000 to \$100,000.....	878	316	33.1	10.6	4,121	3,479	25.1	23.0	33,137,348	11,549,950	24.9	21.3	11,016,090	4,426,470	22.3	19.7
\$100,000 to \$500,000.....	128	46	4.8	1.5	3,433	2,767	20.9	24.0	27,282,014	8,332,641	20.5	16.3	9,464,652	2,532,162	19.2	23.7
\$500,000 to \$1,000,000.....	16	6	0.6	0.2	1,460		8.9		11,201,701	4,480,891	8.5	8.3	5,024,022		10.2	
\$1,000,000 and over.....	17	6	0.6	0.2	5,457	2,361	33.3	18.9	45,147,353	11,448,659	34.0	21.1	17,948,011	5,210,614	36.3	23.2
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	195	163	100.0	100.0	78,749	54,729	100.0	100.0	231,533,870	93,608,049	100.0	100.0	128,370,353	44,451,003	100.0	100.0
Less than \$5,000.....	8	10	4.1	6.1	16	28	(1)	0.1	24,348	29,769	(1)	(1)	17,936	17,405	(1)	(1)
\$5,000 to \$20,000.....	8	12	4.1	7.4	38	144	(1)	0.3	83,583	143,890	(1)	0.2	52,547	94,327	(1)	0.2
\$20,000 to \$100,000.....	33	40	16.9	24.5	736	1,539	0.9	2.8	1,730,042	2,139,767	0.7	2.3	1,205,626	1,258,723	0.9	2.8
\$100,000 to \$500,000.....	68	58	34.9	35.6	7,874	15,446	9.4	25.2	17,467,210	11,460,129	7.5	12.2	11,973,178	11,749,559	9.3	26.4
\$500,000 to \$1,000,000.....	24	17	12.3	10.4	6,645		8.4		17,066,214	11,255,245	7.4	12.0	10,898,034		8.5	
\$1,000,000 and over.....	54	26	27.7	16.0	63,940	37,672	81.2	68.7	195,162,473	68,579,249	84.3	73.3	104,223,082	31,330,989	81.2	70.5
CHEMICALS.....	56	39	100.0	100.0	7,134	4,748	100.0	100.0	73,332,932	22,387,835	100.0	100.0	46,551,782	9,772,454	100.0	100.0
Less than \$5,000.....		4		10.3		8		0.2		12,750		0.1		8,921		0.1
\$5,000 to \$20,000.....	5	3	8.9	7.7	10	11	0.1	0.2	58,002	27,994	0.1	0.1	33,433	13,398	0.1	0.1
\$20,000 to \$100,000.....	12	9	21.4	23.1	126	92	1.8	1.9	714,533	506,379	1.0	2.3	348,514	265,162	0.7	2.7
\$100,000 to \$500,000.....	17	12	30.4	30.8	458	262	6.4	19.5	4,093,333	2,788,630	5.6	12.5	2,005,087	2,688,221	4.3	21.3
\$500,000 to \$1,000,000.....	8	5	14.3	12.8	263		3.7		5,240,624	3,347,553	7.2	15.0	2,452,162		5.3	
\$1,000,000 and over.....	14	6	25.0	15.4	6,277	3,711	88.0	78.2	63,220,440	15,704,529	36.2	70.1	41,712,586	7,406,420	89.6	75.8
CLOTHING, MEN'S.....	602	504	100.0	100.0	12,855	10,236	100.0	100.0	73,169,811	28,033,187	100.0	100.0	34,959,909	13,602,311	100.0	100.0
Less than \$5,000.....	96	158	15.9	31.3	173	528	1.3	5.2	267,110	371,007	0.4	1.3	235,112	331,779	0.7	2.4
\$5,000 to \$20,000.....	169	160	28.1	31.7	1,105	2,058	8.6	20.1	2,014,141	1,682,310	2.8	6.0	1,089,209	1,415,418	4.8	10.4
\$20,000 to \$100,000.....	184	121	30.6	24.0	3,362	2,767	26.2	27.0	8,413,103	5,435,916	11.5	19.4	5,192,578	2,688,221	14.9	19.8
\$100,000 to \$500,000.....	121	58	20.1	11.5	3,655	2,401	28.4	33.2	27,195,147	11,264,498	37.2	40.2	10,585,425	2,535,662	30.3	39.4
\$500,000 to \$1,000,000.....	25	3	4.2	0.6	1,819		14.2		17,228,923	1,953,667	23.5	7.0	1,833,857		21.3	
\$1,000,000 and over.....	7	4	1.2	0.8	2,741	1,482	21.3	14.5	18,051,387	7,325,760	24.7	26.1	9,823,728	3,813,231	28.1	28.0
CLOTHING, WOMEN'S.....	815	483	100.0	100.0	14,364	17,217	100.0	100.0	77,473,729	37,059,174	100.0	100.0	31,256,643	16,716,783	100.0	100.0
Less than \$5,000.....	48	51	7.8	10.6	56	97	0.4	0.6	115,646	124,312	0.1	0.3	67,606	74,845	0.2	0.4
\$5,000 to \$20,000.....	130	109	21.1	22.6	829	1,045	5.8	6.1	1,507,358	1,220,674	1.9	3.3	953,128	728,875	3.0	4.4
\$20,000 to \$100,000.....	225	206	36.6	42.6	3,101	4,785	21.6	27.8	11,771,987	9,787,627	15.2	28.4	5,069,456	4,638,606	18.1	27.1
\$100,000 to \$500,000.....	184	110	29.9	22.8	7,195	2,112	50.1	65.6	41,104,240	20,697,523	53.1	55.8	16,144,507	11,874,557	51.7	68.0
\$500,000 to \$1,000,000.....	21	7	3.4	1.4	2,408		16.8		14,476,642	5,223,038	18.7	14.1	5,852,536		18.7	
\$1,000,000 and over.....	7				775		5.4		8,497,876		11.0		2,569,412		8.2	

¹ Less than one-tenth of 1 per cent.² Includes the group "\$500,000 to \$1,000,000."

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Continued.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914
COKE, NOT INCLUDING GAS-HOUSE COKE.....	123	108	100.0	100.0	11,536	9,871	100.0	100.0	\$119,730,589	\$42,996,443	100.0	100.0
Less than \$5,000.....	3	3	2.4	2.8	3	9	(1)	(1)	9,836	10,537	(1)	(1)
\$5,000 to \$20,000.....	14	6	11.4	5.6	35	28	0.3	0.3	173,665	74,180	0.1	0.2
\$20,000 to \$100,000.....	26	39	21.1	36.1	265	827	2.3	8.4	1,328,185	1,813,064	1.1	4.2
\$100,000 to \$500,000.....	39	39	31.7	36.1	1,198	3,962	10.4	40.1	9,528,708	9,260,495	8.0	21.6
\$500,000 to \$1,000,000.....	17	12	13.8	11.1	1,342	1,342	11.6	51.1	12,619,288	7,804,781	10.5	17.0
\$1,000,000 and over.....	24	9	19.5	8.3	8,693	5,047	75.4	51.1	96,070,909	24,527,406	80.2	57.0
CONFECTIONERY AND ICE CREAM.....	839	652	100.0	100.0	11,010	8,038	100.0	100.0	71,120,044	24,087,510	100.0	100.0
Less than \$5,000.....	219	248	26.1	38.0	80	168	0.7	2.1	558,960	589,513	0.8	2.4
\$5,000 to \$20,000.....	290	245	35.3	37.6	531	730	4.8	9.1	3,200,984	2,622,249	4.5	10.5
\$20,000 to \$100,000.....	214	117	25.5	17.9	1,519	1,617	13.8	20.1	9,055,165	5,029,572	12.7	20.9
\$100,000 to \$500,000.....	89	32	10.6	4.9	3,238	5,523	29.4	68.7	19,938,878	7,146,137	28.1	29.7
\$500,000 to \$1,000,000.....	6	10	0.7	1.5	877	877	8.0	36.5	4,636,993	8,800,039	6.5	36.5
\$1,000,000 and over.....	15	9	1.8	1.8	4,765	4,765	43.3	47.3	33,669,053	13,857,700	47.3	47.3
COTTON GOODS.....	118	116	100.0	100.0	9,767	9,158	100.0	100.0	66,404,059	22,087,010	100.0	100.0
Less than \$5,000.....	3	0	2.5	5.2	7	9	0.1	0.1	10,698	13,624	(1)	0.1
\$5,000 to \$20,000.....	10	11	8.5	9.5	52	78	0.5	0.9	121,505	138,791	0.2	0.6
\$20,000 to \$100,000.....	18	46	15.3	39.7	214	1,208	2.2	13.2	1,093,898	2,446,782	1.6	10.9
\$100,000 to \$500,000.....	54	44	45.8	37.9	2,306	5,232	23.6	57.1	13,097,905	9,019,534	19.7	44.3
\$500,000 to \$1,000,000.....	19	4	18.1	3.4	2,196	2,196	22.5	28.7	13,450,390	2,225,254	20.3	9.0
\$1,000,000 and over.....	14	5	11.9	4.3	4,992	2,631	51.1	28.7	38,629,763	7,664,022	58.2	34.2
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.....	129	105	100.0	100.0	24,228	14,866	100.0	100.0	132,673,856	44,395,789	100.0	100.0
Less than \$5,000.....	9	13	7.0	12.4	8	21	(1)	0.1	25,450	34,220	(1)	0.1
\$5,000 to \$20,000.....	29	25	22.5	23.8	90	154	0.4	1.0	352,244	295,143	0.3	0.7
\$20,000 to \$100,000.....	43	37	33.3	35.2	593	602	2.4	4.5	2,198,161	1,635,054	1.7	3.7
\$100,000 to \$500,000.....	23	17	17.8	16.2	1,107	2,400	4.6	16.1	5,251,173	3,420,710	4.0	7.7
\$500,000 to \$1,000,000.....	9	6	7.0	5.7	1,650	1,650	6.4	7.8	6,251,802	3,573,476	4.7	8.0
\$1,000,000 and over.....	16	7	12.4	6.7	20,880	11,629	86.2	78.2	118,595,026	35,437,186	89.4	79.8
ENGINES, STEAM, GAS, AND WATER.....	34	56	100.0	100.0	9,711	5,222	100.0	100.0	52,574,026	11,891,872	100.0	100.0
Less than \$5,000.....	11	11	19.6	19.6	10	10	0.2	0.2	24,725	24,725	0.2	0.2
\$5,000 to \$20,000.....	6	11	11.8	19.6	13	60	0.1	1.1	39,817	94,740	0.1	0.8
\$20,000 to \$100,000.....	8	17	23.5	30.4	92	455	0.9	8.7	330,087	874,217	0.6	7.7
\$100,000 to \$500,000.....	11	13	32.4	23.2	783	4,697	8.1	89.9	3,327,725	3,273,784	6.3	28.7
\$500,000 to \$1,000,000.....	4	4	11.8	7.1	774	774	8.0	8.0	2,891,744	7,124,426	5.5	62.5
\$1,000,000 and over.....	7	7	20.6	20.6	8,049	8,049	82.9	82.9	45,984,653	45,984,653	87.5	87.5
FLOUR-MILL AND GRIST-MILL PRODUCTS.....	1,138	1,265	100.0	100.0	2,198	2,595	100.0	100.0	69,446,449	43,626,356	100.0	100.0
Less than \$5,000.....	100	224	8.8	17.7	18	94	0.8	3.6	290,729	655,498	0.4	1.5
\$5,000 to \$20,000.....	386	503	33.9	44.5	224	540	10.2	20.8	4,681,235	6,302,059	6.7	14.4
\$20,000 to \$100,000.....	529	418	46.5	33.0	877	1,057	39.9	40.7	23,185,454	16,157,683	33.4	37.0
\$100,000 to \$500,000.....	107	51	9.4	4.0	640	575	29.1	22.2	10,081,737	8,977,480	27.5	20.6
\$500,000 to \$1,000,000.....	9	4	0.8	0.3	128	128	5.8	5.8	6,357,623	2,184,604	9.2	5.0
\$1,000,000 and over.....	7	5	0.6	0.4	311	329	14.1	12.7	15,866,671	9,348,426	22.8	21.4
FOUNDRY AND MACHINE-SHOP PRODUCTS.....	1,407	1,231	100.0	100.0	79,009	57,116	100.0	100.0	401,357,909	140,799,115	100.0	100.0
Less than \$5,000.....	218	278	15.5	22.6	145	354	0.2	0.6	557,097	681,153	0.1	0.5
\$5,000 to \$20,000.....	332	349	23.6	28.4	1,258	2,064	1.6	3.6	3,896,209	3,638,380	1.0	2.6
\$20,000 to \$100,000.....	878	359	26.9	29.2	5,156	8,628	6.5	15.1	19,224,594	17,451,864	4.8	12.4
\$100,000 to \$500,000.....	300	178	21.3	14.5	15,305	28,531	10.4	50.0	67,618,591	39,214,638	16.8	27.9
\$500,000 to \$1,000,000.....	79	42	5.6	3.4	11,385	11,385	14.4	14.4	56,286,012	29,936,945	14.0	19.1
\$1,000,000 and over.....	100	25	7.1	2.0	45,760	17,539	57.9	30.7	253,825,195	52,875,835	63.2	37.6
GLASS.....	102	103	100.0	100.0	21,602	23,606	100.0	100.0	80,479,752	39,797,822	100.0	100.0
Less than \$100,000.....	12	12	11.8	11.7	228	488	1.1	2.1	513,452	691,947	0.6	1.7
\$100,000 to \$500,000.....	52	67	51.0	65.0	5,542	16,603	25.7	70.6	15,185,154	15,654,908	18.9	39.3
\$500,000 to \$1,000,000.....	14	15	13.7	14.6	3,214	3,214	14.9	27.3	9,324,400	9,888,939	11.6	24.8
\$1,000,000 and over.....	24	9	23.5	8.7	12,618	6,455	58.4	27.3	53,457,120	13,501,938	68.9	34.1
IRON AND STEEL, BLAST FURNACES.....	58	52	100.0	100.0	14,619	11,518	100.0	100.0	311,080,081	135,800,067	100.0	100.0
\$20,000 to \$100,000.....	7	4	12.1	7.7	97	41	0.7	0.4	719,055	201,713	0.2	0.1
\$100,000 to \$500,000.....	10	10	19.2	19.2	2,007	2,007	17.4	17.4	3,202,190	3,202,190	2.4	2.4
\$500,000 to \$1,000,000.....	6	11	10.3	21.2	507	507	3.5	8.6	4,511,088	9,012,571	1.5	6.6
\$1,000,000 and over.....	45	27	77.6	51.9	14,015	9,470	95.9	82.2	305,849,938	123,389,593	98.3	90.9
IRON AND STEEL, STEEL WORKS AND ROLLING MILLS.....	198	178	100.0	100.0	171,715	131,955	100.0	100.0	1,296,412,070	448,100,324	100.0	100.0
Less than \$20,000.....	0	3	3.0	3.0	39	39	(1)	(1)	74,499	74,499	(1)	(1)
\$20,000 to \$100,000.....	7	8	3.5	4.5	154	398	0.1	0.3	510,109	429,759	0.1	0.1
\$100,000 to \$500,000.....	31	54	15.7	30.3	2,599	18,147	1.5	13.8	10,407,362	13,751,540	0.8	3.1
\$500,000 to \$1,000,000.....	19	29	9.6	16.8	3,235	3,235	1.9	1.9	14,000,952	21,445,171	1.1	4.8
\$1,000,000 and over.....	135	87	68.2	48.9	165,658	113,410	96.5	85.9	1,271,410,148	412,479,854	98.1	92.0

1 Less than one-tenth of 1 per cent.

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

3 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

4 Includes the group "\$1,000,000 and over."

5 Includes the group "Less than \$5,000."

6 Includes "iron and steel, tempering and welding"; "machine tools"; "steel barrels, drums, and tanks"; and "textile machinery and parts."

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

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Continued.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1910	1914	Percent distribution.		1910	1914	Percent distribution.		1910	1914	Percent distribution.		1919	1914	Percent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
KNIT GOODS.	606	498	100.0	100.0	44,156	41,130	100.0	100.0	\$188,260,800	\$64,153,449	100.0	100.0	\$71,564,027	\$26,397,148	100.0	100.0
Less than \$5,000.	26	38	4.3	7.6	31	114	0.1	0.3	68,383	82,950	(1)	0.1	38,620	45,971	0.1	0.2
\$5,000 to \$20,000.	45	80	7.4	16.1	293	911	0.7	2.2	534,029	931,637	0.3	1.5	238,306	466,591	0.3	1.8
\$20,000 to \$100,000.	180	226	29.7	45.4	3,729	8,987	8.4	21.9	9,824,869	12,008,676	5.2	18.7	3,682,019	5,081,869	5.1	19.3
\$100,000 to \$500,000.	281	129	43.1	25.9	15,580	22,649	35.3	55.1	59,098,655	26,381,442	31.7	41.1	22,257,455	15,222,300	31.1	57.7
\$500,000 to \$1,000,000.	58	16	9.6	3.2	9,235	.....	20.9	.....	41,439,949	9,978,130	22.0	15.6	15,227,977	.....	21.3	.....
\$1,000,000 and over.	36	9	5.9	1.8	15,288	8,469	34.6	20.6	76,694,915	14,770,602	40.7	23.0	30,119,650	5,580,417	42.1	21.1
LEATHER, TANNED, CURRIED, AND FINISHED.	92	120	100.0	100.0	13,749	11,988	100.0	100.0	211,389,349	85,252,532	100.0	100.0	64,983,972	16,043,812	100.0	100.0
Less than \$20,000.	4	10	4.3	8.3	6	35	(1)	0.3	26,999	84,808	(1)	0.1	15,987	37,743	(1)	0.2
\$20,000 to \$100,000.	8	12	8.7	10.0	78	180	0.6	1.5	394,682	814,287	0.2	1.0	193,403	198,963	0.3	1.2
\$100,000 to \$500,000.	17	57	18.5	47.5	575	4,839	4.2	40.4	4,586,664	23,446,466	2.2	27.5	1,558,883	6,593,202	2.4	38.9
\$500,000 to \$1,000,000.	11	13	12.0	10.8	572	.....	4.2	.....	8,150,372	9,179,020	3.9	10.8	1,847,004	.....	2.8	.....
\$1,000,000 and over.	52	28	50.5	23.3	12,518	6,984	91.0	57.8	108,224,632	51,727,971	93.8	60.7	61,368,095	10,113,904	94.4	59.7
LIQUORS, MALT.	166	215	100.0	100.0	5,231	7,512	100.0	100.0	59,331,515	50,362,792	100.0	100.0	44,924,552	34,660,271	100.0	100.0
Less than \$5,000.	4	3	2.4	1.4	22	42	0.4	0.6	49,906	10,669	(1)	0.3	30,797	7,008	(1)	0.2
\$5,000 to \$20,000.	38	56	22.9	26.0	408	807	7.8	10.7	2,434,940	3,458,411	4.1	6.9	1,585,641	2,352,800	3.5	6.8
\$20,000 to \$100,000.	94	127	56.6	59.1	2,312	5,443	44.2	72.5	23,223,040	27,516,220	39.1	54.6	10,788,446	24,131,037	37.4	69.6
\$100,000 to \$500,000.	18	12	10.8	5.6	1,000	.....	20.3	.....	12,328,543	8,103,505	20.8	16.1	9,443,684	.....	21.0	.....
\$500,000 to \$1,000,000.	12	8	7.2	3.7	1,429	1,215	27.3	16.2	21,294,996	11,140,005	35.9	22.1	17,099,084	8,094,307	38.1	23.4
\$1,000,000 and over.	19	7	11.3	3.3	8,465	4,220	86.0	56.7	57,232,774	14,240,295	88.4	56.0	26,489,903	5,727,247	91.1	61.0
PAPER AND WOOD PULP.	50	53	100.0	100.0	9,843	7,447	100.0	100.0	64,715,767	25,439,346	100.0	100.0	29,072,649	9,392,789	100.0	100.0
\$5,000 to \$20,000.	4	8	7.1	15.1	16	43	0.2	0.6	55,411	75,432	0.1	0.3	20,288	42,649	0.1	0.5
\$20,000 to \$100,000.	12	13	21.4	24.5	163	250	1.7	3.4	658,946	708,673	1.0	2.8	244,047	256,987	0.8	2.7
\$100,000 to \$500,000.	16	15	28.6	28.3	626	2,934	6.4	39.4	3,357,489	3,270,922	5.2	12.9	1,159,242	3,365,906	4.0	35.8
\$500,000 to \$1,000,000.	5	10	8.9	18.9	573	.....	5.8	.....	3,411,147	7,144,024	5.3	28.1	1,159,189	.....	4.0	.....
\$1,000,000 and over.	19	7	33.9	13.2	8,465	4,220	86.0	56.7	57,232,774	14,240,295	88.4	56.0	26,489,903	5,727,247	91.1	61.0
PETROLEUM, REFINING.	53	48	100.0	100.0	8,235	4,902	100.0	100.0	178,825,632	52,875,101	100.0	100.0	43,844,427	8,490,607	100.0	100.0
Less than \$100,000.	5	6	9.4	12.5	18	25	0.2	0.5	166,856	249,537	0.1	0.5	43,215	37,457	0.1	0.4
\$100,000 to \$500,000.	9	19	17.0	39.6	163	829	2.0	16.9	2,466,854	5,737,545	1.4	10.9	399,285	1,981,566	0.9	23.3
\$500,000 to \$1,000,000.	6	13	11.3	27.1	121	.....	1.5	.....	4,812,090	8,128,876	2.4	15.4	700,345	.....	1.6	.....
\$1,000,000 and over.	33	10	62.3	20.8	7,933	4,048	96.3	82.6	171,870,832	38,759,143	96.1	73.3	42,701,582	6,471,584	97.4	76.2
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.	903	1,133	100.0	100.0	12,331	12,750	100.0	100.0	106,666,923	52,239,269	100.0	100.0	67,618,690	36,789,943	100.0	100.0
Less than \$5,000.	311	508	32.3	44.8	205	648	1.7	5.1	834,712	1,354,017	0.8	2.6	661,649	1,113,096	1.0	3.0
\$5,000 to \$20,000.	367	401	38.1	35.4	1,047	1,752	8.5	13.7	3,648,004	3,775,135	3.4	7.2	2,763,076	2,996,468	4.1	8.1
\$20,000 to \$100,000.	208	169	21.6	14.9	2,009	2,654	16.3	20.8	9,463,734	6,921,171	8.0	13.2	6,031,678	5,320,000	10.3	14.5
\$100,000 to \$500,000.	54	35	5.6	3.1	2,351	3,358	19.1	26.3	11,653,974	6,598,824	10.9	12.6	7,760,005	10,540,344	11.5	28.7
\$500,000 to \$1,000,000.	7	12	0.7	1.1	588	.....	4.8	.....	5,020,446	7,099,474	4.7	15.3	3,474,684	.....	5.1	.....
\$1,000,000 and over.	16	8	1.7	0.7	6,181	4,338	49.7	34.0	76,037,053	25,690,648	71.3	49.0	46,027,607	16,812,535	68.1	45.7
SILK GOODS, INCLUDING THROWSTERS.	373	284	100.0	100.0	53,052	44,755	100.0	100.0	231,711,352	86,938,554	100.0	100.0	105,424,109	38,143,073	100.0	100.0
Less than \$5,000.	7	7	1.9	2.5	51	62	0.1	0.1	24,952	24,952	(1)	0.1	20,291	20,291	0.1	0.1
\$5,000 to \$20,000.	98	96	26.3	33.8	4,177	6,426	7.9	14.4	76,939	302,601	(1)	0.3	3,63,299	224,793	0.1	0.6
\$20,000 to \$100,000.	146	110	39.1	38.7	13,252	21,083	25.0	47.1	5,767,746	4,962,535	2.5	5.7	4,100,396	2,965,935	3.9	7.8
\$100,000 to \$500,000.	58	25	15.0	8.8	8,813	.....	16.6	.....	36,688,033	24,564,184	15.8	28.3	19,002,884	18,065,214	18.0	47.4
\$500,000 to \$1,000,000.	66	22	17.7	7.7	26,746	16,563	50.4	37.0	40,363,147	16,448,431	17.4	18.9	18,000,381	.....	17.2	.....
\$1,000,000 and over.	66	22	17.7	7.7	26,746	16,563	50.4	37.0	148,815,487	40,635,851	64.2	46.7	64,161,149	16,836,840	60.9	44.1
SLAUGHTERING AND MEAT PACKING.	176	146	100.0	100.0	4,438	3,616	100.0	100.0	122,862,240	65,191,272	100.0	100.0	15,581,224	7,586,583	100.0	100.0
Less than \$5,000.	25	17	14.2	11.6	16	24	0.4	0.7	323,700	17,438	(1)	0.3	62,415	6,906	0.4	0.1
\$5,000 to \$20,000.	65	52	36.9	35.6	130	167	3.1	4.6	3,501,339	2,615,936	2.8	4.0	604,908	467,153	3.9	6.2
\$20,000 to \$100,000.	46	46	26.1	31.5	451	1,070	10.2	29.6	12,300,186	11,535,114	10.0	17.7	1,647,805	2,333,037	10.6	30.8
\$100,000 to \$500,000.	18	9	9.1	6.2	256	.....	5.8	.....	10,728,795	6,006,160	8.7	9.3	1,251,293	.....	8.0	.....
\$500,000 to \$1,000,000.	24	16	13.6	11.0	3,579	2,350	80.6	65.0	96,008,220	44,765,028	78.1	68.7	12,014,805	4,732,741	77.1	62.4
STRUCTURAL IRON-WORK, NOT MADE IN STEEL WORKS OR ROLLING MILLS.	145	137	100.0	100.0	10,722	9,308	100.0	100.0	78,305,995	35,763,060	100.0	100.0	32,823,600	15,403,076	100.0	100.0
Less than \$5,000.	15	23	10.3	16.8	10	35	0.1	0.4	41,065	55,145	0.1	0.2	24,533	38,074	0.1	0.2
\$5,000 to \$20,000.	33	42	22.8	30.7	90	233	0.8	2.5	385,503	466,855	0.5	1.3	215,168	282,745	0.7	1.8
\$20,000 to \$100,000.	39	37	26.9	27.0	435	802	4.1	8.6	1,852,288	1,690,390	2.4	4.7	973,075	872,658	3.0	5.7
\$100,000 to \$500,000.	26	17	17.9	13.9	1,184	2,800	11.0	30.2	6,046,663	4,458,390	7.7	12.5	3,175,351	4,319,019	9.7	28.0
\$500,000 to \$1,000,000.	12	7	8.3	5.1	1,450											

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TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Continued.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		
			1919	1914			1919	1914			1919	1914			1919	1914	
WOOLEN GOODS.....	108	95	100.0	100.0	7,398	5,960	100.0	100.0	\$48,239,627	\$15,460,489	100.0	100.0	\$19,900,382	\$5,249,890	100.0	100.0	
Less than \$5,000.....	10	14	9.3	14.7	9	34	0.1	0.6	20,795	30,154	(1)	0.2	12,933	16,577	0.1	0.3	
\$5,000 to \$20,000.....	5	10	4.6	10.5	42	110	0.6	1.8	56,553	104,089	0.1	0.7	47,702	83,216	0.2	1.6	
\$20,000 to \$100,000.....	18	23	16.7	23.2	327	658	4.4	11.0	912,193	1,343,393	1.9	8.7	655,375	466,496	3.3	8.9	
\$100,000 to \$500,000.....	41	40	38.0	42.1	2,045	2,515	27.6	86.5	10,627,870	7,797,613	22.0	50.4	4,699,993	2,468,601	23.6	89.2	
\$500,000 to \$1,000,000.....	22	9	20.4	9.5	2,267	.....	30.6	.....	15,353,565	8,185,260	31.8	40.0	5,870,393	.....	29.5	.....
\$1,000,000 and over.....	12	.....	11.1	.....	2,703	.....	33.6	.....	21,268,651	.....	44.1	.....	8,613,926	.....	43.3	.....
WORSTED GOODS.....	80	91	100.0	100.0	15,400	17,892	100.0	100.0	118,475,141	47,652,571	100.0	100.0	35,963,195	14,120,718	100.0	100.0	
Less than \$5,000.....	4	4.4	5	(1)	8,312	(1)	4,548	(1)
\$5,000 to \$20,000.....	5	5.5	30	0.2	45,897	0.1	35,478	0.3
\$20,000 to \$100,000.....	12	17	13.5	18.7	235	635	1.5	3.5	516,361	995,118	0.4	2.1	405,022	451,988	1.1	3.2	
\$100,000 to \$500,000.....	23	34	25.8	37.4	1,498	6,452	9.7	36.1	5,759,188	8,652,719	4.9	18.2	2,521,256	6,053,909	7.0	42.9	
\$500,000 to \$1,000,000.....	19	14	21.3	15.4	1,509	.....	9.8	.....	14,108,528	9,750,135	11.9	20.5	4,430,529	.....	12.3	.....
\$1,000,000 and over.....	35	17	39.3	18.7	12,158	10,770	78.9	60.2	98,091,064	28,200,390	82.8	59.2	28,507,388	7,574,795	79.5	53.6	

¹ Less than one-tenth of 1 per cent.² Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."³ Includes the group "\$1,000,000 and over."⁴ Includes the groups "Less than \$5,000" and "\$5,000 to \$20,000."⁵ Includes the group "\$500,000 to \$1,000,000."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ALLENTOWN.....	336	14,812	100.0	\$90,834,488	100.0	\$39,714,454	100.0	BUTLER.....	77	3,744	100.0	\$44,478,790	100.0	\$10,737,033	100.0
Less than \$5,000.....	70	41	0.3	180,100	0.2	108,906	0.3	Less than \$5,000.....	13	4	0.1	35,083	0.1	20,824	0.2
\$5,000 to \$20,000.....	98	333	2.2	1,087,472	1.2	607,525	1.5	\$5,000 to \$20,000.....	31	98	2.6	332,245	0.7	202,648	1.9
\$20,000 to \$100,000.....	81	1,130	7.6	3,666,258	4.0	1,707,675	4.3	\$20,000 to \$100,000.....	18	204	5.4	1,089,793	2.4	578,620	5.4
\$100,000 to \$500,000.....	55	3,337	22.5	13,033,844	14.3	6,213,199	15.6	\$100,000 and over.....	15	3,438	91.8	43,019,669	96.7	9,934,932	92.5
\$500,000 to \$1,000,000.....	16	2,692	17.5	11,357,213	12.5	6,143,892	15.5	CANONSBURG.....	32	2,071	100.0	16,894,336	100.0	7,370,109	100.0
\$1,000,000 and over.....	10	7,379	49.8	61,520,601	67.7	24,933,287	62.8	Less than \$5,000.....	4	.....	.....	9,034	0.1	3,817	0.1
ALTOONA.....	64	12,800	100.0	53,946,093	100.0	22,780,418	100.0	\$5,000 to \$20,000.....	13	16	0.5	134,400	0.8	62,018	0.8
Less than \$5,000.....	10	4	(1)	25,306	(1)	14,710	0.1	\$20,000 to \$100,000.....	7	32	1.1	226,511	1.3	88,994	1.2
\$5,000 to \$20,000.....	19	46	0.4	182,259	0.3	108,870	0.5	\$100,000 and over.....	8	2,023	98.4	16,524,391	97.8	7,215,280	97.9
\$20,000 to \$100,000.....	18	177	1.4	829,221	1.5	452,762	2.0	CARBONDALE.....	43	861	100.0	3,187,996	100.0	1,673,579	100.0
\$100,000 and over.....	17	12,573	98.2	52,909,307	98.1	22,204,070	97.5	Less than \$5,000.....	10	9	1.0	30,834	1.0	16,298	1.0
AMBRIDGE.....	22	3,414	100.0	26,768,145	100.0	11,194,049	100.0	\$5,000 to \$20,000.....	15	43	5.0	149,064	4.7	81,318	4.9
Less than \$20,000.....	6	8	0.2	58,575	0.2	40,857	0.4	\$20,000 to \$100,000.....	10	82	9.5	405,325	12.7	143,802	8.6
\$20,000 to \$100,000.....	9	83	2.4	332,938	1.2	127,953	1.1	\$100,000 and over.....	8	727	84.4	2,602,773	81.6	1,432,161	85.6
\$100,000 and over.....	7	3,323	97.3	26,376,632	98.5	11,025,239	98.5	CARLISLE.....	44	1,422	100.0	6,543,455	100.0	3,079,179	100.0
BEAVER FALLS.....	71	3,204	100.0	20,414,439	100.0	9,882,620	100.0	Less than \$5,000.....	8	5	0.4	16,899	0.3	10,894	0.4
Less than \$5,000.....	12	7	0.2	39,340	0.2	20,448	0.2	\$5,000 to \$20,000.....	13	40	2.8	129,816	2.0	67,852	2.2
\$5,000 to \$20,000.....	26	62	1.9	302,749	1.5	178,259	1.8	\$20,000 to \$100,000.....	12	204	14.3	443,272	6.8	208,463	6.8
\$20,000 to \$100,000.....	10	151	4.7	794,088	3.9	435,264	4.4	\$100,000 to \$500,000.....	7	368	25.9	1,598,294	24.4	753,102	24.5
\$100,000 to \$500,000.....	9	662	20.7	2,122,301	10.4	1,271,230	12.9	\$500,000 and over.....	4	805	58.6	4,355,174	66.6	2,038,928	66.2
\$500,000 and over.....	5	2,322	72.5	17,155,970	84.0	7,977,419	80.7	CARNEGIE.....	26	222	100.0	2,789,605	100.0	861,535	100.0
BETHLEHEM.....	86	14,061	100.0	102,567,075	100.0	47,188,049	100.0	Less than \$5,000.....	4	2	0.9	9,200	0.3	6,589	0.8
Less than \$5,000.....	16	9	0.1	35,988	(1)	25,687	0.1	\$5,000 to \$20,000.....	10	25	11.2	115,208	4.1	70,490	8.2
\$5,000 to \$20,000.....	24	62	0.4	294,103	0.3	134,370	0.3	\$20,000 to \$100,000.....	5	21	9.5	199,204	7.1	84,961	9.9
\$20,000 to \$100,000.....	19	329	2.2	659,180	0.9	538,984	1.1	\$100,000 and over.....	7	174	78.4	2,465,993	88.4	699,495	81.2
\$100,000 and over.....	27	14,561	97.3	101,307,714	98.8	46,489,008	98.5	CARRICK.....	5	16	100.0	120,849	100.0	67,305	100.0
BRADDOCK.....	49	1,170	100.0	9,438,995	100.0	3,533,368	100.0	\$5,000 to \$100,000.....	5	16	100.0	120,849	100.0	67,305	100.0
Less than \$5,000.....	9	3	0.3	20,430	0.2	12,046	0.3	CHAMBERSBURG.....	56	1,996	100.0	8,791,872	100.0	4,860,050	100.0
\$5,000 to \$20,000.....	15	24	2.1	160,316	1.7	78,715	2.2	Less than \$5,000.....	13	10	0.5	33,914	0.4	14,007	0.3
\$20,000 to \$100,000.....	17	110	10.2	836,937	8.9	360,700	10.2	\$5,000 to \$20,000.....	19	98	4.9	226,119	2.6	126,913	2.9
\$100,000 and over.....	8	1,024	87.5	8,421,312	89.2	3,081,907	87.2	\$20,000 to \$100,000.....	15	162	8.1	671,572	7.6	371,710	8.5
BRADFORD.....	83	1,539	100.0	10,861,158	100.0	4,468,733	100.0	\$100,000 to \$1,000,000.....	5	675	33.8	2,631,487	29.9	1,541,700	35.4
Less than \$5,000.....	22	8	0.5	61,142	0.6	33,587	0.8	\$1,000,000 and over.....	4	1,051	52.7	5,228,780	59.5	2,304,820	52.9
\$5,000 to \$20,000.....	20	42	2.7	218,856	2.0	119,183	2.7	CHARLEROI.....	35	2,023	100.0	5,687,212	100.0	3,129,663	100.0
\$20,000 to \$100,000.....	21	212	13.8	902,373	8.3	488,590	10.9	Less than \$5,000.....	19	25	1.2	230,199	4.0	97,810	3.1
\$100,000 to \$500,000.....	15	835	54.3	3,025,020	27.9	1,739,538	38.9	\$5,000 to \$20,000.....	10	74	3.7	348,554	6.1	170,075	5.5
\$500,000 and over.....	5	442	28.7	6,653,767	61.3	2,087,835	46.7	\$20,000 to \$100,000.....	6	1,924	95.1	5,108,459	89.8	2,861,178	91.4
BRISTOL.....	34	1,470	100.0	5,697,607	100.0	3,105,826	100.0	\$100,000 and over.....	.....	.....	.....	.....	.....	.....	.....
Less than \$5,000.....	9	10	0.7	33,112	0.6	19,990	0.6								
\$5,000 to \$20,000.....	11	15	1.0	119,702	2.1	51,819	1.7								
\$20,000 to \$100,000.....	9	90	6.1	476,054	8.4	253,880	8.2								
\$100,000 and over.....	5	1,355	92.2	5,068,679	89.0	2,780,137	89.5								

¹ Less than one-tenth of 1 per cent.

MANUFACTURES—PENNSYLVANIA.

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919—Continued.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
CHESTER.....	127	18,677	100.0	\$95,949,003	100.0	\$43,276,788	100.0	JOHNSTOWN.....	149	12,855	100.0	\$90,468,742	100.0	\$37,043,617	100.0
Less than \$5,000.....	20	11	0.1	65,442	0.1	41,830	0.1	Less than \$5,000.....	25	21	0.2	73,143	0.1	42,521	0.1
\$5,000 to \$20,000.....	24	66	0.4	303,048	0.3	136,228	0.3	\$5,000 to \$20,000.....	46	116	0.9	499,798	0.6	273,968	0.7
\$20,000 to \$100,000.....	35	316	1.7	1,634,989	1.7	747,002	1.7	\$20,000 to \$100,000.....	46	558	4.3	2,390,446	2.6	1,113,728	3.0
\$100,000 to \$500,000.....	25	990	5.3	5,936,922	6.2	2,731,953	6.3	\$100,000 to \$500,000.....	20	884	6.9	4,864,346	5.4	2,423,322	6.5
\$500,000 to \$1,000,000.....	5	688	3.7	4,894,763	5.0	2,185,192	5.0	\$500,000 to \$1,000,000.....	0	465	3.6	4,161,246	4.6	1,428,043	3.9
\$1,000,000 and over.....	17	16,597	88.9	83,152,959	86.7	37,456,577	86.5	\$1,000,000 and over.....	6	10,811	84.1	78,476,763	86.7	31,762,037	85.7
COLUMBIA.....	56	2,322	100.0	9,812,018	100.0	4,616,524	100.0	LANCASTER.....	285	9,444	100.0	48,026,759	100.0	21,805,352	100.0
Less than \$5,000.....	10	13	0.7	29,011	0.3	13,747	0.3	Less than \$5,000.....	70	43	0.5	182,481	0.4	113,872	0.5
\$5,000 to \$20,000.....	20	60	2.6	206,991	2.1	92,433	2.0	\$5,000 to \$20,000.....	76	281	3.0	845,147	1.8	517,458	2.4
\$20,000 to \$100,000.....	12	194	8.4	606,835	6.2	280,821	5.8	\$20,000 to \$100,000.....	69	787	8.1	2,950,090	6.2	1,448,728	6.8
\$100,000 to \$500,000.....	10	774	33.3	2,622,984	26.7	1,170,383	25.9	\$100,000 to \$500,000.....	48	2,396	25.4	10,203,867	21.2	4,562,652	21.4
\$500,000 and over.....	4	1,278	55.0	6,346,197	64.7	2,979,140	65.0	\$500,000 to \$1,000,000.....	12	1,781	18.9	7,778,061	16.2	3,767,849	17.7
CONNELLVILLE.....	51	1,623	100.0	4,063,847	100.0	2,646,495	100.0	\$1,000,000 and over.....	10	4,176	44.2	20,056,223	54.3	10,894,793	51.1
Less than \$5,000.....	9	7	0.4	33,345	0.7	18,855	0.7	LEBANON.....	103	5,651	100.0	23,242,000	100.0	11,494,010	100.0
\$5,000 to \$20,000.....	15	32	2.0	164,918	3.5	87,083	3.3	Less than \$5,000.....	23	11	0.2	36,191	0.2	21,589	0.2
\$20,000 to \$100,000.....	18	186	11.5	897,290	18.6	407,863	15.4	\$5,000 to \$20,000.....	18	56	1.0	212,256	0.9	107,580	0.9
\$100,000 and over.....	9	1,398	86.1	3,598,294	77.2	2,132,691	80.6	\$20,000 to \$100,000.....	28	513	9.1	1,446,453	6.2	732,464	6.4
DICKSON CITY.....	10	806	100.0	903,003	100.0	709,742	100.0	\$100,000 to \$500,000.....	21	834	14.8	4,288,529	18.5	1,875,080	18.3
Less than \$5,000.....	5	7	0.9	54,360	6.0	10,814	2.4	\$500,000 to \$1,000,000.....	8	1,087	19.2	4,719,154	20.3	1,950,745	17.0
\$5,000 to \$20,000.....	5	799	99.1	848,637	94.0	692,928	97.6	\$1,000,000 and over.....	5	3,150	55.7	12,539,417	54.0	6,805,658	59.2
DU BOIS.....	41	1,397	100.0	3,937,516	100.0	2,639,260	100.0	McKEESPORT.....	82	11,909	100.0	105,058,713	100.0	46,215,120	100.0
Less than \$5,000.....	4	2	0.1	10,432	0.3	4,154	0.2	Less than \$5,000.....	8	6	0.1	20,750	(1)	14,190	(1)
\$5,000 to \$20,000.....	20	63	4.5	207,292	5.3	144,865	5.5	\$5,000 to \$20,000.....	36	77	0.6	407,626	0.4	214,431	0.5
\$20,000 to \$100,000.....	11	73	5.2	401,235	10.2	191,529	7.3	\$20,000 to \$100,000.....	21	149	1.3	833,003	0.8	404,124	0.9
\$100,000 and over.....	6	1,259	90.1	3,318,557	84.3	2,298,712	87.1	\$100,000 to \$500,000.....	9	320	2.8	2,033,715	1.9	937,934	2.0
DUNMORE.....	27	1,380	100.0	3,627,815	100.0	1,916,046	100.0	\$500,000 and over.....	8	11,348	95.3	101,763,019	96.9	44,644,435	96.6
Less than \$5,000.....	7	8	0.6	16,886	0.5	8,544	0.4	McKEES ROCKS.....	34	3,114	100.0	13,201,791	100.0	7,093,104	100.0
\$5,000 to \$20,000.....	8	50	3.7	103,682	2.9	55,160	2.9	Less than \$5,000.....	6	2	0.1	10,332	0.1	9,050	0.1
\$20,000 to \$100,000.....	8	130	10.0	381,738	10.5	154,870	8.1	\$5,000 to \$20,000.....	10	22	0.7	111,834	0.8	65,377	0.9
\$100,000 and over.....	4	1,166	85.7	3,129,509	86.2	1,697,472	88.6	\$20,000 to \$100,000.....	7	73	2.3	303,157	2.3	166,057	2.3
EASTON.....	102	4,672	100.0	27,011,928	100.0	12,978,154	100.0	\$100,000 to \$500,000.....	5	385	12.4	1,460,835	11.1	702,016	9.9
Less than \$5,000.....	17	9	0.2	31,084	0.1	15,952	0.1	\$500,000 to \$1,000,000.....	3	350	11.2	1,943,490	14.7	926,539	13.1
\$5,000 to \$20,000.....	23	91	2.0	257,643	1.0	151,824	1.2	\$1,000,000 and over.....	3	2,282	73.3	9,360,143	70.9	5,224,059	73.6
\$20,000 to \$100,000.....	32	376	8.0	1,339,523	5.0	766,483	5.9	MAHANAY CITY.....	24	450	100.0	1,086,619	100.0	584,485	100.0
\$100,000 to \$500,000.....	21	749	16.0	4,778,781	17.7	1,893,547	14.6	Less than \$5,000.....	6	11	2.4	17,916	1.6	11,720	2.0
\$500,000 to \$1,000,000.....	4	298	6.3	2,857,892	10.6	752,970	5.8	\$5,000 to \$20,000.....	4	33	7.3	59,505	5.5	38,585	6.6
\$1,000,000 and over.....	5	3,151	67.4	17,747,005	65.7	9,397,378	72.4	\$20,000 and over.....	14	406	90.2	1,009,198	92.9	534,174	91.4
ERIE.....	293	13,297	100.0	70,407,540	100.0	38,903,688	100.0	MEADVILLE.....	43	1,841	100.0	7,948,712	100.0	4,160,470	100.0
Less than \$5,000.....	41	28	0.2	92,696	0.1	58,787	0.2	Less than \$5,000.....	7	8	0.2	22,280	0.3	11,339	0.3
\$5,000 to \$20,000.....	80	195	1.5	888,637	1.3	499,518	1.3	\$5,000 to \$20,000.....	11	45	2.4	134,972	1.7	61,552	1.5
\$20,000 to \$100,000.....	83	928	7.0	4,073,844	5.8	2,112,371	5.4	\$20,000 to \$100,000.....	13	226	12.3	607,476	7.6	332,268	8.0
\$100,000 to \$500,000.....	57	2,807	21.1	14,540,678	20.7	7,255,685	18.6	\$100,000 to \$500,000.....	6	259	14.1	1,132,123	14.2	717,901	17.3
\$500,000 to \$1,000,000.....	13	1,831	13.8	9,478,971	13.5	5,519,152	14.2	\$500,000 to \$1,000,000.....	3	342	18.6	1,871,244	23.5	1,446,311	34.8
\$1,000,000 and over.....	19	7,508	56.5	41,332,714	58.7	23,463,275	60.3	\$1,000,000 and over.....	3	966	52.5	4,180,611	52.6	1,591,099	38.2
GREENSBURG.....	66	653	100.0	3,909,934	100.0	2,045,942	100.0	MOUNT CARMEL.....	35	1,221	100.0	3,382,485	100.0	1,585,900	100.0
Less than \$5,000.....	12	6	0.9	33,740	0.8	24,851	1.2	Less than \$5,000.....	12	4	0.3	20,326	0.9	12,611	0.8
\$5,000 to \$20,000.....	21	42	6.4	214,440	5.4	114,004	5.6	\$5,000 to \$20,000.....	11	26	2.1	107,919	3.2	46,152	2.9
\$20,000 to \$100,000.....	22	193	29.6	1,004,615	25.1	415,396	20.3	\$20,000 to \$100,000.....	6	212	17.4	304,312	9.0	150,136	9.6
\$100,000 and over.....	11	412	63.1	2,747,139	68.7	1,491,691	72.9	\$100,000 to \$500,000.....	3	154	12.6	605,582	20.6	303,915	19.2
HARRISBURG.....	216	10,522	100.0	52,152,818	100.0	26,114,223	100.0	\$500,000 to \$1,000,000.....	3	825	67.6	2,245,346	66.4	1,073,086	67.7
Less than \$5,000.....	48	21	0.2	125,022	0.2	71,573	0.3	NANTICOKE.....	36	1,029	100.0	2,015,014	100.0	1,186,640	100.0
\$5,000 to \$20,000.....	63	177	1.7	738,531	1.4	401,968	1.5	Less than \$5,000.....	15	10	1.0	40,258	2.0	23,211	2.0
\$20,000 to \$100,000.....	52	528	5.0	2,172,819	4.2	1,122,934	4.3	\$5,000 to \$20,000.....	7	21	2.0	62,348	3.1	24,809	2.1
\$100,000 to \$500,000.....	35	1,734	16.5	8,774,995	16.8	3,724,367	14.3	\$20,000 to \$100,000.....	10	229	22.3	494,665	24.5	274,933	23.2
\$500,000 to \$1,000,000.....	7	1,100	10.5	4,830,443	9.3	2,540,210	9.8	\$100,000 and over.....	4	769	74.7	1,417,743	70.4	863,687	72.8
\$1,000,000 and over.....	11	6,962	66.2	35,611,008	68.1	18,247,171	69.9	NEW CASTLE.....	87	8,014	100.0	91,370,618	100.0	26,504,347	100.0
HAZLETON.....															

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919—Continued.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
OIL CITY.....	37	3,306	100.0	\$14,068,715	100.0	\$8,571,782	100.0	SHARON.....	40	2,707	100.0	\$18,030,458	100.0	\$7,357,023	100.0
Less than \$5,000.....	4	3	0.1	11,854	0.1	5,530	0.1	Less than \$5,000.....	7	3	0.1	21,339	0.1	12,493	0.2
\$5,000 to \$20,000.....	8	24	0.7	78,251	0.6	51,639	0.6	\$5,000 to \$20,000.....	11	25	0.9	125,024	0.7	55,957	0.8
\$20,000 to \$100,000.....	14	90	2.7	547,951	3.9	249,909	2.9	\$20,000 to \$100,000.....	11	112	4.1	559,759	3.1	293,879	4.0
\$100,000 to \$1,000,000.....	7	426	12.9	2,611,507	18.6	1,078,338	12.6	\$100,000 to \$1,000,000.....	6	179	6.6	844,635	4.7	437,532	5.9
\$1,000,000 and over.....	4	2,703	83.6	10,819,152	76.9	7,180,306	83.8	\$1,000,000 and over.....	5	2,388	88.2	16,479,701	91.4	6,557,162	89.1
OLD FORGE.....	8	262	100.0	236,196	100.0	160,778	100.0	SHENANDOAH.....	39	759	100.0	4,028,327	100.0	1,687,224	100.0
Less than \$20,000.....	5	4	1.5	41,002	17.4	15,105	9.4	Less than \$20,000.....	10	10	1.3	26,834	0.6	15,122	0.9
\$20,000 to \$100,000.....	3	258	98.5	195,194	82.6	145,613	90.6	\$5,000 to \$20,000.....	8	29	3.8	80,078	2.7	42,199	2.5
PHILADELPHIA.....	9,064	281,105	100.0	1,996,481,074	100.0	840,140,755	100.0	\$20,000 to \$100,000.....	15	201	26.5	698,980	17.4	295,038	17.5
Less than \$5,000.....	1,850	1,022	0.4	4,642,172	0.2	3,101,879	0.4	\$100,000 to \$500,000.....	3	206	27.1	792,990	19.7	438,520	26.0
\$5,000 to \$20,000.....	2,604	7,051	2.5	28,146,472	1.4	16,417,709	2.0	\$500,000 and over.....	3	223	29.4	2,429,445	60.3	896,839	53.1
\$20,000 to \$100,000.....	2,436	25,422	9.0	111,819,626	5.6	58,793,665	7.0	SUNBURY.....	45	2,128	100.0	10,130,785	100.0	4,307,941	100.0
\$100,000 to \$500,000.....	1,519	60,142	21.4	340,259,901	17.0	158,263,057	18.8	Less than \$5,000.....	11	5	0.2	25,543	0.3	13,594	0.3
\$500,000 to \$1,000,000.....	315	33,873	12.0	217,401,873	10.9	94,616,268	11.3	\$5,000 to \$20,000.....	15	34	1.6	158,361	1.6	74,153	1.7
\$1,000,000 and over.....	340	153,595	54.6	1,294,211,030	64.8	508,948,177	60.6	\$20,000 to \$100,000.....	12	143	6.7	574,185	5.7	275,841	6.4
PHOENIXVILLE.....	32	2,410	100.0	12,435,097	100.0	4,763,323	100.0	\$100,000 to \$500,000.....	3	79	3.7	747,544	7.4	233,378	5.4
Less than \$5,000.....	4	1	(1)	10,540	0.1	4,749	0.1	\$500,000 and over.....	4	1,867	87.7	8,025,152	85.1	3,710,975	86.1
\$5,000 to \$20,000.....	12	32	1.3	165,276	1.3	79,564	1.7	TAMAQUA.....	31	806	100.0	2,950,545	100.0	1,185,769	100.0
\$20,000 to \$100,000.....	7	83	3.4	276,581	2.2	114,646	2.4	Less than \$5,000.....	5	1	0.1	6,591	0.2	3,093	0.3
\$100,000 to \$500,000.....	5	220	9.1	1,495,437	12.0	349,955	7.3	\$5,000 to \$20,000.....	9	42	5.2	96,321	3.3	40,993	4.0
\$500,000 and over.....	4	2,074	86.1	10,487,263	84.3	4,214,409	88.5	\$20,000 to \$100,000.....	12	223	27.7	672,965	22.8	232,732	19.6
PITTSBURGH.....	1,875	83,290	100.0	614,726,978	100.0	247,861,681	100.0	\$100,000 and over.....	5	540	67.0	2,150,668	73.8	902,951	73.1
Less than \$5,000.....	269	123	0.1	757,582	0.1	502,203	0.2	UNIONTOWN.....	48	573	100.0	3,320,002	100.0	1,590,318	100.0
\$5,000 to \$20,000.....	600	1,399	1.7	6,578,411	1.1	3,893,999	1.6	Less than \$5,000.....	7	3	0.5	17,814	0.5	10,726	0.7
\$20,000 to \$100,000.....	500	5,309	6.4	25,788,478	4.2	14,300,246	5.8	\$5,000 to \$20,000.....	19	52	9.1	231,790	7.0	144,140	9.1
\$100,000 to \$500,000.....	280	10,257	12.3	62,245,951	10.1	29,425,828	11.9	\$20,000 to \$100,000.....	11	107	18.7	480,385	14.5	281,372	17.7
\$500,000 to \$1,000,000.....	50	6,280	7.5	34,847,253	5.7	16,190,372	6.5	\$100,000 and over.....	11	411	71.7	2,590,013	78.0	1,154,080	72.6
\$1,000,000 and over.....	116	59,925	71.9	484,509,303	78.8	183,489,033	74.0	WARREN.....	89	2,154	100.0	18,091,994	100.0	6,297,255	100.0
PITTSFORD.....	40	974	100.0	3,835,864	100.0	2,083,594	100.0	Less than \$5,000.....	23	17	0.8	49,733	0.3	28,810	0.5
Less than \$5,000.....	10	6	0.6	27,300	0.7	19,237	0.9	\$5,000 to \$20,000.....	17	43	2.0	101,040	0.9	61,363	1.5
\$5,000 to \$20,000.....	3	6	0.6	19,980	0.5	15,176	0.7	\$20,000 to \$100,000.....	28	374	17.4	1,415,357	7.8	798,492	12.7
\$20,000 to \$100,000.....	15	103	10.6	995,210	18.1	808,840	14.8	\$100,000 to \$500,000.....	9	421	19.5	2,443,627	13.5	1,222,212	19.4
\$100,000 and over.....	12	859	88.2	8,093,284	80.6	1,750,341	83.6	\$500,000 to \$1,000,000.....	5	619	28.7	3,408,155	18.8	1,866,662	21.7
PLYMOUTH.....	21	588	100.0	1,285,256	100.0	632,209	100.0	\$1,000,000 and over.....	7	680	31.6	10,616,082	58.7	2,789,746	44.3
Less than \$5,000.....	7	3	0.5	22,821	1.8	14,133	2.2	WASHINGTON.....	92	2,880	100.0	13,837,807	100.0	7,685,269	100.0
\$5,000 to \$20,000.....	9	111	18.9	362,901	28.2	180,753	28.6	Less than \$5,000.....	14	4	0.1	42,835	0.3	25,510	0.3
\$20,000 to \$100,000.....	5	474	80.6	899,444	70.0	437,323	69.2	\$5,000 to \$20,000.....	47	86	3.0	543,567	3.9	239,340	3.1
\$100,000 to \$500,000.....								\$20,000 to \$100,000.....	20	174	6.0	791,857	5.7	421,491	5.5
POTTSTOWN.....	86	4,099	100.0	23,582,795	100.0	8,066,320	100.0	\$100,000 to \$500,000.....	7	224	7.8	1,419,437	10.3	685,842	8.9
Less than \$5,000.....	11	4	0.1	22,593	0.1	15,716	0.2	\$500,000 and over.....	4	2,392	83.1	11,040,111	79.8	6,313,086	82.1
\$5,000 to \$20,000.....	29	122	3.0	347,301	1.5	189,419	2.3	WEST CHESTER.....	52	1,005	100.0	3,994,654	100.0	2,306,364	100.0
\$20,000 to \$100,000.....	20	189	4.6	988,058	4.2	481,407	6.0	Less than \$5,000.....	10	5	0.5	24,239	0.6	17,760	0.8
\$100,000 to \$500,000.....	15	1,039	25.3	3,519,798	14.9	1,936,328	24.0	\$5,000 to \$20,000.....	20	73	7.3	217,913	5.5	128,206	5.6
\$500,000 to \$1,000,000.....	4	691	14.4	3,028,834	12.8	973,682	12.1	\$20,000 to \$100,000.....	15	161	16.0	721,742	18.1	401,595	17.4
\$1,000,000 and over.....	7	2,154	52.5	15,676,211	66.5	4,468,774	55.4	\$100,000 and over.....	7	768	76.2	3,070,760	75.9	1,768,803	76.3
POTTSVILLE.....	91	2,977	100.0	16,115,011	100.0	6,048,082	100.0	WILKES-BARRE.....	179	9,408	100.0	41,986,203	100.0	21,902,859	100.0
Less than \$5,000.....	20	12	0.4	51,019	0.3	29,207	0.5	Less than \$5,000.....	33	25	0.3	103,394	0.2	64,807	0.3
\$5,000 to \$20,000.....	23	69	2.3	274,005	1.7	126,941	2.1	\$5,000 to \$20,000.....	59	182	1.9	669,499	1.6	376,077	1.7
\$20,000 to \$100,000.....	26	312	10.5	1,135,370	7.0	608,334	8.4	\$20,000 to \$100,000.....	44	427	4.5	1,991,604	4.7	1,005,450	4.6
\$100,000 to \$500,000.....	17	715	24.0	3,502,406	21.7	1,113,187	18.4	\$100,000 to \$500,000.....	29	1,154	12.3	6,500,505	15.5	3,161,788	14.4
\$500,000 and over.....	5	1,689	62.8	11,162,211	69.2	4,270,413	70.3	\$500,000 to \$1,000,000.....	6	2,229	23.7	3,904,790	9.3	2,749,891	12.6
PUNXSUTAWNEY.....	36	457	100.0	3,268,087	100.0	1,175,334	100.0	\$1,000,000 and over.....	8	5,391	57.3	28,846,351	68.7	14,544,846	66.4
Less than \$5,000.....	7	5	1.1	15,509	0.5	7,835	0.7	WILKINSBURG.....	49	323	100.0	1,703,167	100.0	840,348	100.0
\$5,000 to \$20,000.....	12	40	8.8	101,818	3.0	90,528	7.7	Less than \$5,000.....	7	7	2.2	27,331	1.6	17,377	2.1
\$20,000 to \$100,000.....	12	142	31.1	634,919	19.4	245,507	21.1	\$5,000 to \$20,000.....	19	36	11.1	179,597	10.5	101,359	12.1
\$100,000 and over.....	5	270	59.1	2,455,841	75.1	828,464	70.5	\$20,000 to \$100,000.....	10	75	23.2	480,963	28.2	2	

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- po- ra- 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- po- ra- tions.	All oth- ers.	Indi- vid- uals.	Cor- po- ra- tions.	All oth- ers.		Indi- vid- uals.	Cor- po- ra- tions.	All oth- ers.							
All industries.....	1919	14,244	7,892	5,837	1,136,837	77,652	981,877	76,308	6.8	86.4	6.7	\$7,315,702,867	\$431,125,113	\$8,414,030,288	\$470,547,466	5.9	87.7	6.4				
	1914	15,636	6,651	5,234	924,478	98,253	721,070	105,155	10.6	78.0	11.4	2,832,349,437	249,990,365	2,319,066,599	262,092,473	8.8	81.9	9.3				
	1909	10,051	5,880	5,632	877,543	111,437	642,866	123,240	12.7	73.3	14.0	2,026,742,034	267,060,904	2,053,468,538	306,222,592	10.2	78.2	11.7				
Boots and shoes, not in- cluding rubber boots and shoes.	1919	23	73	32	13,317	490	10,755	2,072	3.7	80.8	15.6	65,411,673	1,837,353	52,317,685	11,256,635	2.8	80.0	17.2				
	1914	37	61	33	13,184	1,404	9,010	2,710	11.1	68.3	20.6	27,844,752	2,785,283	19,299,273	5,760,196	10.0	69.3	20.7				
Bread and other bakery products.	1919	2,196	146	309	10,410	6,186	9,028	1,196	37.7	55.0	7.3	132,880,426	49,279,026	72,833,331	10,768,069	37.1	54.8	8.1				
	1914	2,070	101	216	15,157	7,475	6,513	1,169	49.3	43.0	7.7	54,139,906	26,191,469	24,193,485	3,754,952	48.4	44.7	6.9				
Clothing, men's.....	1919	304	58	240	12,855	2,991	4,624	5,240	23.3	36.0	40.8	73,169,811	15,193,119	21,656,826	36,319,866	20.8	29.6	49.6				
	1914	306	22	176	10,236	3,284	2,356	4,596	32.1	23.0	44.9	28,033,167	5,995,521	9,455,208	12,582,348	21.4	33.7	44.9				
Clothing, women's.....	1919	262	76	277	14,364	3,971	4,061	6,332	27.6	28.3	44.1	77,473,729	21,598,862	19,919,194	35,955,673	27.9	25.7	46.4				
	1914	214	55	214	17,217	5,220	4,030	7,967	30.3	23.4	46.3	37,059,174	11,682,830	8,298,248	17,078,096	31.5	22.4	46.1				
Coke, not including gas- house coke.	1919	17	90	7	11,536	494	10,894	148	4.3	94.4	1.3	119,730,589	5,975,411	112,717,525	1,037,653	5.0	94.1	0.9				
	1914	19	83	6	9,871	503	9,198	170	5.1	93.2	1.7	42,996,443	2,997,794	39,381,759	616,890	7.0	91.6	1.4				
Confectionery and ice cream.	1919	560	114	165	11,010	2,583	7,348	1,079	23.5	66.7	9.8	71,120,044	16,718,710	48,044,152	6,357,182	23.5	67.6	8.9				
	1914	467	76	109	8,038	2,181	5,127	730	27.1	63.8	9.1	24,087,610	7,163,972	14,640,904	2,282,634	29.7	60.8	9.5				
Cotton goods.....	1919	30	60	28	9,767	885	7,383	1,499	9.1	75.6	15.3	66,404,059	5,043,177	51,809,923	9,550,959	7.6	78.0	14.4				
	1914	32	50	34	9,158	1,168	5,233	2,757	12.8	67.1	30.1	22,408,007	2,341,904	14,432,261	5,633,842	10.4	64.4	25.1				
Electrical machinery, ap- paratus, and supplies..	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	95.7	1.0	44,395,789	1,958,552	42,071,501	365,736	4.4	94.8	0.8				
Engines, steam, gas, and water.	1919	3	28	3	9,711	10	9,662	39	0.1	99.5	0.4	52,574,026	52,050	52,407,206	114,770	0.1	99.7	0.2				
	1914	13	37	6	5,222	139	5,063	20	2.7	97.0	0.4	11,891,872	243,205	11,119,227	29,440	2.1	97.0	0.3				
Flour-mill and gristmill products.	1919	372	87	679	2,198	620	699	879	28.2	31.8	40.0	69,446,449	18,742,221	26,254,450	24,440,778	27.0	37.8	35.2				
	1914	378	75	312	2,595	1,139	755	701	43.9	29.1	27.0	43,626,356	15,824,454	16,785,970	11,015,932	36.3	38.5	25.2				
Foundry and machine- shop products. ¹	1919	487	691	229	79,009	3,801	71,985	3,223	4.8	91.1	4.1	401,357,909	15,220,637	373,924,527	12,212,745	3.8	93.2	3.0				
	1914	423	571	237	57,116	2,673	50,914	3,529	4.7	89.1	6.2	140,799,115	5,466,120	128,959,748	6,373,247	3.9	91.6	4.5				
Glass.....	1919	4	94	4	21,002	47	21,331	224	0.2	98.7	1.0	80,479,752	94,241	79,733,933	651,578	0.1	99.1	0.8				
	1914	1	94	8	23,606	22	22,709	897	0.0	96.2	3.8	39,797,822	38,595,829	1,201,993	1,201,993	0.1	97.0	3.0				
Knit goods.....	1919	169	279	8	44,156	5,540	30,996	7,620	12.5	70.2	17.3	188,260,800	22,501,626	135,402,862	30,356,312	12.0	71.9	16.1				
	1914	183	179	136	41,130	7,234	20,718	7,178	17.6	65.0	17.5	64,153,449	10,955,854	41,994,741	11,202,854	17.1	66.5	17.5				
Leather, tanned, curried, and finished.	1919	9	64	19	13,749	366	11,559	1,824	2.7	84.1	13.3	211,389,349	3,771,932	173,044,274	34,573,143	1.8	81.9	16.4				
	1914	14	77	29	11,988	191	9,706	2,091	1.6	81.0	17.5	85,252,632	802,688	65,781,277	18,668,567	0.9	77.2	21.9				
Liquors, malt.....	1919	29	119	18	5,231	494	4,430	307	9.4	84.7	5.9	59,331,515	5,500,635	50,853,773	2,977,107	9.3	85.7	5.0				
	1914	34	157	24	7,512	613	6,372	527	8.2	84.8	7.0	50,362,792	3,518,871	43,608,637	3,175,284	7.0	86.7	6.3				
Paper and wood pulp.....	1919	5	45	6	9,843	105	9,620	118	1.1	97.7	1.2	64,715,767	605,030	63,514,550	596,187	0.9	98.1	0.9				
	1914	11	39	3	7,447	310	6,853	284	4.2	92.0	3.8	26,439,346	829,064	23,649,531	960,751	3.3	93.0	3.8				
Petroleum, refining.....	1919	6	41	6	8,235	164	7,993	78	2.0	97.1	0.9	178,825,632	5,796,115	169,785,472	3,244,045	3.2	94.9	1.8				
	1914	4	34	10	4,902	123	4,528	251	2.5	92.4	5.1	52,375,101	2,204,024	46,654,960	4,016,117	4.2	88.2	7.6				
Printing and publishing, book and job.	1919	862	186	241	10,461	2,544	6,087	1,830	24.3	58.2	17.5	46,152,747	10,546,493	28,104,333	7,501,921	22.9	60.9	16.3				
	1914	796	171	239	10,139	3,087	5,232	1,820	30.4	51.6	18.0	26,285,844	6,813,475	14,492,606	3,979,763	26.9	57.3	15.7				
Printing and publishing, newspapers and period- icals.	1919	436	323	204	12,331	1,619	9,714	998	13.1	78.8	8.1	106,666,923	11,878,236	89,589,819	5,198,868	11.1	84.0	4.9				
	1914	576	334	223	12,750	2,306	9,568	876	18.1	75.0	6.9	52,239,269	6,601,994	42,384,125	3,263,150	12.6	81.1	6.2				
Silk goods, including throwsters.	1919	31	300	42	53,052	1,330	48,572	3,150	2.5	91.6	5.9	231,711,262	3,588,141	212,131,125	15,992,086	1.5	91.6	6.9				
	1914	26	207	51	44,755	3,698	35,487	5,070	8.0	79.3	12.7	89,988,554	5,975,213	68,320,411	12,636,930	6.9	78.6	14.5				
Slaughtering and meat packing.	1919	98	47	31	4,438	723	3,534	181	16.3	79.6	4.1	122,862,240	19,624,444	96,076,971	7,160,825	16.0	78.2	5.8				
	1914	68	43	35	3,616	699	2,968	249	19.3	73.8	6.9	65,191,272	10,326,760	50,737,815	4,120,697	15.8	77.8	6.3				
Structural ironwork, not made in steel works or rolling mills.	1919	62	87	16	10,722	397	10,060	265	3.7	93.8	2.5	78,305,995	1,757,279	74,801,765	1,746,061	2.2	95.5	2.2				
	1914	63	52	22	9,308	570	8,271	467	6.1	88.8	5.0	35,763,060	1,245,450	33,337,463	1,180,147	3.5	93.2	3.3				
Tobacco, cigars and cig- arettes.	1919	1,208	217	170	30,380	5,532	21,209	3,639	18.2	69.8	12.0	98,370,923	16,218,892	71,063,486	11,088,545	16.5	72.2	11.3				
	1914	1,777	113	231	36,931	8,395	16,755	11,781	22.7	45.4	31.9	52,021,430	12,590,514	23,836,006	15,594,910	24.2	45.8	30.0				
Woolen goods.....	1919	31	55	22	7,398	910	5,267	1,221	12.3	71.2	16.5	48,239,627	5,440,246	35,058,069	7,740,712	11.3	72.7	16.0				
	1914	31	41	23	5,960	804	3,480	1,616	14.5	58.4	27.											

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TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- po- ra- 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- po- ra- tions.	All oth- ers.	Indi- vid- uals.	Cor- po- ra- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- po- ra- tions.	All oth- ers.				
BRADDOCK.....	1919	24	13	12	1,170	52	1,068	50	4.4	91.3	4.3	\$9,438,995	\$353,665	\$8,645,087	\$440,243	3.7	91.6	4.7				
	1914	20	11	8	1,140	90	1,027	23	7.9	90.1	2.0	4,021,540	320,051	3,012,638	88,851	8.0	89.8	2.2				
BRADFORD.....	1919	39	30	14	1,539	168	1,174	197	10.9	76.3	12.8	10,861,158	3,131,669	6,970,549	758,940	28.8	64.2	7.0				
	1914	35	25	11	1,178	155	810	213	13.1	68.8	18.1	4,034,401	1,326,421	2,331,752	376,228	32.9	57.8	9.3				
BRISTOL.....	1919	16	10	8	1,470	26	1,120	324	1.8	76.2	22.0	5,697,607	165,094	3,590,347	1,942,166	2.9	63.0	34.1				
	1914	20	8	4	1,809	1,114	566	99	61.6	32.9	5.5	5,037,120	3,802,577	975,993	258,550	75.5	19.4	5.1				
BUTLER.....	1919	38	20	19	3,744	114	3,490	140	3.0	93.2	3.7	44,476,700	995,448	42,513,814	967,528	2.2	95.6	2.2				
	1914	36	16	17	3,303	110	2,768	425	3.3	83.8	12.9	15,006,393	503,178	13,663,022	840,193	3.4	91.0	5.6				
CANONSBURG.....	1919	14	9	9	2,971	27	2,930	14	0.9	98.6	0.5	16,894,336	229,882	16,265,307	399,147	1.4	96.3	2.4				
CARBONDALE.....	1919	25	13	5	861	62	788	11	7.2	91.5	1.3	3,187,996	351,966	2,787,373	48,717	11.0	87.4	1.5				
	1914	28	13	2	1,897	87	1,793	17	4.5	94.6	0.9	3,170,410	244,144	2,889,066	30,300	7.7	91.2	1.1				
CARLISLE.....	1919	17	14	13	1,422	55	1,105	262	3.9	77.7	18.4	6,543,455	229,157	5,302,222	1,012,076	3.5	81.0	15.5				
	1914	22	15	13	1,603	98	1,253	252	6.1	78.2	15.7	3,414,959	209,506	2,663,997	541,396	6.1	78.0	15.9				
CARNEGIE.....	1919	11	7	8	222	30	162	30	13.5	73.0	13.5	2,789,605	174,209	2,348,532	260,864	6.2	84.2	9.6				
	1914	6	8	5	337	20	295	22	5.9	87.6	6.5	1,724,111	93,171	1,554,750	70,190	5.4	90.2	4.4				
CARRICK.....	1919	4	—	1	16	1	—	—	100.0	—	—	120,849	1	120,849	—	100.0	—	—				
CHAMBERSBURG.....	1919	24	19	13	1,996	88	1,866	42	4.4	93.5	2.1	8,791,872	294,731	8,299,576	197,565	3.4	94.4	2.2				
	1914	25	16	18	1,650	113	1,367	170	6.8	82.8	10.3	3,075,292	210,833	2,475,294	389,165	6.8	80.5	12.7				
CHARLEROI.....	1919	17	13	5	2,023	26	1,988	9	1.3	98.3	0.4	5,637,212	252,323	5,333,394	101,495	4.4	93.8	1.8				
	1914	15	13	1	1,904	17	1,857	30	0.9	97.5	1.6	2,969,338	109,413	2,759,760	40,165	3.8	94.8	1.4				
CHESTER.....	1919	59	48	20	18,677	603	17,405	669	3.2	93.2	3.6	95,949,003	3,371,049	88,110,142	4,467,812	3.5	91.8	4.7				
	1914	77	53	23	6,265	528	5,339	428	8.4	84.8	6.8	21,021,170	1,334,348	17,911,840	1,774,982	6.3	85.2	8.4				
COLUMBIA.....	1919	36	16	4	2,322	687	1,586	49	29.6	68.3	2.1	9,812,018	2,358,226	7,233,116	220,676	24.0	73.7	2.2				
	1914	39	14	8	2,141	719	1,328	94	33.6	62.0	4.4	3,340,702	897,827	2,622,841	420,034	26.9	60.5	12.6				
CONNELLSVILLE.....	1919	18	26	7	1,623	58	1,490	75	3.6	91.8	4.6	4,603,847	335,535	3,963,185	365,127	7.2	85.0	7.8				
	1914	18	19	5	1,087	72	946	69	6.6	87.0	6.3	1,993,557	198,605	1,627,210	167,742	10.0	81.6	8.4				
DICKSON CITY.....	1919	4	5	1	806	17	799	—	0.9	99.1	—	903,003	154,366	848,637	—	6.0	94.0	—				
DU BOIS.....	1919	15	13	13	1,307	37	1,318	42	2.6	94.3	3.0	3,937,516	205,920	3,467,912	203,084	6.8	88.1	5.2				
	1914	11	14	9	1,105	110	958	37	10.0	86.7	3.3	2,394,534	313,619	1,963,913	117,802	13.1	82.0	4.9				
DUNMORE.....	1919	15	6	6	1,360	38	1,122	200	2.8	82.5	14.7	3,627,815	212,055	2,287,372	1,128,388	5.8	63.1	31.1				
	1914	12	7	5	948	25	864	59	2.6	91.1	6.2	1,268,939	89,795	1,049,617	129,527	7.1	82.7	10.2				
EASTON.....	1919	46	37	19	4,672	241	4,263	168	5.2	91.2	3.6	27,011,928	1,825,500	24,064,225	1,122,203	6.8	89.1	4.2				
	1914	68	29	21	4,062	2,215	1,637	210	54.5	40.3	5.2	10,357,227	864,058	8,771,457	720,812	8.4	84.6	7.0				
ERIE.....	1919	119	133	41	13,297	559	12,341	397	4.2	92.8	3.0	70,407,540	3,704,486	64,919,782	1,783,272	5.3	92.2	2.5				
	1914	191	133	39	11,016	802	9,325	829	7.8	84.6	7.5	29,447,084	2,273,973	24,784,382	2,388,726	7.7	84.2	8.1				
GREENSBURG.....	1919	29	20	17	653	91	495	67	13.9	75.8	10.3	3,990,934	736,767	2,816,715	446,452	18.4	70.4	11.2				
	1914	28	11	14	494	109	304	81	22.1	61.5	16.4	1,382,472	320,221	744,327	317,924	23.2	53.8	23.0				
HARRISBURG.....	1919	97	72	47	10,522	432	9,318	772	4.1	88.6	7.3	52,152,818	2,701,531	49,073,945	3,377,342	5.2	88.3	6.5				
	1914	128	58	33	7,966	528	6,819	619	6.6	85.6	7.8	18,872,166	1,590,575	15,897,480	1,414,101	8.3	84.2	7.5				
HAZLETON.....	1919	40	23	11	3,815	267	3,407	141	7.0	80.3	3.7	14,830,168	1,075,962	13,301,533	452,673	7.3	89.7	3.1				
	1914	42	16	18	2,744	207	1,623	914	7.5	59.1	33.3	5,593,761	447,935	4,050,708	1,095,118	8.0	72.4	19.6				
HOMESTEAD.....	1919	20	13	6	513	25	427	61	4.9	83.2	11.9	3,759,223	136,898	3,255,788	360,537	3.6	86.6	9.8				
	1914	12	13	5	260	24	218	18	9.2	83.8	6.9	1,019,118	89,250	844,912	84,950	8.8	82.9	8.3				
JEANNETTE.....	1919	11	16	5	1,990	27	1,952	11	1.4	98.1	0.6	8,546,036	159,002	8,328,714	58,320	1.9	97.5	0.7				
JOHNSTOWN.....	1919	62	61	26	12,855	253	12,407	195	2.0	96.6	1.5	90,468,742	2,369,426	86,907,252	1,192,064	2.6	96.1	1.3				
	1914	62	50	24	12,177	293	11,299	615	2.2	92.8	5.0	50,973,960	1,505,560	47,970,404	1,497,990	3.0	94.1	2.9				
LANCASTER.....	1919	173	64	48	9,444	973	7,517	954	10.3	79.6	10.1	48,025,759	4,503,914	35,706,766	7,815,089	9.4	74.3	16.3				
	1914	186	60	58	8,862	960	5,790	2,112	10.8	65.3	23.8	20,011,393	2,329,891	13,055,816	4,026,686	11.0	68.2	20.1				
LEBANON.....	1919	44	39	20	5,651	342	5,016	293	6.1	88.8	5.2	23,242,000	1,586,379	20,030,125	1,625,499	6.8	86.2	7.0				
	1914	51	33	13	6,270	276	4,585	409	5.2	87.0	7.3	9,571,443	804,423	8,206,547	860,473	8.1	83.1	8.7				
McKEESPORT.....	1919	29	29	24	11,009	96	11,714	99	0.8	98.4	0.8	105,058,713	721,065	103,778,311	559,337	0.7	98.8	0.5				
	1914	35	24	14	6,867	138	6,660	59	2.0	97.1	0.9	33,743,329	399,908	33,192,802	150,619	1.2	98.4	0.4				
McKEES ROCKS.....	1919	16	13	5	3,114	30	3,061	23	1.0	98.3	0.7	13,201,791	180,955	12,892,752	128,084	1.4	97.7	1.0				
	1914	16	17	6	3,548	39	3,481	28	1.1	98.1	0.8	7,894,165	95,750	7,738,705	59,710	1.2	98.0	0.8				
MAHANAY CITY.....	1919	14	4	6	450	180	129	141	40.0	28.7	31.3	1,086,619	292,233	229,508	564,878	26.9	21.1	52.0				
	1914	25	2	6	661	428	81	152	64.7	12.3	23.6	1,057,349	290,762	504,083	262,504	27.5	47.7	24.8				
MEADVILLE.....	1919	16	17	10	1,841	66	1,691	84	3.6	91.9	4.6	7,948,712	364,037	7,075,732	508,943	4.6	89.0	6.4				
	1914	23	21	13	1,676	67	1,557	52	4.0	92.9	3.1	5,057,962	202,296	4,617,607	238,159	4.0	91.3	4.7				
MOUNT CARMEL.....	1919	18	9	8	1,221	41	1,068	112	3.4	87.5	9.2	3,382,485	415,652	2,824,880	141,953	12.3	83.5	4.2				

1 Includes the group "All others."

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- po- ra- 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- po- ra- tions.	All oth- ers.	Indi- vid- uals.	Cor- po- ra- tions.	All oth- ers.		Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- po- ra- tions.	All oth- ers.				
NANTICOKE.....	1919	23	8	5	1,029	138	874	17	13.4	84.9	1.7	\$2,015,014	\$330,782	\$1,585,172	\$90,060	16.4	78.7	4.9				
	1914	24	3	8	747	148	45	554	19.8	6.0	74.2	995,335	172,634	813,539	509,262	17.3	31.5	51.2				
NEW CASTLE.....	1919	29	41	17	8,014	84	7,839	91	1.0	97.8	1.1	91,370,618	457,979	90,288,154	624,485	0.5	98.8	0.7				
	1914	41	42	12	6,381	124	6,184	73	1.9	96.9	1.1	38,384,877	306,274	37,871,955	200,048	0.8	98.7	0.5				
NEW KENSINGTON.....	1919	30	13	5	3,704	120	3,572	12	3.2	96.4	0.3	22,550,749	678,605	21,813,006	50,138	3.0	96.7	0.3				
NORRISTOWN.....	1919	48	40	12	3,534	380	2,847	307	10.8	80.6	8.7	18,334,230	1,987,180	15,034,728	1,312,322	10.8	82.0	7.2				
	1914	54	38	13	3,950	496	2,840	623	12.5	71.7	15.7	8,421,430	1,002,562	6,440,728	978,140	11.9	76.5	11.6				
OIL CITY.....	1919	9	19	9	3,306	11	3,240	49	0.3	98.2	1.5	14,068,715	64,140	13,542,630	461,036	0.5	96.3	3.3				
	1914	11	13	12	2,276	36	2,167	73	1.6	95.2	3.2	4,871,981	92,505	4,519,602	259,874	1.9	92.8	5.3				
OLD FORGE.....	1919	4	1	3	262	6	.....	1256	2.3	.....	97.7	236,196	50,992	.....	179,204	24.1	.....	75.9
PHILADELPHIA.....	1919	4,980	2,132	1,952	281,105	30,863	214,640	35,602	11.0	76.4	12.7	1,996,481,074	194,344,844	1,551,205,027	250,931,203	9.7	77.7	12.6				
	1914	4,969	1,768	1,717	251,286	39,215	166,700	45,365	15.7	66.3	18.0	784,499,633	107,016,410	550,818,040	118,164,577	13.6	71.3	15.1				
PHOENIXVILLE.....	1919	19	9	4	2,410	303	2,050	57	12.6	85.1	2.4	12,435,097	1,183,690	10,942,308	309,099	9.5	88.0	2.5				
	1914	16	11	7	2,927	330	2,514	83	11.3	85.9	2.8	0,238,757	691,947	5,255,105	291,615	11.1	84.2	4.7				
PITTSBURGH.....	1919	851	704	320	83,290	3,825	76,570	2,895	4.6	91.9	3.5	614,720,978	22,379,151	575,618,764	16,729,063	3.6	93.6	2.7				
	1914	825	592	324	69,620	4,074	61,235	4,308	5.9	87.9	6.2	240,694,018	12,099,478	221,999,036	11,995,504	5.1	90.0	4.9				
PITTSFORD.....	1919	20	11	9	974	194	470	310	19.9	48.3	31.8	3,835,864	1,220,544	2,123,926	491,394	31.8	55.4	12.8				
	1914	23	8	8	729	248	244	237	34.0	33.5	32.5	1,890,812	643,229	763,322	493,261	33.9	40.2	26.0				
PLYMOUTH.....	1919	11	7	3	588	126	454	8	21.4	77.2	1.4	1,285,256	377,054	863,810	44,392	20.3	67.2	3.5				
	1914	10	5	2	478	321	152	5	67.2	31.8	1.0	831,439	553,401	257,933	20,105	66.6	31.0	2.4				
POTTSTOWN.....	1919	45	33	8	4,099	516	3,359	224	12.6	81.9	5.5	23,582,795	2,046,748	18,254,755	2,681,292	11.2	77.4	11.4				
	1914	43	22	12	2,622	215	1,997	410	8.2	76.2	15.6	8,895,800	519,399	7,324,159	1,022,302	5.9	82.6	11.5				
POTTSVILLE.....	1919	50	23	18	2,977	290	2,433	254	9.7	81.7	8.5	16,115,011	1,298,303	13,202,770	1,613,929	8.1	81.9	10.0				
	1914	78	19	18	3,506	430	2,853	217	12.4	81.4	6.2	10,195,800	793,004	8,614,354	788,442	7.8	84.5	7.7				
PUNXSUTAWNEY.....	1919	16	14	6	457	82	281	94	17.9	61.5	20.6	3,268,087	497,705	2,308,751	461,631	15.2	70.6	14.1				
	1914	12	14	8	710	64	602	44	9.0	84.8	6.2	2,227,620	226,905	1,850,644	150,071	10.2	83.1	6.7				
READING.....	1919	273	164	90	29,122	3,635	23,822	1,665	12.5	81.8	5.7	141,560,831	17,209,783	116,481,769	7,869,279	12.2	82.3	5.6				
	1914	272	120	94	24,131	3,641	17,540	2,950	15.1	72.7	12.2	53,231,926	7,327,304	40,637,649	5,266,973	13.8	76.3	9.9				
SCRANTON.....	1919	141	128	42	14,467	1,123	12,254	1,090	7.8	84.7	7.5	54,629,522	4,406,212	46,069,059	4,154,251	8.1	84.8	7.6				
	1914	155	109	44	12,559	763	11,013	783	6.1	87.7	6.2	28,721,829	2,164,454	24,880,616	1,676,769	7.5	86.6	5.8				
SHAMOKIN.....	1919	33	25	9	3,251	81	3,113	57	2.5	95.8	1.8	11,600,141	339,507	10,914,745	345,889	2.9	94.1	3.0				
	1914	29	14	8	2,634	82	2,422	130	3.1	92.0	4.9	5,541,617	218,107	5,030,080	293,370	3.0	90.8	5.3				
SHARON.....	1919	20	14	6	2,707	87	2,460	100	3.2	90.9	5.9	18,030,458	519,268	15,518,388	1,992,802	2.9	86.1	11.1				
	1914	24	15	9	2,298	71	2,031	196	3.1	88.4	8.5	6,372,908	205,462	4,837,733	1,329,803	3.2	75.9	20.9				
SHENANDOAH.....	1919	25	10	4	759	133	554	72	17.5	73.0	9.5	4,028,327	615,514	3,142,472	270,341	15.3	78.0	6.7				
	1914	32	8	6	475	202	163	110	42.5	34.3	23.2	1,573,464	368,344	1,165,635	39,485	23.4	74.1	2.5				
SUNBURY.....	1919	25	9	11	2,128	90	1,959	79	4.2	92.1	3.7	10,130,785	361,508	8,675,095	1,094,182	3.6	85.6	10.8				
	1914	27	10	7	1,718	92	1,580	46	5.4	92.0	2.7	5,115,641	203,492	4,362,920	540,229	4.0	85.3	10.7				
TAMAQUA.....	1919	17	10	4	806	74	586	146	9.2	72.7	18.1	2,956,545	425,099	2,366,316	165,130	14.4	80.0	5.6				
	1914	31	9	6	974	180	776	18	18.5	70.7	1.8	1,686,748	274,649	1,366,848	42,251	16.3	81.2	2.5				
UNIONTOWN.....	1919	23	12	13	578	88	411	74	15.4	71.7	12.9	3,320,002	596,993	2,159,701	563,808	18.0	65.1	17.0				
	1914	21	14	8	776	122	608	46	15.7	78.4	5.9	2,237,177	436,988	1,497,635	302,604	19.5	66.9	13.5				
WARREN.....	1919	35	40	14	2,154	205	1,866	83	9.5	86.6	3.9	18,091,994	765,139	16,988,421	338,434	4.2	93.9	1.9				
	1914	24	32	16	1,876	141	1,503	170	7.5	83.4	9.1	8,611,207	290,835	7,672,558	647,814	3.4	89.1	7.5				
WASHINGTON.....	1919	58	19	15	2,880	204	2,645	31	7.1	91.8	1.1	13,837,807	1,209,289	12,344,500	284,018	8.7	80.2	2.1				
	1914	38	20	6	2,002	182	1,773	47	9.1	88.6	2.3	5,093,672	565,753	4,431,804	96,115	11.1	87.0	1.9				
WEST CHESTER.....	1919	28	16	8	1,005	95	887	23	9.5	88.3	2.3	3,994,654	484,905	3,357,803	151,796	12.1	84.1	3.8				
	1914	39	11	5	894	102	746	46	11.4	83.4	5.1	2,084,505	367,943	1,626,027	90,535	17.7	78.0	4.3				
WILKES-BARRE.....	1919	86	53	40	9,408	369	8,347	692	3.9	88.7	7.4	41,986,203	1,717,898	35,710,284	4,558,021	4.1	85.1	10.9				
	1914	100	50	38	8,107	494	6,940	697	6.1	85.7	8.2	16,733,954	1,151,619	14,140,570	1,441,765	6.9	84.5	8.6				
WILKINSBURG.....	1919	30	11	8	323	103	184	31	33.4	57.0	9.6	1,703,167	684,780	846,759	171,028	40.2	49.7	10.1				
	1914	17	8	4	194	72	104	19	37.1	53.6	9.3	572,207	252,923	256,505	62,779	44.2	44.8	11.0				
WILLIAMSPORT.....	1919	56	67	22	8,606	358	8,000	208	4.2	93.4	2.4	41,658,834	2,148,276	38,549,733	960,825	5.2	92.5	2.3				
	1914	95	56	25	6,015	514	5,229	272	8.5	86.9	4.5	15,863,699	1,129,186	14,190,927	543,586	7.1	89.5	3.4				
YORK.....	1919	131	96	46	13,368	904	11,373	1,091	6.8	85.1	8.2	59,588,904	3,967,232	51,533,138	4,088,534	6.7	86.5	6.9				
	1914	135	68	46	10,851	1,362	7,225	2,264	12.6	66.0	20.9	22,043,328	2,7,									

TABLE 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

	Cen- sus year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places.....	1919		77	-----	57	-----	16	-----	4	-----		
	1914		68	-----	47	-----	17	-----	4	-----		
	1909		63	-----	43	-----	17	-----	3	-----		
Population ¹	1920	8,720,017	4,427,087	50.8	889,740	10.2	879,658	10.1	2,657,089	30.5	4,292,930	49.2
	1915	8,245,967	4,011,005	48.6	747,047	9.1	796,648	9.7	2,467,400	29.9	4,234,872	51.4
	1910	7,665,111	3,653,461	47.7	638,300	8.3	802,381	10.5	2,212,780	28.9	4,011,650	52.3
Number of establishments.....	1919	27,973	16,734	59.8	2,359	8.4	2,598	9.3	11,777	42.1	11,239	40.2
	1914	27,521	15,674	57.0	1,950	7.1	2,735	9.9	10,989	39.9	11,847	43.0
	1909	27,593	15,005	54.4	1,724	6.3	2,955	10.7	10,326	37.5	12,558	45.6
Average number of wage earners.	1919	1,135,837	701,136	61.7	122,498	10.8	170,654	15.0	407,984	35.9	434,701	38.3
	1914	924,478	576,005	62.3	91,922	10.3	123,487	13.4	357,596	38.7	348,473	37.7
	1909	877,543	549,491	62.6	82,475	9.4	135,451	15.4	331,565	37.8	328,052	37.4
Value of products.....	1919	\$7,315,702,867	\$4,662,795,488	63.7	\$851,205,967	11.0	\$1,004,191,116	13.7	\$2,807,398,405	38.4	\$2,652,907,379	36.3
	1914	2,832,349,437	1,772,816,247	62.6	295,110,641	10.4	364,558,200	12.9	1,113,147,406	39.3	1,059,533,100	37.4
	1909	2,626,742,034	1,653,104,100	62.9	271,859,889	10.3	367,767,198	14.0	1,013,477,013	38.6	973,637,934	37.1
Value added by manufacture.....	1919	3,105,294,239	1,937,459,894	62.4	317,554,528	10.2	447,352,055	14.4	1,172,553,311	37.8	1,167,834,345	37.6
	1914	1,143,428,721	718,237,179	62.8	111,236,034	9.7	142,171,874	12.4	464,849,271	40.7	425,171,542	37.2
	1909	1,044,182,046	603,022,306	63.5	94,696,007	9.1	145,488,889	13.9	422,837,410	40.5	381,159,740	36.5

¹ Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.			Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
ALLENTOWN.					ERIE.				
Silk goods, including throwsters.....	\$22,770,437	9.8	\$12,566,465	123.1	Foundry and machine-shop products.....	\$21,008,989	5.7	\$15,185,251	260.7
Tobacco, cigars.....	4,023,346	4.1	1,328,744	49.3	Iron and steel, steel works and rolling mills.....	4,458,025	0.8	(³)	(³)
Books and shoes.....	3,662,678	5.6	2,084,733	132.1	Bread and other bakery products.....	1,589,492	1.2	843,822	113.2
Foundry and machine-shop products ²	2,760,373	0.7	1,528,821	124.1	Flour-mill and gristmill products.....	1,396,758	2.0	-73,094	-5.0
Bread and other bakery products.....	1,617,106	1.2	1,058,577	189.5	Confectionery and ice cream.....	1,194,382	1.7	(³)	(³)
Liquors, malt.....	1,544,447	2.6	714,024	86.0	Lumber, planing-mill products, not including planing mills connected with sawmills.....	1,005,596	2.9	(³)	(³)
Furniture, wood, other than rattan and willow.....	1,389,620	3.3	608,034	77.8	Cars and general shop construction and repairs by steam-railroad companies.....	(³)	(³)	(³)	(³)
Automobiles.....	(³)	(³)	(³)	(³)	Engines, steam, gas, and water.....	(³)	(³)	(³)	(³)
Dyeing and finishing textiles, exclusive of that done in textile mills.....	(³)	(³)	(³)	(³)	Gas and water meters.....	(³)	(³)	(³)	(³)
Iron and steel, steel works and rolling mills.....	(³)	(³)	(³)	(³)	Iron and steel, cast-iron pipe.....	(³)	(³)	(³)	(³)
Jute goods.....	(³)	(³)	(³)	(³)	Liquors, malt.....	(³)	(³)	(³)	(³)
Slaughtering and meat packing.....	(³)	(³)	(³)	(³)	Machine tools.....	(³)	(³)	(³)	(³)
ALTOONA.					Paper and wood pulp.....	(³)	(³)	(³)	(³)
Bread and other bakery products.....	950,780	0.7	575,790	153.5	Plumbers' supplies, not elsewhere specified.....	(³)	(³)	(³)	(³)
Liquors, malt.....	771,067	1.3	433,894	128.7	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	(³)	(³)	(³)	(³)
Printing and publishing, newspapers and periodicals.....	642,237	0.6	322,275	100.7	Silk goods.....	(³)	(³)	(³)	(³)
Cars and general shop construction and repairs by steam-railroad companies.....	(³)	(³)	(³)	(³)	Slaughtering and meat packing.....	(³)	(³)	(³)	(³)
Silk goods.....	(³)	(³)	(³)	(³)	Tools, not elsewhere specified.....	(³)	(³)	(³)	(³)
BETHLEHEM.					Washing machines and clothes wringers.....	(³)	(³)	(³)	(³)
Silk goods, including throwsters.....	4,423,130	1.9	2,018,747	84.0	HARRISBURG.				
Tobacco, cigars.....	2,644,265	2.7	1,045,298	85.4	Iron and steel, steel works and rolling mills.....	13,739,153	1.1	9,710,832	241.1
Knit goods.....	1,225,677	0.7	798,592	187.0	Knit goods.....	2,212,396	1.2	(³)	(³)
Coke, not including gas-house coke.....	(³)	(³)	(³)	(³)	Tobacco, cigars.....	2,121,951	2.2	1,016,147	91.9
Iron and steel, blast furnaces.....	(³)	(³)	(³)	(³)	Bread and other bakery products.....	1,883,061	1.4	1,088,751	137.1
Iron and steel, steel works and rolling mills.....	(³)	(³)	(³)	(³)	Printing and publishing, newspapers and periodicals.....	1,422,587	1.3	721,615	102.9
CHESTER.					Confectionery and ice cream.....	1,137,650	1.6	(³)	(³)
Iron and steel, steel works and rolling mills.....	8,373,774	0.6	6,298,159	303.4	Boots and shoes.....	(³)	(³)	(³)	(³)
Cotton goods.....	(³)	(³)	(³)	(³)	Cars and general shop construction and repairs by steam-railroad companies.....	(³)	(³)	(³)	(³)
Iron and steel, wrought pipe.....	(³)	(³)	(³)	(³)	Clothing, women's.....	(³)	(³)	(³)	(³)
Paper and wood pulp.....	(³)	(³)	(³)	(³)	Ordnance and accessories.....	(³)	(³)	(³)	(³)
Shipbuilding, steel, new vessels.....	(³)	(³)	(³)	(³)	Silk goods.....	(³)	(³)	(³)	(³)
Worsted goods.....	(³)	(³)	(³)	(³)	Slaughtering and meat packing.....	(³)	(³)	(³)	(³)
					Typewriters and parts.....	(³)	(³)	(³)	(³)

¹ A minus sign (—) denotes decrease.² Includes "textile machinery and parts."³ Figures can not be shown without disclosing individual operations.

TABLE 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919—Continued.

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.			Amount, 1919.	Per cent of total for the state.	Increase ¹ over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
JOHNSTOWN.					PITTSBURGH.				
Foundry and machine-shop products.....	\$6,312,354	1.7	(²)	.....	Iron and steel, steel works and rolling mills	\$203,051,815	15.7	\$142,043,940	232.8
Slaughtering and meat packing.....	2,618,042	2.1	(²)	.....	Foundry and machine-shop products.....	43,232,715	11.7	28,233,364	183.2
Coke, not including gas-house coke.....					Iron and steel, blast furnaces.....	31,376,111	10.1	14,393,709	84.8
Iron and steel, blast furnaces.....	(²)	(²)	(²)	.....	Slaughtering and meat packing.....	29,839,143	24.3	11,942,194	66.5
Iron and steel, steel works and rolling mills.					Bread and other bakery products.....	27,637,588	20.8	18,274,318	195.2
Wire.....					Pickles, preserves, and sauces.....	20,201,265	77.1	8,708,937	75.8
LANCASTER.					Cars and general shop construction and re- pairs by steam-railroad companies.....	18,913,648	8.2	9,206,695	94.8
Foundry and machine-shop products.....	4,889,042	1.3	\$3,333,180	214.2	Printing and publishing, newspapers and periodicals.....	13,631,162	12.8	6,639,084	95.0
Umbrellas and canes.....	4,295,397	59.3	(²)	.....	Confectionery and ice cream.....	11,443,255	16.1	7,303,887	176.4
Food preparations, not elsewhere specified.	3,650,282	18.8	3,636,317	.....	Petroleum, refining.....	11,328,596	6.3	8,126,437	253.8
Tobacco, cigars.....	3,369,615	3.4	1,381,729	69.5	Brass, bronze, and copper products.....	10,500,727	31.3	7,324,916	230.6
Confectionery and ice cream.....	2,971,765	4.2	1,399,653	89.0	Automobiles.....	(²)	(²)	(²)	(²)
Hardware.....	1,696,722	14.0	1,091,589	180.4	READING.				
Bread and other bakery products.....	1,229,274	0.9	643,526	109.9	Knit goods.....	33,735,625	17.9	27,234,921	419.0
Cotton goods.....					Foundry and machine-shop products.....	6,448,217	1.8	4,895,124	315.2
Leather, tanned, curried, and finished.....	(²)	(²)	(²)	(²)	Confectionery and ice cream.....	5,410,673	7.6	(²)	.....
Oilcloth and linoleum, floor.....					Tobacco, cigars.....	3,413,047	3.5	538,993	18.8
Silk goods.....					Hardware.....	3,268,568	27.1	1,050,435	47.4
Watches.....					Automobile bodies and parts.....	2,846,093	6.3	(²)	.....
PHILADELPHIA.					Bread and other bakery products.....	2,303,587	1.7	1,194,189	107.0
Sugar, refining, not including beet sugar...	133,796,119	100.0	87,859,972	191.3	Boots and shoes.....	(²)	(²)	(²)	(²)
Foundry and machine-shop products.....	92,810,903	23.2	66,222,885	249.1	Cars and general shop construction and re- pairs by steam-railroad companies.....	(²)	(²)	(²)	(²)
Leather, tanned, curried, and finished.....	89,019,381	42.1	65,462,290	277.9	Iron and steel, steel works and rolling mills	(²)	(²)	(²)	(²)
Worsted goods.....	88,400,460	74.6	53,730,111	155.0	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	(²)	(²)	(²)	(²)
Knit goods.....	85,848,934	45.4	54,498,849	175.9	Iron and steel, wrought pipe.....	(²)	(²)	(²)	(²)
Printing and publishing, newspapers and periodicals.....	72,515,822	68.0	39,859,081	122.1	Paints.....	(²)	(²)	(²)	(²)
Clothing, women's.....	69,183,831	59.3	35,041,313	102.8	Slaughtering and meat packing.....	(²)	(²)	(²)	(²)
Clothing, men's.....	54,074,670	73.9	32,097,221	148.0	SCRANTON.				
Bread and other bakery products.....	51,762,528	39.0	29,953,378	137.3	Silk goods, including throwsters.....	13,133,894	5.7	7,379,035	128.2
Slaughtering and meat packing.....	50,169,124	40.8	23,773,822	90.1	Bread and other bakery products.....	2,079,154	1.6	949,709	84.1
Carpets and rugs, other than rag.....	43,111,066	90.8	22,524,543	109.4	Printing and publishing, book and job.....	1,629,514	3.5	1,074,331	193.5
Cotton goods.....	37,801,939	56.9	24,513,306	184.5	Clothing, women's.....	1,525,188	2.0	828,513	118.9
Woolen goods.....	36,265,463	75.2	25,327,590	231.6	Printing and publishing, newspapers and periodicals.....	1,372,060	1.3	-73,911	-5.1
Electrical machinery, apparatus, and sup- plies.....	33,729,133	25.4	24,890,130	280.3	Foundry and machine-shop products.....	1,315,055	0.4	361,899	37.9
Printing and publishing, book and job.....	29,895,039	64.8	12,639,248	72.2	Automobile bodies and parts.....	(²)	(²)	(²)	(²)
Confectionery and ice cream.....	29,057,357	41.7	10,018,432	178.8	Cars and general shop construction and re- pairs by steam-railroad companies.....	(²)	(²)	(²)	(²)
Dyeing and finishing textiles, exclusive of that done in textile mills.....	26,548,236	62.5	18,051,066	249.5	Cotton lace.....	(²)	(²)	(²)	(²)
Tobacco, cigars and cigarettes.....	25,790,996	26.2	13,251,618	105.7	Iron and steel, steel works and rolling mills	(²)	(²)	(²)	(²)
Automobile bodies and parts.....	24,931,029	55.0	23,353,752	1,480.6	Knit goods.....	(²)	(²)	(²)	(²)
Chemicals.....	22,405,518	30.6	10,960,893	195.8	Liquors, malt.....	(²)	(²)	(²)	(²)
Paints.....	20,867,143	57.5	11,956,075	138.8	Phonographs and graphophones.....	(²)	(²)	(²)	(²)
Boots and shoes.....	20,534,339	31.4	11,772,845	134.4	WILKES-BARRE.				
Silk goods, including throwsters.....	19,766,861	8.5	11,623,066	140.0	Silk goods, including throwsters.....	6,023,928	2.6	4,399,226	270.8
Liquors, malt.....	17,718,027	29.9	3,800,636	27.4	Bread and other bakery products.....	1,553,737	1.2	830,297	114.8
Cars and general shop construction and repairs by steam-railroad companies.....	16,457,853	7.1	9,910,468	151.4	Printing and publishing, newspapers and periodicals.....	1,039,305	1.0	481,851	79.3
Hats, fur-felt.....	15,952,099	88.6	6,037,656	60.9	Automobile bodies and parts.....	(²)	(²)	(²)	(²)
Oil, not elsewhere specified.....	15,595,759	61.2	12,174,065	355.8	Confectionery and ice cream.....	(²)	(²)	(²)	(²)
Furniture.....	15,307,372	36.1	4,408,951	40.5	Cotton lace.....	(²)	(²)	(²)	(²)
Shirts.....	14,182,348	57.2	7,006,503	97.6	Liquors, malt.....	(²)	(²)	(²)	(²)
Brass, bronze, and copper products.....	13,352,498	39.9	9,416,051	230.2	Locomotives, not made by railroad com- panies.....	(²)	(²)	(²)	(²)
Soap.....	12,411,698	77.3	3,387,772	87.5	Tobacco, smoking.....	(²)	(²)	(²)	(²)
Coffee and spice, roasting and grinding.....	11,389,589	77.6	6,226,960	120.6	Wirework, wire rope and cable.....	(²)	(²)	(²)	(²)
Structural ironwork, not made in steel works or rolling mills.....	10,707,800	13.7	8,775,186	454.0					
Paper and wood pulp.....	10,634,910	16.4	5,600,743	111.3					
Food preparations, not elsewhere specified.	10,461,801	53.8	5,832,038	126.0					
Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	10,153,828	28.9	5,318,473	110.0					
Automobiles.....	(²)	(²)	(²)	(²)					
Chocolate and cocoa products.....	(²)	(²)	(²)	(²)					
Gas, illuminating and heating.....	(²)	(²)	(²)	(²)					
Iron and steel, steel works and rolling mills.	(²)	(²)	(²)	(²)					
Locomotives, not made by railroad com- panies.....	(²)	(²)	(²)	(²)					
Petroleum, refining.....	(²)	(²)	(²)	(²)					
Shipbuilding, steel.....	(²)	(²)	(²)	(²)					

¹ A minus sign (-) denotes decrease.² Figures can not be shown without disclosing individual operations.³ Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."⁴ Includes "iron and steel, welding";

TABLE 17.—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.....	123,668	64,318	44,204	4,454,386	3,549,358	2,921,547	100.0	100.0	100.0
Owned.....	20,607	24,790	27,213	3,466,474	3,181,636	2,757,792	77.8	89.9	94.4
Steam.....	15,534	18,577	20,764	3,169,790	2,922,016	2,549,090	71.2	82.3	87.3
Engines.....	14,730	(²)	(²)	2,607,091	(²)	(²)	58.5		
Turbines.....	804	(¹)	(¹)	552,699	(²)	(²)	12.6		
Internal-combustion engines.....	3,722	4,628	4,415	250,067	223,695	153,508	5.7	6.3	5.3
Water.....	1,351	1,585	2,034	40,617	45,325	55,194	0.9	1.3	1.9
Water wheels and turbines.....	1,314	1,504	1,917	40,493	44,345	53,782	0.9	1.2	1.8
Water motors.....	37	81	117	124	980	1,432	(¹)	(²)	(¹)
Rented.....	103,061	39,528	16,991	987,612	358,222	163,755	22.2	10.1	5.6
Electric.....	103,061	39,528	16,991	978,621	344,189	145,621	22.0	9.7	5.0
Other.....				9,291	14,033	18,134	0.2	0.4	0.6
Electric.....	204,104	108,863	59,089	2,660,028	1,529,151	864,785	100.0	100.0	100.0
Rented.....	103,061	39,528	16,991	978,621	344,189	145,621	36.8	22.5	13.8
Generated by establishments reporting.....	101,043	69,335	42,098	1,681,407	1,184,962	719,164	63.2	77.5	86.2

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 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY.	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).				
All industries.....	4,252,192	58,571,552	13,247,923	9,214,896	337,132	117,039,190
Per cent of increase.....	3,906,024 8.9	54,141,142 8.2	11,996,930 10.4	2,026,603 371.3	(¹) (¹)	110,044,684 6.9
Aluminum manufacturers.....	1,572	50,999	1,741	1	1	1,291
Automobile bodies and parts.....	17,648	26,378	646	38,877	671	50,284
Brass, bronze, and copper products.....	4,530	25,233	28,343	42,826	537	161,700
Bread and other bakery products.....	117,026	108,593	31,831	91	5,673	985,493
Brick and tile, terra-cotta, and fire-clay products.....	36,426	1,429,426	1,164	378	1,515	2,367,663
Carpets and rugs, other than rag.....	24,707	64,049	300			4,822
Cars and general shop construction and repairs by steam-railroad companies.....	355,257	969,831	10,085	130,855	10,730	83,898
Cars, steam-railroad, not including operations of railroad companies.....	37,863	212,111	16,109	61,727	1,915	765,588
Cement.....	238,458	1,023,085	1,486	51,852	673	
Chemicals.....	17,872	441,199	7,893	48,507	734	99,050
Chocolate and cocoa products.....	8,981	67,640	420	23,855	240	3,626
Coal-tar products.....	3,597	52,925	305	23,379	114	17,962
Coke, not including gas-house coke.....	5,308	30,612,831	500,182	6,717	3,333	606,885
Condensed milk.....	5,649	79,901	3,150		163	234
Confectionery and ice cream.....	26,827	80,515	303	691	5,008	240,281
Cotton goods.....	25,655	72,935	350	4,075		1,522
Dyeing and finishing textiles, exclusive of that done in textile mills.....	43,773	199,984	480	28,034	750	5,537
Electrical machinery, apparatus, and supplies.....	65,866	204,456	5,119	24,177	533	591,494
Engines, steam, gas, and water.....	2,427	211,736	6,834	3,740	1,640	186,292
Explosives.....	29,477	35,800	85		113	1,295
Ferroalloys.....	901	51,267	691,797	127	97	4,499
Flour-mill and gristmill products.....	30,722	36,363	84	1,369	2,415	125,686
Foundry and machine-shop products.....	160,480	622,721	184,902	929,420	8,819	11,702,927
Furniture.....	12,615	66,049	930	36	348	24,270
Gas, illuminating and heating.....	148,083	523,280	180,280	1,537,455	17,824	27,825
Glass.....	6,363	667,259	3,399	126,269	11,339	15,945,505
Glue, not elsewhere specified.....	2,792	59,387				36
Grease and tallow, not including lubricating greases.....	2,773	42,479	140		2,037	1,370
Ice, manufactured.....	60,383	383,915		5,003	278	223,669
Iron and steel, blast furnaces.....	42,064	965,252	10,863,369	2,688	128	249,909
Iron and steel, steel works and rolling mills.....	509,568	12,571,638	319,198	3,674,868	181,394	68,025,356
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	9,225	35,363	981	42,070	188	308,625
Iron and steel, cast-iron pipe.....	9,799	15,618	31,769	51	126	1,335
Iron and steel, forgings, not made in steel works or rolling mills.....	1,181	146,934	15,582	179,009	8,393	366,566
Iron and steel, wrought pipe.....	34,486	107,640	735	1,818		85,098
Knit goods.....	59,606	90,344	972	104	1,025	24,180
Leather, tanned, curried, and finished.....	31,366	366,324			55	134,614
Lime.....	43,738	195,080	49,070	133	264	890
Liquors, malt.....	135,025	227,627	277	573	530	132,723
Locomotives, not made by railroad companies.....	22,071	150,467	17,352	65,177	207	76,199
Lumber and timber products.....	746	71,581		207	5,648	1,395
Lumber, planing-mill products, not including planing mills connected with saw-mills.....	12,622	43,253	58	135	556	46,956
Marble and stone work.....	16,110	31,653	11	351	1,135	32,865
Minerals and earths, ground or otherwise treated.....	1,091	139,539	2,119	965	2,178	752,597
Oilcloth and linoleum, floor.....		86,806	1,468	7,440	140	
Paints.....	21,435	103,902	2,458	2,293	67	70,050
Paper and wood pulp.....	43,951	1,071,733	1,459	150	101	
Paving materials.....	1,663	56,812	119	3,242	1,430	1,742
Petroleum, refining.....	264,896	711,580	32,008	1,662,680	344	2,602,740
Plumbers' supplies, not elsewhere specified.....	1,750	39,707	11,510	6,050	185	134,547
Pottery.....	893	44,881		3,081		315,250
Printing and publishing, newspapers and periodicals.....	34,755	6,630	52	56	333	221,878

¹ Included in figures for fuel oils.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

INDUSTRY AND CITY.	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).				
Roofing materials.....	6,156	34,244	90	6,268		3,253
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1,271	88,754		24	3,254	10,001
Shipbuilding, including boat building.....	2,551	158,038	23,874	179,013	8,409	27,809
Silk goods, including throwsters.....	202,983	74,034		530	225	17,053
Slaughtering and meat packing.....	31,314	108,778	106	235	9,318	31,353
Smelting and refining, zinc.....	640,411	201,423	79,803			
Stamped and enameled ware, not elsewhere specified.....	1,691	32,292	6,657	2,422	88	228,609
Steam fittings and steam and hot-water heating apparatus.....	4,106	27,893	22,274	9,376	698	177,305
Steam packing.....	524	119,995	7,718	4,210	856	5,461
Structural ironwork, not made in steel works or rolling mills.....	4,393	94,366	9,695	23,405	445	319,236
Sugar, refining, not including beet sugar.....	135,775	242,021				
Tin plate and terneplate.....	22	42,167		3,558	20	101,269
Wire.....	155	49,282	9,082	15,636	125	92,649
Wood distillation.....	9,260	96,818		17,800	12	1,798,249
Woolen goods.....	14,453	60,795	550	226	61	2,736
Worsted goods.....	16,958	121,684	11	2,979	76	
All other industries.....	411,232	844,837	59,147	207,126	36,712	6,998,055
Total for cities.....	2,485,728	20,167,824	7,711,371	6,603,346	208,402	33,379,476
ALLENTOWN.....	67,783	165,500	3,190	54,733	984	10,070
ALTOONA.....	74	218,072	3,684	41,823	39	14,261
AMBRIDGE.....		66,761	2,797		7,039	234,206
BEAVER FALLS.....	2,500	78,481	2,987	1,754	245	68,691
BETHLEHEM.....	329,834	1,180,888	725,200	263,938	83	47,470
BRADDOCK.....		72,207	244	6,147	118	439,116
BRADFORD.....	1,801	31,675	2,494	4,746	610	1,102,648
BRISTOL.....	978	25,086	214	1,847	28	48
BUTLER.....	319	59,245	2,948	15,193	1,853	1,168,419
CANONSBURG.....	6	78,883	436	60		137,360
CARBONDALE.....	12,660	1,507	98	2,318	80	1,265
CARLISLE.....	1,522	6,002	1,149	26	3,940	67
CARNEGIE.....		7,203	308			13,130
CARMICK.....		18				2,514
CHAMBERSBURG.....	9,105	15,569	5,253	29,801	80	1,558
CHARLESTON.....	1	62,890	60	290		1,028,227
CHESTER.....	19,398	167,074	93,113	103,727	1,368	5,608
COLUMBIA.....	1,595	41,105	1,236	2,121	6	50
CONNELLVILLE.....	39	34,236	1,170	1,424	315	12,372
DICKSON CITY.....	9,683		93			
DU BOIS.....	163	30,778	501	33	80	16,037
DUNMORE.....	4,456	14,915		246	14	
EASTON.....	37,288	40,535	755	19,762	511	1,542
ERIE.....	7,111	222,297	17,935	155,905	13,021	288,122
GREENSBURG.....		9,282	164	715	22	74,818
HARRISBURG.....	87,610	223,102	14,303	40,454	466	22,065
HAZLETON.....	23,259	278	212	1,855	1	17,172
HOMESTEAD.....		10,483	7,125			31,469
JEANNETTE.....		37,499	70	83		1,208,912
JOHNSTOWN.....	874	2,161,796	787,899	211,307	36,839	176,016
LANCASTER.....	26,258	66,022	2,497	28,517	1,527	15,623
LEBANON.....	3,864	283,185	5,538	17,517	248	855
McKEESPORT.....	140	721,121	676,339	2,637	451	694,927
McKEES ROCKS.....	21	93,876	2,241	10,567	239	328,103
MAHANAY CITY.....	4,778	9				
MEADVILLE.....	255	17,951	3,122	17,279	240	21,569
MOUNT CARMEL.....	6,919	62			175	118
NANTICOKE.....	5,891	1,045		6,257		270
NEW CASTLE.....	155	455,009	29,746	4,778	35	29,045
NEW KENSINGTON.....	1,640	76,888	1,784	1,138	17	29,968
NORRISTOWN.....	10,194	28,581	3,618	12,835	955	4,891
OIL CITY.....	11	26,916	3,656	2,960	78	246,756
OLD FORGE.....	444					
PHILADELPHIA.....	1,090,704	2,603,333	272,060	3,367,597	22,350	987,237
PHOENIXVILLE.....	6,890	190,011	4,124	2,504	143	10,234
PITTSBURGH.....	14,526	4,116,089	1,450,044	655,078	139,610	12,436,198
PITTSFORD.....	16,930	683	458	5,178	1	59
PLYMOUTH.....	2,652	130			13	80
POTTSFORD.....	8,791	80,730	189,207	8,067	920	13,080
POTTSVILLE.....	104,051	64,432	514	3,970	6	669
PUNXSUTAWNEY.....	44	7,074	37,490	2	147	105,434
READING.....	139,261	307,091	98,195	829,422	1,616	22,417
SCRANTON.....	134,681	20,803	4,098	9,499	490	15,590
SHAMOKIN.....	23,814	207		1,508	12	643
SHARON.....	14,901	183,190	130,964	156,677	54	3,012,881
SHENANDOAH.....	9,950	124		433	173	20
SUNBURY.....	22,327	5,138		4,927	26	324
TAMAQUA.....	6,182	75	80	383	1	24
UNIONTOWN.....	15	10,048	1,680		221	99,811
WARREN.....		102,035	600	2,188	25	567,669
WASHINGTON.....		73,256	643	19,915	60	475,989
WEST CHESTER.....	4,553	3,398	784	6,233	134	1,676
WILKES-BARRE.....	112,421	3,019	1,818	26,456	18,112	46,991
WILKINSBURG.....	5	13,575		11	41	10,317
WILLIAMSPORT.....	6,143	118,324	4,795	25,985	1,088	6,087
YORK.....	8,080	73,697	11,484	61,132	763	187,308
ALL OTHER CITIES ¹	75,678	5,356,529	3,098,059	261,848	40,814	7,933,409

¹ All other cities embrace: Berwick, Coatesville, Donora, Duquesne, Farrell, Monessen, North Braddock, Olyphant, Steelton, Swissvale, and Woodlawn.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for 24 of these industries in Pennsylvania are here presented.

Iron and steel, blast furnaces (Table 19).—This table presents the statistics for the pig-iron industry of the state for 1919, 1914, and 1909. Pennsylvania ranks first in the industry and produced 39.3 per cent of the tonnage of the country in 1919, 41.9 per cent in 1914, and 42.5 per cent in 1909. All but eight-tenths of 1 per cent was coke iron in 1919, 1.3 per cent in 1914 and 6 per cent in 1909. The small production by other fuels, 1919, was mixed anthracite and coke iron and a small amount of charcoal iron.

The production in 1919 represents an increase in tonnage of 23.3 per cent over that of 1914 and 10.1 per cent over 1909, with an increase in value of 133.9 per cent and 88.5 per cent, respectively. Iron for steel making—the basic, Bessemer, and low-phosphorus grades—constituted 90.5 per cent of the production in 1919, 87.2 per cent in 1914, and 81.3 per cent in 1909 (not including the ferroalloys), and foundry iron 6.8 per cent in 1919, 8.2 per cent in 1914, and 14.4 per cent in 1909. Of the pig-iron output, 66.8 per cent were handled molten and 25.6 per cent were machine cast in 1919; 59.6 per cent molten and 28.2 per cent machine cast in 1914; and 54.9 molten and 26.4 per cent machine cast in 1909.

TABLE 19.—IRON AND STEEL, BLAST FURNACES: 1919, 1914, AND 1909.

[Ton, 2,240 pounds, except as otherwise stated.]

	1919	1914	1909
MATERIALS.¹			
Total cost.....	\$250,349,277	\$115,501,389	\$142,074,028
The blast-furnace industry.....	244,960,133	115,501,389	142,074,028
Subsidiary establishments, other industries (ferroalloys).....	5,389,144		
Iron ore:			
Tons.....	20,935,653	17,100,710	10,898,995
Domestic.....	20,695,560	16,777,624	18,421,398
Foreign.....	240,093	1,323,086	1,277,598
Cost.....	\$132,031,628	\$70,371,527	\$90,171,795
Average per ton.....	\$6.30	\$4.10	\$4.60
Scrap, mill cinder, scale, slag, fine dust, etc.:			
Tons.....	1,468,209	1,283,909	1,123,027
Cost.....	\$10,731,535	\$4,501,847	\$3,332,335
Average per ton.....	\$7.30	\$3.50	\$2.95
Fluxing material:			
Tons.....	6,857,889	5,055,105	5,819,912
Cost.....	\$12,378,781	\$5,078,963	\$5,298,591
Average per ton.....	\$1.80	\$1.00	\$0.90
Fuel for smelting:			
Coke—			
Tons (2,000 pounds).....	13,335,275	11,214,838	13,245,622
Cost.....	\$81,224,836	\$31,963,795	\$38,556,788
Average per ton.....	\$6.10	\$2.85	\$2.90
Other—			
Coal, tons.....	28,636	44,821	264,481
Charcoal, bushels.....	189,010	499,970	478,790
Cost.....	\$236,621	\$212,212	\$949,276
All other materials, cost.....	\$13,746,877	\$3,873,045	\$3,765,245

¹ Not including materials consumed in the manufacture of the subsidiary products.

TABLE 19.—IRON AND STEEL, BLAST FURNACES: 1919, 1914, AND 1909—Continued.

	1919	1914	1909
PRODUCTS.			
Total value.....	\$317,075,868	\$135,808,067	\$168,578,413
The classified industry, all products.....	\$311,080,081	\$135,808,067	\$168,578,413
Subsidiary pig-iron production by ferroalloy blast furnaces.....	\$6,595,787		
Pigiron:			
Tons.....	12,014,112	9,743,855	10,911,676
Value.....	\$314,253,542	\$134,465,078	\$167,588,407
Average unit value, ton.....	\$26.15	\$13.80	\$15.35
For consumption in works of company producing—			
Tons.....	9,331,630	7,557,352	7,028,653
Per cent of total.....	77.7	77.6	69.9
Assigned value.....	\$235,317,019	\$103,078,840	\$115,422,575
For sale—			
Tons.....	2,682,482	2,186,503	3,283,023
Per cent of total.....	22.3	22.4	30.1
Value.....	\$78,936,523	\$31,386,238	\$52,165,832
<i>Classified according to smelting fuel.</i>			
Coke:			
Tons.....	11,918,501	9,618,739	10,250,155
Value.....	\$311,194,581	\$131,030,925	\$156,834,060
Other fuel:			
Tons.....	95,611	125,110	652,521
Value.....	\$3,058,961	\$2,825,153	\$10,753,747
<i>Classified by grades.</i>			
Basic..... tons.....	6,625,835	5,053,942	4,815,840
Bessemer..... tons.....	4,094,214	3,078,581	3,775,728
Low phosphorus (below 0.4 per cent)..... tons.....	153,718	224,243	137,521
Foundry..... tons.....	817,883	782,100	1,542,722
Malleable..... tons.....	157,516	63,236	37,642
Forge or mill..... tons.....	148,006	362,026	366,808
All other pig iron, including direct castings..... tons.....	16,940	14,562	56,479
Ferroalloys..... tons.....	(²)	164,565	178,936
<i>Classified by method of delivery or casting.</i>			
Molten to steel works, etc..... tons.....	8,026,694	5,712,786	5,887,507
Machinecast..... tons.....	3,071,311	2,696,520	2,837,576
Sand cast..... tons.....	727,101	1,112,180	1,907,514
Chill cast..... tons.....	173,415	217,756	274,516
Direct castings..... tons.....	15,591	4,613	4,563
All other products, value.....	\$3,422,326	\$1,340,989	\$990,006

² Not included in the blast-furnace industry in 1919.

Steel works and rolling mills (Table 20).—This table presents the statistics for the steel furnaces and hot-rolling mills in Pennsylvania for 1919, 1914, and 1909. The plants produced 44.6 per cent of the rolled, forged, and other classified products of the country in 1919, 48.1 per cent in 1914, and 49.3 per cent in 1909. There was an increase of 31.3 per cent in tonnage in 1919, as compared with 1914, and 22.5 per cent with respect to 1909, and in total value of the rolled, forged, or other classified products, an increase of 180 per cent, 1914 to 1919, and 152 per cent, 1909 to 1919. The figures show an average value of approximately \$69 per ton in 1919, \$32 in 1914, and \$34 in 1909.

The year 1909 was one of expansion following the depression of 1908; the crest was reached in 1910, with a slight depression in 1911, and prosperous years in 1912 and 1913. In 1914, however, the industry was greatly depressed because of the beginning of the

European war, and in November, the month of minimum employment for that year, there were but 114,695 wage earners employed in the establishments in the state, whereas at the close of 1909 there were 148,591.

In 1919, though the average number of wage earners for the year, 171,715, was an increase of 30 per cent as compared with 1914, the beginning of the year, January, with 202,630 wage earners, was the month of maximum activity, followed by a steady decline through May, after which there was a partial recovery through August, and then a drop in the number of wage earners to a minimum of 145,252 in October.

In 1919 the steel production, 15,300,068 tons, was 63.5 per cent of the capacity of the furnaces operating on double turn, for 300 working-days, as compared with 55.2 per cent in 1914 and 73.2 per cent in 1909.

TABLE 20.—IRON AND STEEL, STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909.

[Ton, 2,240 pounds, except as otherwise stated.]

	1919	1914	1909
MATERIALS.¹			
Total cost.....	\$777,472,690	\$285,382,054	\$329,013,421
Pig iron:			
Tons.....	10,325,070	8,202,049	9,158,260
Cost.....	\$259,320,868	\$112,472,123	\$139,208,876
Ferroalloys—spiegeleisen, ferromanganese, etc.:			
Tons.....	200,731	138,132	159,643
Cost.....	\$32,831,864	\$8,581,336	\$7,926,508
Scrap (not produced in establishment reporting):			
Tons.....	3,223,628	2,595,148	2,669,773
Cost.....	\$68,160,998	\$31,924,141	\$41,672,010
Steel, crude and semifinished (not produced in establishment reporting):			
Tons.....	4,069,579	2,841,514	3,013,148
Cost.....	\$169,693,785	\$60,435,107	\$68,274,443
Rolled forms, for further manufacture (not produced in establishment reporting):			
Tons.....	654,742	172,609	163,164
Cost.....	\$41,419,710	\$4,777,427	\$5,204,178
Iron ore:			
Tons.....	570,165	580,818	568,716
Cost.....	\$4,630,630	\$2,741,327	\$3,169,203
All other materials, including fuel and rent of power, cost.....	\$201,408,845	\$64,450,023	\$63,658,204
PRODUCTS.			
Total value.....	\$1,296,412,070	\$448,106,324	\$500,343,095
Rolled, forged, and other classified products:			
Tons.....	16,135,537	12,288,141	13,167,008
Value.....	\$1,114,064,273	\$397,618,602	\$442,737,439
Finished rolled products and forgings—			
Rails—			
Tons.....	587,680	566,125	548,924
Value.....	\$28,034,088	\$16,197,964	\$24,077,184
Rolled or renewed rails—			
Tons.....	36,719	26,444	6,393
Value.....	\$1,865,112	\$579,843	\$170,476
Rail joints, fastenings, etc.—			
Tons.....	127,913	108,235	124,049
Value.....	\$8,233,201	\$3,872,023	\$4,669,802
Structural shapes—			
Tons.....	1,795,687	1,499,077	1,597,946
Value.....	\$106,383,147	\$41,178,413	\$49,512,361
Bars for reinforced concrete—			
Tons.....	84,127	55,693	36,886
Value.....	\$4,704,230	\$1,525,540	\$1,084,652
Merchant bars, bill shafting, etc.—			
Tons.....	1,771,258	1,415,417	1,749,220
Value.....	\$138,410,978	\$49,345,938	\$56,717,882

¹ Includes materials purchased and the quantity and assigned value of that transferred to the establishment reporting from other works of the same company.

TABLE 20.—IRON AND STEEL, STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909—Continued.

	1919	1914	1909
PRODUCTS—continued.			
Rolled, forged, and other classified products—Continued.			
Finished rolled products and forgings—Continued.			
Wire rods, to be drawn or rolled—			
Tons.....	1,048,478		
Value.....	\$54,876,918		
Steel rods, cold rolled (and rolled wire rods in coils or bars)—		1,104,133	861,261
Tons.....	115,277	\$27,959,516	\$23,190,920
Value.....	\$12,819,432		
Plates or sheets, other than tinning—			
Tons.....	3,330,544	1,900,427	2,057,176
Value.....	\$247,572,182	\$61,657,951	\$78,938,359
Black plates (or sheets) for tinning—			
Tons.....	497,069	564,539	308,738
Value.....	\$43,418,357	\$23,744,024	\$15,400,384
Skelp—			
Tons.....	993,926	860,969	1,087,502
Value.....	\$59,130,392	\$24,001,966	\$34,273,085
Hoops, bands, and cotton ties—			
Tons.....	449,861	373,668	279,172
Value.....	\$37,808,816	\$12,934,152	\$8,805,448
Nail and tack plate—			
Tons.....	14,337	31,318	37,802
Value.....	\$1,181,535	\$1,299,420	\$1,469,504
Axles, rolled or forged—			
Tons.....	73,366	61,920	97,338
Value.....	\$7,199,631	\$2,515,703	\$3,606,095
Armor plate, gun forgings, and ordnance—			
Tons.....	68,904	36,671	22,558
Value.....	\$44,401,072	\$19,000,468	\$8,838,835
Car and locomotive wheels, rolled or forged—			
Tons.....	108,967	(²)	(²)
Value.....	\$15,565,085	(²)	(²)
All other rolled products—			
Tons.....	781,075	443,694	464,285
Value.....	\$70,108,013	\$24,380,743	\$31,220,885
All forged or other iron and steel products, not otherwise enumerated—			
Tons.....	257,930	326,268	323,016
Value.....	\$27,836,981	\$15,329,125	\$16,179,228
Semifinished rolled products (sold or transferred to other works of same company):			
Blooms, billets, and slabs, steel—			
Tons.....	2,179,257	1,604,533	2,099,296
Value.....	\$90,991,534	\$33,510,622	\$47,413,864
Rolled blooms and billets for forging purposes—			
Tons.....	31,036	30,528	37,977
Value.....	\$1,775,867	\$794,183	\$1,128,694
Hammered charcoal blooms, billets, and slabs—			
Tons.....	9,715	(²)	(²)
Value.....	\$491,308	(²)	(²)
Sheet and tin-plate bars—			
Tons.....	1,099,122	928,249	778,260
Value.....	\$44,059,692	\$18,811,066	\$17,430,702
Muck and scrap bar—			
Tons.....	159,450	97,742	118,750
Value.....	\$9,890,505	\$2,078,512	\$3,505,236
Unrolled steel (sold or transferred to other works of same company):			
Ingots—			
Tons.....	243,650	37,053	32,144
Value.....	\$10,102,572	\$882,882	\$1,525,021
Direct steel castings—			
Tons.....	270,034	215,398	197,405
Value.....	\$47,144,627	\$15,327,948	\$14,087,422
All other products, including scrap and value added to steel or iron rolling-mill products by further manufacture, value.....	\$182,347,797	\$50,487,722	\$57,606,556
Steel production.			
Total..... tons..	15,300,068	^a 11,837,503	^a 12,189,958
Ingots..... tons..	16,030,034	11,622,105	11,992,548
Castings..... tons..	270,034	215,398	197,405
Classified according to process:			
Open hearth..... tons..	12,590,489	9,741,125	9,281,936
Basic..... tons..	11,915,560	9,129,227	8,536,726
Acid..... tons..	674,929	611,898	745,210
Bessemer..... tons..	2,533,332	2,038,775	2,846,360
Crucible..... tons..	36,478		61,657
Electric..... tons..	89,709	57,603	

² Not reported separately.

^a In addition, 13,897 tons of steel castings in 1914 and 16,655 in 1909 were produced by establishments engaged primarily in other lines of manufacture.

Wire (Table 21).—This table presents the statistics for the wire drawing industry, 1919. At prior censuses the industry for the state was not reported separately. The statistics for materials and products include the independent wire-drawing establishments not operated in conjunction with the mills that roll the wire rods, and which constitute the classified industry, and also the wire-drawing departments of the mills that roll the rods. The wire-drawing departments of the rolling mills produce the greater portion of the wire product of the state, hence the classified wire industry of itself is not representative of the magnitude of the industry. The production, therefore, of the wire-drawing departments of the rolling mills, which is included in the statistics for such mills, is also included in this table for the wire industry. The figures for materials and products are combined so as to show the total production of iron and steel wire products and the materials consumed in their manufacture, irrespective of whether the product is that of an independent wire-drawing establishment or of one operated in conjunction with a mill that rolls the rods.

TABLE 21.—WIRE: 1919.

Ton, 2,000 pounds.]

	Number or amount.
MATERIALS.	
Total cost.....	\$45,262,422
The classified industry (not departments of rod rolling mills).....	\$14,216,405
Wire drawing departments of rolling mills.....	\$31,046,017
Wire rods, steel:	
Tons.....	927,549
Bessemer.....	464,782
Open-hearth.....	443,644
Crucible and other.....	19,123
Cost.....	\$41,503,436
Wire, not produced in mill reporting:	
Tons.....	14,002
Cost.....	\$1,097,649
All other materials, cost.....	\$2,661,337
Wire drawn, tons:	
Iron and steel.....	895,058
For sale.....	175,990
For consumption.....	719,068
Copper and other metal.....	1,768
PRODUCTS.	
Total value.....	\$77,096,001
The classified industry, all products.....	\$19,595,888
Wire drawing departments of rolling mills.....	\$57,500,113
Iron and steel wire products, value.....	\$74,215,428
Wire—	
Plain—	
Tons.....	175,990
Value.....	\$13,419,210
Coated—	
Tons.....	157,917
Value.....	\$12,595,316
Wire nails and spikes—	
Kegs (100 pounds).....	5,328,866
Value.....	\$20,443,735
Wire staples—	
Tons.....	18,479
Value.....	\$1,080,388
Barbed wire (plain or coated)—	
Tons.....	167,833
Value.....	\$15,287,189
Woven wire fence and poultry netting—	
Tons.....	85,536
Value.....	\$5,006,821
Other (iron or steel) wire products—	
Tons.....	24,486
Value.....	\$3,383,769
Copper and other wire products:	
Tons.....	1,768
Value.....	\$718,907
All other products, value.....	\$2,161,666

The tonnage of drawn iron and steel wire, 895,056 net tons, constituted 35.7 per cent of the total iron and steel wire production of the United States and embraced 11 establishments operated as independent wire mills, and 7 wire-drawing departments of mills that rolled the wire rods.

Tin plate and terneplate (Table 22).—This table presents the statistics for materials and products for the tin-plate and terneplate industry for the state, the same including the independent dipping establishments not operated in conjunction with rolling mills and which constitute the classified industry and also the dipping departments of the rolling mills for 1919, 1914, and 1909. The detailed statistics for materials and for products are combined so as to show the total production of tin plate and terneplate and the materials consumed in their manufacture, irrespective of whether the product is that of an independent establishment or of one operated as a department of a mill that rolls the black plates. The production of the dipping departments of the rolling mills is included in the statistics for that industry.

Pennsylvania produced 48.6 per cent of the tin-plate and terneplate product of the country in 1919, 56.1 per cent in 1914, and 52.9 per cent in 1909. In the way of equipment, the plants reported, in 1919, 413 tin and terne sets with a daily capacity, on single turn, of 3,121,428 pounds. In 1914 there were 314 sets of 1,882,408 pounds daily capacity.

TABLE 22.—TIN PLATE AND TERNEPLATE: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$70,940,157	\$31,933,881	\$22,898,352
The classified industry (not departments of plate rolling mills).....	\$44,754,435	\$31,933,881	\$22,898,352
Dipping departments of plate rolling mills.....	\$26,185,722		
Black plates or sheets:			
Pounds.....	1,310,503,152	1,180,120,546	705,748,494
Cost.....	\$55,214,126	\$22,225,047	\$15,801,297
Average per 100 pounds.....	\$4.20	\$1.90	\$2.25
Pig tin:			
Pounds.....	22,540,259	21,428,916	16,858,292
Cost.....	\$13,262,586	\$5,291,064	\$5,032,023
Average per pound.....	\$0.59	\$0.39	\$0.30
Terne mixture (purchased) including pig lead:			
Pounds.....	927,360	577,824	3,410,913
Cost.....	\$167,240	\$61,114	\$278,152
All other materials, cost.....	\$2,296,205	\$1,356,056	\$1,791,880
PRODUCTS.			
Total value.....	\$90,446,887	\$36,795,990	\$25,284,066
The classified industry, all products.....	\$58,815,616	\$36,795,990	\$25,284,066
Dipping departments of plate rolling mills.....	\$31,631,271		
Tin plate and terneplate: ¹			
Pounds.....	1,294,352,902	1,152,887,757	695,377,287
Value.....	\$88,246,985	\$35,567,823	\$23,750,750
Average value per 100 pounds.....	\$6.82	\$3.10	\$3.40
All other products, value.....	\$2,199,902	\$1,228,167	\$1,483,316

¹ Including tagger's tin and long terne.

Textiles (Table 23).—This table shows the total value of products reported for textile manufactures in Pennsylvania and the comparative importance of the different branches as measured by value of products for 1919, 1914, and 1909.

TABLE 23.—TEXTILES: 1919, 1914, AND 1909.

INDUSTRY.	VALUE OF PRODUCTS.		
	1919	1914	1909
Total.....	\$784,689,852	\$296,984,852	\$267,840,579
Silk goods, including throwsters.....	231,711,352	86,938,554	62,061,302
Wool manufactures.....	217,598,384	87,508,323	102,326,228
Woolen, worsted, and felt goods, and wool-felt hats.....	170,118,554	64,408,676	77,446,996
Carpets and rugs, other than rag.....	47,479,830	23,099,047	24,879,232
Knit goods.....	188,200,800	64,153,449	49,657,506
Cotton manufactures, including cotton goods, cotton lace, and cotton small wares.....	90,581,626	32,400,446	33,917,033
Oilcloth and linoleum, floor.....	22,805,611	7,165,362	(³)
Hats, fur-felt.....	17,995,301	11,040,820	13,022,617
Cordage and twine and jute goods.....	14,391,782	6,818,432	4,804,775
Wool shoddy.....	1,374,996	959,466	2,051,118

¹ Excludes statistics for 3 establishments manufacturing oilcloth and linoleum, to avoid disclosure of individual operations.

² Statistics can not be shown without disclosing individual operations.

³ Includes cotton shoddy.

With over \$5,000,000,000 worth of textiles produced in the United States in 1919, Pennsylvania reported 15.1 per cent of the total, which credits this state as being the second most important state in total value of products reported for all kinds of textiles. Next to iron and steel, textiles were the most important among the manufacturing interests of the state in 1919, and contributed 10.7 per cent of the total value of products for all industries within the state. In 1919 there were 1,467 textile establishments in Pennsylvania, giving employment to 154,402 wage earners.

Statistics in detail for the principal textile industries for the state follow.

Wool manufactures (Table 24).—This table presents a detailed statement of the quantity and cost of the principal materials, and the quantity and value of the chief products, for 1919, 1914, and 1909.

TABLE 24.—WOOL MANUFACTURES: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$140,407,916	\$58,947,198	\$60,282,383
Wool:			
In condition purchased—			
Pounds.....	78,898,288	84,879,429	107,044,311
Cost.....	\$49,675,546	\$20,071,113	\$28,309,853
Domestic—			
Pounds.....	46,483,033	45,811,154	56,781,645
Cost.....	\$30,238,738	\$10,957,850	\$15,674,908
Foreign—			
Pounds.....	32,415,255	39,068,275	50,262,666
Cost.....	\$19,436,808	\$9,113,263	\$12,634,945
Equivalent in scoured condition, pounds.....	44,066,634	54,326,916	69,864,540
Animal hair and fur:			
Pounds.....	13,539,537	17,128,417	20,571,702
Cost.....	\$2,440,350	\$1,583,514	\$1,032,196
Rags, tailors' clippings, etc.:			
Pounds.....	3,189,070	9,924,264	8,288,323
Cost.....	\$859,377	\$516,688	\$258,722
Recovered wool fiber:			
Pounds.....	2,436,905	6,780,133	5,419,245
Cost.....	\$1,125,020	\$706,934	\$550,473
Waste and molls:			
Pounds.....	8,749,369	8,930,422	5,858,435
Cost.....	\$4,035,028	\$1,669,422	\$1,463,775
Tops:			
Pounds.....	2,490,816	4,029,376	2,445,813
Cost.....	\$3,935,747	\$2,288,774	\$1,530,899
Cotton:			
Pounds.....	2,913,106	7,285,788	5,017,601
Cost.....	\$790,542	\$626,466	\$536,262
Domestic—			
Pounds.....	2,285,203	(¹)	(¹)
Cost.....	\$557,790	(¹)	(¹)
Foreign—			
Pounds.....	627,903	(¹)	(¹)
Cost.....	\$232,752	(¹)	(¹)
Yarns, purchased:			
Woolen—			
Pounds.....	16,829,854	17,118,410	22,463,957
Cost.....	\$14,490,904	\$4,900,066	\$4,412,546

¹ Not reported separately.

TABLE 24.—WOOL MANUFACTURES: 1919, 1914, AND 1909—Con.

	1919	1914	1909
MATERIALS—continued.			
Yarns, purchased—Continued.			
Worsted—			
Pounds.....	9,459,434	14,004,345	18,088,331
Cost.....	\$25,314,242	\$10,679,197	\$14,461,212
Merino—			
Pounds.....	1,304,121	352,555	2,242,312
Cost.....	\$1,733,327	\$106,543	\$309,803
Cotton—			
Pounds.....	12,372,351	18,816,137	26,354,704
Cost.....	\$8,222,562	\$3,849,490	\$5,476,380
Silk and spun silk—			
Pounds.....	171,860	356,260	246,038
Cost.....	\$1,554,292	\$1,001,309	\$696,860
Linen—			
Pounds.....	527,216	1,430,459	1,483,096
Cost.....	\$248,076	\$280,805	\$285,481
Jute, ramie, and other vegetable fiber—			
Pounds.....	16,559,254	18,244,249	17,045,163
Cost.....	\$3,356,279	\$1,787,029	\$1,234,142
Chemicals and dyestuffs, cost.....	\$2,078,259	\$1,174,953	\$1,729,376
Fuel and rent of power, cost.....	\$2,158,330	\$1,002,212	\$1,065,431
All other materials, cost.....	\$18,390,035	\$6,702,623	\$6,028,963
PRODUCTS.			
Total value.....	\$217,598,384	\$87,508,317	\$102,326,228
Woven goods:²			
Pounds.....	30,358,391	(¹)	(¹)
Square yards.....	48,968,696	55,330,197	68,960,264
Value.....	\$78,479,004	\$28,844,286	\$35,294,843
All-wool woven goods—			
Pounds.....	14,651,821	(¹)	(¹)
Square yards.....	23,272,409	28,987,670	33,149,873
Value.....	\$53,358,521	\$20,577,655	\$22,653,317
Woolen suitings, overcoatings, and dress goods—			
Pounds.....	5,741,172	(¹)	(¹)
Square yards.....	7,818,005	3,828,370	2,650,590
Value.....	\$19,260,426	\$2,452,485	\$1,838,024
Worsted suitings, overcoatings, and dress goods—			
Pounds.....	7,084,749	(¹)	(¹)
Square yards.....	12,290,438	22,268,800	27,684,839
Value.....	\$20,453,073	\$16,131,143	\$18,939,947
Flannels for underwear—			
Pounds.....	254,931	(¹)	(¹)
Square yards.....	400,488	393,964	796,097
Value.....	\$241,616	\$179,462	\$430,576
Blankets—			
Pounds.....	1,255,042	(¹)	(¹)
Square yards.....	1,697,360	2,134,723	1,424,062
Value.....	\$2,097,377	\$1,812,465	\$1,153,043
All other—			
Pounds.....	315,927	(¹)	(¹)
Square yards.....	1,066,118	3,813	598,285
Value.....	\$2,306,029	\$2,100	\$291,422
Cotton-mixed goods—			
Pounds.....	5,847,796	(¹)	(¹)
Square yards.....	8,811,766	9,883,044	5,104,428
Value.....	\$10,636,908	\$3,321,235	\$2,070,669
Cotton-mixed suitings, overcoatings, and dress goods—			
Pounds.....	5,162,604	(¹)	(¹)
Square yards.....	7,846,214	6,882,987	4,448,851
Value.....	\$9,836,739	\$2,353,038	\$1,794,048
All other—			
Pounds.....	685,192	(¹)	(¹)
Square yards.....	965,552	3,000,057	655,577
Value.....	\$800,169	\$938,147	\$276,626
Cotton-warp goods—			
Pounds.....	9,858,774	(¹)	(¹)
Square yards.....	10,984,521	16,459,483	30,735,963
Value.....	\$14,483,575	\$4,945,396	\$10,570,357
Wool-filling suitings, overcoatings, and dress goods—			
Pounds.....	2,396,450	(¹)	(¹)
Square yards.....	4,834,860	4,792,627	13,369,803
Value.....	\$4,630,851	\$1,327,813	\$4,025,157
Worsted-filling suitings, overcoatings, and dress goods—			
Pounds.....	3,146,327	(¹)	(¹)
Square yards.....	6,740,969	8,816,213	11,103,850
Value.....	\$6,835,827	\$3,028,015	\$5,243,290
Blankets—			
Pounds.....	3,507,816	(¹)	(¹)
Square yards.....	3,609,230	930,128	3,393,778
Value.....	\$2,307,511	\$240,600	\$633,948
All other—			
Pounds.....	808,181	(¹)	(¹)
Square yards.....	1,699,472	1,920,515	2,864,436
Value.....	\$709,386	\$348,908	\$667,662
Carpets and rugs:			
Pounds.....	35,927,149	(¹)	(¹)
Square yards.....	17,378,967	24,103,422	36,222,080
Value.....	\$36,217,914	\$19,472,933	\$21,570,318
Carpets—			
Pounds.....	16,632,955	(¹)	(¹)
Square yards.....	7,964,314	17,208,541	26,305,322
Value.....	\$15,967,843	\$14,831,540	\$15,373,145
Rugs, made of sewed strips—			
Pounds.....	10,720,566	(¹)	(¹)
Square yards.....	4,329,736	(¹)	(¹)
Value.....	\$13,414,595	(¹)	(¹)
Rugs, woven whole—			
Pounds.....	8,573,628	6,896,881	9,916,758
Square yards.....	5,084,917	\$4,641,384	\$6,197,173
Value.....	\$6,835,476		

² Exclusive of carpets and rugs, and woven felt goods.

TABLE 24.—WOOL MANUFACTURES: 1919, 1914, AND 1909—Con.

	1919	1914	1909
PRODUCTS—continued.			
Felt cloth, endless belts, hair felting, and other felts, value.....	\$1,222,143	\$555,732	\$311,688
Hats, wool-felt:			
Dozens.....	185,475	184,620	303,398
Value.....	\$1,454,001	\$765,208	\$1,431,342
Partly manufactured products for sale:			
Woolen yarn—			
Pounds.....	18,100,441	21,784,704	25,664,665
Value.....	\$16,001,051	\$6,924,691	\$6,021,540
Worsted yarn—			
Pounds.....	18,685,148	24,176,877	28,896,142
Value.....	\$47,488,055	\$18,604,351	\$24,098,942
Merino yarn—			
Pounds.....	8,116,525	5,343,128	11,710,956
Value.....	\$3,521,702	\$1,815,586	\$4,180,974
Worsted tops and slubbing—			
Pounds.....	1,122,698	2,460,859	2,252,927
Value.....	\$2,271,441	\$1,498,176	\$1,401,562
Noils—			
Pounds.....	2,346,311	3,840,996	6,006,239
Value.....	\$2,054,758	\$1,102,157	\$1,895,001
Waste—			
Pounds.....	1,831,400	3,683,664	5,260,513
Value.....	\$388,707	\$430,303	\$592,524
Amount received for contract work, value.....	\$5,482,210	\$623,235	\$800,935
All other products, value.....	\$18,017,308	\$6,811,659	\$4,426,459

Wool manufactures is composed of a group of industries using wool as a basic material in the manufacture of woolen, worsted, and felt goods, carpets and rugs, and wool-felt hats.

Wool manufactures in Pennsylvania has shown a general decline in quantity production during the ten years from 1909. With but two exceptions, those of waste and noils and tops, each of the principal materials shows a decrease in the quantity used in 1919 as compared with 1909. Raw wool, woolen yarn, and worsted yarn, the three most important materials, according to cost, and which combined represent more than one-half the total cost of all materials, have decreased in quantity 26.3, 25.1, and 47.7 per cent, respectively, during the ten-year period 1909-1919.

Over one-third of the total value of products of this industry in 1919 was represented by woven goods, exclusive of carpets and rugs, and woven felts, and according to the number of square yards the production decreased in both 1914 and 1919, with the result that for the ten years from 1909 to 1919 there was a total decrease of 29 per cent in quantity. Partly manufactured products for sale also represented over one-third of the total value of products, and during the same period, 1909 to 1919, showed a decrease of 37.1 per cent in quantity. The manufacture of carpets and rugs has shown a falling off since 1909, and the production, measured in square yards, for 1919 was less than one-half that of 1909.

Knit goods (Table 25).—This table shows the quantity and cost of the principal materials used, and the quantity and value of the chief products for the years 1919, 1914, and 1909.

Among the textile industries in Pennsylvania the knit-goods industry ranked second in 1919, according to value of products, and this value was the second largest reported by any state for the knit-goods industry. In the ten-year period covered by the table the combined raw and partly manufactured materials

used did not show as much change in the total quantity as in the individual kinds of material.

There was a decrease of 61.5 per cent in the quantity of raw cotton used, from 1909 to 1919, but an increase of 138.1 per cent in raw wool, 33.6 per cent in woolen yarn, 59.2 per cent in worsted yarn, 136 per cent in merino yarn, 939.4 per cent in silk yarn, and, from 1914 to 1919, an increase of 34.5 per cent in artificial silk yarn.

The reason for the use of different basic materials in 1919 from those of the previous ten years is chiefly due to the demand for silk and for wool hosiery in place of cotton. Although the quantity of hosiery (hose and half hose), made of all kinds of materials, increased only 1,264,687 dozen pairs, or 4.5 per cent, from 1909 to 1919, it will be seen that during the same period the quantity of cotton hosiery decreased 9,417,033 dozen pairs, or 34.7 per cent, while silk and silk-mixed hosiery increased 9,535,132 dozen pairs, or 6,553.5 per cent. In 1909 cotton hosiery constituted 97.5 per cent of the total quantity and 93 per cent of the total value of all hosiery produced in the state, which is in striking contrast to the condition in 1919 when cotton hosiery formed only 60.9 per cent of the total quantity and 35.3 per cent of the total value.

TABLE 25.—KNIT GOODS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$116,096,773	\$37,759,301	\$27,217,951
Cotton:			
Pounds.....	963,824	1,402,448	2,506,120
Cost.....	\$350,054	\$176,625	\$302,702
Cotton waste, purchased:			
Pounds.....	142,244	(¹)	(¹)
Cost.....	\$29,577		
Wool:			
In condition purchased—			
Pounds.....	1,113,994	582,590	487,877
Cost.....	\$1,156,920	\$169,404	\$205,403
Equivalent in scoured condition—			
Pounds.....	93,765	355,941	435,848
Recovered wool fiber—			
Pounds.....	411,287	(¹)	(¹)
Cost.....	\$254,462		
Wool waste and noils:			
Pounds.....	481,148	636,390	546,497
Cost.....	\$307,797	\$177,063	\$268,337
Raw silk:			
Pounds.....	372,091	400,226	(¹)
Cost.....	\$3,687,861	\$1,683,083	
Yarns purchased:			
Cotton—			
Pounds.....	58,079,460	59,700,074	59,035,958
Cost.....	\$55,231,177	\$18,044,864	\$16,283,401
Woolen—			
Pounds.....	826,548	611,845	618,809
Cost.....	\$1,232,926	\$390,936	\$369,134
Worsted—			
Pounds.....	2,681,474	2,114,360	1,684,736
Cost.....	\$6,748,728	\$1,690,928	\$1,616,975
Merino—			
Pounds.....	918,605	339,279	339,296
Cost.....	\$1,752,730	\$202,024	\$202,453
Silk and spun silk—			
Pounds.....	2,603,460	877,130	250,467
Cost.....	\$22,576,841	\$3,332,641	\$978,071
Artificial silk—			
Pounds.....	1,115,137	829,309	(¹)
Cost.....	\$5,380,758	\$1,526,980	
Linen, jute, and other vegetable fiber—			
Pounds.....	1,645	22,743	15,975
Cost.....	\$1,692	\$13,931	\$17,507
Sewing thread:			
Pounds.....	507,054	(¹)	(¹)
Cost.....	\$935,965		
Buttons:			
Gross.....	794,432	(¹)	(¹)
Cost.....	\$347,992		
Chemicals and dyestuffs, cost.....	\$2,527,089	\$530,187	\$304,026
Fuel and rent of power, cost.....	\$1,041,634	\$443,057	\$421,700
All other materials, cost.....	\$13,231,970	\$9,425,573	\$5,718,242

¹ Not reported separately.

TABLE 25.—KNIT GOODS: 1919, 1914, AND 1909—Continued.

PRODUCTS.	1919	1914	1909
Total value.....	\$188,260,800	\$64,153,449	\$49,657,506
Hose and half hose:			
Dozen pairs.....	29,097,288	29,855,896	27,832,601
Value.....	\$124,902,543	\$40,442,927	\$30,847,344
Cotton—			
Dozen pairs.....	17,722,549	23,383,766	27,139,582
Value.....	\$44,132,833	\$23,209,500	\$28,997,548
Hose—			
Dozen pairs.....	8,273,195	11,719,660	13,876,893
Value.....	\$24,938,868	\$13,258,784	\$10,058,169
Half hose—			
Dozen pairs.....	9,449,364	11,664,106	13,262,689
Value.....	\$19,103,975	\$9,950,716	\$12,639,379
Woolen, worsted, and merino—			
Dozen pairs.....	944,877	414,230	547,522
Value.....	\$3,687,264	\$709,233	\$959,391
Hose—			
Dozen pairs.....	569,997	308,535	295,023
Value.....	\$2,007,175	\$672,840	\$501,105
Half hose—			
Dozen pairs.....	374,680	15,695	252,499
Value.....	\$1,580,079	\$39,393	\$458,286
Silk—			
Dozen pairs.....	9,680,629	6,057,900	145,497
Value.....	\$74,551,015	\$16,524,194	\$1,190,405
Hose—			
Dozen pairs.....	6,769,052	(²)	(²)
Value.....	\$58,370,764		
Half hose—			
Dozen pairs.....	2,911,577	(²)	(²)
Value.....	\$16,180,251		
Artificial silk—			
Dozen pairs.....	749,433	(²)	(²)
Value.....	\$2,601,441		
Hose—			
Dozen pairs.....	132,773	(²)	(²)
Value.....	\$826,863		
Half hose—			
Dozen pairs.....	616,660	(²)	(²)
Value.....	\$1,894,578		
Shirts and drawers:			
Dozens.....	5,171,862	6,524,131	6,721,569
Value.....	\$15,844,886	\$9,154,213	\$9,815,054
Cotton—			
Dozens.....	5,035,935	6,340,164	6,552,364
Value.....	\$14,587,505	\$8,003,691	\$8,833,781
Merino—			
Dozens.....	110,048	163,755	161,883
Value.....	\$986,875	\$926,930	\$921,819
All other—			
Dozens.....	25,879	20,212	7,322
Value.....	\$270,506	\$218,592	\$50,074
Union suits:			
Dozens.....	2,250,825	1,415,583	436,275
Value.....	\$14,712,349	\$4,115,222	\$1,994,282
Cotton—			
Dozens.....	2,172,792	1,388,936	412,567
Value.....	\$13,074,126	\$3,918,534	\$1,155,327
Merino—			
Dozens.....	33,721	18,057	23,268
Value.....	\$509,412	\$136,050	\$234,855
All other—			
Dozens.....	44,312	8,590	440
Value.....	\$1,128,811	\$60,698	\$4,100
Bathing suits:			
Dozens.....	77,608	177,044	(³)
Value.....	\$1,248,143	\$698,116	
Gloves and mittens:			
Dozen pairs.....	371,026	310,939	284,931
Value.....	\$2,621,887	\$1,428,663	\$1,037,894
Knitted headwear:			
Dozens.....	6,117	81,786	138,427
Value.....	\$47,545	\$108,416	\$581,208
Cardigan jackets, sweaters, and jerseys:			
Dozens.....	288,064	304,550	221,700
Value.....	\$9,559,785	\$3,765,825	\$2,986,061
Jersey cloth and stockinette:			
Square yards.....	3,955,284	1,223,689	177,766
Value.....	\$7,893,118	\$912,766	\$136,792
All other products, value.....	\$11,371,044	\$3,527,301	\$2,859,871

¹ Includes silk-mixed hose and half hose.² Not reported separately.

The loss in cotton hosiery was more than compensated by the gain in silk and silk-mixed hosiery. In 1909 silk and silk-mixed hosiery formed only five-tenths of 1 per cent of the quantity and 3.9 per cent of the value of all hosiery produced in the state, while in 1919 silk and silk-mixed hosiery formed 33.3 per cent of the quantity and 59.7 per cent of the value.

Since the manufacture of hosiery was first introduced in the United States as a machine industry, Pennsylvania, the original hosiery state, has held the lead in this branch of the knit-goods industry, and in

1919 contributed 34.4 per cent of the quantity and 40.5 per cent of the value of all hosiery made in the United States. It will be seen from the table that nearly two-thirds of the total value of knit goods produced in the state in 1919 was confined to hosiery, while underwear, fancy knit goods, and knitted cloth were less important, although they show in most cases substantial increases in quantity produced in 1919 as compared with the census of 1909.

Cotton manufactures (Table 26).—The cotton-manufacturing industry includes mills engaged in the manufacture of cotton goods, cotton small wares, and cotton lace. The materials and products for this industry are shown in considerable detail in Table 26 for the census years 1919, 1914, and 1909.

TABLE 26.—COTTON MANUFACTURES: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$50,925,566	\$17,563,528	\$18,767,025
Cotton:			
Pounds.....	14,172,479	20,572,141	25,688,597
Cost.....	\$4,962,956	\$2,432,462	\$2,877,650
Yarns, purchased:			
Cotton—			
Pounds.....	42,070,842	40,724,610	46,787,905
Cost.....	\$35,344,138	\$10,814,194	\$10,852,268
Silk and spun silk—			
Pounds.....	112,492	83,439	144,128
Cost.....	\$781,188	\$263,794	\$469,370
Artificial silk—			
Pounds.....	390,672	275,705	
Cost.....	\$1,904,114	\$495,950	1,709,440
Other—			
Pounds.....	906,224	564,854	\$955,106
Cost.....	\$1,085,618	\$464,258	
Cotton waste, purchased:			
Pounds.....	1,476,598	2,504,161	1,310,239
Cost.....	\$149,203	\$112,625	\$80,421
Starch, cost.....	\$89,902	\$71,488	\$52,359
Chemicals and dyestuffs, cost.....	\$985,903	\$538,596	\$480,367
Fuel and rent of power, cost.....	\$1,042,350	\$431,292	\$450,989
All other materials, cost.....	\$4,100,194	\$1,888,909	\$2,528,465
PRODUCTS.			
Total value.....	\$90,581,626	\$32,400,446	\$33,917,033
Woven goods (over 12 inches in width):			
Pounds.....	30,318,076	(¹)	(¹)
Square yards.....	58,874,786	66,202,776	93,834,616
Value.....	\$48,682,122	\$16,235,292	\$18,119,153
Cotton worsteds and cottonades—			
Pounds.....	2,756,466	(¹)	(¹)
Square yards.....	4,216,434	(²)	\$4,530,256
Value.....	\$3,006,530	(²)	\$1,150,291
Tapestries and other upholstery goods (except pile fabrics)—			
Pounds.....	5,991,985	(¹)	(¹)
Square yards.....	9,052,124	8,106,698	8,783,867
Value.....	\$13,160,694	\$4,803,088	\$4,163,683
Velvets, corduroys, and plushes—			
Pounds.....	6,172,296	(¹)	(¹)
Square yards.....	6,463,830	4,793,205	3,638,945
Value.....	\$11,578,008	\$2,434,588	\$1,516,405
Towels and toweling, except terry weaves—			
Pounds.....	2,704,041	(¹)	(¹)
Square yards.....	4,181,041	(²)	(²)
Value.....	\$3,226,356	(²)	(²)
Turkish towels and toweling, and other terry weaves—			
Pounds.....	1,772,606	(¹)	(¹)
Square yards.....	4,144,901	9,989,645	10,501,557
Value.....	\$2,033,684	\$2,759,147	\$1,749,513
Bedspreads and quilts (crochet, marseilles, and satin)—			
Pounds.....	630,102	(¹)	(¹)
Square yards.....	1,209,291	(²)	(²)
Value.....	\$509,368	(²)	(²)
Cotton table damask—			
Pounds.....	357,843	(¹)	(¹)
Square yards.....	932,323	(²)	(²)
Value.....	\$554,302	(²)	(²)
Other woven goods (over 12 inches in width)—			
Pounds.....	9,932,737	(¹)	(¹)
Square yards.....	23,654,782	43,313,228	66,979,061
Value.....	\$14,316,180	\$6,237,869	\$9,539,961

¹ Not reported in 1914 and 1909.² Not reported separately.³ Reported in 1909 as "cottonades."

TABLE 26.—COTTON MANUFACTURES: 1919, 1914, AND 1909—Con.

	1919	1914	1909
PRODUCTS—continued.			
Nottingham lace curtains:			
Pairs.....	2,935,614	4,127,985	
Value.....	\$6,676,158	\$3,342,828	
Nottingham lace curtain nets:			
Linear yards.....	15,234,267	6,696,842	
Value.....	\$5,532,697	\$1,019,217	\$7,233,321
Other lace and net goods, value.....	\$2,379,099	\$1,950,517	(?)
Woven tape and webbing, value.....	\$4,152,754	\$1,710,252	\$2,141,178
Braids, value.....	\$4,292,294		(?)
All other cotton small wares, value.....	\$908,091	\$1,681,790	
Yarns, for sale:			
Pounds.....	6,232,189	9,476,991	11,448,343
Value.....	\$3,920,163	\$2,075,228	\$2,501,458
Cotton waste, for sale:			
Pounds.....	1,731,184	2,613,542	3,038,771
Value.....	\$141,935	\$97,015	\$96,340
All other products, value.....	\$13,892,413	\$4,287,407	\$3,730,583

¹ Reported in 1909 as the value of 66,867,709 square yards of "lace and lace curtains."

² Not reported separately.

In Pennsylvania the manufacture of cotton textiles is becoming less important at each census. From 1909 to 1919 the decreases in the quantity of raw cotton and purchased cotton yarn used were 44.8 and 10.1 per cent, respectively. Combined these two materials formed 80.1 per cent of the total cost of materials in 1919 and 73.2 per cent in 1909.

The production of woven goods (over 12 inches in width), which in 1919 formed 53.7 per cent of the total value of products, decreased 37.3 per cent in quantity during the ten years shown in the table. This decrease is largely due to a quantity of miscellaneous light-weight goods contained in other woven goods, reported in 1919 as dress goods, gingham, sheetings, and piece goods not specified. While comparable figures for 1909 are not available, it will be seen that in the five years from 1914 the production of Nottingham lace curtains decreased 28.9 per cent in pairs, while Nottingham lace curtain nets increased 127.5 per cent in number of linear yards. The quantity of yarns and waste for sale showed a falling off at both the census of 1914 and 1919, and during the ten-year period shown in the table the former decreased 45.6 per cent and the latter 43 per cent.

Silk manufactures (Table 27).—This table shows the quantity and cost of the principal materials and the quantity and value of the most important products of the silk industry in 1919, 1914, and 1909.

In 1919 there were 373 establishments, including 143 throwsters, in the silk-manufactures industry in Pennsylvania.

At the census of 1919 Pennsylvania took the lead for the first time, among the states, in value of products, in the manufacture of silk textiles, and at the same time this industry became of primary importance among the many kinds of textiles manufactured within the state.

Raw silk, which increased 80.9 per cent in quantity from 1909 to 1919, was the principal item of cost

among the several kinds of materials used, and, in 1919, formed 63.8 per cent of the total cost of all materials for the industry within the state. In contrast with the decrease in quantity of silk yarns, cotton yarns showed an increase of 39.7 per cent from 1909 to 1919.

TABLE 27.—SILK MANUFACTURES: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$123,287,243	\$48,795,481	\$35,165,571
Silk:			
Raw—			
Pounds.....	10,007,598	8,073,266	5,532,973
Cost.....	\$80,527,565	\$31,573,509	\$21,206,972
Spun—			
Pounds.....	1,118,958	723,176	695,087
Cost.....	\$6,830,327	\$1,845,513	\$1,566,914
Artificial—			
Pounds.....	481,273	176,682	127,486
Cost.....	\$2,269,013	\$334,022	\$273,646
Organzine, tram, and hard crepe twist—			
Pounds.....	1,425,462	1,760,594	1,719,952
Cost.....	\$13,882,065	\$7,934,419	\$7,531,045
Yarns, other than silk:			
Cotton, not mercerized—			
Pounds.....	4,183,116	3,590,419	2,869,000
Cost.....	\$4,059,169	\$1,328,708	\$1,077,157
Mercerized cotton—			
Pounds.....	255,398	336,904	309,063
Cost.....	\$476,497	\$217,198	\$224,029
Woolen or worsted—			
Pounds.....	324,621	454,307	83,075
Cost.....	\$1,340,634	\$560,877	\$98,340
All other—			
Pounds.....	218,048	59,485	186,170
Cost.....	\$478,646	\$72,010	\$157,214
Fuel and rent of power, cost.....	\$2,663,464	\$806,816	\$495,850
All other materials, cost.....	\$13,750,893	\$4,113,493	\$2,534,404
PRODUCTS.			
Total value.....	\$231,711,352	\$86,938,554	\$62,061,302
Broad silks:			
Yards.....	124,747,755	90,727,907	65,569,386
Value.....	\$152,674,138	\$57,451,134	\$35,772,192
All silk—			
Yards.....	99,273,085	64,052,216	41,600,686
Value.....	\$126,211,810	\$42,833,383	\$25,873,332
In the gray—			
Yards.....	27,527,413	(1)	(1)
Value.....	\$35,070,760	(1)	(1)
Piece-dyed and printed—			
Yards.....	20,848,704	26,320,088	24,574,128
Value.....	\$28,709,858	\$18,058,376	\$2,920,664
Yarn-dyed, including warp-printed—			
Yards.....	50,895,968	37,732,128	37,024,558
Value.....	\$62,431,192	\$24,775,007	\$22,952,068
Silk-mixed—			
Yards.....	25,475,670	26,675,691	23,968,700
Value.....	\$26,362,328	\$14,617,751	\$9,898,800
In the gray—			
Yards.....	20,919,703	(1)	(1)
Value.....	\$19,920,144	(1)	(1)
Piece-dyed and printed—			
Yards.....	742,863	18,235,594	15,583,924
Value.....	\$1,245,053	\$9,835,242	\$5,360,206
Yarn-dyed, including warp-printed—			
Yards.....	3,813,104	8,440,067	8,384,776
Value.....	\$5,197,131	\$4,782,509	\$4,538,654
Organzine, tram, and hard crepe twist:			
Pounds.....	1,057,264	1,306,686	1,642,004
Value.....	\$16,481,230	\$5,163,732	\$7,475,327
Machine twist, sewing, embroidery, fringe, and floss silks:			
Pounds.....	71,681	190,497	174,468
Value.....	\$1,089,196	\$301,538	\$324,643
Ribbons, value.....	\$23,350,039	\$13,667,159	\$10,008,140
Laces, nets, veilings, embroideries, fringes, gimps, etc., value.....	\$415,063	\$610,439	\$780,047
Braids and bindings, value.....	\$2,548,855	(2)	(2)
Military and tailors' trimmings, value.....	\$581,596	\$396,479	\$1,498,148
All other products, value.....	\$12,289,243	\$3,639,761	\$1,285,821
Amount received for contract work, value.....	\$22,386,962	\$5,208,322	\$4,416,978
Silk thrown on commission, total pounds.....	12,408,711	9,784,285	7,733,016
Into organzine, pounds.....	4,177,655	5,201,159	4,150,688
Into tram, pounds.....	4,498,723	4,553,136	3,582,328
Into hard crepe twist, pounds.....	3,738,333	(1)	(1)

¹ Not reported separately.

² Includes some gray goods.

³ Included with laces, nets, etc.

Broad silks were the principal products of the silk mills in Pennsylvania, the value of these forming 65.8 per cent in 1919 of the total value of products for this industry in the state, and the quantity increasing 90.3 per cent during the ten-year period 1909-1919. Of the value of broad silks manufactured in 1919, 82.7 per cent were that of all silk goods, the production of these goods having increased in quantity 138.6 per cent during the ten-year period shown in the table.

A larger amount of contract work on silk was done in this state than in any other. The character of this work is chiefly throwing. The amount of yarn which was thrown on commission has shown a constant increase, and in 1919 the number of pounds thrown was 60.5 per cent more than that thrown in 1909.

Hats, fur-felt (Table 28).—This table shows the quantity and cost of the principal materials used and the quantity and value of fur-felt hats manufactured in 1919, 1914, and 1909.

TABLE 28.—HATS, FUR-FELT: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$5,917,900	\$3,888,530	\$5,012,770
Hatters' fur:			
Pounds.....	1,290,704	1,459,412	1,976,118
Cost.....	\$4,291,290	\$2,519,557	\$2,420,636
Fur-felt hat bodies and hats in the rough:			
Dozens.....	7,550	11,987	28,084
Cost.....	\$86,129	\$75,071	\$175,642
Chemicals and dyestuffs, cost.....	\$87,684	\$73,676	\$164,843
All other materials, cost.....	\$1,472,707	\$1,220,226	\$2,251,650
PRODUCTS.			
Total value.....	\$17,095,301	\$11,040,820	\$13,022,617
Fur-felt hats:			
Dozens.....	378,599	472,498	668,696
Value.....	\$17,826,204	\$11,013,629	\$12,943,334
All other products, including contract work, value.....	\$169,097	\$27,191	\$79,283

In 1919, 21.7 per cent of the total value of products for the fur-felt hat industry in the United States were reported for Pennsylvania. In 1914 the state ranked first among the states in value of fur-felt hats produced, but in 1919 dropped to third place, being exceeded by Connecticut and New York. In the ten years from 1909 to 1919 the quantity of hatters' fur used decreased 34.7 per cent, and the fur-felt hat bodies and hats in the rough decreased 72 per cent, while the production of fur-felt hats decreased 43.4 per cent during the same period.

Machinery used in textile mills (Table 29).—The different kinds of machines, which have been accepted by textile manufacturers as best indicating the trend of the industries, are shown in detail for several branches of textile manufactures in Pennsylvania for 1919, 1914, and 1909.

In comparing the machinery of 1909 with that of 1919 it will be seen that, with the exception of a slight increase in looms used in wool manufactures

(not including carpets and rugs), all increases in machinery may be attributed to the silk and knit-goods industries. In the silk-manufactures industry from 1909 to 1919 spindles increased 58.2 per cent and looms 55.2 per cent. During the same period in the knit-goods industry, knitting machines increased 43.1 per cent and woolen cards 51.4 per cent. There was a decrease of 38.8 per cent in the spindles for this industry, largely due to the decrease in cotton spindles.

TABLE 29.—MACHINERY USED IN TEXTILE MILLS: 1919, 1914, AND 1909.

MACHINE.	Census year.	Total.	Woolen, worsted, and felt goods, and wool-felt hats.	Silk goods, including throwsters.	Knit goods.	Cotton goods, cotton lace, and cotton small wares.	Carpets and rugs, other than rag.
Producing spindles (not including doubling and twisting).	1919	2,481,086	608,366	1,610,086	20,593	222,107	19,914
	1914	2,218,599	579,654	1,850,079	22,476	243,738	22,622
	1909	1,971,907	642,430	1,017,992	33,648	252,071	26,166
Looms.....	1919	169,056	11,424	140,730	.....	12,615	4,287
	1914	59,973	10,942	33,604	.....	10,583	4,754
	1909	57,763	11,420	26,249	.....	14,129	5,965
Knitting machines.....	1919	84,346	.....	.....	84,346	.....	.....
	1914	51,422	.....	.....	51,422	.....	.....
	1909	44,960	.....	.....	44,960	.....	.....
Woolen cards (sets).	1919	4567	745	.....	453	.....	69
	1914	855	769	.....	34	.....	52
	1909	947	840	.....	35	.....	72
Wool-combing machines.	1919	343	330	.....	.....	.....	4
	1914	320	309	.....	.....	.....	11
	1909	354	342	.....	.....	.....	12

¹ Includes 3,248 looms idle entire year.

² Figures include woolen, worsted, and cotton looms, as follows: In 1919, 911; in 1914, 447; and in 1909, 328.

³ Includes 6,838 knitting machines idle entire year.

⁴ Includes 1 set of cards idle entire year.

Printing and publishing (Tables 30 and 31).—Table 30 shows the number and aggregate circulation per issue of all newspapers and periodicals published in Pennsylvania as reported at the censuses of 1919, 1914, and 1909.

The reduction in number of publications and in circulation is due to various causes, among them being the high cost of materials and labor. The decrease for all publications is 19.6 per cent in number and 5.4 per cent in circulation.

The lack of a greater increase in circulation of dailies is due in part to the reduction in circulation of two foreign-language papers, one in German and the other in Yiddish; in part to the discontinuance of a number of dailies, one of which reported a considerable circulation at the census of 1914; and, in part, to the lower circulation reported by leading newspapers. The decrease in circulation of Sunday newspapers is likewise due to discontinuances and to reduction in circulation as actually reported by various papers. In some instances the daily and Sunday circulation of newspapers was given, in 1914, as the sworn statement to the Post Office Department, this being a statement of the average circulation for the previous six months. The census schedule calls for the "average circulation per issue for week ending December 31." One of the publications of large circulation re-

ported as a semiweekly in 1914 was discontinued, a sporting weekly now being the only issue by that establishment.

The decrease in number and circulation of quarterly publications is due to the decrease in the reported circulation of religious quarterlies published by a number of evangelical denominations for Sunday School use, due in part, it is probable, to changes in methods of instruction.

TABLE 30.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	1,204	1,498	1,520	20,364,679	21,530,742	19,674,336
Daily.....	201	224	223	3,047,247	2,952,135	2,024,306
Sunday.....	29	39	27	1,612,115	1,700,504	1,481,282
Semiweekly ¹	23	46	52	72,583	337,806	1,243,089
Weekly.....	653	788	847	6,154,412	6,146,332	5,319,021
Semi-monthly.....	12	10	10	168,147	147,730	51,650
Monthly.....	191	264	253	6,001,752	6,046,975	6,107,571
Quarterly.....	85	113	97	3,291,478	3,838,673	3,516,933
All other classes ²	10	12	11	16,995	300,587	30,484

¹ Includes, in 1919, 2 triweeklies, in 1914, 6, and in 1909, 5.

² Includes, in 1919, 9 bimonthly publications and 1 semiquarterly; in 1914, 10 bimonthly publications and 2 semiannuals; and in 1909, 2 bimonthly publications and 9 "All other."

Table 31 shows the number and circulation of foreign-language publications in Pennsylvania by period of issue, compared with those printed in English, for 1919, 1914, and 1909.

There was a decrease both in number and circulation of foreign-language publications for the five years 1914-1919. In 1919 the foreign-language circulation was 3.3 per cent of the total; in 1914 it was 4.8 per cent. The decrease was 353,279, or 34.3 per cent. The greatest reduction was in the circulation of German, and English-and-German publications. In 1919 there were 18 German publications with a circulation of 77,649, and 3 English-and-German publications with a circulation of 47,938; whereas, in 1914, there were 42 in German with a circulation of 227,694, and 7 in English-and-German with a circulation of 312,012. Of the German publications in 1919, 3 were dailies, 2 published in the morning and 1 in the afternoon; 2 were published on Sunday, and 13 were weeklies. Of the 3 English-and-German publications, 1 was a morning daily, 1 a Sunday, and 1 a weekly.

Other foreign-language publications were: Bohemian, 1 weekly and 1 monthly; Croatian and Hungarian each, 2 weeklies; Italian, 1 morning daily, 1 Sunday, and 11 weeklies; Lithuanian, 1 weekly, 1 semiweekly, and 1 monthly; Magyar, 2 weeklies; Polish, 1 morning daily, 1 Sunday, and 15 weeklies; Russian, 2 weeklies, 1 semiweekly, and 1 monthly; Ruthenian, 1 weekly; Slovak, 7 weeklies and 1 monthly; Ukrainian, 1 triweekly, 1 weekly, and 1 semimonthly; Wendish, 1 weekly; Yiddish, 1 morning daily and 1 weekly; English-and-Italian, and English-and-Russian-and-Slovak and Russian-and-Slovak each, 2 weeklies; English-and-Slovak, 1

weekly; English-and-Spanish, 1 monthly; English-and-Spanish-and-Italian, 1 quarterly.

TABLE 31.—PRINTING AND PUBLISHING—COMPARATIVE LANGUAGE TABLE: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	Cen- sus year.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES.	
		Num- ber.	Aggregate circula- tion.	Num- ber.	Aggregate circula- tion.	Num- ber.	Aggregate circula- tion.
Total.....	1919	1,204	20,364,679	1,112	19,687,257	92	677,422
	1914	1,498	21,530,742	1,372	20,500,041	126	1,030,701
	1909	1,520	19,674,336	1,424	19,265,581	96	408,755
Daily.....	1919	201	3,047,247	194	2,971,250	7	75,997
	1914	224	2,952,135	213	2,800,390	11	151,745
	1909	223	2,924,306	215	2,848,667	8	75,649
Sunday.....	1919	29	1,612,115	23	1,539,339	6	72,776
	1914	39	1,700,504	32	1,670,974	7	89,530
	1909	27	1,481,282	22	1,424,360	5	56,932
Weekly.....	1919	653	6,154,412	584	5,755,723	69	398,689
	1914	788	6,146,332	709	5,777,470	79	368,862
	1909	847	5,319,021	778	5,132,782	69	186,239
Monthly.....	1919	191	6,001,752	186	5,973,752	5	28,000
	1914	264	6,046,975	248	5,970,263	16	78,712
	1909	253	6,107,571	244	6,050,536	9	57,035
All other classes ¹	1919	130	3,540,153	125	3,447,193	5	101,900
	1914	183	4,624,796	170	4,280,944	13	343,852
	1909	170	3,842,153	165	3,809,256	5	32,900

¹ Includes, in 1919, 84 quarterlies in English, and 1 quarterly in a foreign language; in 1914, 109 quarterlies in English, and 4 in foreign languages; and in 1909, 94 quarterlies in English, and 3 in foreign languages.

Leather, tanned, curried, and finished (Table 32).—This table gives the quantity and cost of the principal materials used, and the value of the different products of the industry, in 1919, 1914, and 1909.

TABLE 32.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$146,405,377	\$68,308,720	\$59,113,124
Cattle hides:			
Number.....	5,058,843	4,657,229	5,449,826
Cost.....	\$73,198,302	\$38,573,094	\$30,118,025
Skins:			
Calf and kip—			
Number.....	135,741	129,931	142,464
Cost.....	\$393,141	\$170,810	\$212,316
Goat and kid—			
Number.....	27,769,243	20,019,153	23,117,712
Cost.....	\$38,298,045	\$11,906,728	\$12,909,125
Sheep and lamb—			
Number.....	3,092,412	3,756,551	2,445,024
Cost.....	\$5,507,480	\$1,840,752	\$1,160,130
All other raw stock, cost.....	\$2,702,477	\$1,819,427	\$208,685
Fuel and rent of power, cost.....	\$1,972,001	\$872,925	\$726,432
All other materials, cost.....	\$24,335,271	\$13,118,984	\$13,778,411
PRODUCTS.			
Total value.....	\$211,389,340	\$85,252,532	\$77,926,321
Leather:			
Sole, value.....	\$101,041,783	\$50,485,259	\$39,904,180
Hemlock—			
Sides.....	718,761	3,524,274	4,752,308
Value.....	\$6,714,229	\$17,454,913	\$17,194,852
Oak and chrome—			
Sides.....	4,093,311	1,008,237	770,242
Value.....	\$47,334,599	\$7,328,589	\$4,735,428
Union—			
Sides.....	4,327,899	3,945,085	3,675,802
Value.....	\$46,992,955	\$25,701,757	\$17,973,900
Goat and kid—			
Skins.....	26,304,818	20,004,764	23,822,005
Value.....	\$68,214,549	\$17,027,618	\$19,975,045
Case, bag, and strap leather—			
Sides.....	415,413	424,133	(¹)
Value.....	\$4,377,532	\$2,261,398	(¹)
All other leather, value.....	\$26,794,579	\$11,940,960	\$13,376,193
All other products, value.....	\$4,016,037	\$1,693,154	\$1,412,742
Work on materials for others, value.....	\$6,944,869	\$1,844,143	\$3,258,161

¹ Not reported separately.

Pennsylvania leads all other states in the manufacture of leather. The total cost of raw stock, tanning materials, fuel, rent of power, etc., shows an increase in 1919 of \$78,096,657, or 114.3 per cent, over 1914. The principal materials used were cattle hides and goat and kid skins. The former constituted 22.8 per cent of the total number treated in the United States and the latter 50.1 per cent. Other skins reported were calf and kip, sheep and lamb, cabretta, kangaroo, and wallaby.

The total value of products in 1919 formed 22.8 per cent of the total for the industry in the United States. The increase over 1914 of \$126,136,817, or 148 per cent, in value of products is of even greater magnitude than the increase in cost of materials. Sole leather was the principal leather produced. Its value formed 47.8 per cent of the total for the state and, compared with 1914, shows an increase of slightly more than 100 per cent. Goat and kid skins show a substantial increase both in quantity and value. All other leather consisted chiefly of sole leather offal, cattle side upper, belting and patent leather skivers, fleshers, etc. The value was more than double the amount reported for 1914. Work on materials for others increased by 276.6 per cent.

Boots and shoes (Tables 33 and 34).—Table 33 gives the number of pairs and value of the various kinds of footwear produced in 1919, 1914, and 1909.

TABLE 33.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

CLASS.	NUMBER OF PAIRS AND VALUE.		
	1919	1914	1909
Aggregate value.....	\$65,411,673	\$27,844,752	\$30,519,498
Boots and shoes:			
Total number of pairs.....	17,909,498	17,717,591	11,631,329
Total value.....	\$55,546,728	\$24,640,436	.....
Men's—			
Number of pairs.....	2,117,680	1,697,909	942,959
Value.....	\$9,287,818	\$4,166,382	.....
Boys' and youths'—			
Number of pairs.....	1,192,017	1,230,694	1,105,348
Value.....	\$4,055,957	\$1,904,764	.....
Women's—			
Number of pairs.....	3,899,766	3,672,692	3,285,815
Value.....	\$19,051,657	\$8,041,711	.....
Misses' and children's—			
Number of pairs.....	10,730,035	11,113,356	6,297,207
Value.....	\$23,151,296	\$10,523,579	.....
Slippers:			
Number of pairs.....	817,240	312,334	1,165,117
Value.....	\$2,488,601	\$708,109	.....
Infants' shoes and slippers:			
Number of pairs.....	4,324,866	4,117,042	(*)
Value.....	\$6,152,612	\$1,968,855	.....
All other footwear:			
Number of pairs.....	565,758	27,535	4,792,028
Value.....	\$598,485	\$20,390	.....
All other products, including amount received for work done for others, value....	\$625,247	\$506,962	.....

* Aggregate value only reported in 1909. * Included in "all other footwear."

Though the manufacture of boots, shoes, and slippers is not one of the leading industries of the state of Pennsylvania, it is prominent among the many industries in the state. There was a slight increase in the number of pairs of boots and shoes produced in 1919 as compared with 1914. This is in strong contrast with the large increase shown for the previous

five-year period. Of the different classes of footwear reported, men's and women's both show a gain, while boys' and youths', and misses' and children's show a loss for the census period 1914–1919. More than one-half of the total number of pairs of shoes reported were misses' and children's. Slippers, infants' shoes and slippers, other footwear, and other products, all show increases over 1914. All other footwear includes sandals, moccasins, and canvas and athletic shoes.

Table 34 gives the various classes of footwear produced in 1919, classified according to the method of manufacture, 1919 and 1914.

Welted shoes formed 39.5 per cent of the total for the state in 1919 as against 27.2 per cent in 1914. Turned shoes formed 30.5 per cent of the total in 1919 and 39.4 per cent in 1914, and McKay 28.5 and 30.5 per cent, respectively. Only a few wood or metal fastened shoes were reported, these representing but 1.4 per cent of the total in 1919 and less than 3 per cent in 1914. Practically all the turned and more than 50 per cent of the McKay's were misses' and children's. Nearly 90 per cent of all other footwear was turned.

TABLE 34.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

CLASS.	Census year.	Total.	Welted.	Turned.	McKay.	Wood or metal fastened.
Boots and shoes....	1919	17,909,498	7,081,137	5,463,726	5,106,379	258,256
	1914	17,717,591	4,823,414	6,981,379	5,404,468	508,332
Men's.....	1919	2,117,680	1,682,322	.....	1,192,630	242,728
	1914	1,697,909	1,236,963	.....	2,51,732	409,214
Boys' and youths'.....	1919	1,192,017	669,644	.....	506,845	15,523
	1914	1,230,694	327,077	.....	804,499	99,118
Women's.....	1919	3,899,766	2,167,815	355,635	1,346,316	.....
	1914	3,672,692	1,979,191	416,222	1,277,249	.....
Misses' and children's.....	1919	10,730,035	2,561,356	5,108,091	3,060,588	.....
	1914	11,113,356	1,280,183	6,565,157	3,271,016	.....
All other footwear..	1919	5,707,894	84,603	5,060,121	583,140	.....
	1914	4,466,011	.....	4,102,005	364,006	.....

¹ Includes "Stitchdown."

² Includes "Turned."

³ Includes "Wood or metal fastened."

⁴ Includes "Wood or metal fastened" and "Stitchdown."

⁵ Includes "Welted."

Chemical industries. (Table 35).—This table presents the statistics of products for the chemical industries, 1919, 1914, and 1909. The state ranks third in the industry, being exceeded by New York and New Jersey.

The production, 1919, comprises all products reported by 79 establishments engaged primarily in the manufacture of chemicals, including those of coal-tar origin and sulphuric, nitric, and mixed acids, amounting to \$85,242,700 and chemicals to the value of \$9,403,319 manufactured by establishments included under other industry classifications. In 1914 there were 45 establishments in the classified industries constituting the group, and in 1909, 43 establishments. There was an increase of 280 per cent in the value of all products for the period 1914–1919, and 32 per cent for 1909–1914.

TABLE 35.—CHEMICAL INDUSTRIES: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$94,686,019	\$24,909,204	\$18,813,785
The classified industries:			
Chemicals.....	73,332,932	22,387,835	15,978,162
Coal-tar products.....	9,492,331		
Sulphuric, nitric, and mixed acids.....	11,870,756		
Subsidiary chemical products from other industries.....		2,521,459	2,835,623
Acids.....	12,924,582	4,456,542	3,158,940
Alums, aluminum, and compounds.....	3,479,866	1,362,367	1,390,383
Compressed and liquefied gases.....	3,460,121	1,545,857	931,388
Bleaching compounds.....	147,536	(¹)	(¹)
Sodas, sodium and compounds.....	2,600,426	1,129,863	1,076,592
Other chemicals.....	62,277,416	14,020,801	12,011,487
All other products.....	9,806,022	2,393,874	244,995

¹ Not reported separately.

Petroleum, refining (Table 36).—This table shows the cost of materials, the quantity and value of the principal products, and details of the equipment reported in 1919, 1914, and 1909. Measured by value of products, Pennsylvania ranked fourth among the states in the petroleum-refining industry in 1919, being exceeded by New Jersey, Texas, and California.

From 1914 to 1919 the total cost of materials increased \$90,596,711, or 204.1 per cent, and the value of products \$125,950,531, or 238.2 per cent. The quantity of crude petroleum used as material increased from 17,523,078 barrels of 42 gallons to 28,832,738 barrels, or 64.5 per cent. More than one-half of the crude petroleum used (55 per cent) was from the Appalachian field (Pennsylvania grade); 19.5 per cent was Mid-Continent; 24.3 per cent, Gulf and Mexican; and 1.2 per cent, Illinois.

The total production of refined oils in 1919 was 22,134,606 barrels, of which fuel oils constituted 33.6 per cent; naphtha, gasoline, etc., 28.6 per cent; illuminating oils, 20.7 per cent, and lubricating oils, 17.1 per cent. In 1914 the production of refined oils was 13,526,498 barrels, of which illuminating oils formed 38.5 per cent; lubricating oils, 23.6 per cent; fuel oils, 20.7 per cent; and gasoline and naphtha, 17.2 per cent. There was an increase in the production of refined oils from 1914 to 1919 amounting to 8,608,108 barrels, or 63.6 per cent.

TABLE 36.—PETROLEUM, REFINING: 1919, 1914, AND 1909.

MATERIALS.	1919	1914	1909
Total cost.....	\$134,981,205	\$44,384,494	\$47,440,316
Crude petroleum:			
Barrels (42 gallons).....	28,832,738	17,523,078	21,893,871
Cost.....	\$96,673,255	\$35,111,351	\$38,914,307
Distillates, purchased and re-run:			
Barrels (42 gallons).....	1,413,184	367,841	(¹)
Cost.....	\$9,156,152	\$1,141,044	(¹)
Casing-head gasoline, purchased:			
Barrels (42 gallons).....	836,996	(¹)	(¹)
Cost.....	\$9,027,516	(¹)	(¹)
Sulphuric acid, purchased:			
Tons.....	65,246		
Cost.....	\$1,139,514	\$510,334	\$728,813
Other chemicals and filtering material, cost.	\$1,060,082		
Containers and materials therefor:			
Wooden, cost.....	\$6,005,384	\$2,839,811	\$3,229,016
Metal, cost.....	\$1,866,669	\$955,345	\$1,252,524
All other materials, including fuel and rent of power, cost.....	\$10,553,633	\$3,826,609	\$3,315,656

¹ Figures not available.

TABLE 36.—PETROLEUM, REFINING, 1919, 1914, AND 1909—Con.

PRODUCTS.	1919	1914	1909
Total value.....	\$178,825,632	\$52,875,101	\$53,083,190
Naphthas and lighter products:			
Gasoline—			
Gallons.....	119,612,045	101,188,650	102,555,900
Value.....	\$29,408,487	\$10,073,541	
Naphtha—			
Gallons.....	189,275,218		\$8,063,576
Value.....	\$38,639,214	14,932,800	
Benzine, etc.—			
Gallons.....	7,309,744	\$1,147,484	
Value.....	\$1,046,877		
Illuminating oils:			
Gallons.....	229,090,786	260,598,600	432,974,400
Value.....	\$26,415,718	\$15,083,873	\$24,319,743
Fuel oils:			
Distillates—			
Gallons.....	107,187,532		
Value.....	\$6,401,354		
Gas oils—			
Gallons.....	62,523,984	139,681,800	135,603,650
Value.....	\$3,910,856	\$4,595,695	\$3,207,308
Residual fuel oil—			
Gallons.....	201,891,499		
Value.....	\$5,873,496		
Lubricating oils:			
Pale or paraffin—			
Gallons.....	2,261,754		
Value.....	\$4,276,462		
Red or neutral—			
Gallons.....	37,858,148		
Value.....	\$9,216,628	159,923,050	156,246,050
Cylinder oils—			
Gallons.....	47,954,439	\$16,722,418	\$12,965,591
Value.....	\$13,105,590		
All other—			
Gallons.....	101,767,537		
Value.....	\$25,758,416		
Partly refined oils sold for re-running:			
Gallons.....	10,082,161	(¹)	(¹)
Value.....	\$1,172,855	(¹)	(¹)
Liquid asphaltic road oils and residuum or tar:			
Gallons.....	2,877,870	4,917,150	1,935,050
Value.....	\$161,156	\$211,796	\$92,988
Greases, petrolatum, lubricating and axle:			
Gallons.....	5,134,858	4,026,800	878,550
Value.....	\$2,510,366	\$912,938	\$108,616
Paraffin wax:			
Gallons.....	11,814,536	11,497,200	16,340,450
Value.....	\$5,527,370	\$1,557,446	\$2,456,178
Asphalt, other than liquid asphalt:			
Tons (2,000 pounds).....	193,131		
Value.....	\$2,214,219		
Coke:			
Tons.....	41,217	\$2,570,000	\$1,874,200
Value.....	\$578,564		
Other special products, value.....	\$1,213,706		
All other products, value.....	\$1,394,298		
EQUIPMENT.			
Stills:			
Steam—			
Number.....	159	141	108
Capacity (gallons).....	3,890,763	3,401,874	7,254,072
Fire—			
Number.....	572	548	471
Capacity.....	14,384,014	13,873,314	23,991,828
Pressure—			
Number.....	60		
Capacity.....	914,400		
Storage tanks:			
Crude petroleum—			
Number.....	252	185	118
Capacity (gallons).....	105,347,011	76,891,656	64,429,951
Refined petroleum products—			
Number.....	1,930	2,135	
Capacity.....	160,496,458	140,147,570	
Fuel oil—			
Number.....	286	79	2,138
Capacity.....	55,835,915	18,287,639	224,531,444
Other storage tanks:			
Number.....	1,995	1,127	
Capacity.....	225,425,653	88,080,237	

¹ Figures not available.

Coke (Table 37).—This table presents the statistics for the coke industry for 1919, 1914, and 1909. The state leads with 37.8 per cent of the total value of products for the United States in 1919, 43.3 per cent in 1914, and 54.1 per cent in 1909. The industry was represented by 123 establishments in 1919, 108 in 1914, and 146 in 1909. The value of all products in 1919, namely, \$119,730,589, comprises \$70,169,342 reported by 112 beehive-oven establishments and \$49,561,247 by 11 by-product oven plants.

The value of all products in 1919 shows an increase of 178 per cent over that for 1914, whereas 1914 decreased 17 per cent compared with 1909.

The figures for coke and coal consumption are compiled by the United States Geological Survey. The increase in total coke production, 1914-1919, was but 1.2 per cent, resulting from a decrease of 3,439,067 tons in beehive coke and an increase of 3,682,505 tons in by-product coke. In 1909 by-product oven coke constituted 7.8 per cent of the total coke production; in 1914, 10.8 per cent; and in 1919, 28.6 per cent.

TABLE 37.—COKE, NOT INCLUDING GAS-HOUSE COKE: 1919, 1914, AND 1909.

(Net tons.)

	1919	1914	1909
PRODUCTS.			
Total value.....	\$119,730,589	\$42,996,443	\$51,816,449
Coke, tons.....	20,501,831	20,258,393	24,905,525
Value.....	\$102,902,920	\$42,447,886	\$50,377,035
Average value, ton.....	\$5.00	\$2.10	\$2.02
Made in—			
Beehive ovens—			
Tons.....	14,634,990	18,074,057	22,966,105
Value.....	\$69,861,837	\$35,877,910	\$46,315,189
Retort or by-product ovens—			
Tons.....	5,866,841	2,184,336	1,939,420
Value.....	\$33,041,083	\$6,569,976	\$5,061,846
Balance, including by-products, etc.,			
Value.....	\$16,827,669	\$548,557	\$1,439,414
MATERIALS.			
Coal charged into ovens, tons.....	30,957,032	30,286,961	36,983,568
Run of mine:			
Unwashed, tons.....	27,172,342	25,568,962	31,712,482
Washed, tons.....	2,577,741	2,135,754	2,278,927
Slack:			
Unwashed, tons.....	236,649	465,927	1,016,576
Washed, tons.....	970,300	2,118,318	1,975,583
EQUIPMENT.			
Ovens, number at end of year.....	50,225	54,075	54,506
Beehive ovens.....	147,379	52,553	53,210
Retort or by-product ovens.....	2,846	1,522	1,295

¹ Of these, 24,201 were active.

² Of these, 2,281 were active.

Glass (Table 38).—This table shows the quantity and value of the different classes of building glass and the value of pressed and blown glass, and of bottles and jars, and of all other products, for 1919, 1914, and 1909.

In 1919 Pennsylvania reported 30.7 per cent of the total value of glass manufactured in the United States. The total value of glass produced in this state represents an increase of 102.2 per cent over 1914. Window glass, the product of chief value among those for use in building, decreased 21.4 per cent in quantity, but increased 107.4 per cent in value over 1914. Obscured glass and plate glass also show decreased production with increased values during the same period. The total value of pressed and blown glass increased 86.1 per cent, and that of bottles and jars 69.3 per cent, over 1914. Of the 102 establishments engaged in the manufacture of glass in the state in 1919, 40 produced building glass, 34 pressed and blown glass, and 35 bottles, jars, etc. Pennsylvania ranked first in the manufacture of building glass and pressed and blown glass, and second in the production of bottles and jars.

TABLE 38.—GLASS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$80,479,752	\$39,797,822	\$32,817,936
Building glass, value.....	\$39,613,933	\$18,968,873	\$14,058,649
Window glass—			
Square feet.....	151,932,372	193,392,492	181,772,460
Value.....	\$17,861,533	\$8,613,703	\$5,786,591
Obscured glass—			
Square feet.....	17,217,490	23,114,813	10,792,914
Value.....	\$2,263,175	\$1,254,911	\$543,019
Plate glass—			
Square feet.....	28,928,306	33,615,943	31,992,783
Value.....	\$18,073,151	\$8,192,576	\$8,245,821
Wire glass—			
Square feet.....	7,884,730	7,219,018	(¹)
Value.....	\$1,318,590	\$586,120	
All other, value.....	\$97,484	\$321,563	\$383,218
Pressed and blown glass, value.....	\$20,923,793	\$11,241,495	\$9,847,228
Bottles and jars, value.....	\$15,120,155	\$8,930,255	\$7,778,787
All other products, value.....	\$4,821,871	\$657,199	\$233,272

¹ Reported as skylights.

² Not reported separately.

Paints and varnishes (Table 39).—This table gives the product statistics for the paint and varnish industries combined for 1919, 1914, and 1909. These data represent 104 establishments in 1919, 88 engaged primarily in the manufacture of paints and 16 in the manufacture of varnishes, as compared with 114 in 1914 (91 paints and 23 varnishes) and 1909.

TABLE 39.—PAINTS AND VARNISHES: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$38,845,266	\$16,004,616	\$14,019,744
Paint industry.....	\$35,747,820	\$14,207,095	\$14,019,744
Varnish industry.....	\$3,097,446	\$1,797,521	
Pigments.....	\$12,161,865	\$3,248,837	\$3,055,741
Paints.....	\$15,261,311	\$6,915,720	\$6,312,892
In paste form, ground in oil—			
White lead—			
Pounds.....	28,837,497	41,526,000	32,401,207
Value.....	\$3,252,483	\$2,470,052	\$1,995,179
All other—			
Pounds.....	15,320,321	29,936,997	29,741,101
Value.....	\$1,687,695	\$1,583,668	\$1,600,481
In oil, ready mixed for use—			
Gallons.....	5,055,630	3,099,504	3,083,523
Value.....	\$10,341,233	\$2,862,000	\$2,708,202
Varnishes and japans.....	\$3,557,382	\$2,056,205	\$1,814,551
Oleoresinous varnishes—			
Gallons.....	1,603,725	454,323	397,010
Value.....	\$1,419,140	\$388,029	\$356,105
Spirit varnishes, not turpentine—			
Gallons.....	135,386	196,892	72,567
Value.....	\$259,474	\$180,969	\$93,945
Damar and similar turpentine and benzine varnishes—			
Gallons.....	429,204	309,268	502,987
Value.....	\$492,851	\$285,705	\$309,029
Drying japans and dryers—			
Gallons.....	1,024,305	1,610,416	
Value.....	\$688,713	\$597,503	2,199,656
Baking japans and lacquers—			
Gallons.....	98,087	1,410,190	\$800,082
Value.....	\$77,023	\$234,457	
All other varnishes and japans.....	\$820,181	\$369,602	\$255,390
Fillers:			
Liquid—			
Gallons.....	92,584		
Value.....	\$165,145		
Dry or in paste—			
Pounds.....	4,229,397	\$688,804	\$498,517
Value.....	\$508,681		
Putty—			
Pounds.....	6,729,081		
Value.....	\$362,221		
Water paints and kalsomine:			
Dry or in paste—			
Pounds.....	1,301,477	265,499	
Value.....	\$48,348	\$12,870	\$712,592
Mixed for use, value.....	\$4,030	\$6,966	
All other products, value.....	\$6,776,283	\$3,076,154	\$1,625,481

¹ In addition, products within the scope of these industries to the value of \$19,155,537 were reported as subsidiary products by establishments engaged primarily in the manufacture of other products.

There was a large production of pigments in 1919, chiefly zinc oxide and lithopone, reported by establishments included under other industry classifications. The aggregate value of products within the scope of the paint and varnish industries, but manufactured by establishments engaged primarily in the manufacture of other commodities, was \$19,155,537.

Slaughtering and meat packing (Table 40).—This table presents for the last three census periods, 1919, 1914, and 1909, the number and cost of all classes of animals slaughtered; the cost of all other materials, which includes that for poultry, dressed meat purchased for curing, cottonseed oil for making lard compounds and substitutes, butter and whole milk for making oleomargarine, materials for making ice, curing materials, seasoning, refrigeration, containers, fuel, rent of power, mill supplies, and freight; and the quantity and value of the most important products that can be presented without disclosing individual operations. The value of the minor and auxiliary specified products are grouped under "All other products," and include canned goods, canned sausage, lard compounds and substitutes, oleomargarine, hoofs, horns, horntips, strips and waste, skins (other than cattle, calf, and sheep), hog and cattle hair, ice, butter, cheese, sauerkraut, and smoked fish.

TABLE 40.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$107,281,016	\$57,004,689	\$44,247,494
Animals slaughtered.....	\$89,053,602	\$48,683,071	\$36,028,960
Beeves—			
Number.....	257,608	236,949	252,897
Cost.....	\$31,077,651	\$19,340,197	\$14,997,080
Calves—			
Number.....	164,415	115,446	152,851
Cost.....	\$4,196,823	\$1,665,435	\$1,764,473
Sheep and lambs—			
Number.....	284,397	436,881	445,471
Cost.....	\$3,186,744	\$2,356,180	\$2,332,533
Hogs—			
Number.....	1,663,910	1,573,974	1,222,880
Cost.....	\$50,562,444	\$25,321,253	\$16,634,874
All other materials, cost.....	\$18,227,354	\$8,921,618	\$8,218,534
PRODUCTS.			
Total value.....	\$122,862,240	\$65,191,272	\$51,106,708
Fresh meat.....	\$59,545,422	\$33,996,556	\$23,161,259
Beef—			
Pounds.....	127,315,710	130,759,894	136,838,202
Value.....	\$27,003,661	\$16,693,646	\$13,072,530
Veal—			
Pounds.....	13,641,334	9,967,655	13,405,455
Value.....	\$3,588,895	\$1,529,528	\$1,671,022
Mutton and lamb—			
Pounds.....	10,846,638	16,142,452	17,316,377
Value.....	\$3,007,865	\$2,146,594	\$2,149,700
Pork—			
Pounds.....	81,045,097	91,731,888	50,210,292
Value.....	\$24,441,891	\$12,754,612	\$6,072,517
Edible offal and all other fresh meat:			
Pounds.....	12,598,016	12,319,073	3,189,364
Value.....	\$1,413,110	\$372,176	\$195,490
Cured meat:			
Beef, pickled and other cured—			
Pounds.....	4,447,058	2,853,323	2,765,672
Value.....	\$1,332,997	\$690,103	\$448,471
Pork, pickled and other cured—			
Pounds.....	66,306,393	83,007,657	78,559,883
Value.....	\$22,259,787	\$12,174,586	\$11,116,844
Sausage:			
Pounds.....	51,474,642	40,660,673	42,569,651
Value.....	\$12,763,130	\$5,719,326	\$4,677,079

TABLE 40.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909—Continued.

	1919	1914	1909
PRODUCTS—continued.			
Meat puddings, headcheese, etc.:			
Pounds.....	14,314,890	18,793,774	(¹)
Value.....	\$2,639,148	\$2,018,687	(¹)
Lard:			
Pounds.....	40,055,529	47,191,604	36,121,032
Value.....	\$10,693,649	\$5,156,619	\$4,522,249
Oleo and other oils:			
Gallons.....	322,092	504,708	679,938
Value.....	\$687,730	\$358,258	\$536,841
Tallow, oleo stock, and stearin:			
Pounds.....	10,239,222	7,911,300	8,965,706
Value.....	\$1,630,413	\$572,439	\$682,423
Grease and soap stock:			
Pounds.....	6,756,712	2,828,369	(¹)
Value.....	\$816,621	\$121,463	(¹)
Casings:			
Pounds.....	1,836,855	717,482	(¹)
Value.....	\$518,157	\$165,051	(¹)
Fertilizer and fertilizer materials:			
Tons.....	10,596	11,298	9,973
Value.....	\$423,441	\$350,718	\$190,762
Hides and pelts:			
Cattle—			
Number.....	257,608	236,949	
Pounds.....	16,028,945	15,573,857	
Value.....	\$4,952,465	\$2,544,896	3,087,448
Calf—			
Number.....	157,180	115,005	19,170,659
Pounds.....	1,723,471	1,348,226	\$2,426,372
Value.....	\$1,106,269	\$243,049	
Sheep—			
Number.....	228,030	436,880	444,480
Value.....	\$610,414	\$433,704	\$455,030
All other products, value.....	\$2,832,597	\$645,817	\$2,889,375

¹ Not reported separately.

The growth of the industry, as indicated by the number of animals slaughtered in the last census period, was slight, as there were only 159,564 more beeves, calves, and hogs in 1919 than in 1914, and sheep and lambs decreased 152,484. There was an actual decrease in the meat production as the beeves, calves, and hogs slaughtered in 1919 were lighter weight than in 1914. The average gross weight of beeves was 1,083 in 1914 and 1,007 in 1919; of calves, 152 in 1914 and 145 in 1919; and of hogs 180 in 1914 and 174 in 1919. The production of fresh and cured meat, including sausage, in 1919 was 367,677,888 pounds, and in 1914, 387,451,315 pounds. a decrease of 19,773,427 pounds, or 5.1 per cent.

Owing to this, Pennsylvania lost four points in value of products in the slaughtering and meat-packing industry in the United States. In 1914 the state ranked seventh and in 1919 eleventh.

Flour-mill and gristmill products (Table 41).—This table shows the kinds, quantities, and values of the different products of these mills in 1919, 1914, and 1909.

Of the total value of products for the industry in the state, wheat flour formed 53 per cent in 1919 and 45.4 per cent in 1914. Bran and middlings and feed and offal combined formed 36.3 per cent and 39.9 per cent, respectively, for the two years. Illustrative of the high prices of commodities in 1919 as compared with 1914, the value of wheat flour produced increased 86 per cent, while the quantity decreased 16.7 per cent during the five-year period.

TABLE 41.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$69,446,449	\$43,626,356	\$44,782,558
Wheat flour:			
Barrels.....	3,312,713	3,975,031	3,749,842
Value.....	\$36,821,709	\$19,795,116	\$20,150,978
Rye flour:			
Barrels.....	163,922	151,877	154,679
Value.....	\$1,539,631	\$666,000	\$628,999
Buckwheat flour:			
Pounds.....	27,331,935	36,830,070	50,760,000
Value.....	\$1,576,265	\$1,077,717	\$1,289,949
Barley meal:			
Pounds.....	504,775	270,364	196,800
Value.....	\$20,534	\$5,762	\$2,776
Corn meal and corn flour:			
Barrels.....	271,435	700,299	767,462
Value.....	\$2,051,136	\$2,599,596	\$2,369,701
Hominy and grits:			
Pounds.....	10,587,605	51,981,949	52,105,637
Value.....	\$226,744	\$939,878	\$796,433
Bran and middlings:			
Tons.....	139,565	182,626	
Value.....	\$7,239,864	\$4,642,020	649,636
Feed and offal:			
Tons.....	299,597	404,928	\$18,071,809
Value.....	\$18,002,515	\$12,760,946	
All other cereal products, value.....	\$1,604,509	\$715,260	\$422
All other products, value.....	\$363,542	\$514,061	\$1,471,991

Butter, cheese, and condensed milk (Table 42).—This table presents the principal products of the industry for 1919, 1914, and 1909. The total value of all products from 1914 to 1919 increased \$28,876,962, or 184.1 per cent, this increase being due principally to the growth of the condensed and evaporated milk branch of the industry, which shows a gain from 1914 to 1919 of 115,242,767 pounds, or 165.3 per cent, in quantity, and \$20,735,149, or 467.4 per cent, in value.

TABLE 42.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$44,564,261	\$15,087,290	\$13,544,065
Butter:			
Pounds.....	14,589,601	23,985,125	30,484,217
Value.....	\$9,546,875	\$7,738,208	\$9,613,290
Packed solid—			
Pounds.....	4,225,240	7,221,417	9,283,220
Value.....	\$2,588,710	\$2,099,201	\$2,741,957
Prints or rolls—			
Pounds.....	10,364,352	16,763,708	21,200,997
Value.....	\$6,958,169	\$5,639,007	\$6,871,342
Cheese:			
Pounds.....	15,438,708	14,808,573	11,234,037
Value.....	\$3,727,997	\$1,518,862	\$1,414,890
Full cream—			
Pounds.....	5,616,896	8,541,623	9,423,849
Value.....	\$1,771,166	\$1,277,197	\$1,314,704
Part cream—			
Pounds.....	375,988	3,455,599	490,685
Value.....	\$61,128	\$133,723	\$42,921
Other kinds—			
Pounds.....	9,445,824	2,811,351	1,319,503
Value.....	\$1,895,703	\$107,942	\$57,265
Condensed milk:			
Pounds.....	99,069,149	62,182,447	26,461,384
Value.....	\$14,546,424	\$3,957,069	\$1,481,413
Sweetened—			
Pounds.....	75,037,173	16,412,103	10,777,613
Value.....	\$11,592,482	\$1,196,528	\$738,399
Unsweetened—			
Pounds.....	24,031,976	45,770,344	
Value.....	\$2,953,942	\$2,760,541	15,683,771
Evaporated milk:			
Pounds.....	85,882,535	7,626,470	\$743,014
Value.....	\$10,625,006	\$479,212	
Cream sold:			
Pounds.....	8,558,286	8,791,734	4,754,954
Value.....	\$2,010,512	\$970,939	\$531,432
All other butter, cheese, and condensed-milk factory products, value.....	\$4,045,838	\$993,886	
All other products, value.....	\$61,559	\$29,123	\$503,031

¹ In addition, in 1919, butter valued at \$826,108; cheese valued at \$18,876; casein valued at \$6,231; and powdered milk valued at \$6,232 were manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

In 1919 the value of condensed and evaporated milk combined formed 56.5 per cent of the total value of products of the industry. During the five-year period 1914-1919 the value of butter increased 23.4 per cent, while the quantity decreased 39.2 per cent.

Electrical machinery, apparatus, and supplies (Table 43).—This table shows the value of the various kinds of electrical machinery, apparatus, and supplies manufactured in 1919, so far as they can be shown without disclosing the operations of individual establishments. The state ranked third in total value of products for the industry for the United States.

TABLE 43.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: 1919.

PRODUCT.	Value.
Total.....	\$132,673,866
Motors.....	28,443,842
Batteries.....	12,170,126
Transformers and feeder potential regulators.....	11,418,900
Conduits, interior.....	9,322,887
Switchboards, panel boards, and cut-out cabinets for light and power.....	5,197,725
Magnetoignition apparatus.....	3,609,392
Insulated wire and cables.....	8,336,031
Carbons.....	1,973,764
Household and industrial apparatus and devices.....	1,504,265
Electric measuring instruments.....	1,372,809
Arc lamps.....	130,210
All other electrical machinery, apparatus, and supplies.....	30,733,494
All other products.....	11,293,629
Amount received for custom work and repairing.....	12,267,752

¹ In addition, electrical machinery, apparatus, and supplies to the value of \$3,204,080 were reported by establishments engaged primarily in other industries.

Engines, steam, gas, and water (Table 44).—This table presents the number, horsepower capacity, and value of the various types of engines manufactured in Pennsylvania in 1919 and 1914.

TABLE 44.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914.

PRODUCT.	Census year.	NUMBER BY INDICATED HORSE-POWER CAPACITY.						Indicated horsepower capacity.	Value.
		Under 10.	10 but under 50.	50 but under 100.	100 but under 500.	500 but under 1,000.	1,000 and over.		
Total.....	1919	6,162	27,518	3,359	1,282	86	1,553	4,426,378	\$35,599,683
	1914	7,650	8,089	1,426	788	73	121	1,379,582	19,645,771
The engine industry.	1919	3,564	21,594	3,050	546	60	1,437	3,107,412	52,574,026
	1914	5,918	5,530	1,299	626	44	83	958,232	11,391,872
Subsidiary products from other industries.	1919	2,598	5,924	309	736	26	116	1,318,966	23,025,657
	1914	1,732	2,559	127	162	29	38	421,350	5,263,899
Steam engines.....	1919	911	3,882	2,506	633	81	1,532	3,350,255	44,287,051
	1914	1,232	2,298	1,055	696	58	101	932,224	9,632,015
Internal combustion.	1919	5,171	22,758	803	611	.....	8	807,516	18,146,744
	1914	6,218	5,445	253	168	.....	.....	179,517	3,437,403
Automobile and aviation. ¹	1919	.....	14,922	470	520	.....	.....	557,125	9,977,996
	1914	.....	142	1,776	.....	.....	.....	45,234	323,413
Marine.....	1919	71	.....	.....	.....	.....	.....	4,395	278,874
	1914	360	215	13	44	.....	.....	9,294	181,892
Stationary and other.	1919	5,100	7,760	333	91	.....	8	245,996	7,889,874
	1914	5,716	3,454	240	164	.....	.....	124,989	2,932,098
Traction, not locomotives.....	1919	27	595	.....	.....	.....	.....	19,342	626,487
	1914	44	282	.....	.....	.....	.....	6,671	600,801

¹ Includes the groups "500 but under 1,000" and "1,000 and over."

² Can not be shown separately without disclosing individual operations.

³ Includes the group "50 but under 100."

⁴ Includes the group "1,000 and over."

TABLE 44.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914—Continued.

	Census year.	NUMBER BY INDICATED HORSE-POWER CAPACITY.						Indicated horse-power capacity.	Value.
		Under 10.	10 but under 50.	50 but under 100.	100 but under 500.	500 but under 1,000.	1,000 and over.		
Water wheels, motors, and turbines.	1919 1914	53 156	283 64	50 118	38 24	5 15	13 20	249,265 262,170	\$2,244,718 2,138,912
Other engines and parts.	1919 1914								4,247,010 1,388,079
Other foundry and machine-shop products.	1919 1914								14,773,276 1,066,831
All other products.	1919 1914								1,274,417 1,386,730

The value of products increased \$65,953,912, or 335.7 per cent, between the two periods. There was an increase of 3,046,796 horsepower, or 220.8 per cent, in the total capacity of the engines during the five-year period. The total number of engines built increased from 18,147 in 1914 to 39,960 in 1919, an increase of 21,813, or 120.2 per cent.

The general trend throughout the industry was to build the larger units. An illustration of this will be seen in the grouping of "Under 10" horsepower, where the number of engines built shows a decrease of 1,488, or 19.5 per cent, the only decrease shown for the several classes enumerated.

Brass, bronze, and copper products (Table 45).—This table shows the chief products of the industry in Pennsylvania at the censuses of 1919 and 1914. At the census of 1919, castings and machinery fittings was the product of chief value, and formed 61.1 per cent of the total value of products. Comparative figures for 1914 for this item are not available. During the five-year period 1914 to 1919 the value of ingots and bars increased \$4,331,533, or 188.6 per cent.

TABLE 45.—BRASS, BRONZE, AND COPPER PRODUCTS: 1919 AND 1914.

	1919	1914
Total value ¹	\$33,496,320	\$9,779,626
Ingots and bars.....	6,628,361	2,296,828
Plates and sheets.....	1,966,239	1,212,244
Rods.....	358,549	112,115
Tubing:		
Seamless.....	355,656	117,908
Braze.....	122,487	105,605
Castings and machinery fittings.....	20,453,755	(²)
Lamps.....	39,223	43,631
Electrical supplies.....		33,073
Other hardware and trimmings.....	580,396	90,318
All other brass, bronze, and copper products.....	1,230,943	5,057,276
All other products.....	1,760,711	710,628

¹ In addition, brass, bronze, and copper products to the value of \$11,045,860 were reported in 1919, and \$5,620,397 in 1914, by establishments engaged primarily in other industries.

² Not reported separately.

Paper and wood pulp (Table 46).—This table shows the quantity and cost of the principal materials used in the industry, the quantity and value of the chief products, and detailed information regarding equipment for 1919, 1914, and 1909.

Wood used in the manufacture of pulp was distributed as follows: Spruce, 121,653 cords; pine, 90,733 cords; poplar, 45,633 cords; and other woods, including beech, birch, maple, etc., gum, balsam, and hemlock, 110,851 cords; and slabs and other mill waste, 54,952 cords.

TABLE 46.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$35,643,118	\$10,046,557	\$11,398,311
Pulp wood:			
Cords.....	423,822	375,730	(¹)
Cost.....	\$6,873,612	\$3,234,665	\$2,111,025
Wood pulp, purchased:			
Tons.....	61,485	70,142	41,062
Cost.....	\$5,623,303	\$2,980,909	\$1,773,494
Ground—			
Tons.....	3,946	9,960	6,942
Cost.....	\$165,291	\$242,579	\$163,187
Soda fiber—			
Tons.....	7,714	9,971	3,408
Cost.....	\$801,935	\$412,240	\$151,337
Sulphite fiber—			
Tons.....	40,527	40,009	30,712
Cost.....	\$4,061,665	\$1,931,312	\$1,458,970
Sulphate fiber—			
Tons.....	8,140	10,202	(¹)
Cost.....	\$753,537	\$394,778	(¹)
Screenings, mechanical and chemical—			
Tons.....	1,158		
Cost.....	\$40,875		
Rags, including cotton and flax waste and sweepings:			
Tons.....	55,238	63,975	64,654
Cost.....	\$3,225,995	\$1,312,991	\$1,226,978
Paper stock, including high-grade shavings and old and waste paper:			
Tons.....	163,932	125,171	106,150
Cost.....	\$2,986,835	\$1,329,385	\$1,208,705
Manila stock, including jute bagging, rope, waste, threads, etc.:			
Tons.....	8,747	7,741	9,544
Cost.....	\$731,818	\$392,625	\$327,212
China clay, domestic and foreign:			
Tons.....	29,106	(¹)	(¹)
Cost.....	\$448,536	(¹)	(¹)
Bleaching powder:			
Tons.....	21,774	(¹)	(¹)
Cost.....	\$718,126	(¹)	(¹)
Fuel and rent of power, cost.....	\$4,595,489	\$1,774,270	\$1,544,116
All other materials, cost.....	\$10,439,404	\$5,021,212	\$3,206,721
PRODUCTS.			
Total value.....	\$64,715,767	\$25,439,346	\$10,872,717
Book paper (plain, coated, cover, and plate):			
Tons.....	108,543	124,665	80,439
Value.....	\$17,393,388	\$9,703,171	\$8,442,043
Fine paper:			
Tons.....	51,249	43,508	(²)
Value.....	\$10,771,047	\$4,102,362	(²)
Wrapping paper:			
Tons.....	75,351	73,371	63,995
Value.....	\$8,611,889	\$4,243,294	\$3,954,578
Heavy (mill wrappers, etc.)—			
Tons.....	31,167	18,369	36,619
Value.....	\$3,157,708	\$827,059	\$1,777,450
Kraft—			
Tons.....	23,351	(³)	(³)
Value.....	\$3,121,783	(³)	(³)
All other—			
Tons.....	20,833	55,002	27,375
Value.....	\$2,332,398	\$3,416,235	\$2,177,128
Tissue paper:			
Tons.....	17,219	9,911	(²)
Value.....	\$5,159,806	\$726,009	(²)
Boards:			
Tons.....	109,634	66,376	53,966
Value.....	\$5,044,155	\$1,996,006	\$1,406,309
Building, roofing, asbestos, and sheathing paper:			
Tons.....	63,716	55,273	60,168
Value.....	\$5,202,680	\$2,078,120	\$1,937,000
All other paper:			
Tons.....	15,272	8,046	55,632
Value.....	\$3,289,973	\$414,197	\$4,695,994
Wood pulp made for sale or for consumption in mills other than those in which produced:			
Tons.....	30,439	28,652	16,589
Value.....	\$2,566,422	\$1,133,039	\$683,610
All other products, value.....	\$9,075,808	\$1,043,139	\$753,183
Wood pulp produced (including that used in mills where manufactured), total tons.	215,686	178,127	136,850
Soda fiber, tons.....	125,489	99,845	80,776
Sulphite fiber, tons.....	86,013	73,401	(¹)
All other (ground and screenings), tons.	4,184	4,881	56,074

¹ Not reported separately.

² Included in "All other paper."

³ Included in "All other wrapping paper."

⁴ Included in "All other wood pulp."

TABLE 46.—PAPER AND WOOD PULP: 1919, 1914, AND 1909—Con.

	1919	1914	1909
EQUIPMENT.			
Paper machines:			
Total number.....	142	128	126
Capacity, yearly, tons.....	600,083	501,255	419,207
Fourdrinier—			
Number.....	80	76	68
Capacity, per 24 hours, tons.....	1,044	989	736
Cylinder—			
Number.....	62	52	58
Capacity, per 24 hours, tons.....	952	670	706
Pulp equipment:			
Grinders, number.....	4	4	5
Digestors, number.....	106	103	105
Soda fiber.....	85	80	83
Sulphite fiber.....	21	23	22
Capacity, yearly, tons of pulp.....	226,785	205,972	169,961
Ground, tons.....	4,820	4,150	16,908
Soda, tons.....	127,487	117,144	87,903
Sulphite, tons.....	94,478	84,678	65,150

The item "All other materials" includes chemicals, sizing, sulphur, dyestuffs, and mill supplies.

Book paper (plain, coated, cover, and plate) was the leading product of the industry in the state in 1919, as well as at the two preceding censuses, representing 26.9 per cent of the total value of products in 1919, 38.1 per cent in 1914, and 32.4 per cent in 1909. Fine paper was the next in importance, representing 16.6 per cent of the total value of products in 1919.

To avoid disclosing operations of individual establishments, poster paper, hanging paper, newspaper, and other grades are included in the item "All other paper."

Laundries (Table 47).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 47, however, summarizes the statistics for such laundries in Pennsylvania for 1919 and 1914.

TABLE 47.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1914-1919.
	1919	1914	
Number of establishments.....	351	396	-11.4
Persons engaged.....	9,956	11,831	-15.8
Proprietors and firm members.....	369	447	-17.4
Salaried employees.....	1,003	974	3.0
Wage earners (average number).....	8,584	10,410	-17.5
Primary horsepower.....	13,760	12,602	9.2
Capital.....	\$10,942,553	\$8,160,248	34.1
Salaries and wages.....	7,180,182	5,120,647	40.2
Salaries.....	1,459,390	884,289	65.0
Wages.....	5,720,792	4,236,358	35.0
Paid for contract work.....	60,685	35,041	73.2
Rent and taxes.....	373,946	209,277	78.7
Cost of materials.....	3,078,721	1,848,109	66.6
Amount received for work done.....	14,351,068	10,225,004	40.4

¹ A minus sign (-) denotes decrease.

Dyeing and cleaning (Table 48).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries since 1900. This presentation is the first of its kind that has been made since

the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 48.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	142
Persons engaged.....	1,782
Proprietors and firm members.....	165
Salaried employees.....	267
Wage earners (average number).....	1,320
Primary horsepower.....	1,697
Capital.....	\$2,711,626
Salaries and wages.....	1,682,341
Salaries.....	401,361
Wages.....	1,280,980
Paid for contract work.....	17,270
Rent and taxes.....	184,228
Cost of materials.....	1,052,188
Amount received for work done.....	3,883,875

Custom gristmills and custom sawmills (Tables 49 and 50).—Statistics for custom mills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914.

Tables 49 and 50 summarize the statistics for custom mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed and that for custom gristmills the selling value of the grain milled.

TABLE 49.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	303	539	-27.1
Persons engaged.....	588	773	-23.9
Proprietors and firm members.....	468	611	-25.0
Salaried employees.....	7	7	0.0
Wage earners (average number).....	123	162	-24.1
Primary horsepower.....	10,034	13,893	-23.5
Capital.....	\$2,191,034	\$1,570,025	39.6
Salaries and wages.....	104,740	47,804	119.1
Salaries.....	2,040	2,040	0.0
Wages.....	102,100	47,804	113.6
Rent and taxes.....	45,352	22,430	102.2
Cost of materials ²	3,774,138	2,578,613	46.4
Value of products ²	4,615,270	3,070,504	50.3

¹ A minus sign (-) denotes decrease.

² Includes estimate of all grain ground.

TABLE 50.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	277	207	3.7
Persons engaged.....	485	675	-28.1
Proprietors and firm members.....	339	342	-0.9
Salaried employees.....	1	1	0.0
Wage earners (average number).....	146	332	-56.0
Primary horsepower.....	6,096	5,541	10.0
Capital.....	\$407,200	\$388,201	4.9
Salaries and wages.....	101,437	108,648	-2.1
Salaries.....	101,437	108,648	-2.0
Wages.....	101,437	108,648	-2.0
Rent and taxes.....	3,538	1,367	158.8
Cost of materials.....	40,668	5,025	709.3
Amount received for work done.....	295,127	284,056	3.9

¹ A minus sign (-) denotes decrease.

GENERAL TABLES.

Table 51 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 selected industries in the state and in 10 of the cities having 50,000 or more inhabitants; and similar data for all industries combined for Bethlehem, Chester, and Lancaster, and the cities having from 10,000 to 50,000 inhabitants, for which comparative figures are available, and can be presented without disclosing individual operations.

Table 52 presents, for 1919, for the state as a whole and for cities having 50,000 or more inhabitants, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants, for which figures can be shown without disclosing individual operations.

TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	27,973	1,135,837	4,454,380	1,406,066	4,210,409	7,315,703	Carpets and rugs, other than rag.	1919	48	7,628	12,446	7,977	27,532	47,480
	1914	27,521	924,478	3,549,858	527,953	1,688,921	2,832,349		1914	83	9,509	13,586	4,798	14,466	23,100
	1909	27,563	877,543	2,921,547	455,627	1,582,560	2,626,742		1909	93	11,510	13,073	5,169	14,648	24,879
Agricultural implements..	1919	27	1,371	3,000	1,541	2,596	5,530	Carriages and wagons and materials.	1919	356	1,564	3,281	1,727	2,342	5,534
	1914	38	2,018	4,472	1,121	1,907	4,844		1914	687	6,370	10,906	3,780	5,442	12,262
	1909	30	2,401	3,842	1,223	2,082	4,805		1909	655	7,498	11,544	3,861	5,707	12,748
Artificial flowers and feathers and plumes.	1919	20	512	57	285	630	1,633	Cars and general shop con- struction and repairs by electric-railroad com- panies.	1919	80	4,122	5,199	4,673	3,116	8,306
	1914	28	802	68	301	689	1,475		1914	92	2,972	4,782	2,070	1,143	3,421
	1909	30	805	75	262	675	1,310		1909	65	2,442	4,370	1,477	1,094	2,747
Automobiles, including bodies and parts.	1919	202	14,708	23,363	18,849	76,129	113,820	Cars and general shop con- struction and repairs by steam-railroad com- panies.	1919	195	78,749	90,678	115,028	103,164	231,534
	1914	80	3,083	5,130	2,137	5,558	10,084		1914	163	54,729	77,885	88,863	49,157	93,608
	1909	44	3,199	2,746	1,808	4,051	6,532		1909	132	46,645	56,774	30,157	41,401	76,035
Babbitt metal and solder.	1919	19	233	483	313	1,738	2,446	Cars, steam-railroad, not including operations of railroad companies.	1919	15	11,675	43,044	16,738	88,867	146,879
	1914	20	157	180	101	1,159	1,510		1914	12	9,955	26,462	6,635	29,377	39,831
	1909	17	181	271	107	1,717	2,117		1909	13	7,766	31,732	4,819	19,002	27,510
Belting, leather.....	1919	17	414	597	475	3,578	5,574	Cement.....	1919	22	7,443	98,058	9,594	25,374	54,540
	1914	15	189	310	129	1,295	1,775		1914	26	7,910	132,894	4,428	15,827	29,081
	1909	17	156	363	105	1,011	1,379		1909	27	8,080	102,904	3,875	10,108	18,855
Blacking and cleansing and polishing prepara- tions.	1919	65	228	526	155	1,360	2,438	Chemicals.....	1919	56	7,134	30,334	9,854	26,781	73,333
	1914	55	185	505	81	925	1,112		1914	39	4,748	16,570	2,928	12,615	22,388
	1909	44	158	388	68	887	755		1909	37	3,185	9,771	1,892	10,200	15,978
Boots and shoes, includ- ing cut stock and find- ings.	1919	155	13,842	7,322	11,377	50,510	77,974	Chocolate and cocoa prod- ucts.	1919	10	3,231	11,025	3,531	32,262	48,060
	1914	146	13,414	6,352	6,213	17,427	28,989		1914	7	1,756	7,607	739	7,546	12,342
	1909	140	10,822	4,337	4,266	12,064	20,219		1909	6	863	2,885	324	2,955	4,811
Boxes, cigar.....	1919	52	1,496	1,560	865	1,391	3,422	Clothing, men's, includ- ing shirts.	1919	818	21,787	6,689	16,178	52,807	97,944
	1914	63	1,093	1,840	562	1,268	2,124		1914	699	21,126	6,578	8,300	20,365	40,370
	1909	77	1,801	1,818	580	1,252	2,328		1909	696	23,623	5,288	8,992	19,893	39,682
Boxes, paper and other, not elsewhere specified.	1919	150	5,209	3,188	3,300	6,609	14,003	Clothing, women's.....	1919	615	14,364	3,223	14,328	46,217	77,474
	1914	133	5,140	2,427	1,826	2,977	6,546		1914	483	17,217	3,108	8,091	20,342	37,069
	1909	118	4,604	2,121	1,472	2,290	5,184		1909	401	15,701	2,514	7,140	18,156	32,837
Brass, bronze, and copper products.	1919	125	4,053	10,577	5,161	21,427	33,496	Coffee and spice, roasting and grinding.	1919	85	522	1,783	435	11,944	14,676
	1914	107	1,940	4,578	1,260	7,123	9,780		1914	77	586	2,117	302	5,009	6,907
	1909	104	2,080	4,996	1,234	5,605	8,465		1909	84	407	1,565	207	4,361	5,689
Bread and other bakery products.	1919	2,651	16,410	20,011	17,352	83,474	132,880	Coffins, burial cases, and undertakers' goods.	1919	41	1,824	3,120	1,824	4,664	9,812
	1914	2,987	15,157	14,597	8,514	31,685	54,140		1914	32	1,382	2,066	724	2,005	8,672
	1909	3,185	12,221	10,806	6,528	27,330	45,850		1909	36	1,103	1,447	514	1,675	2,757
Brick, tile, pottery, and other clay products.	1919	325	17,765	71,409	17,916	17,864	48,407	Coke, not including gas- house coke.	1919	123	11,536	72,752	15,554	80,354	119,731
	1914	377	18,976	70,949	9,735	8,727	24,467		1914	108	9,871	36,213	6,035	29,820	42,996
	1909	465	17,061	61,389	8,238	6,562	22,297		1909	146	15,381	26,091	8,436	33,762	51,816
Brooms.....	1919	110	547	721	531	1,535	2,639	Confectionery and ice cream.	1919	839	11,010	26,742	8,954	42,530	71,120
	1914	80	514	456	264	758	1,259		1914	652	8,038	14,271	3,306	14,628	24,038
	1909	84	444	451	214	737	1,261	Cooperage and wooden goods, not elsewhere specified.	1919	115	1,419	4,088	1,481	7,149	10,632
Brushes.....	1919	40	372	267	327	1,059	1,964		1914	125	1,643	4,213	863	3,434	5,150
	1914	46	385	273	204	597	1,138		1909	133	1,630	3,681	756	2,989	4,630
	1909	55	416	360	196	518	1,043	Copper, tin, and sheet- iron products. ¹	1919	516	6,363	7,849	7,250	16,149	30,792
Butter, cheese, and con- densed milk.	1919	273	1,900	9,729	1,833	36,349	44,564		1914	481	6,818	5,989	3,826	9,151	16,686
	1914	387	1,809	7,808	745	13,017	15,687		1909	339	6,815	8,245	3,444	8,861	17,197
	1909	536	1,177	7,613	556	11,074	13,544	Cordage and twine and jute goods.	1919	27	2,763	7,558	2,464	8,261	14,362
Buttons.....	1919	24	807	789	1,013	962	2,319		1914	28	2,678	7,128	1,071	5,057	6,776
	1914	21	1,154	1,518	477	867	1,742		1909	18	2,119	4,630	685	3,001	4,805
	1909	24	1,123	858	404	746	1,565	Cork, cutting.....	1919	11	1,570	4,504	1,551	3,599	6,371
Canning and preserving ¹ .	1919	94	3,010	6,555	2,281	17,347	29,489		1914	10	1,787	2,841	824	2,094	3,722
	1914	84	3,096	4,476	1,284	7,539	14,960		1909	10	1,727	2,045	535	1,669	2,965
	1909	83	2,763	3,474	947	4,665	9,484								

¹ Includes "canning and preserving, fruits and vegetables," and "pickles, preserves, and sauces" in all years; and "canning and preserving, fish," in 1919 and 1909.

² Includes "stamped and enameled ware, not elsewhere specified" and "tinware, not elsewhere specified."

TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages. Cost of materials. Value of products.			INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages. Cost of materials. Value of products.		
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Corsets.....	1919	13	698	197	360	894	2,072	Glass, cutting, staining, and ornamenting.	1919	94	1,384	1,507	1,030	2,503	4,905
	1914	10	803	159	275	406	1,974		1914	104	2,002	1,398	949	1,687	3,444
	1909	6	433	85	136	277	724		1909	106	2,121	1,425	1,019	1,752	3,729
Cotton goods, including cotton small wares. ¹	1919	168	15,379	28,743	14,672	50,926	90,582	Glue, not elsewhere specified.	1919	7	570	2,378	748	3,103	4,778
	1914	155	14,640	23,411	6,670	17,664	32,400		1914	8	519	1,628	290	1,418	2,029
	1909	175	16,293	24,589	7,034	18,757	33,917		1909	6	506	1,951	221	1,489	2,048
Cutlery and tools, not elsewhere specified.	1919	131	5,086	12,453	5,504	6,693	18,065	Grease and tallow, not including lubricating greases.	1919	61	1,185	3,338	1,281	7,599	10,217
	1914	101	3,504	9,194	1,888	2,904	6,486		1914	50	590	1,795	358	2,332	3,130
	1909	129	4,250	11,311	2,280	3,431	8,022		1909	51	502	1,542	265	2,228	3,332
Dairymen's and poultrymen's supplies.	1919	17	689	1,287	768	1,144	2,381	Hats and caps, other than felt, straw, and wool.	1919	73	770	227	913	2,027	4,210
	1914	15	581	964	358	396	1,329		1914	66	756	113	446	861	1,759
	1909	13	650	465	345	440	1,712		1909	53	744	163	273	543	1,097
Dental goods.....	1919	56	2,853	1,000	2,124	3,276	9,300	Hats, fur-felt.....	1919	20	5,414	6,367	4,641	5,918	17,995
	1914	45	1,645	443	695	2,177	4,362		1914	27	6,714	6,241	3,934	3,880	11,011
	1909	23	1,072	427	404	1,325	2,745		1909	38	7,220	5,335	3,725	5,013	13,023
Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	163	7,381	18,140	8,121	19,715	42,475	Hats, straw.....	1919	8	223	73	205	357	845
	1914	150	6,389	14,085	3,468	8,450	15,452		1914	9	843	74	102	649	1,011
	1909	135	6,086	13,500	2,988	5,331	12,059		1909	9	460	85	214	403	872
Dyestuffs and extracts—natural.	1919	12	426	4,145	446	2,863	3,800	House-furnishing goods, not elsewhere specified.	1919	39	711	677	538	2,115	4,156
	1914	9	265	3,113	182	1,158	1,599		1914	32	599	639	207	1,294	1,832
	1909	14	369	3,516	187	1,373	2,345		1909	24	590	612	160	1,047	1,569
Electrical machinery, apparatus, and supplies.	1919	129	24,228	58,366	30,031	51,358	132,674	Ice, manufactured.....	1919	226	2,733	51,516	3,202	4,138	12,686
	1914	105	14,866	36,537	8,737	17,240	44,396		1914	189	2,124	43,937	1,280	1,453	5,194
	1909	84	11,025	33,820	6,237	13,535	31,351		1909	170	1,606	35,890	1,023	1,225	4,823
Explosives.....	1919	26	1,217	6,897	1,584	6,103	11,446	Ink, printing.....	1919	10	230	856	280	1,390	2,290
	1914	33	1,037	5,831	716	4,107	6,003		1914	9	151	341	106	823	1,052
	1909	27	1,033	4,594	630	4,088	6,388		1909	8	165	483	105	623	1,050
Fancy articles, not elsewhere specified. ²	1919	41	777	405	472	1,215	2,541	Instruments, professional and scientific.	1919	59	1,701	1,211	1,823	2,273	6,436
	1914	41	770	355	319	652	1,399		1914	57	796	808	461	391	1,654
	1909	52	828	498	322	592	1,385		1909	39	635	751	380	262	1,039
Fertilizers.....	1919	31	1,021	5,077	1,150	5,845	8,731	Iron and steel, blast furnaces.	1919	58	14,619	564,455	27,318	244,960	311,080
	1914	47	1,110	4,647	608	4,170	6,178		1914	52	11,518	477,588	9,337	115,501	135,806
	1909	48	1,224	5,174	575	4,613	6,543		1909	66	14,521	470,680	9,457	142,074	168,578
Files.....	1919	6	1,356	2,353	1,350	821	3,874	Iron and steel, steel works and rolling mills.	1919	108	171,715	1,521,731	208,725	777,473	1,296,412
	1914	7	1,315	1,694	583	401	1,495		1914	178	131,955	1,270,642	99,920	285,332	448,106
	1909	7	1,217	1,313	528	427	1,540		1909	180	120,911	890,440	85,113	320,013	500,344
Flour-mill and gristmill products.	1919	1,138	2,198	55,928	2,259	59,985	99,440	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	31	4,546	15,571	5,051	12,581	23,102
	1914	1,265	2,595	61,790	1,424	37,097	43,626		1914	25	2,547	8,796	1,241	4,145	6,562
	1909	1,450	2,432	69,212	1,188	38,170	44,783		1909	22	2,161	5,295	1,030	3,053	5,118
Food preparations, not elsewhere specified.	1919	145	1,482	5,831	1,266	14,955	19,434	Iron and steel forgings, not made in steel works or rolling mills.	1919	48	6,197	21,151	8,198	16,949	36,709
	1914	131	1,512	3,490	789	4,810	7,291		1914	43	2,205	9,008	1,356	2,713	5,167
	1909	128	1,185	2,685	541	3,005	4,864		1909	38	2,312	10,145	1,372	3,147	5,855
Foundry and machine-shop products. ³	1919	3,117	120,447	319,702	156,184	275,773	624,415	Iron and steel, wrought pipe.	1919	10	3,467	8,089	4,297	17,611	25,479
	1914	1,887	91,820	199,364	58,771	108,989	233,616		1914	12	3,990	10,067	2,544	13,502	17,777
	1909	1,095	86,821	162,414	51,396	101,011	210,746		1909	11	3,873	12,472	2,177	14,022	18,291
Fur goods.....	1919	95	414	112	595	2,532	4,303	Jewelry.....	1919	203	613	479	799	2,284	4,553
	1914	63	212	45	149	523	1,048		1914	117	549	319	382	820	1,693
	1909	58	227	14	160	544	1,217		1909	75	456	160	292	597	1,275
Furnishing goods, men's ⁴ .	1919	79	2,640	818	1,618	5,566	9,661	Knit goods.....	1919	606	44,156	26,359	30,692	116,697	188,261
	1914	80	2,138	731	686	3,149	4,975		1914	498	41,130	23,861	15,382	37,756	64,153
	1909	72	1,487	254	556	2,874	4,595		1909	464	38,206	21,797	11,750	27,218	49,658
Furniture and refrigerators.	1919	346	11,343	24,473	11,572	20,751	44,146	Labels and tags.....	1919	13	489	299	385	806	2,407
	1914	324	12,088	21,272	6,640	11,770	25,155		1914	16	445	206	219	534	1,018
	1909	304	9,924	17,211	4,829	9,039	18,952		1909	16	381	354	193	362	818
Gas and electric fixtures and lamps and reflectors.	1919	63	991	1,444	989	1,649	4,010	Lead, bar, pipe, and sheet.	1919	4	84	399	105	1,305	1,634
	1914	61	1,327	1,148	787	1,333	2,864		1914	4	58	537	39	882	1,006
	1909	75	1,482	1,249	765	1,239	2,902		1909	4	46	326	31	706	845
Gas, illuminating and heating.	1919	86	3,324	16,671	4,241	17,330	31,508	Leather goods ⁵	1919	243	2,254	1,105	2,106	5,859	11,847
	1914	99	2,796	12,552	1,420	6,440	16,745		1914	280	2,738	1,264	1,350	3,489	6,753
	1909	99	3,119	9,374	1,601	4,099	15,840		1909	156	2,524	1,107	1,137	3,153	5,824
Glass.....	1919	102	21,602	70,280	26,472	27,658	80,480	Leather, tanned, curried, and finished.	1919	92	13,749	42,961	17,252	146,405	211,359
	1914	103	23,606	61,399	15,214	15,542	39,798		1914	120	11,988	39,904	6,492	68,309	85,253
	1909	112	23,710	55,182	13,436	12,634	32,818		1909	163	14,008	37,440	6,801	59,113	77,926

¹ Includes "cotton lace."² Includes "combs and hairpins, not made from metal or rubber," and "ivory, shell, and bone work, not including combs and hairpins."³ Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, cast-iron pipe"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts, in all years; hardware, saddlery," in 1914 and 1909, and "bells" in 1909.⁴ Includes "gloves and mittens, cloth, not including gloves made in textile mills," and "suspenders, garters, and elastic woven goods," in all years; and "collars and cuffs, men's," in 1914 and 1909.⁵ Includes "pocketbooks"; "saddlery and harness"; and "trunks and valises."

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TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.	INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Liquors, malt.	1919	166	5,231	52,744	6,691	14,407	59,332	Signs and advertising novelties.	1919	114	353	223	397	650	1,621
	1914	215	7,512	58,147	6,321	15,703	50,363		1914	52	750	680	450	915	2,083
	1909	237	7,234	54,360	5,453	12,610	47,713		1909	26	487	608	201	782	1,525
Lumber and timber products. ¹	1919	1,948	16,425	86,645	17,085	31,837	68,395	Silk goods, including throwsters.	1919	373	53,052	73,326	38,129	126,287	231,711
	1914	2,348	21,207	98,878	11,014	24,258	49,049		1914	284	44,755	48,915	16,312	48,795	86,939
	1909	2,667	26,873	113,412	13,558	27,314	57,454		1909	226	36,469	41,962	11,443	35,166	62,061
Marble and stone work. . .	1919	489	3,697	17,921	3,722	4,312	11,132	Slaughtering and meat packing. ⁴	1919	204	4,616	16,060	5,537	110,378	128,550
	1914	602	7,166	27,179	4,137	3,821	10,631		1914	166	3,687	12,229	2,528	58,273	65,981
	1909	596	9,264	29,037	4,860	3,720	11,570		1909	180	3,050	12,139	1,987	44,845	51,851
Mattresses and spring beds, not elsewhere specified.	1919	73	1,083	1,595	1,077	3,923	6,343	Smelting and refining, not from the ore.	1919	11	188	378	255	5,051	5,912
	1914	74	980	1,746	542	1,740	3,063		1914	15	177	503	121	3,313	3,612
	1909	83	745	1,102	361	1,333	2,223		1909	24	206	566	143	2,978	3,577
Millinery and lace goods, not elsewhere specified.	1919	117	3,200	1,018	2,267	5,638	11,303	Soap.	1919	53	1,214	2,647	1,634	10,353	16,063
	1914	114	3,585	934	1,452	2,880	6,273		1914	50	1,159	2,554	657	6,601	10,098
	1909	105	4,235	841	1,327	3,754	6,770		1909	59	1,197	2,598	556	5,947	9,124
Mineral and soda waters. .	1919	521	1,115	2,690	1,151	4,060	7,826	Springs, steel, car and carriage, not made in steel works or rolling mills.	1919	18	1,618	4,725	2,162	6,478	11,639
	1914	482	1,151	1,901	711	2,230	5,079		1914	17	749	2,161	451	1,419	2,458
	1909	485	968	1,851	512	1,411	4,026		1909	13	1,080	2,514	501	2,192	3,715
Minerals and earths, ground or otherwise treated.	1919	105	4,914	32,310	6,530	4,042	13,467	Steam packing.	1919	33	1,775	11,496	1,955	5,557	11,358
	1914	56	822	8,930	427	1,134	2,281		1914	34	1,637	6,789	905	2,705	5,003
	1909	10	612	2,310	208	287	759		1909	31	1,677	5,817	814	2,981	4,987
Musical instruments, pianos and organs and materials.	1919	23	972	1,970	973	2,157	3,798	Stoves and furnaces, including gas and oil stoves.	1919	85	3,777	5,598	4,506	5,513	15,015
	1914	28	922	1,233	555	1,058	2,084		1914	77	4,111	4,772	2,635	2,948	8,040
	1909	30	1,182	1,260	505	1,248	2,382		1909	74	4,198	4,675	2,465	2,472	7,409
Oil, not elsewhere specified.	1919	37	632	2,629	864	17,251	25,479	Tin plate and terneplate. .	1919	11	2,005	10,459	3,652	44,754	58,816
	1914	38	477	2,213	333	7,538	12,273		1914	13	2,368	3,259	1,785	31,934	36,796
	1909	37	386	1,944	242	6,361	10,365		1909	17	2,346	1,565	1,339	22,898	26,234
Optical goods.	1919	58	1,021	730	868	1,810	4,172	Tobacco manufactures. . .	1919	1,659	30,785	4,720	22,537	40,497	103,794
	1914	37	854	370	377	801	2,023		1914	2,194	37,370	3,302	13,440	24,154	54,213
	1909	24	579	292	219	461	1,063		1909	2,432	33,188	2,638	11,620	20,713	50,161
Paint and varnish.	1919	104	3,279	13,866	4,119	25,500	38,845	Toys and games.	1919	53	1,560	1,387	1,108	2,043	4,854
	1914	114	2,643	11,091	1,591	10,400	16,005		1914	36	1,170	1,521	498	624	1,769
	1909	114	1,992	9,892	1,102	9,201	14,020		1909	23	714	743	266	284	847
Paper and wood pulp.	1919	56	9,843	83,510	12,459	35,643	64,716	Umbrellas and canes.	1919	21	1,376	1,784	1,210	4,369	7,247
	1914	53	7,447	75,305	3,483	16,047	25,439		1914	45	2,141	1,747	915	2,963	4,470
	1909	62	6,656	66,910	3,303	11,398	19,873		1909	45	2,315	1,570	906	3,148	5,060
Patent medicines and compounds and druggists' preparations. ²	1919	332	3,399	3,603	2,987	11,251	26,374	Upholstering materials, not elsewhere specified.	1919	12	402	1,350	377	1,683	2,749
	1914	324	2,833	2,495	1,233	6,474	14,721		1914	16	398	1,078	208	1,001	1,458
	1909	367	2,761	2,619	1,145	5,310	12,656		1909	23	437	1,186	198	1,344	2,037
Peanuts, grading, roasting, cleaning, and shelling.	1919	12	243	341	134	2,156	2,636	Wall paper, not made in paper mills.	1919	12	999	1,783	884	3,583	5,589
	1914	7	234	176	82	870	1,103		1914	12	1,287	1,813	683	2,585	4,153
	1909	5	80	83	24	530	693		1909	11	1,056	1,371	520	2,309	3,695
Petroleum, refining.	1919	58	8,235	22,606	11,960	134,981	178,826	Wall plaster and composition flooring.	1919	14	93	203	102	382	611
	1914	48	4,902	37,522	3,219	44,384	52,875		1914	21	226	1,353	125	656	1,043
	1909	41	2,900	35,212	1,861	47,440	53,088		1909	23	232	1,413	111	402	725
Photo-engraving.	1919	29	591	347	1,023	618	2,955	Wirework, including wire rope and cable, not elsewhere specified.	1919	51	2,018	4,643	1,858	6,496	11,477
	1914	29	630	314	668	282	1,509		1914	59	1,170	2,847	539	2,056	3,409
	1909	31	489	197	446	231	1,132		1909	64	968	2,435	435	1,837	3,070
Printing and publishing. ³	1919	2,457	26,456	35,419	29,782	61,022	165,344	Wood distillation.	1919	44	1,211	2,569	1,273	3,254	5,542
	1914	2,538	26,909	35,659	17,701	27,478	84,977		1914	46	1,185	2,514	682	2,218	3,417
	1909	2,461	24,606	26,839	14,335	22,753	70,584		1909	50	933	1,749	522	1,684	2,960
Roofing materials.	1919	23	1,170	4,815	1,330	6,330	10,837	Wood, turned and carved.	1919	63	731	2,863	620	787	1,896
	1914	17	566	3,205	339	2,928	4,602		1914	75	1,085	3,016	521	974	1,585
	1909	17	610	1,420	300	2,203	3,342		1909	94	1,343	3,624	532	713	1,791
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	31	4,880	17,414	5,864	19,773	35,792	Woolen, worsted, and felt goods, and wool hats.	1919	211	23,310	56,601	24,319	112,876	170,119
	1914	19	3,172	8,970	1,744	7,299	12,177		1914	203	24,461	44,646	10,968	44,482	64,409
	1909	13	1,205	6,300	566	3,242	4,686		1909	217	27,469	50,406	10,947	54,634	77,447
Shipbuilding, including boat building.	1919	28	56,211	82,016	88,039	118,717	237,325	All other.	1919	1,881	72,216	283,261	89,937	348,415	560,104
	1914	33	4,773	9,694	3,411	9,797	9,540		1914	1,902	48,599	153,582	26,521	120,737	194,888
	1909	31	3,558	7,771	2,120	2,710	6,178		1909	2,145	48,581	98,471	24,287	105,079	195,639

¹ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."

² Includes "perfumery and cosmetics."

³ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

⁴ Includes "sausage, not made in slaughtering and meat-packing establishments."

TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.			Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.			Value of prod- ucts.
					Expressed in thousands of dollars.									Expressed in thousands of dollars.			
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.																	
ALLENTOWN..... All industries.	1919	336	14,812	28,333	14,583	51,120	90,834	ALTOONA—Con. Printing and publishing..	1919	11	182	256	158	307	761		
	1914	297	13,685	22,219	6,501	20,705	33,915		1914	10	185	252	140	102	358		
	1909	274	11,481	19,101	5,081	15,581	26,263		1909	10	154	177	87	81	260		
Boots and shoes.....	1919	9	540	376	600	2,247	3,663	All other industries.....	1919	31	12,398	9,483	18,972	29,089	51,394		
	1914	12	820	504	335	1,007	1,578		1914	31	10,233	6,483	6,599	13,083	21,138		
	1909	9	724	395	297	762	1,302		1909	17	8,026	8,010	5,555	8,634	15,605		
Bread and other bakery products.	1919	39	250	213	257	1,109	1,617	BETHLEHEM..... All industries.	1919	86	14,961	84,890	21,657	55,379	102,567		
	1914	33	180	139	103	366	559		1914	83	12,388	119,502	8,021	24,882	43,096		
	1909	32	146	82	77	276	475		1909	98	9,568	34,648	5,566	18,297	30,129		
Brick, building.....	1919	3	62	223	51	43	187	CHESTER..... All industries.	1919	127	18,677	44,048	27,414	52,672	95,049		
	1914	4	131	265	90	56	179		1914	153	6,295	19,160	3,506	13,101	21,621		
	1909	6	141	335	56	37	175		1909	128	0,986	17,131	3,392	11,576	19,373		
Confectionery and ice cream.	1919	12	82	104	53	345	556	ERIE..... All industries.	1919	293	13,297	40,519	16,574	31,499	70,408		
	1914	11	36	111	19	153	204		1914	363	11,010	26,852	6,730	16,005	29,447		
	1909	3	43	20	52	66	142		1909	390	9,610	21,758	4,991	11,934	23,812		
Copper, tin, and sheet- iron work.	1919	8	43	20	52	66	142	Brass, bronze, and copper products.	1919	6	138	767	105	482	874		
	1914	3	53	18	46	61	122		1914	6	75	392	45	184	257		
	1909	3	46	23	25	40	83		1909	4	45	80	25	72	127		
Foundry and machine- shop products. ¹	1919	54	1,157	4,441	1,219	1,982	4,693	Bread and other bakery products.	1919	36	184	255	238	1,069	1,589		
	1914	25	1,012	1,486	594	670	1,723		1914	42	259	166	160	458	740		
	1909	23	851	1,286	400	769	1,632		1909	48	150	117	91	304	561		
Furniture.....	1919	7	438	883	389	542	1,390	Copper, tin, and sheet- iron products. ⁵	1919	12	130	218	151	281	614		
	1914	8	644	838	302	300	782		1914	14	103	95	79	103	230		
	1909	7	529	646	252	205	733		1909	10	124	103	65	111	216		
Knit goods.....	1919	8	275	275	105	526	909	Flour-mill and gristmill products.	1919	5	20	516	31	1,152	1,397		
	1914	6	275	206	87	268	421		1914	5	36	842	24	1,357	1,470		
	1909	8	572	423	147	457	717		1909	4	32	540	18	704	843		
Liquors, malt.....	1919	3	97	1,290	115	496	1,544	Foundry and machine- shop products. ⁶	1919	47	5,578	10,773	7,584	10,535	28,563		
	1914	4	135	767	101	402	830		1914	66	4,407	10,567	2,805	3,625	8,830		
	1909	4	103	501	63	103	657		1909	68	4,395	8,348	2,389	3,386	8,301		
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	4	88	728	95	164	341	Lumber and timber prod- ucts. ⁷	1919	12	150	909	139	634	1,000		
	1914	4	116	549	75	158	284		1914	13	260	1,312	207	696	1,033		
	1909	10	137	629	80	157	319		1909	16	312	896	175	610	964		
Marble and stone work...	1919	8	42	195	46	121	209	Mineral and carbonated waters.	1919	6	17	46	17	35	116		
	1914	4	31	39	21	40	76		1914	5	11	75	7	24	43		
	1909	4	17	18	10	13	32		1909	4	6	12	4	6	23		
Printing and publishing ² .	1919	34	290	287	249	493	998	Models and patterns, not including paper pat- terns.	1919	5	35	89	46	29	340		
	1914	35	306	389	146	157	491		1914	5	21	49	15	6	27		
	1909	28	190	147	93	101	339	Oil, composite.....	1919	3	11	59	17	609	815		
Silk goods.....	1919	27	4,124	3,849	3,643	10,802	22,776		1914	4	23	210	16	246	340		
	1914	22	4,416	3,304	1,970	6,118	10,210		1909	5	15	185	10	173	248		
	1909	15	3,778	2,808	1,484	4,299	7,456	Printing and publishing ⁸ .	1919	24	344	343	359	469	1,473		
Tobacco, cigars.....	1919	24	1,237	148	1,070	1,628	4,023		1914	30	462	519	208	292	887		
	1914	33	1,890	307	621	1,174	2,695		1909	23	409	610	182	250	829		
	1909	47	1,104	152	439	682	1,446	Slaughtering and meat packing. ⁹	1919	4	83	395	110	2,186	2,747		
All other industries.....	1919	96	5,787	15,241	6,579	30,556	47,786		1914	6	79	254	61	1,161	1,273		
	1914	93	3,640	13,297	2,021	9,775	13,764		1909	6	54	159	31	740	957		
	1909	78	3,143	11,686	1,638	7,590	10,897	Stoves and furnaces, in- cluding gas and oil stoves.	1919	4	354	500	439	361	1,108		
ALTOONA..... All industries.	1919	64	12,800	10,790	19,367	31,166	53,946		1914	5	429	404	267	293	804		
	1914	70	10,732	7,682	6,915	13,753	22,593		1909	8	531	468	324	240	843		
	1909	44	8,409	9,158	6,750	9,134	16,763	Tobacco, cigars.....	1919	16	68	1	91	96	233		
Bread and other bakery products.	1919	14	109	140	117	658	951		1914	24	87	.....	57	69	173		
	1914	23	118	118	66	224	375	All other industries.....	1919	113	6,176	25,558	7,157	13,561	29,533		
	1909	11	45	55	22	68	122		1914	138	4,704	11,907	2,725	7,581	13,328		
Liquors, malt.....	1919	4	100	704	106	175	771		1909	171	3,478	10,182	1,630	5,146	9,743		
	1914	3	93	652	52	98	337										
	1909	3	96	730	42	238	526										
Lumber and timber prod- ucts. ³	1919	4	11	207	14	37	69										
	1914	3	103	177	58	246	385										
	1909	3	88	186	44	113	250										

¹ Includes "automobile repairing"; "hardware"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts," in all years; and "engines, steam, gas, and water," and "plumbers' supplies, not elsewhere specified," in 1914 and 1909.

² Includes "bookbinding and blank-book making."

³ Includes "lumber, planing-mill products, not including planing mills connected with sawmills."

⁴ Comparative statistics by industries for 1914 and 1909 not available.

⁵ Includes "stamped ware, not elsewhere specified."

⁶ Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts," in all years; "gas and water meters" and "iron and steel, cast-iron pipe," in 1919; and "steam fittings and steam and hot-water heating apparatus," in 1914 and 1909.

⁷ Includes "lumber, planing-mill products, not including planing mills connected with sawmills," in all years, and "boxes, wooden packing, except cigar boxes," in 1909.

⁸ Includes "engraving, steel and copper plate, including plate printing," and "lithographing" in 1914 and 1909.

⁹ Includes "sausage, not made in slaughtering and meat-packing establishments" in 1919.

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TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.
					Expressed in thousands of dollars.	Expressed in thousands of dollars.	Expressed in thousands of dollars.						Wages.	Cost of materi- als.	Value of prod- ucts.
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
HARRISBURG.....	1919	216	10,522	27,363	11,847	26,039	52,153	PHILADELPHIA—							
All industries.	1914	219	7,966	24,216	4,457	10,605	18,872	Continued.							
	1909	199	9,743	22,355	4,547	14,083	22,605	Boxes, paper and other, not elsewhere specified.	1919	80	3,135	1,745	2,138	4,188	9,118
Bread and other bakery products.	1919	31	218	287	223	1,322	1,833		1914	70	3,640	1,401	1,333	2,050	4,670
	1914	38	205	206	124	458	794		1909	65	3,379	1,382	1,113	1,631	3,822
	1909	39	185	143	91	362	601	Brass, bronze, and copper products.	1919	57	1,374	2,803	1,854	9,182	13,352
Foundry and machine- shop products. ¹	1914	21	294	711	335	334	1,187		1914	46	800	1,677	573	2,844	3,936
	1909	11	419	1,131	238	253	750		1909	49	1,042	1,651	625	2,518	4,057
	1909	8	394	529	205	200	610	Bread and other bakery products.	1919	810	5,648	5,917	6,351	33,058	51,763
Iron and steel, steel works and rolling mills.	1914	5	2,444	17,353	3,403	8,000	13,739		1914	1,053	5,514	4,820	3,244	12,924	21,809
	1909	3	1,035	17,106	743	2,966	4,028		1909	1,208	4,598	4,159	2,592	11,650	19,018
	1909	5	2,136	15,937	964	6,157	7,621	Brick and tile, terra-cotta, and fire-clay products.	1919	25	862	2,844	1,110	750	2,673
Mineral and soda waters..	1914	6	25	57	20	94	185		1914	34	1,417	3,204	769	661	1,963
	1909	3	7	10	5	7	29		1909	44	1,954	3,518	1,131	689	2,708
	1909	4	10	15	5	12	27	Brooms.....	1919	23	181	200	158	490	739
Printing and publishing..	1914	27	620	1,247	633	539	2,059		1914	20	80	61	52	128	219
	1909	23	519	632	314	345	1,036		1909	22	150	68	93	229	413
	1909	30	433	460	267	264	964	Brushes, other than toilet	1919	28	235	99	220	747	1,283
Tobacco, cigars.....	1914	14	804	92	517	809	2,122		1914	28	231	133	124	381	711
	1909	17	1,036	108	306	501	1,106		1909	37	259	187	130	385	719
	1909	20	1,530	73	497	632	1,762	Carpets and rugs, other than rag.	1919	44	6,811	11,608	7,235	25,120	43,111
All other industries.....	1914	112	6,117	7,616	6,716	14,851	30,978		1914	59	8,368	10,956	4,294	12,741	20,587
	1909	93	4,955	5,023	2,727	6,015	11,129		1909	84	10,363	11,435	4,722	13,376	22,629
	1909	93	4,955	5,198	2,512	6,397	11,090	Carriages and wagons and materials.	1919	84	646	506	842	682	2,189
JOHNSTOWN.....	1914	149	12,855	159,069	23,197	53,425	90,409		1914	115	1,121	1,175	802	701	2,057
All industries.	1909	96	10,233	110,713	6,004	31,424	40,774	Cars and general shop construction and repairs by steam-railroad com- panies.	1919	10	6,528	6,638	9,302	6,411	16,458
Bread and other bakery products.	1914	16	130	192	116	679	942		1914	10	3,917	9,970	8,117	3,107	6,547
	1909	17	125	100	65	231	308	Chemicals.....	1909	10	3,909	2,256	2,627	2,416	5,318
	1909	11	61	84	35	146	219		1919	19	1,833	8,775	2,290	13,231	22,406
Lumber, planing - mill products, not including planing mills connected with sawmills. ²	1914	7	52	413	94	353	513		1914	15	1,933	5,145	1,150	8,137	11,445
	1909	10	104	918	70	207	341		1909	16	1,753	4,875	1,046	6,519	9,643
	1909	8	59	510	43	99	105	Cleansing and polishing preparations.	1919	24	104	288	73	651	1,141
Mineral and carbonated waters.	1914	9	16	53	21	58	112		1914	25	83	132	36	254	534
	1909	3	3	5	2	3	9		1909	21	55	84	25	121	264
	1909	4	3	5	1	5	13	Clothing, men's, includ- ing shirts.	1919	517	9,774	2,866	9,931	36,213	68,257
Printing and publishing..	1914	13	200	199	205	229	786		1914	450	9,879	2,388	5,181	14,821	29,153
	1909	15	172	147	121	139	387		1909	456	12,215	2,472	5,062	14,488	29,001
	1909	11	132	121	87	74	281	Clothing, women's.....	1919	537	11,416	2,486	12,899	41,237	69,184
All other industries.....	1914	104	12,457	159,142	22,761	52,106	88,116		1914	434	15,201	2,429	7,482	18,712	34,143
	1914	91	11,773	115,235	8,427	33,861	49,839		1909	351	13,500	1,955	6,674	16,606	30,133
	1909	62	9,978	115,993	5,928	31,100	46,066	Coffee and spice, roasting and grinding.	1919	54	411	1,323	327	9,321	11,390
LANCASTER.....	1914	304	8,862	14,555	4,007	11,139	20,011		1914	49	498	1,714	258	3,603	5,163
All industries.	1909	305	7,955	10,027	3,236	8,803	15,934	Coffins, burial cases, and undertakers' goods.	1909	61	355	1,195	178	3,500	4,663
PHILADELPHIA..	1919	9,064	281,105	528,480	328,792	1,156,340	1,990,481		1919	11	165	152	162	751	1,364
All industries.	1914	8,454	251,286	465,678	138,249	451,197	784,500		1914	12	122	66	65	184	381
	1909	8,375	251,294	365,708	126,049	427,850	743,720	Confectionery and ice cream.	1919	243	4,509	6,377	3,545	17,325	29,657
Asbestos products, not in- cluding steam packing.	1914	4	175	495	354	1,022	1,697		1914	196	3,462	4,876	1,454	6,332	10,639
	1909	3	13	6	8	44	63	Cooperage and wooden goods, not elsewhere specified.	1919	58	531	797	591	3,095	4,536
Automobile bodies and parts.	1914	55	5,690	8,302	8,090	14,365	24,931		1914	48	551	627	318	1,210	1,827
	1909	25	623	1,216	496	719	1,577		1909	44	733	729	344	1,449	2,214
Awnings, tents, and sails.	1919	47	161	87	173	764	1,291	Copper, tin, and sheet- iron products. ⁵	1919	208	2,364	2,095	2,814	5,002	11,649
	1914	33	114	46	73	275	482		1914	155	2,983	2,107	1,762	3,964	7,570
	1909	20	89	27	48	124	235		1909	134	2,939	2,074	1,559	4,331	7,493
Babbitt metal and solder.	1919	47	161	87	173	764	1,291	Cordage and twine.....	1919	10	1,616	4,107	1,507	5,015	8,167
	1914	33	114	46	73	275	482		1914	8	1,449	3,871	600	3,263	4,139
	1909	20	89	27	48	124	235	Cotton goods, including cotton small wares. ⁶	1919	123	7,125	13,043	7,190	23,859	44,022
	1914	14	184	445	259	1,397	1,972		1914	120	8,238	12,787	4,052	9,782	19,383
	1909	14	111	132	70	918	1,158		1909	136	9,734	14,160	4,411	12,316	22,303
Baskets, and rattan and willow ware.	1919	15	210	55	195	638	1,068	Outlery and tools, not elsewhere specified.	1919	50	1,427	1,973	1,693	1,477	4,680
	1914	15	88	16	46	50	147		1914	26	1,007	1,401	545	899	1,956
	1909	13	119	286	81	809	1,104		1909	33	883	2,086	536	605	1,686
Belting, leather.....	1919	12	372	520	429	3,279	5,131	Dental goods.....	1919	41	1,813	729	1,422	2,820	6,181
	1914	11	157	252	108	1,098	1,507		1914	38	802	314	377	1,433	2,685
	1909	13	119	286	81	809	1,104	Dyeing and finishing tex- tiles, exclusive of that done in textile mills.	1919	120	4,144	10,433	4,504	12,761	26,548
Blacking, stains, and dressings.	1914	7	63	204	28	285	393		1914	116	3,589	7,209	1,997	3,901	7,597
	1909	9	79	154	34	192	348		1909	104	3,575	7,037	1,829	2,413	6,327
Boots and shoes, includ- ing findings.	1919	53	3,881	1,900	4,183	12,382	20,978	Electrical machinery, ap- paratus, and supplies.	1919	60	4,323	7,218	5,163	15,394	33,729
	1914	53	4,023	1,646	2,383	4,375	8,864		1914	51	2,489	4,540	1,393	4,405	8,869
	1909	58	3,466	872	1,594	3,703	6,517		1909	45	1,769	2,693	923	3,241	7,065

¹ Includes "automobile repairing"; "engines, steam, gas, and water"; and "iron and steel, welding."² Includes "lumber and timber products" in 1914 and 1909.³ Comparative statistics by industries for 1914 and 1909 not available.⁴ Excludes statistics for 1 establishment, to avoid disclosure of individual operations.⁵ Includes "stamped ware, not elsewhere specified," and "tinware, not elsewhere specified."⁶ Includes "cotton lace" in 1914 and 1909.

TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.	INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
PHILADELPHIA—Continued.								PHILADELPHIA—Continued.							
Fancy articles, not elsewhere specified. ¹	1919	34	445	287	351	885	1,953	Jewelry.....	1919	172	439	287	601	1,845	3,477
	1914	32	614	207	269	535	1,181		1914	82	346	223	254	555	1,147
	1909	42	719	341	266	545	1,281		1909	52	295	110	186	427	884
Fertilizers.....	1919	5	811	3,686	940	4,347	6,419	Knit goods.....	1919	239	17,775	10,903	14,530	52,565	85,849
	1914	6	756	2,290	414	3,080	4,380		1914	200	18,002	8,615	7,569	17,829	31,350
	1909	6	704	3,020	375	3,054	4,268		1909	177	15,999	7,902	5,753	12,870	23,971
Flavoring extracts.....	1919	24	45	47	45	548	855	Leather goods ²	1919	143	1,584	579	1,588	4,255	8,801
	1914	15	40	15	21	102	192		1914	136	1,884	674	924	2,341	4,494
	1909	21	33	36	18	150	294		1909	84	1,707	430	781	2,141	3,994
Flour-mill and gristmill products.	1919	11	95	933	134	4,221	4,630	Leather, tanned, curried, and finished.	1919	34	5,692	10,917	8,250	54,454	89,019
	1914	18	125	1,267	83	2,233	2,871		1914	33	4,821	9,518	2,698	18,296	23,557
	1909	28	89	1,116	53	2,624	2,877		1909	41	5,972	8,064	3,009	17,140	23,526
Food preparations, not elsewhere specified.	1919	60	750	2,508	676	8,008	10,462	Liquors, malt.....	1919	31	1,304	13,391	1,693	3,520	17,718
	1914	64	881	1,641	500	3,149	4,630		1914	39	1,767	13,023	1,561	4,151	13,908
	1909	66	817	1,631	402	2,013	3,331		1909	48	1,857	13,368	1,443	3,933	14,257
Foundry and machine-shop products. ³	1919	955	25,748	44,499	34,437	50,925	125,413	Lumber and timber products. ⁴	1919	81	3,382	10,081	3,932	7,061	14,134
	1914	659	10,126	25,953	10,856	15,280	38,047		1914	93	3,188	9,026	1,906	4,460	7,775
	1909	544	17,102	23,687	10,109	15,859	38,234		1909	98	3,248	7,872	1,812	4,453	7,703
Fur goods.....	1919	73	293	72	440	2,214	3,468	Marble and stone work...	1919	73	550	1,964	658	856	2,215
	1914	49	152	30	106	426	794		1914	80	869	2,199	673	1,110	2,321
	1909	47	181	10	129	484	1,002		1909	98	1,619	2,062	1,089	1,432	3,404
Furnishing goods, men's..	1919	25	639	122	506	1,839	3,123	Mattresses and spring beds, not elsewhere specified.	1919	43	474	606	497	1,573	2,751
	1914	25	625	107	256	1,198	1,815		1914	34	394	589	226	747	1,268
	1909	22	761	38	299	1,191	1,975		1909	38	309	471	138	657	1,090
Furniture and refrigerators.	1919	186	3,496	4,808	4,499	7,270	15,796	Millinery and lace goods, not elsewhere specified.	1919	100	2,213	668	1,728	4,238	8,189
	1914	159	4,491	5,139	2,945	4,847	11,148		1914	93	2,199	493	990	1,907	4,023
	1909	147	3,393	3,870	1,940	3,731	8,052		1909	90	2,770	370	956	2,773	5,052
Gas and electric fixtures and lamps and reflectors.	1919	38	625	601	634	965	2,577	Mineral and soda waters..	1919	72	281	504	350	1,401	2,352
	1914	36	886	563	537	931	2,050		1914	67	337	345	233	685	1,720
	1909	41	1,096	879	604	813	2,133		1909	85	341	385	206	676	2,003
Glass, cutting, staining, and ornamenting.	1919	38	310	302	349	1,165	2,059	Mucilage, paste, and other adhesives, not elsewhere specified.	1919	12	108	250	100	674	1,159
	1914	41	446	549	263	678	1,223		1914	10	88	185	45	550	841
	1909	51	660	594	368	907	1,645		1909	11	64	183	29	548	736
Grease and tallow, not including lubricating greases.	1919	9	297	944	374	3,453	4,434	Oil, not elsewhere specified.	1919	24	480	2,301	682	9,028	15,506
	1914	7	349	818	212	1,767	2,210		1914	18	270	1,138	172	2,580	3,422
	1909	13	316	745	165	1,000	2,382		1909	12	141	483	82	1,449	1,935
Haircloth.....	1919	14	339	891	366	1,965	2,792	Optical goods.....	1919	38	456	200	445	990	2,318
	1914	14	466	1,174	233	1,306	1,917		1914	26	373	156	206	405	1,188
	1909	9	340	551	172	1,043	1,445		1909	14	291	110	123	273	621
Hats and caps, other than felt, straw, and wool.	1919	55	564	151	750	1,459	3,171	Paint and varnish.....	1919	52	2,026	6,145	2,620	14,028	22,429
	1914	52	586	72	368	745	1,484		1914	53	1,524	5,566	925	6,261	9,655
	1909	42	464	51	188	413	803		1909	50	1,197	4,027	689	5,194	8,045
Hats, fur-felt.....	1919	13	5,069	5,395	4,271	5,070	15,952	Paper and wood pulp....	1919	5	1,595	17,240	2,068	6,314	10,635
	1914	17	5,863	5,222	3,634	3,262	9,914		1914	6	1,437	12,510	761	2,949	5,034
	1909	27	5,825	4,163	3,101	3,563	10,402		1909	7	1,301	10,645	629	2,352	4,122
Hats, straw.....	1919	8	223	73	205	357	845	Paper goods, not elsewhere specified. ⁵	1919	25	1,313	1,224	1,119	3,297	6,292
	1914	9	343	74	162	849	1,011		1914	27	1,319	1,180	579	2,488	4,195
	1909	9	460	85	214	403	872		1909	31	1,311	1,213	518	2,161	3,597
House-furnishing goods, not elsewhere specified.	1919	27	457	535	333	1,660	2,548	Patent medicines and compounds and druggists' preparations. ⁶	1919	162	2,440	2,630	2,182	8,127	18,949
	1914	21	318	456	126	928	1,265		1914	146	2,077	1,714	897	4,753	10,855
	1909	17	327	423	111	629	966		1909	174	2,140	2,012	897	4,087	9,423
Ice, manufactured.....	1919	33	950	18,861	1,030	1,308	4,493	Photo-engraving.....	1919	16	500	284	870	518	2,512
	1914	34	627	14,457	382	558	1,844		1914	14	480	218	531	222	1,172
	1909	31	535	11,708	375	524	1,663		1909	16	397	105	381	185	917
Ink, printing.....	1919	10	230	856	289	1,390	2,290	Pickles, preserves, and sauces.	1919	25	324	412	249	2,825	3,853
	1914	9	151	341	106	823	1,052		1914	19	397	540	185	1,453	2,108
	1909	8	165	483	105	623	1,050		1909	23	628	723	226	1,772	2,538
Instruments, professional and scientific.	1919	39	1,228	910	1,313	1,726	4,887	Printing and publishing ⁷ ..	1919	920	14,312	18,746	17,605	41,950	111,343
	1914	40	691	729	384	720	1,410		1914	936	14,759	19,257	10,033	18,507	55,340
	1909	31	539	701	350	226	923		1909	931	13,681	12,267	8,249	15,387	45,807
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	10	762	2,069	815	1,742	3,385	Signs and advertising novelties.	1919	87	194	103	241	338	947
	1914	9	665	1,722	277	749	1,254		1914	30	305	145	164	529	1,028
	1909	8	767	1,493	339	655	1,290	Silk goods, including throwsters.	1919	38	3,157	3,612	2,683	11,540	19,767
Iron and steel forgings, not made in steel works or rolling mills.	1919	11	531	3,057	845	1,783	3,570		1914	32	3,391	2,058	1,583	4,232	8,237
	1914	8	212	916	140	237	492		1909	32	3,056	2,156	1,235	3,472	6,062
	1909	9	159	558	104	209	427								

¹ Includes "combs and hairpins, not made from metal or rubber," and "ivory, shell, and bone work, not including combs and hairpins."² Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; "hardware, saddlery," in 1914 and 1909; and "bells" in 1909.³ Includes "pocketbooks"; "saddlery and harness"; and "trunks and valises."⁴ Includes "boxes, wooden packing, except cigar boxes" and "lumber, planing-mill products, not including planing mills connected with sawmills," in all years, and "window and door screens and weather strips" in 1914 and 1909.⁵ Includes "cardboard, not made in paper mills," and "envelopes."⁶ Includes "perfumery and cosmetics."⁷ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.	INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
PHILADELPHIA—Continued.								PITTSBURGH—Con.							
Slaughtering and meat packing.	1919	39	1,742	3,140	2,205	43,879	50,169	Confectionery and ice cream.	1910	32	1,849	5,766	1,831	6,916	11,443
	1914	53	1,302	3,105	941	23,494	20,395		1914	23	1,240	1,747	550	2,666	4,139
	1909	76	1,081	2,946	779	19,627	21,894	Cooperage ¹	1919	3	109	130	88	557	964
Soap.....	1919	23	766	1,408	1,121	8,296	12,412		1914	8	129	114	61	297	420
	1914	27	912	1,504	552	6,039	9,024		1909	12	168	144	94	349	567
	1909	32	799	1,520	388	5,071	7,319	Copper, tin, and sheet-iron products. ²	1919	81	578	601	709	1,936	3,527
Stationery goods, not elsewhere specified.....	1919	9	270	73	183	381	910		1914	65	688	691	451	1,098	1,965
	1914	10	107	20	85	137	441		1909	48	471	349	297	495	1,121
	1909	3	31	20	19	37	78	Electrical machinery, apparatus, and supplies.	1919	23	1,655	2,863	1,744	4,728	9,726
Steam packing.....	1919	15	305	526	310	1,183	2,244		1914	21	1,161	1,402	674	2,212	3,970
	1914	16	187	257	106	436	859		1909	13	862	1,040	433	1,843	3,324
	1909	15	193	413	100	566	1,136	Food preparations, not elsewhere specified.	1919	15	209	515	186	1,553	2,138
Stereotyping and electrotyping.	1919	9	290	559	465	306	1,660		1914	12	246	421	124	632	1,228
	1914	15	307	583	267	176	778		1909	12	143	349	58	538	787
Stoves and furnaces, including gas and oil stoves.	1919	25	621	607	791	1,587	3,413	Foundry and machine-shop products. ³	1919	249	10,776	32,844	15,117	27,839	62,578
	1914	21	725	776	447	813	1,818		1914	184	10,026	21,632	6,940	12,972	27,778
	1909	20	649	891	444	702	1,850		1909	166	8,635	18,911	5,967	10,653	22,772
Sugar, refining, not including beet sugar.	1919	4	3,221	9,762	4,341	119,796	133,796	Fur goods.....	1919	14	99	31	127	276	694
	1914	3	1,741	10,955	1,240	42,098	45,936		1914	9	45	7	34	77	203
Surgical appliances.....	1919	20	436	205	423	614	1,451	Glass.....	1919	8	1,091	1,894	1,102	1,266	2,717
	1914	16	446	253	256	317	893		1914	8	1,312	1,258	891	472	1,816
	1909	22	370	375	210	293	778		1909	9	1,171	915	608	449	1,443
Tobacco manufactures.....	1919	315	5,638	1,791	4,638	11,228	26,736	House-furnishing goods, not elsewhere specified.	1919	7	80	5	90	355	560
	1914	426	6,961	654	2,923	5,874	12,733		1914	4	13	.....	6	37	59
	1909	496	6,545	891	2,650	5,390	13,429	Ice, manufactured.....	1919	12	499	6,128	658	779	2,055
Toys and games.....	1919	22	729	500	527	977	2,142		1914	9	457	5,075	260	207	952
	1914	17	553	456	248	346	984		1909	15	196	6,384	131	199	958
	1909	12	356	151	126	156	427	Instruments, professional and scientific.	1919	5	145	83	189	199	662
Umbrellas and canes.....	1919	11	730	1,357	674	1,404	2,881		1914	5	55	34	42	42	171
	1914	27	1,069	1,494	518	976	1,859	Iron and steel, blast furnaces.	1919	4	1,337	60,549	2,796	21,128	31,376
	1909	31	1,166	1,342	505	1,060	2,075		1914	4	1,379	38,842	1,180	14,020	16,982
Wall paper.....	1919	4	326	275	298	1,051	1,651		1909	6	1,383	50,768	1,053	10,038	20,668
	1914	4	485	470	261	976	1,455	Iron and steel, steel works and rolling mills.	1919	25	24,661	154,004	40,768	134,443	203,052
	1909	4	454	525	196	1,047	1,732		1914	25	19,414	170,508	13,282	40,203	61,008
Woolen and worsted goods	1919	139	16,229	35,505	17,783	82,304	124,666		1909	25	23,560	156,512	14,455	55,887	82,307
	1914	123	16,924	28,443	7,817	31,004	45,608	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	7	1,352	4,252	1,384	3,915	7,730
	1909	128	19,045	32,888	7,024	37,679	54,570		1914	6	935	3,113	425	1,563	2,216
All other industries.....	1919	913	57,569	170,053	77,731	243,198	415,588		1909	7	698	1,577	346	1,151	1,886
	1914	859	41,208	170,323	22,979	73,983	126,768	Iron and steel forgings, not made in steel works or rolling mills.	1919	6	843	2,115	1,200	2,605	4,528
	1909	1,095	48,735	125,095	25,544	127,310	190,899		1914	5	95	602	78	124	249
PITTSBURGH.....								Jewelry.....	1919	17	111	154	144	348	848
All industries.	1919	1,875	83,290	358,956	109,859	366,865	614,727		1914	11	101	37	73	107	261
	1914	1,741	69,020	308,823	45,068	149,915	240,694		1909	6	77	10	55	88	183
	1909	1,658	67,420	307,210	30,930	148,507	243,892	Leather goods ⁴	1919	12	141	98	137	339	654
Automobile bodies and parts.	1919	24	374	613	519	581	1,617		1914	13	138	55	76	168	335
	1914	11	157	201	116	121	337		1909	12	124	79	64	136	260
Boxes, paper and other, not elsewhere specified.	1919	8	270	412	182	359	796	Liquors, malt.....	1919	8	661	6,665	916	1,611	7,379
	1914	6	213	188	76	148	308		1914	10	840	6,292	710	1,767	5,200
	1909	7	214	165	62	86	215		1909	12	873	6,591	686	1,267	5,420
Brass, bronze, and copper products.	1919	19	1,237	3,672	1,629	5,860	10,501	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	35	365	2,075	536	1,279	2,892
	1914	12	481	1,640	320	2,503	3,176		1914	30	355	1,978	310	639	1,543
	1909	12	629	2,756	379	2,373	3,188		1909	37	540	2,496	387	810	1,445
Bread and other bakery products.	1919	244	4,017	4,470	3,915	15,598	27,638	Marble and stone work...	1919	23	145	666	220	256	652
	1914	242	2,563	2,722	1,330	5,007	9,363		1914	23	124	621	94	94	279
	1909	248	2,009	2,222	1,048	4,472	8,054		1909	25	285	709	194	248	598
Brick and tile, terracotta, and fire-clay products.	1919	13	432	3,240	453	402	1,101	Mattresses and spring beds, not elsewhere specified.	1919	8	294	555	270	1,046	1,644
	1914	15	835	3,450	348	347	1,008		1914	8	286	478	161	498	934
	1909	20	727	3,464	353	305	1,062		1909	6	223	261	124	337	590
Brooms and brushes.....	1919	15	139	177	136	422	821	Mineral and soda waters..	1919	27	106	176	126	385	882
	1914	12	184	130	112	298	542		1914	21	104	149	73	115	342
	1909	9	100	165	57	162	325	Optical goods.....	1919	7	154	105	110	327	668
Cars and general shop construction and repairs by steam-railroad companies.	1919	9	8,142	11,585	10,322	6,839	18,914		1914	8	52	35	26	107	217
	1914	5	4,926	4,050	3,762	4,992	9,707	Paints.....	1919	10	199	1,075	231	2,600	4,034
	1909	7	4,313	9,898	3,052	4,967	8,556		1914	11	175	1,131	105	1,096	1,645
Chemicals.....	1919	5	87	960	116	696	1,303	Patent medicines and compounds and druggists' preparations. ⁵	1919	40	151	77	117	704	1,784
	1914	4	52	632	46	313	434		1914	33	101	123	56	378	929
	1909	3	48	260	32	392	531		1909	31	114	263	51	313	898
Clothing, men's, including shirts.	1919	30	845	281	631	2,402	3,749	Petroleum, refining.....	1919	3	558	487	775	9,219	11,329
	1914	34	900	236	414	1,075	1,970		1914	3	286	1,856	197	2,648	3,202
	1909	24	866	340	342	1,122	1,950								

¹ Includes "wooden goods, not elsewhere specified," in 1914 and 1909.² Includes "tinware, not elsewhere specified."³ Includes "automobile repairing," "gas machines and gas and water meters"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "engines, steam, gas, and water," in 1919.⁴ Includes "saddlery and harness" and "trunks and valises."⁵ Includes "perfumery and cosmetics."

TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.	INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
PITTSBURGH—Con.								READING—Con.							
Pickles, preserves, and sauces.	1919	10	1,773	2,428	439	10,644	20,201	Tobacco, cigars.....	1919	62	1,086	28	928	1,669	3,413
	1914	11	2,105	2,182	917	5,187	11,492		1914	73	1,734	66	771	1,555	2,374
	1909	11	1,710	1,811	615	2,392	6,202		1909	76	1,373	24	554	1,244	2,497
Printing and publishing ¹ .	1919	292	3,403	4,725	4,030	7,717	21,537	All other industries.....	1919	193	15,992	43,194	18,159	51,790	81,839
	1914	278	3,104	4,952	2,305	3,263	10,825		1914	183	13,112	35,314	7,017	21,827	33,883
	1909	254	2,805	4,173	1,960	2,069	9,071		1909	199	14,021	33,775	6,955	23,037	36,010
Slaughtering and meat packing.	1919	21	1,272	4,873	1,504	25,635	29,889	SCRANTON.	1919	311	14,487	29,684	11,978	28,946	54,630
	1914	12	1,042	3,168	738	16,175	17,947	All industries.	1914	308	12,559	24,994	6,040	15,799	28,722
	1909	14	841	3,391	553	11,466	13,107		1909	293	12,851	20,564	5,146	14,282	26,365
Soap.....	1919	6	308	640	374	1,276	2,413	Bread and other bakery products.	1919	39	312	400	261	1,314	2,079
	1914	4	138	438	54	297	590		1914	37	303	294	243	856	1,129
	1909	7	243	488	104	458	1,207		1909	38	244	200	118	479	759
Springs, steel, car and carriage, not made in steel works or rolling mills.	1919	5	460	1,061	621	2,373	4,664	Carriages and wagons, including repairs.	1919	4	19	64	20	19	57
	1914	6	302	975	183	825	1,329		1914	12	199	319	106	139	315
	1909	4	292	175	743	873	1,536		1909	13	197	294	103	150	331
Tobacco manufactures....	1919	127	1,513	206	949	1,722	3,871	Clothing, women's.....	1919	11	464	74	239	901	1,525
	1914	180	2,978	203	1,014	1,410	3,857		1914	6	420	54	122	433	697
	1909	215	3,065	213	844	1,172	3,615		1909	7	421	103	128	285	550
Tools, not elsewhere specified.	1919	10	209	596	203	311	927	Copper, tin, and sheet-iron work.	1919	5	37	19	44	45	122
	1914	11	207	465	121	160	434		1914	7	55	17	42	42	112
	1909	15	244	638	152	217	573		1909	8	48	5	22	31	67
Vinegar and cider.....	1919	5	54	92	63	480	709	Flour-mill and gristmill products.	1919	4	35	278	32	425	465
	1911	3	12	8	10	102	156		1914	5	63	330	35	614	754
									1909	4	19	208	6	189	227
All other industries.....	1919	351	10,592	34,352	12,202	56,939	87,060	Foundry and machine-shop products. ⁴	1919	31	1,186	2,732	1,314	1,714	4,057
	1914	335	9,664	25,422	6,337	22,863	35,176		1914	16	553	1,037	356	548	1,509
	1909	376	9,821	29,090	4,640	24,511	38,973		1909	20	1,083	2,467	567	853	2,218
READING.	1919	527	29,122	57,559	29,624	82,094	141,561	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	7	192	616	185	555	871
All industries.	1914	486	24,131	46,702	11,885	31,380	53,232		1914	9	255	755	166	375	732
	1909	482	24,145	43,193	11,011	29,848	51,135		1909	9	389	737	212	603	933
Boxes, set-up paper boxes.	1919	7	187	102	113	222	409	Mineral and carbonated waters.	1919	10	41	86	35	143	339
	1914	6	149	133	55	90	172		1914	9	28	37	19	19	82
	1909	6	145	115	50	79	164	Printing and publishing ⁵ .	1919	43	733	913	680	1,385	3,103
Brass, bronze, and copper products.	1919	6	126	70	142	340	620		1914	49	811	777	679	686	2,079
	1914	7	93	73	56	156	239		1909	48	588	700	354	445	1,309
	1909	8	57	72	80	91	149	Silk goods, including throwsters.	1919	32	4,197	7,970	2,251	7,656	13,134
Bread and other bakery products.	1919	47	377	403	327	1,370	2,304		1914	19	3,330	5,133	976	4,138	5,755
	1914	48	414	410	213	642	1,109		1909	15	3,814	4,738	976	4,640	6,031
	1909	55	342	282	191	536	950	Tobacco, cigars.....	1919	11	165	18	124	252	532
Copper, tin, and sheet-iron work.	1919	11	34	1	37	57	119		1914	24	379	178	127	349	735
	1914	5	22	9	15	22	43		1909	28	264	135	88	268	618
	1909	3	13	3	9	15	33	All other industries.....	1919	114	7,086	16,494	6,793	14,537	25,316
Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	6	182	951	156	465	890		1914	115	6,073	15,463	3,179	7,800	14,763
	1914	4	121	665	54	114	20		1909	103	5,784	10,917	2,572	6,330	12,722
	1909	4	272	625	84	134	29	WILKES-BARRE.	1919	179	9,408	14,846	8,318	20,083	41,986
Foundry and machine-shop products. ²	1919	62	3,180	6,787	3,553	4,535	11,138	All industries.	1914	188	8,107	11,867	3,836	8,014	16,734
	1914	37	2,860	3,845	1,321	1,765	4,363		1909	176	7,553	12,109	3,323	6,433	13,526
	1909	37	2,882	3,389	1,384	1,716	3,889	Bread and other bakery products.	1919	19	272	329	248	899	1,554
Knit goods.....	1919	50	6,818	3,098	5,194	19,117	33,786		1914	22	228	170	118	422	723
	1914	38	4,258	2,624	1,030	3,593	6,501		1909	28	196	126	109	418	660
	1909	38	4,396	2,097	1,323	2,132	4,551	Flour-mill and gristmill products.	1919	3	21	127	20	186	248
Liquors, malt.....	1919	4	111	1,563	141	532	1,994		1914	3	25	157	11	203	237
	1914	4	119	1,800	131	484	1,443		1909	4	18	270	10	293	392
	1909	4	105	1,555	73	349	1,417	Foundry and machine-shop products.	1919	11	95	274	113	242	528
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	4	91	280	86	231	433		1914	9	26	258	73	147	300
	1914	6	267	834	135	375	614	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	6	47	286	37	72	151
	1909	6	222	722	106	306	547		1914	7	90	271	64	101	133
Marble and stone work...	1919	8	70	239	90	143	379		1909	6	90	205	41	98	193
	1914	9	84	104	55	48	132	Marble and stone work...	1919	5	15	65	19	37	104
	1909	9	91	179	53	47	156		1914	6	26	60	25	38	91
Mineral and carbonated waters.	1919	6	15	24	13	87	142	Printing and publishing ³ .	1919	26	281	443	323	403	1,325
	1914	9	23	40	16	35	65		1914	33	420	346	289	264	925
Models and patterns, not including paper patterns.	1919	6	54	80	49	56	151		1909	31	327	320	206	206	768
	1914	8	34	54	20	26	64	Silk goods, including throwsters.	1919	8	2,327	3,896	1,285	1,867	6,024
Printing and publishing ³ .	1919	39	379	472	344	508	1,564		1914	5	1,594	1,891	389	748	1,625
	1914	37	324	483	224	200	890		1909	6	1,083	1,866	247	407	1,066
	1909	37	276	355	199	162	743	All other industries.....	1919	101	6,350	9,426	6,273	16,377	32,051
Shirts.....	1919	7	216	46	150	575	1,076		1914	103	5,698	8,714	2,867	6,086	12,650
	1914	7	244	44	78	149	283		1909	101	5,839	9,322	2,710	5,011	10,509
Silk goods.....	1919	3	204	221	142	997	1,343								
	1914	5	273	244	94	305	531								

¹ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."² Includes "automobile repairing"; "hardware"; "iron and steel, cast-iron pipe"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "steam fittings and steam and hot-water heating apparatus" in 1914 and 1909.³ Includes "bookbinding and blank-book making."⁴ Includes "iron and steel, welding"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; "automobile repairing"; "engines, steam, gas, and water," in 1919 and 1909; "hardware"; "plumbers' supplies, not elsewhere specified"; and "pumps, steam," in 1919; and "hardware, saddlery," in 1909.⁵ Includes "bookbinding and blank-book making" and "lithographing."

MANUFACTURES—PENNSYLVANIA.

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TABLE 51.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.			INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Primary horse- power.	Wages.		
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
BEAVER FALLS.....	1919	71	3,204	9,334	4,134	10,532	20,414	MOUNT CARMEL.....	1919	35	1,221	627	693	1,797	3,382
	1914	59	2,639	7,327	1,616	4,222	7,963		1914	30	978	407	287	709	1,280
	1909	44	2,180	6,141	1,218	3,015	6,400		1909	20	600	322	144	416	785
BRADDOCK.....	1919	49	1,170	10,376	2,245	5,906	9,439	NANTICOKE.....	1919	36	1,029	885	507	828	2,015
	1914	39	1,140	8,266	804	2,651	4,022		1914	35	747	798	183	417	995
	1909	41	1,040	7,832	785	3,347	5,094		1909	16	344	487	118	176	416
BRADFORD.....	1919	83	1,539	6,938	1,780	6,392	10,861	NEW CASTLE.....	1919	87	8,014	73,591	14,488	64,866	91,371
	1914	71	1,178	3,937	687	2,617	4,034		1914	95	6,381	71,118	5,058	29,547	38,385
	1909	82	1,318	3,866	655	2,442	3,887		1909	82	5,521	64,897	4,024	31,134	38,341
BRISTOL.....	1919	34	1,470	5,380	1,386	2,592	5,698	NORRISTOWN.....	1919	100	3,534	8,611	3,454	9,507	18,334
	1914	32	1,809	4,487	811	4,137	5,037		1914	105	3,959	6,660	1,819	4,424	8,421
	1909	32	1,809	4,487	811	4,137	5,037		1909	111	3,818	5,713	1,553	3,274	7,325
BUTLER.....	1919	77	3,744	20,804	4,733	33,740	44,477	OIL CITY.....	1919	37	3,306	6,178	4,765	5,497	14,060
	1914	69	3,303	13,875	2,051	11,005	15,006		1914	36	2,270	4,447	1,559	2,041	4,872
	1909	60	2,807	11,885	1,501	7,581	11,034		1909	33	1,283	2,467	872	1,380	2,955
CARBONDALE.....	1919	43	861	2,107	730	1,514	3,188	PHOENIXVILLE.....	1919	32	2,410	20,544	2,829	7,672	12,435
	1914	43	1,897	2,196	945	1,531	3,170		1914	34	2,927	19,081	1,543	3,789	6,239
	1909	34	1,503	1,407	636	1,253	2,523		1909	31	2,599	15,152	1,180	3,717	5,876
CARLEISLE.....	1919	44	1,422	1,553	1,066	3,404	6,543	PITTSBURGH.....	1919	40	974	2,189	735	1,742	3,336
	1914	50	1,003	2,375	701	2,073	3,415		1914	39	720	2,102	354	787	1,900
	1909	50	1,334	1,735	511	1,431	2,496		1909	40	792	2,133	316	1,067	1,969
CARNEGIE.....	1919	26	222	1,662	278	1,928	2,790	PLYMOUTH.....	1919	21	588	1,043	290	653	1,285
	1914	19	337	1,342	231	902	1,724		1914	17	478	963	173	441	831
	1909	18	337	1,145	220	627	1,184		1909	23	908	1,412	281	704	1,179
CHAMBERSBURG.....	1919	56	1,096	4,641	2,241	4,432	8,792	POTTSBURGH.....	1919	86	4,090	30,124	4,264	15,516	23,583
	1914	59	1,650	3,741	755	1,547	3,075		1914	77	2,622	18,578	1,156	6,190	8,866
	1909	57	1,364	3,126	599	1,170	2,456		1909	77	3,619	17,420	1,722	8,998	12,502
CHARLOTTE.....	1919	35	2,023	4,072	2,217	2,568	5,687	POTTSVILLE.....	1919	91	2,977	23,507	2,858	10,067	16,115
	1914	29	1,904	4,025	1,061	1,272	2,909		1914	115	3,506	25,078	1,474	7,111	10,196
	1909	29	1,904	4,025	1,061	1,272	2,909		1909	90	2,808	15,232	1,276	5,824	8,979
COLUMBIA.....	1919	56	2,322	4,067	2,117	5,295	9,812	PUNXSUTAWNEY.....	1919	36	457	3,057	613	2,093	3,268
	1914	61	2,141	4,146	825	1,555	3,341		1914	34	710	4,889	510	1,420	2,223
	1909	47	2,773	6,589	1,107	2,671	4,807	SHAMOKIN.....	1919	67	3,251	4,974	2,122	8,222	11,600
CONNELLVILLE.....	1919	51	1,623	6,884	1,979	2,017	4,664		1914	51	2,634	2,706	1,030	3,556	5,642
	1914	42	1,087	3,205	689	789	1,994		1909	39	1,623	1,862	499	2,129	3,544
	1909	39	1,035	4,626	576	817	1,971	SHARON.....	1919	40	2,707	24,549	4,338	10,673	18,030
DU BOIS.....	1919	41	1,397	2,953	1,851	1,298	3,933		1914	48	2,298	18,762	1,840	3,551	6,373
	1914	34	1,105	3,130	686	1,245	2,395		1909	44	2,545	22,192	1,500	3,791	5,962
	1909	36	920	3,174	484	829	1,753	SHEPHERDSTOWN.....	1919	39	759	1,049	515	2,341	4,028
DUNMORE.....	1919	27	1,360	1,491	1,468	1,712	3,628		1914	46	475	1,497	209	912	1,573
	1914	24	948	1,731	852	477	1,269		1909	29	242	1,382	134	336	888
	1909	18	1,019	1,266	369	528	1,494	SUNBURY.....	1919	45	2,128	2,168	2,387	5,823	10,181
EASTON.....	1919	102	4,672	9,962	5,304	14,034	27,012		1914	44	1,718	3,091	912	2,782	5,116
	1914	118	4,062	7,272	2,278	4,071	10,357		1909	39	2,069	2,835	1,118	2,228	4,450
	1909	126	3,388	5,905	1,524	3,424	6,915	TAMAQUA.....	1919	31	806	1,115	706	1,771	2,957
GREENSBURG.....	1919	66	653	2,724	741	1,954	4,000		1914	46	974	995	448	1,084	1,687
	1914	53	494	1,043	402	536	1,382	UNIONTOWN.....	1919	48	573	2,103	718	1,730	3,320
	1909	46	270	538	147	313	687		1914	43	776	2,195	488	772	2,237
HAZLETON.....	1919	74	3,815	6,120	3,091	8,855	14,830		1909	41	335	1,620	225	379	1,347
	1914	76	2,744	3,334	1,217	3,271	5,594	WARREN.....	1919	89	2,154	7,039	2,415	11,795	18,092
	1909	77	2,682	3,112	940	2,702	4,707		1914	72	1,876	4,347	1,244	5,781	8,611
HOMESTEAD.....	1919	45	513	1,521	683	2,004	3,759		1909	72	1,489	3,960	836	3,676	5,744
	1914	30	200	1,276	178	459	1,019	WASHINGTON.....	1919	92	2,880	7,880	3,389	6,153	13,838
	1909	26	171	890	111	322	659		1914	64	2,002	4,016	1,217	2,844	5,094
LEBANON.....	1919	103	5,051	34,873	5,259	11,748	23,242		1909	78	1,896	2,891	1,009	2,062	4,311
	1914	97	5,270	22,201	2,370	5,109	9,871	WEST CHESTER.....	1919	52	1,005	2,036	1,078	1,688	3,995
	1909	109	5,591	21,717	2,441	6,778	11,429		1914	55	894	1,678	537	773	2,085
MCKEESPORT.....	1919	82	11,909	78,248	20,260	58,844	105,059		1909	35	916	934	478	667	2,146
	1914	73	8,857	55,599	5,248	20,917	33,743	WILKINSBURG.....	1919	49	323	1,701	374	893	1,703
	1909	68	8,246	49,935	6,031	27,296	42,495		1914	29	194	1,094	144	262	572
MCKEES ROCKS.....	1919	34	3,114	23,197	4,053	6,109	13,202		1909	24	185	1,016	129	262	538
	1914	39	3,548	11,534	2,419	3,955	7,894	WILLIAMSPORT.....	1919	145	8,566	21,644	8,521	23,255	41,659
	1909	30	3,554	8,522	2,280	3,368	9,582		1914	176	6,015	12,041	3,190	6,625	15,864
MAHANAY CITY.....	1919	24	450	498	264	502	1,087		1909	154	5,594	11,628	2,478	6,992	13,202
	1914	33	661	833	255	413	1,057	YORK.....	1919	273	13,368	30,032	12,655	29,374	69,589
	1909	33	590	753	166	383	868		1914	247	10,851	18,965	5,081	11,161	22,043
MEADVILLE.....	1919	43	1,841	3,356	2,010	3,788	7,949		1909	214	9,836	14,799	4,200	8,304	17,660
	1914	57	1,676	2,895	879	1,866	5,058								
	1909	50	2,036	2,467	969	1,674	3,498								

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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	All industries.....	27,973	1,323,662	27,433	46,470	74,925	38,997	1,135,837	De 1,197,667	My 1,083,521	(3)	(3)	(3)	(3)	(3)	Dollars. 6,177,729,965
2	Agricultural implements.....	27	1,087	22	76	158	60	1,371	My 1,531	Se 987	1,505	1,494	11	.....	.....	8,626,304
3	Ammunition.....	10	904	7	138	71	19	669	Ja 2,919	Je 323	1,033	771	262	.....	.....	6,105,657
4	Artificial flowers.....	14	513	13	11	24	15	455	Mh 482	Ja 428	1,401	184	246	8	23	596,174
5	Artificial limbs.....	21	96	19	9	9	4	55	De 60	Ja 51	60	57	2	1	.....	1,434,715
6	Artificial stone products.....	99	505	120	26	18	7	334	Se 406	Ja 257	398	397	1	.....	.....	1,234,335
7	Artists' materials.....	9	133	11	13	16	33	110	De 130	My 104	130	95	33	5	3	726,895
8	Asbestos products, not including steam packing.....	9	1,280	2	47	50	31	1,150	Ja 1,271	Au 1,051	1,204	1,042	145	0	11	6,010,132
9	Automobile bodies and parts.....	177	11,815	106	389	697	289	10,274	De 12,895	Ja 8,329	12,850	12,574	231	45	.....	37,375,912
10	Automobiles.....	25	5,342	2	108	494	244	4,434	De 4,966	Ja 3,755	5,108	4,990	115	3	.....	23,172,033
11	Automobile repairing.....	1,359	7,607	1,582	253	284	263	5,225	Au 5,505	Ja 4,797	5,473	5,385	39	49	.....	15,264,528
12	Awnings, tents, and sails.....	92	410	98	26	18	7	261	Ja 343	No 197	273	160	112	1	.....	2,674,764
13	Babbitt metal and solder.....	19	308	14	18	30	13	233	.....	.....	223	221	.....	2	.....	1,762,217
14	Babbitt metal.....	9	209	4	13	25	3	164	Fe 213	Oc 134	145	145	.....	.....	.....	1,190,351
15	White metal and type metal.....	4	80	5	4	4	7	60	No 71	My 48	67	65	.....	2	.....	457,131
16	Solder.....	6	19	5	1	1	3	9	Jy 11	Ja 8	11	11	.....	.....	.....	114,735
17	Bags, other than paper, not including bags made in textile mills.....	14	413	19	6	26	13	349	Au 380	Mh 304	374	145	223	.....	6	1,428,322
18	Bags, paper, not including bags made in paper mills.....	13	347	13	9	7	11	307	De 332	Mh 283	346	194	148	3	1	1,107,868
19	Baking powders.....	7	22	5	2	7	.....	8	(6)	8	8	6	2	.....	.....	86,664
20	Baskets, and rattan and willow ware.....	32	402	35	10	26	20	311	Se 340	Ja 268	330	240	80	4	6	579,544
21	Belting and hose, woven, other than rubber.....	9	888	2	34	103	76	673	No 788	Je 583	777	461	288	13	15	4,057,977
22	Belting, leather.....	17	633	16	48	77	78	414	Oc 457	Je 352	448	413	34	1	.....	4,151,003
23	Billiard tables and accessories.....	4	30	4	3	.....	2	21	Oc 23	Ja 17	23	22	.....	1	.....	116,501
24	Blacking, stains, and dressings.....	16	148	14	15	19	10	90	No 99	Ja 83	100	42	57	.....	1	537,433
25	Bluing.....	6	61	6	3	4	4	44	Au 49	Ja 39	40	17	22	.....	1	85,455
26	Bone, carbon, and lamp black.....	5	114	.....	20	6	2	86	De 92	Au 82	92	91	1	.....	.....	581,910
27	Bookbinding and blank-book making.....	109	1,776	110	68	39	40	1,519	No 1,591	Ja 1,441	1,623	739	831	25	28	2,706,534
28	Boot and shoe cut stock.....	11	433	10	17	29	10	367	No 410	Jy 332	376	294	64	8	10	3,468,755
29	Boot and shoe findings.....	16	224	27	11	10	18	158	No 192	Fe 124	194	129	62	1	2	620,708
30	Boots and shoes, not including rubber boots and shoes.....	123	14,730	115	571	374	353	13,317	De 13,871	Ja 12,506	14,050	7,012	5,267	505	375	36,631,318
31	Boxes, cigar.....	52	1,624	56	45	15	12	1,496	De 1,592	Ja 1,442	1,599	721	812	30	38	1,979,583
32	Boxes, paper and other, not elsewhere specified.....	150	5,859	137	251	131	141	5,209	.....	.....	5,882	1,985	3,480	129	288	9,484,919
33	Shipping containers.....	11	653	4	34	42	24	549	De 693	Mh 403	693	362	312	6	13	1,590,558
34	Set-up paper boxes.....	117	4,420	114	171	54	90	3,991	De 4,358	Ja 3,670	4,441	1,219	2,803	112	247	5,932,272
35	Cartons.....	17	712	12	38	34	24	604	De 668	Ja 577	670	371	261	10	28	1,864,578
36	All other.....	5	84	7	8	1	3	65	Oc 78	Ja 45	78	33	44	1	.....	97,511
37	Boxes, wooden packing, except cigar boxes.....	63	1,618	58	111	27	21	1,401	De 1,573	My 1,227	1,562	1,495	25	42	.....	5,420,064
38	Brass, bronze, and copper products.....	125	4,995	89	339	330	184	4,053	.....	.....	4,470	4,341	132	6	.....	21,815,742
39	Brass and bronze products.....	112	4,366	80	307	286	171	3,522	De 3,951	Je 3,123	3,948	3,810	132	6	.....	17,896,978
40	Copper products.....	7	277	7	17	17	6	230	Ja 258	Jy 217	230	230	.....	.....	.....	1,124,393
41	All other.....	6	352	2	15	27	7	301	Jy 313	Ap 289	301	301	.....	.....	.....	2,794,366
42	Bread and other bakery products.....	2,651	22,900	2,960	554	2,193	783	16,410	.....	.....	17,255	13,061	3,994	150	50	88,798,438
43	Biscuit and crackers.....	18	4,446	6	78	400	162	3,740	Ja 4,158	Ap 3,583	3,856	1,786	2,037	14	19	11,587,068
44	All other.....	2,633	18,454	2,954	470	1,733	621	12,670	De 13,289	Ja 12,006	13,399	11,275	1,957	136	31	77,181,370
45	Brick and tile, terra-cotta, and fire-clay products.....	303	17,438	144	738	467	192	15,897	.....	.....	17,034	16,766	126	133	6	74,250,630
46	Building brick.....	170	5,549	102	315	113	61	4,958	Au 5,656	Fe 3,387	5,764	5,723	18	23	.....	19,165,462
47	Fire brick.....	76	6,368	12	236	171	69	5,380	Ja 6,702	My 5,567	6,008	5,893	22	92	1	26,003,967
48	Stove lining.....	6	72	8	3	8	.....	53	Fe 56	My 51	55	55	.....	.....	.....	195,070
49	Sewer pipe and drain tile.....	8	674	1	32	10	5	626	Oc 689	Ja 542	676	662	6	8	.....	2,381,132
50	Terra-cotta products.....	19	962	12	48	34	19	849	De 1,035	Mh 631	954	864	78	7	5	3,587,014
51	Silicate, magnesite, and bauxite brick and shapes.....	21	3,722	.....	98	129	38	3,457	Ja 4,252	My 2,879	3,505	3,502	2	1	.....	22,734,213
52	All other.....	3	91	9	6	2	.....	74	Ja 89	Jy 63	72	70	.....	2	.....	183,772
53	Brooms.....	110	748	127	25	38	11	547	.....	.....	640	591	34	7	8	1,661,379
54	From broom corn.....	102	729	118	25	37	11	538	No 628	Mh 458	629	584	32	5	8	1,625,725
55	All other.....	8	19	9	1	1	.....	9	De 11	Ja 7	11	7	2	2	.....	35,664
56	Brushes.....	40	495	45	43	21	14	372	Jy 188	My 163	390	324	57	0	3	1,344,653
57	Paint and varnish.....	9	225	11	24	4	5	181	De 203	Ja 180	185	143	38	1	3	821,063
58	All other.....	31	270	34	19	17	9	191	De 397	Ja 316	205	181	19	5	.....	523,590
59	Butter.....	160	589	167	33	9	23	357	Jy 397	Ja 316	349	337	11	1	.....	2,593,626
60	Buttons.....	24	904	24	36	26	11	807	No 855	Ap 744	927	557	347	6	17	1,553,839
61	Canning and preserving, fish.....	4	36	3	6	13	3	11	De 16	My 7	16	14	2	.....	.....	84,141
62	Canning and preserving, fruits and vegetables.....	42	829	57	40	14	7	711	.....	.....	2,098	971	1,032	47	48	2,100,567
63	Canned vegetables.....	36	640	47	33	8	4	548	Se 1,844	Mh 35	1,668	774	817	37	40	1,488,405
64	Canned and dried fruits.....	6	189	10	7	6	3	163	Se 509	Ja 20	430	197	215	10	8	1,621,162
65	Card cutting and designing.....	17	182	18	9	4	4	147	De 162	Ja 135	164	93	02	7	2	313,855
66	Carpets and rugs, other than rag.....	48	8,188	37	232	196	97	7,626	De 8,813	Fe 5,806	8,915	5,535	3,136	119	125	48,865,640
67	Carpets, rag.....	56	807	73	24	32	10	668	De 827	Ja 529	827	524	264	13	26	1,196,507
68	Carriage and wagon materials.....	19	212	16	18	.....	2	176	De 181	Ja 170	179	178	.....	1	.....	519,496
69	Carriages and sleds, children's.....	12	729	9	21	19	24	656	Se 795	Ja 490	701	331	107	135	38	1,465,539
70	Carriages and wagons, including repairs.....	337	1,894	393	65	29	16	1,388	.....	.....	1,385	1,368	5	12	.....	4,436,793
71	Carriages and wagons.....	146	1,303	176	51	26	17	1,033	Au 1,063	Ja 968	1,002	993	4	5	.....	3,160,256
72	Repair work only.....	191	591	217	14	3	2	355	Oc 370	Ja 332	383	375	1	7	.....	1,276,537
73	Cars and general shop construction and repairs by electric-railroad companies.....	80	4,361	.....	152	73	14	4,122	Ja 4,298	Je 4,023	4,172	4,017	162	3	.....	8,140,200

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 No figures given for reasons stated under "Explanation of terms."

COMBINED AND SPECIFIED INDUSTRIES: 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	Rent- ed. ²	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
164,637,252	170,125,063	1,406,066,138	45,761,912	21,701,699	222,189,736	3,863,317,807	342,090,821	7,315,702,867	3,105,294,239	4,454,386	2,607,091	562,699	256,067	40,617	987,912	1,681,407	1	
220,501	269,487	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	2		
305,449	120,176	618,030	124,014	2,705	228,843	1,964,498	65,816	3,393,738	1,363,424	2,600				2,600		3		
39,800	45,191	250,222	25,004	20,601	25,535	576,767	14,169	1,500,689	909,753	53				48		4		
15,803	14,729	74,007		14,174	931	62,615	1,605	271,172	206,952	59				5		5		
43,618	25,658	411,354	28,612	8,734	8,937	596,395	20,692	1,443,960	826,873	1,009	215	195		599		6		
31,089	47,136	87,624	133,140	4,010	2,600	273,234	8,285	633,575	352,056	377		50		327		20		
288,673	146,794	1,343,507		12,170	272,955	4,490,627	92,405	7,810,548	3,227,516	2,771	1,490			1,281		847		
1,106,427	1,215,323	13,146,068	25,086	211,992	1,483,103	24,054,703	653,190	45,329,223	20,621,240	17,950	2,912	150	509	5	14,374	1,183	9	
608,533	1,075,566	5,703,126	1,432	121,747	2,632,401	51,220,062	200,847	68,490,911	17,070,002	5,413	628		220		4,565	140	10	
527,491	523,794	6,864,510	146,049	698,728	110,659	8,068,450	295,523	20,682,253	12,318,280	7,109	621		1,431	9	5,048	90	11	
70,416	29,048	260,018	6,325	29,632	10,776	1,114,297	8,558	1,883,838	761,063	183					183		12	
64,830	61,030	313,336		7,882	28,441	1,718,405	24,869	2,445,507	707,233	480	330		65		91	235	13	
41,912	33,427	235,137		4,772	23,649	1,284,108	16,683	1,787,221	486,430	392	330				62	235	14	
20,918	14,363	67,643		1,005	4,748	326,941	4,408	516,989	185,640	47			20		27		15	
2,000	3,240	10,556		2,105	44	102,366	3,778	141,297	35,163	47			45		2		16	
34,674	70,315	267,589		19,920	11,798	5,219,440	6,781	6,979,582	1,753,361	202					202		17	
25,624	27,558	236,288	400	3,753	61,337	1,178,462	6,754	1,833,856	648,640	281	100		75		46	28	18	
4,820	4,272	9,643		1,870	93	142,626	1,584	215,971	71,761	396	380		4		12	1	19	
37,769	59,200	267,524	7,249	17,615	5,076	848,538	3,012	1,429,859	577,709	108	40		2		66		20	
263,106	246,532	596,653		1,068	147,671	2,584,768	48,575	4,557,899	1,924,556	1,499	425				1,074		21	
213,911	182,985	475,205	111,125	44,712	75,928	3,547,550	30,513	5,574,105	1,996,042	597	400		61		136	143	22	
4,380	1,616	29,106		3,900	2,320	61,903	730	127,267	64,634						36		23	
32,537	50,607	62,410	8,251	7,157	4,579	599,737	6,505	949,883	373,641	135	68		37		30	15	24	
5,667	5,797	31,233		2,897	6,552	136,993	4,832	230,397	88,572	84			10		74		25	
51,801	10,595	114,486	4,500	1,500	8,364	132,263	22,714	606,982	462,005	252	75		49		128		26	
199,100	129,506	1,236,541	9,043	116,373	106,204	1,687,019	33,941	4,537,388	2,816,428	741			16		725		27	
90,757	68,881	276,611		7,053	202,440	8,519,755	18,808	11,073,502	2,534,939	495	300		2		193	45	28	
18,356	36,003	139,412	75,784	13,686	934	986,104	13,245	1,489,090	489,741	198			10		183		29	
1,812,607	1,230,038	10,960,861	197,412	214,409	1,229,327	40,738,166	233,797	65,411,673	24,439,720	6,629	4,150		80		2,393	1,502	30	
85,406	30,844	804,030	24,303	12,534	37,235	1,855,397	36,097	3,421,948	1,530,454	1,560	1,086		45		429	25	31	
687,604	313,748	3,300,037	20,281	219,937	284,068	6,405,141	143,831	14,002,789	7,393,817	3,188	1,037	15	157	12	1,967	462	32	
105,606	73,578	456,247		35,124	13,426	1,298,075	25,416	2,414,682	1,090,591	613	380				233	225	33	
455,243	159,010	2,344,159	10,321	146,045	197,395	3,805,446	84,074	8,895,090	5,005,570	1,845	317	15	126		1,387	71	34	
118,476	77,979	455,094	960	20,835	73,213	1,298,602	28,553	2,546,720	1,210,565	610	240		27	12	331	79	35	
8,339	2,281	44,537		8,033	34	62,418	5,788	146,297	78,091	120	100		4		16	87	36	
345,314	62,133	1,531,934	4,804	17,011	82,054	4,540,555	60,850	7,556,989	2,955,584	5,826	4,168	400	135	40	1,383	153	37	
1,201,234	624,217	5,161,263	151,904	65,883	871,025	20,721,204	706,111	33,496,320	12,069,005	10,577	3,127		606		6,844	1,621	38	
1,092,092	556,205	4,510,410	151,904	55,276	820,305	17,660,994	610,881	28,795,071	10,533,198	7,755	1,362		589		5,817	1,598	39	
38,232	23,538	262,637		7,821	6,184	1,010,970	31,443	1,711,267	686,738	340	100		10		230	23	40	
70,910	44,414	398,216		2,786	38,479	2,059,234	63,657	2,689,992	867,071	2,482	1,675		10		797		41	
1,679,786	4,747,048	17,352,111	115,488	726,329	1,622,385	81,393,416	2,080,447	182,880,426	49,406,563	20,011	5,790	196	1,226	13	12,786	3,875	42	
346,639	1,249,217	2,585,030		36,348	440,175	9,887,342	178,474	19,422,607	9,366,791	3,198	2,468	100	5		625	1,638	43	
1,333,150	3,497,831	14,706,811	115,488	689,981	1,182,210	71,506,074	1,901,973	113,457,819	40,049,772	16,813	3,322	96	1,221	13	12,161	2,237	44	
2,052,499	1,019,954	16,155,054	69,950	70,986	1,040,786	10,164,224	6,347,407	43,842,120	27,336,489	69,211	37,676	1,395	5,673		24,567	2,705	45	
677,951	186,658	5,455,421	45,025	43,344	179,127	1,604,718	2,508,120	12,660,019	8,547,181	32,086	15,592	470	4,267		11,767	314	46	
696,851	402,159	5,602,944	6,895	4,640	435,597	3,861,889	1,915,899	15,142,139	9,364,351	18,087	13,238	275	768		3,806	1,163	47	
20,887	9,606	54,788	6,667	1,200	1,535	70,308	11,712	236,656	164,636	129	80		37		12		48	
81,571	21,026	678,620		784	44,419	159,880	209,285	1,611,171	1,241,996	2,170	2,125	25			20	183	49	
138,078	58,549	1,026,900	5,343	5,018	21,996	331,105	340,720	2,327,593	1,655,743	4,063	1,846		531		1,686	220	50	
423,459	340,160	3,260,087	5,130	13,000	355,715	4,105,723	1,329,104	11,653,091	6,218,264	12,149	4,480	625	80		6,964	825	51	
13,702	1,737	86,324		3,000	2,427	30,001	32,557	211,476	148,318	527	215				312		52	
60,693	72,025	530,773	4,502	14,717	14,652	1,514,120	20,672	2,638,608	1,103,816	721	190				378	48	53	
60,693	70,984	530,977	3,536	12,216	14,447	1,465,243	20,536	2,639,628	1,083,846	692	190				362	48	54	
	1,041	9,796	900	2,601	205	48,877	136	98,980	49,997	29					26		55	
117,772	60,840	327,380	1,578	24,332	14,654	1,047,935	11,354	1,663,650	904,368	267	85				173		56	
75,299	34,553	163,564		9,780	11,524	641,670	4,240	1,093,700	447,780	132	35				87		57	
42,473	20,293	163,816	1,578	14,572	3,030	406,268	7,114	869,950	456,568	135	50				76		58	
48,527	24,218	334,822	4,548	4,726	20,658	8,212,597	120,493	9,718,065	1,385,065	3,814	2,037	73	106	10	1,088	10	59	
202,657	52,548	1,612,061	4,767	32,205	84,624	935,110	27,071	2,818,556	1,356,375	789	250	300	29		2,021	356	60	
2,058	9,182	12,718	120	420	1,050	60,935												

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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	Cars and general shop construction and repairs by steam-railroad companies.	195	82,347	.....	2,440	300	858	78,740	No 84,367 Ap 71,079	84,359	83,107	1,250	2	.....	Dollars. 108,688,781
2	Cars, steam-railroad, not including operations of railroad companies.	15	13,307	.....	270	1,075	287	11,075	Ja 16,239 Oc 7,394	11,710	11,557	146	7	.....	98,092,625
3	Cement.	22	8,971	2	95	1,072	359	7,443	Oc 8,368 Fe 6,310	7,993	7,909	59	25	.....	62,354,245
4	Cheese.	64	297	52	27	21	0	188	Jy 232 Fe 153	196	188	7	1	.....	1,243,006
5	Chemicals.	56	8,167	5	214	539	275	7,134	De 7,633 Mh 6,002	7,650	6,066	1,508	27	56	52,354,008	
6	Chocolate and cocoa products.	10	3,048	7	60	224	117	3,231	No 3,576 My 2,851	3,501	2,586	956	4	15	23,604,607	
7	Cleansing and polishing preparations.	49	344	44	31	93	38	138	De 109 My 68	150	67	81	1	1	1,108,979	
8	Cleansing preparations.	28	159	27	15	23	14	80	De 109 My 68	85	40	43	1	1	801,274	
9	Metal polish.	8	37	8	3	10	10	16	(3) 16 (3) 10	18	7	11	.....	.....	52,025
10	All other polishing preparations.	13	148	9	13	60	24	42	Se 67 Fe 31	47	20	27	.....	.....	255,680
11	Clocks.	4	10	2	4	60	2	2	(3) 2 (4) 1	2	2	1	.....	.....	52,330
12	Cloth, sponging and refinishing.	6	159	7	6	51	3	138	Oc 152 Ja 132	151	150	1	.....	.....	235,172
13	Clothing, horse.	8	138	7	10	23	1	97	No 107 Mh 83	107	63	44	.....	.....	405,139
14	Clothing, men's.	602	15,373	915	419	686	498	12,855	.....	14,915	6,407	8,128	163	217	36,535,676
15	Regular factory products.	316	10,843	509	345	679	478	8,834	.....	10,120	4,359	5,490	127	144	36,293,031
16	Men's and youths'.	233	8,764	367	263	578	414	7,132	De 8,005 Ja 6,224	8,074	3,922	3,901	123	128	26,568,647	
17	Boys' and youths'.	20	365	33	14	27	19	272	Oc 316 Ja 227	323	311	238	1	3	1,335,953	
18	All other.	63	1,724	109	68	74	43	1,430	No 1,770 Ap 1,033	1,723	356	1,351	3	13	4,398,431	
19	Contract work.	281	4,530	406	74	7	22	4,021	No 4,457 Fe 3,811	4,795	2,048	2,638	36	73	1,242,645	
20	Men's and youths'.	276	4,359	385	70	7	22	3,875	No 4,457 Fe 3,811	4,604	1,075	2,532	36	61	1,201,006	
21	Boys' and youths'.	10	151	15	4	.....	.....	132	Oc 164 Ja 107	161	60	89	.....	12	34,714
22	All other.	5	20	6	.....	.....	.....	14	Mh 104 Jy 9	30	13	17	.....	6	9,925
23	Clothing, men's, buttonholes.	15	112	23	.....	.....	.....	89	Oc 94 Ja 84	92	32	58	1	94	26,791
24	Clothing, women's.	615	17,070	907	504	781	514	14,364	.....	15,589	3,774	11,704	17	94	28,830,229
25	Regular factory products.	513	15,045	751	481	774	507	13,132	.....	14,113	3,339	10,680	17	77	28,420,409
26	Suits, skirts, and cloaks.	172	3,810	283	114	232	147	3,034	Au 3,504 Ja 2,609	3,291	1,886	1,396	3	6	7,901,755	
27	Shirt waists and dresses, except house dresses.	193	6,893	301	184	335	205	5,868	Ja 6,310 Ja 4,965	6,168	1,023	5,109	0	20	11,750,554	
28	Undergarments and petticoats.	36	1,785	27	80	92	64	1,522	No 1,694 Ja 1,289	1,671	126	1,522	1	22	3,609,195	
29	Wrappers and house dresses.	23	705	32	13	31	21	608	De 678 Ja 535	678	58	620	.....	.....	1,809,261
30	All other.	89	2,452	108	90	84	70	2,100	De 2,342 Ja 1,919	2,315	246	2,033	7	29	3,349,644	
31	Contract work.	102	1,425	156	23	7	7	1,232	.....	1,470	435	1,024	.....	17	409,820
32	Suits, skirts, and cloaks.	60	538	96	2	4	1	433	Se 538 My 306	508	334	173	.....	1	142,094
33	Shirt waists and dresses, except house dresses.	29	579	48	12	3	5	511	De 653 Ja 431	633	84	547	.....	2	207,420
34	Undergarments and petticoats.	7	170	3	4	.....	1	162	De 202 My 136	197	3	186	.....	8	38,726
35	All other.	6	140	9	5	.....	.....	126	De 138 Ja 116	138	14	118	.....	6	21,550
36	Coal-tar products.	19	1,933	6	185	297	137	1,333	Ja 1,650 Ap 980	1,622	1,573	47	2	.....	20,225,455
37	Coffee and spice, roasting and grinding.	85	1,001	85	54	257	83	522	.....	587	330	250	0	1	6,548,703
38	Coffee.	80	733	84	43	192	71	343	Se 346 Ja 341	344	226	111	0	1	4,880,157	
39	Spice.	5	268	1	11	65	12	179	De 243 Fe 101	243	104	139	.....	.....	1,668,546
40	Coffins, burial cases, and undertakers' goods.	41	2,148	42	113	120	40	1,824	My 1,877 De 1,752	1,784	1,468	299	14	3	8,287,756	
41	Coke, not including gas-house coke.	123	13,050	38	360	935	175	11,536	.....	12,472	12,463	3	6	.....	125,341,038
42	Ovens, other than by-product ovens.	112	8,865	38	213	542	103	7,969	Ja 9,441 Je 6,679	8,533	8,527	.....	0	.....	78,794,794
43	By-product ovens.	11	4,185	.....	153	393	72	3,507	Au 4,254 Je 3,180	3,939	3,936	3	.....	.....	51,546,244
44	Condensed milk.	49	1,002	0	89	75	74	1,355	Jy 1,559 Ja 1,086	1,317	1,155	157	5	.....	9,600,179
45	Confectionery and ice cream.	839	13,701	940	461	724	566	11,019	.....	11,756	5,842	5,485	209	220	36,859,964
46	Confectionery.	363	9,270	391	287	423	284	7,885	Oc 8,329 Je 7,319	8,755	3,180	5,212	194	219	18,978,005	
47	Ice cream.	470	4,431	549	174	301	282	3,129	Jy 3,854 Ja 2,401	3,001	2,712	273	15	1	17,881,959	
48	Cooperage.	92	1,367	90	67	27	23	1,149	.....	1,222	1,176	20	26	.....	5,233,151
49	Hogsheads and barrels.	84	1,185	84	56	25	20	1,000	Oc 1,067 My 931	1,060	1,042	13	5	.....	4,760,868
50	All other.	8	182	6	11	2	3	169	Ja 190 Ap 139	162	134	7	21	.....	472,283
51	Copper, tin, and sheet-iron work.	453	3,034	552	206	166	124	2,883	De 3,054 Mh 2,676	3,050	2,064	62	22	2	8,013,180	
52	Cordage and twine.	19	2,082	6	46	14	14	1,970	Oc 2,135 Mh 1,683	2,144	1,113	982	20	29	9,443,941	
53	Cordials and flavoring sirups.	10	883	5	13	99	41	225	Jy 329 Ja 148	251	220	31	.....	.....	1,869,535
54	Cork, cutting.	11	1,747	5	64	66	42	1,670	Fe 1,015 Je 1,523	1,601	978	554	23	46	6,612,020	
55	Corsets.	13	928	7	34	9	180	698	No 828 Ja 529	804	97	691	2	14	862,338	
56	Cotton goods.	118	10,618	110	331	235	175	9,787	De 10,611 Fe 8,734	10,700	5,653	4,772	134	141	45,864,475	
57	Cotton lace.	13	8,487	2	92	175	78	3,140	De 3,504 My 2,875	3,775	1,512	1,712	176	175	17,230,889	
58	Cotton small wares.	37	2,687	33	75	51	56	2,472	De 2,723 Fe 2,254	2,696	970	1,648	25	53	7,450,378	
59	Cruelies.	7	213	.....	29	14	8	162	De 189 Au 147	190	185	5	.....	.....	2,473,996
60	Cutlery and edge tools.	27	1,475	13	77	46	32	1,307	.....	1,455	1,201	148	14	2	5,006,909
61	Axes and hatchets.	8	775	5	27	19	13	711	Oc 793 De 377	795	739	53	3	.....	3,629,880
62	Scissors, shears, and clippers.	4	104	4	6	2	4	88	No 100 Ap 61	101	97	3	.....	.....	247,648
63	Pocketknives.	5	405	.....	22	20	10	353	De 394 Ja 330	394	296	86	10	2	802,424
64	All other.	10	191	4	22	5	155	155	No 170 Jy 145	165	159	6	.....	.....	326,957
65	Dairymen's and poultrymen's supplies.	17	823	8	58	36	32	689	De 793 My 624	750	688	58	4	.....	3,788,933
66	Dental goods.	56	3,460	57	133	182	235	2,853	.....	2,972	1,013	1,611	116	232	9,238,687
67	Teeth.	13	3,010	9	103	162	193	2,543	Jy 2,655 Ja 2,343	2,643	794	1,524	93	232	8,430,222	
68	All other.	43	450	48	30	20	42	310	Ja 330 Ja 284	329	219	87	23	.....	808,465
69	Drug grinding.	4	79	3	10	8	8	60	No 55 My 46	55	51	4	.....	.....	422,430
70	Druggists' preparations.	62	3,235	34	97	586	303	2,215	Oc 2,312 Ja 2,045	2,298	1,217	1,042	18	21	13,128,039	
71	Dyeing and finishing textiles, exclusive of that done in textile mills.	163	8,290	142	266	311	190	7,381	De 8,362 Mh 6,395	8,399	6,700	1,557	85	57	28,805,844	
72	Dyestuffs and extracts—natural.	12	519	4	29	33	27	426	No 463 My 391	452	451	.....	1	.....	3,721,936
73	Electrical machinery, apparatus, and supplies.	129	32,601	60	1,291	4,366	2,656	24,228	De 27,817 My 21,791	27,860	23,101	4,625	86	48	126,115,738	

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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.					Rented. ²
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars. 6,022,612	Dollars. 4,814,836	Dollars. 115,028,406	Dollars.	Dollars. 64,875	Dollars. 177,474	Dollars. 98,479,050	Dollars. 4,684,407	Dollars. 231,533,870	Dollars. 128,370,353	90,678	64,216	6,907	1,296	.....	18,259	61,786	1
1,201,387	2,485,003	16,737,740	.....	13,693	6,302,131	87,425,755	1,440,929	146,879,011	58,012,827	43,044	21,434	7,933	675	.....	13,002	29,724	2
1,391,345	2,054,980	9,594,037	53,449	692,872	1,168,463	16,289,288	9,084,447	54,539,872	29,106,137	98,058	79,671	12,759	22	.....	5,606	25,991	3
46,678	45,430	216,481	1,382	2,791	13,400	2,992,964	42,759	3,817,471	781,748	1,025	1,367	16	77	12	153	.....	4
1,190,401	1,191,699	9,854,310	95,369	18,496	12,076,417	24,723,050	2,053,100	73,332,932	46,551,782	30,334	9,741	5,557	400	.....	14,636	8,578	5
594,422	611,040	3,531,375	.....	1,080	3,052,873	31,799,653	462,611	48,660,497	16,398,233	11,025	7,675	.....	1,500	.....	1,850	7,477	6
95,061	133,389	92,414	3,143	23,105	43,422	773,197	10,786	1,488,095	704,112	391	84	.....	87	.....	27	.....	7
67,596	33,211	58,405	2,451	9,292	41,942	506,019	6,239	1,015,996	448,738	222	84	.....	71	.....	60	.....	8
6,300	11,104	10,711	.....	3,348	27	88,819	240	155,320	66,261	17	.....	.....	.....	.....	17	.....	9
21,165	89,074	23,298	692	10,465	1,453	118,359	4,307	316,779	194,113	152	.....	.....	16	.....	136	.....	10
4,250	928	2,584	150	1,560	311	35,543	394	39,444	3,507	27	.....	.....	27	.....	.....	.....	11
24,492	11,240	111,503	.....	12,974	2,351	29,717	12,906	238,261	195,638	281	150	.....	.....	.....	181	.....	12
37,948	8,588	49,141	7,766	4,419	652	270,303	5,668	447,042	171,073	98	72	.....	.....	.....	26	.....	13
1,352,169	1,696,230	11,777,050	5,838,712	649,693	467,522	37,976,089	233,313	73,160,811	34,959,909	3,323	1,118	.....	248	12	1,045	352	14
1,187,899	1,671,845	8,014,904	5,538,777	542,631	461,733	37,341,536	155,526	66,800,874	29,303,812	2,608	1,085	.....	197	12	1,314	330	15
982,676	1,481,296	6,964,522	5,267,098	461,278	425,087	31,155,218	127,527	57,485,842	26,203,097	2,017	1,077	.....	31	12	897	324	16
21,354	52,663	205,852	127,815	25,211	3,644	1,115,958	5,728	1,901,161	779,475	57	.....	.....	5	.....	52	.....	17
183,669	137,886	844,530	143,864	56,142	33,032	5,070,360	22,271	7,413,871	2,321,240	534	8	.....	161	.....	365	6	18
164,270	24,385	3,762,146	329,935	107,062	5,789	934,553	78,287	6,368,937	5,656,007	715	33	.....	51	.....	631	22	19
160,564	24,385	3,660,464	329,367	103,336	5,697	933,648	76,058	6,213,485	5,503,779	667	15	.....	45	.....	607	22	20
3,706	.....	92,600	568	2,471	92	823	1,923	139,743	130,997	36	18	.....	6	.....	12	.....	21
.....	.....	9,032	.....	1,255	.....	82	306	15,709	15,321	12	.....	.....	.....	.....	33	.....	22
.....	.....	82,416	750	4,721	165	17,854	1,067	146,696	127,775	33	.....	.....	.....	.....	33	.....	23
1,590,718	2,080,116	14,325,884	2,407,878	766,276	296,081	46,038,020	179,066	77,473,729	31,256,643	3,228	485	.....	43	.....	2,695	114	24
1,559,480	2,019,137	13,215,228	1,905,156	722,380	289,760	45,698,052	159,362	75,430,508	29,572,594	2,925	470	.....	38	.....	2,417	114	25
406,488	587,213	3,803,910	907,249	211,655	78,730	15,765,339	35,235	24,878,466	9,077,892	508	10	.....	.....	.....	498	.....	26
457,899	853,343	6,810,171	723,881	351,593	29,009	18,494,232	64,883	31,455,513	12,896,418	1,229	125	.....	.....	.....	1,104	4	27
338,642	240,261	867,142	145,088	46,811	147,115	5,227,781	25,300	8,268,337	3,010,256	461	210	.....	2	.....	249	110	28
49,985	122,696	427,874	42,434	24,595	20,282	1,793,752	8,207	2,988,478	1,186,514	317	125	.....	.....	.....	192	.....	29
276,469	235,624	1,306,131	86,524	87,736	14,618	4,416,948	20,257	7,844,719	3,401,514	410	.....	.....	36	.....	374	.....	30
31,238	10,979	1,110,656	502,722	43,916	6,321	339,968	19,204	2,043,221	1,084,049	298	15	.....	5	.....	278	.....	31
3,700	4,884	637,356	500,710	26,095	4	162,724	8,559	1,163,630	992,347	127	.....	.....	.....	.....	127	.....	32
18,940	4,685	314,693	.....	12,451	110	56,180	6,865	507,733	444,688	102	.....	.....	.....	.....	102	.....	33
4,918	1,410	70,142	.....	2,490	6,164	116,530	1,860	247,982	129,592	49	15	.....	.....	.....	28	.....	34
3,680	.....	88,465	2,012	2,850	43	4,534	1,920	123,876	117,422	26	.....	.....	5	.....	21	.....	35
340,449	374,155	2,384,077	.....	31,325	214,820	5,777,822	481,963	9,492,331	3,282,648	8,610	1,208	533	.....	.....	6,569	250	36
227,202	596,286	436,101	6,010	80,601	50,137	11,874,909	68,640	14,675,878	2,732,329	1,783	307	.....	253	.....	1,223	36	37
184,442	427,378	305,677	6,016	72,881	40,436	10,039,841	53,698	12,191,075	2,097,536	1,194	15	.....	233	.....	946	34	38
62,760	188,098	129,424	.....	7,720	9,701	1,835,068	14,942	2,484,803	634,793	589	292	.....	20	.....	277	2	39
306,588	260,952	1,824,382	954	43,467	588,377	4,584,922	76,467	9,811,901	4,047,512	3,120	1,585	.....	152	.....	1,883	1,506	40
763,718	1,808,628	15,553,532	6,918	127,519	2,170,358	10,560,096	69,793,625	119,730,589	39,376,888	72,752	17,435	40,608	.....	.....	14,709	53,942	41
1,432,157	1,020,844	9,379,779	6,918	127,287	1,455,561	5,678,448	42,916,012	70,160,342	21,874,882	17,630	9,267	1,368	.....	.....	7,000	9,641	42
671,641	787,784	6,173,753	.....	232	714,797	4,881,648	26,877,613	49,561,247	17,801,986	55,122	8,168	39,245	.....	.....	7,709	44,301	43
255,712	185,322	1,331,790	27,005	4,865	343,246	24,632,318	448,183	31,028,725	6,048,224	4,700	4,153	.....	16	5	616	1,297	44
2,145,452	1,742,556	8,953,733	31,588	485,816	2,556,826	41,411,279	1,118,612	71,120,044	28,900,153	20,742	7,487	258	3,641	2	15,854	2,626	45
1,590,794	1,073,716	5,380,644	12,861	344,782	1,815,353	23,176,753	396,224	41,998,799	17,822,822	8,399	3,008	.....	269	.....	5,122	965	46
548,658	668,840	3,573,089	18,725	141,034	741,468	18,234,626	719,388	29,721,245	10,767,331	18,343	4,479	258	3,372	2	10,232	1,561	47
227,861	64,178	1,282,509	148	44,260	169,623	6,745,147	55,713	9,873,569	3,072,709	2,948	1,927	140	168	23	690	1,959	48
193,137	59,275	1,156,790	148	43,780	135,274	6,068,112	50,090	8,908,538	2,790,336	2,808	1,887	140	168	23	590	1,959	49
29,724	4,903	126,719	.....	480	84,349	677,035	5,623	965,031	282,373	140	40	.....	.....	.....	100	.....	50
600,234	333,030	3,669,587	53,454	156,136	171,276	6,941,297	93,004	14,824,359	7,790,053	2,340	536	.....	539	8	1,266	720	51
369,260	94,249	1,723,360	267	43,860	102,623	8,858,552	109,739	9,843,454	3,875,183	5,283	4,786	.....	185	60	803	845	52
85,468	233,974	200,436	.....	32,721	120,007	1,722,635	28,611	3,334,628	1,583,382	473	436	.....	.....	1	87	.....	53
159,931	120,766	1,550,890	915	7,443	214,014	3,440,180	158,564	6,371,439	2,772,695	4,504	1,321	.....	.....	.....	3,183	1,075	54
79,131	133,451	359,424	64	16,828	26,213	884,224	9,879	2,071,850	1,178,253	197	.....	.....	.....	.....	197	.....	55
1,675,731	737,179	10,200,630	552,787	234,400	2,937,456	38,076,870	742,873	66,044,059	27,584,316	21,504	15,504	670	123	359	4,848	2,817	56
737,144	731,189	2,776,982	46,112	480	561,538	6,210,894	193,423	14,813,995	8,403,678	5,185	4,493	.....	40	.....	662	1,381	57
398,588	173,773	1,693,962	49,014	44,909	259,615	5,589,452	106,054	9,363,672	3,668,066	2,854	1,211	.....	20	.....	823	263	58
174,513	32,924	196,314	.....	2,400	84,848	648,672	31,955	1,680,289	899,752	2,051	277	.....	.....	.....	604	.....	59
225,103	72,409	1,343,639	.....	8,859	183,523	1,006,612	130,156	4,346,759	2,610,091	5,33							

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	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.						

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	Electroplating.....	37	242	46	13	5	6	172	No	196	Ja	158	197	191	2	4	Dollars.
2	Emery and other abrasive wheels.....	7	369	1	25	30	27	286	Ja	347	Jy	244	312	300	12	.....	244,776
3	Enameling.....	5	25	4	1	1	1	18	No	21	Fe	13	18	17	.....	.....	1,586,591
4	Engines, steam, gas, and water.....	34	12,358	19	318	1,512	798	9,711	De	10,571	My	8,989	10,025	10,423	188	14	30,307
5	Engraving and diesinking.....	57	170	63	4	2	5	96	De	114	Fe	86	111	97	11	3	58,544,641
6	Engraving, steel and copper plate, including plate printing.....	54	1,221	48	58	84	93	938	De	1,070	Ja	873	1,054	494	486	41	198,009
7	Engraving, wood.....	4	6	4	.....	.....	.....	2	(S)	2	(S)	2	2	2	.....	.....	2,715
8	Envelopes.....	11	568	6	34	31	24	473	Ja	489	My	403	485	165	310	3	1,288,123
9	Explosives.....	20	1,755	27	113	331	67	1,217	Ja	1,490	Ap	1,094	1,200	1,188	102	.....	16,037,033
10	Fancy articles, not elsewhere specified.....	38	720	40	25	20	22	613	.....	.....	.....	.....	082	179	475	16	1,555,841
11	Metal novelties.....	10	122	7	8	16	9	82	Se	97	Ja	59	93	41	47	3	767,014
12	Paper and wood novelties.....	7	228	5	10	2	7	204	De	218	Ja	192	220	62	141	0	399,900
13	All other.....	21	370	28	7	2	6	327	De	362	Ja	297	369	70	287	4	383,927
14	Feathers and plumes.....	6	72	7	2	3	3	57	Jy	32	Ja	39	59	9	50	.....	53,974
15	Felt goods.....	4	210	.....	8	7	6	189	Ap	219	Ja	164	202	180	22	.....	1,018,920
16	Ferroalloys.....	10	1,679	7	34	106	32	1,500	Ja	1,714	Jy	1,349	1,715	1,707	7	1	28,079,783
17	Fertilizers.....	31	1,815	26	82	137	49	1,021	Ja	1,359	Je	777	901	894	7	.....	8,637,049
18	Files.....	6	1,486	1	27	55	47	1,856	Ja	1,498	Je	1,205	1,448	1,050	366	28	3,759,972
19	Flags and banners.....	9	255	13	9	6	12	215	Ja	300	De	150	154	48	98	2	886,248
20	Flavoring extracts.....	41	144	30	18	24	8	55	Jy	61	Ap	44	61	44	14	3	444,755
21	Flour-mill and gristmill products.....	1,138	4,113	1,402	206	195	112	2,198	De	2,349	Fe	2,133	2,358	2,325	25	8	32,373,687
22	Food preparations, not elsewhere specified.....	145	2,155	158	124	308	88	1,482	.....	.....	.....	.....	1,077	1,276	300	5	9,739,889
23	Macaroni, vermicelli, and noodles.....	44	710	46	28	35	10	591	De	631	Jy	539	640	521	117	2	2,181,134
24	Meat products, not elsewhere specified.....	11	156	12	11	34	11	88	Oct	98	Ap	79	93	66	22	.....	275,479
25	Peanut butter.....	6	68	8	10	3	3	44	Ap	46	De	41	41	17	23	.....	157,998
26	Sweetening sirups, other than cane.....	9	221	8	16	36	13	148	No	169	Ap	132	165	122	43	1	1,241,160
27	All other for human consumption.....	56	716	65	42	158	37	414	Jy	489	Ja	319	514	328	183	.....	3,769,119
28	For animals and fowls.....	19	234	19	17	42	9	197	De	223	Fe	178	224	222	2	.....	2,114,999
29	Foundry and machine-shop products.....	1,267	85,615	957	4,022	6,417	3,132	71,087	.....	.....	.....	.....	77,070	75,037	1,060	322	407,946,937
30	Boiler shops.....	75	5,459	58	280	366	139	4,616	De	5,258	Au	4,200	5,184	5,175	7	2	27,732,102
31	Foundries.....	174	14,761	118	691	541	289	13,124	De	14,903	My	11,795	14,837	14,378	335	103	62,906,687
32	Machine shops.....	867	40,801	672	2,056	3,623	1,732	32,908	De	35,600	My	31,288	35,690	34,602	932	148	222,647,842
33	Machine shop and foundry combined.....	151	24,504	111	905	1,987	972	20,439	Ja	23,845	Je	19,077	21,368	20,912	386	69	104,660,306
34	Foundry supplies.....	15	307	1	40	19	10	237	Ja	275	My	218	230	222	1	7	2,638,671
35	Fur goods.....	95	690	111	24	45	06	414	De	518	Ap	343	510	276	232	.....	3,635,331
36	Furnishing goods, men's.....	46	1,925	49	59	58	38	1,721	.....	.....	.....	.....	1,964	1,888	1,670	23	2,364,458
37	Neckwear.....	18	514	22	20	37	21	414	De	466	Ja	382	461	68	388	5	747,498
38	All other.....	28	1,411	27	39	21	17	1,307	De	1,522	Ja	1,176	1,503	1,200	1,282	18	1,016,960
39	Furniture.....	335	12,687	327	573	466	267	10,954	.....	.....	.....	.....	12,192	11,153	910	116	30,433,891
40	Wood.....	268	10,027	251	478	366	198	9,634	De	10,804	Ja	8,443	10,738	9,763	862	104	20,928,813
41	Rattan and willow.....	7	539	6	3	1	3	68	Oc	79	Fe	48	79	47	24	5	97,744
42	Metal.....	10	539	9	28	53	33	416	Ja	437	Se	396	418	393	22	2	1,454,166
43	Store and office fixtures.....	50	1,040	61	64	46	33	836	De	972	Ja	710	957	950	2	5	1,953,168
44	Galvanizing.....	9	281	4	22	12	8	237	Fe	287	Oc	198	218	216	2	.....	573,873
45	Gas and electric fixtures.....	42	788	44	87	37	43	577	.....	.....	.....	.....	714	599	108	0	1,614,442
46	Gas fixtures.....	10	132	11	8	3	4	108	Ja	118	My	89	119	34	81	3	229,451
47	Electric fixtures.....	12	387	10	30	24	29	294	De	370	Ja	236	352	338	13	1	886,875
48	Combination gas and electric fixtures.....	13	130	20	38	8	6	58	De	73	Fe	51	82	82	.....	.....	221,859
49	All other.....	7	139	3	11	2	4	119	De	162	Ja	88	161	145	14	2	270,257
50	Gas, illuminating and heating.....	80	4,823	2	240	900	351	3,324	Ja	3,532	Au	3,223	3,360	3,350	9	1	91,878,192
51	Gas machines and gas and water meters.....	13	1,437	.....	59	126	57	1,196	.....	.....	.....	.....	1,293	1,218	71	3	5,029,700
52	Gas meters and water meters.....	8	1,167	.....	42	85	51	689	De	1,171	My	877	1,074	1,000	61	3	3,815,867
53	All other.....	5	270	.....	17	40	6	207	De	219	Ja	185	219	209	10	.....	1,213,833
54	Glass.....	102	23,490	18	718	572	580	21,602	No	24,944	Jy	18,809	26,764	23,502	2,675	457	71,852,560
55	Glass, cutting, staining, and ornamenting.....	94	1,710	87	78	94	67	1,384	.....	.....	.....	.....	1,587	991	563	21	4,216,397
56	Decalcomania work.....	12	375	11	11	3	10	340	De	400	Ja	249	404	115	281	.....	582,222
57	All other.....	32	1,335	76	87	91	57	1,044	De	1,189	Ja	891	1,183	876	272	21	3,684,175
58	Gloves and mittens, cloth, not including gloves made in textile mills.....	19	488	6	28	9	7	438	Ja	653	Ap	296	610	70	530	4	616,102
59	Gloves and mittens, leather.....	6	134	4	8	7	3	112	No	148	Mh	92	144	47	82	3	247,543
60	Glue, not elsewhere specified.....	7	651	4	28	34	20	570	De	648	Jy	445	648	599	49	.....	4,538,762
61	Gold and silver, reducing and refining, not from the ore.....	7	20	6	3	.....	2	9	(S)	9	(S)	9	9	8	.....	.....	113,109
62	Graphite, ground and refined.....	5	59	3	8	.....	3	45	Ap	53	De	37	44	44	.....	.....	504,455
63	Grease and tallow, not including lubricating greases.....	61	1,393	65	70	68	10	1,185	.....	.....	.....	.....	1,202	1,073	127	2	4,912,687
64	Soap stock.....	15	799	13	33	17	1	735	Fe	808	No	667	729	608	126	.....	1,218,012
65	Tallow.....	36	475	41	34	42	7	351	De	361	Mh	339	369	366	1	.....	3,023,900
66	All other.....	10	124	11	3	9	2	99	No	103	Jy	93	104	104	.....	.....	670,775
67	Haircloth.....	14	403	14	19	18	13	339	No	390	Ap	292	377	200	175	1	2,217,732
68	Hair work.....	22	152	26	3	7	6	110	Se	121	Ap	102	106	28	71	.....	314,191
69	Hand stamps.....	27	478	26	27	54	42	329	No	355	Au	276	352	265	74	13	978,489
70	Hardware.....	62	4,659	49	144	186	168	4,112	.....	.....	.....	.....	4,408	3,379	762	170	11,931,603
71	Locks.....	11	1,284	8	37	42	78	1,119	No	1,190	Je	1,045	1,156	774	245	73	2,729,345
72	Builders'.....	17	2,106	14	47	87	45	1,913	De	2,073	Ap	1,742	2,077	1,617	370	74	6,056,428
73	All other.....	34	1,269	27	60	57	45	1,080	De	1,132	Ja	978	1,175	988	147	32	2,545,830
74	Hats and caps, other than felt, straw, and wool.....	73	1,012	105	44	68	25	770	De	929	Ap	642	928	552	367	5	2,444,383

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).

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[illegible][illegible]

4 Same number reported for one or more other months.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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	Hats, fur-felt.....	20	5,700	25	35	178	50	5,414	De	5,845	Ja	5,000	5,839	4,342	1,303	84	110	Dollars.	
2	Hats, straw.....	8	256	12	10	7	4	223	Mh	274	Aug	137	263	65	196	.....	2	22,592, 591
3	Hats, wool-felt.....	10	380	21	32	4	.....	323	Jo	426	Mh	197	345	232	104	7	2	415, 136
4	House-furnishing goods, not elsewhere specified.	39	883	36	39	63	34	711	.....	.....	.....	772	245	494	13	20	783, 812	
5	Comforts and quilts.....	12	440	10	17	23	15	375	Jy	429	Ap	307	410	88	298	9	15	2,640, 664	
6	Mops and dusters.....	11	58	11	4	1	.....	42	Ja ^a	44	Jy	40	44	22	19	2	1	1,741, 522
7	All other.....	16	385	15	18	39	19	294	De	318	Ja	270	318	135	177	2	4	73, 167	
8	Ice, manufactured.....	226	3,468	118	291	238	88	2,733	Jo	3,673	Ja	1,903	2,870	2,837	30	9	.....	825, 975
9	Ink, printing.....	10	302	6	17	30	19	230	Ap ^a	234	Ja	223	234	228	.....	6	.....	27,850, 466
10	Ink, writing.....	4	18	3	4	.....	.....	11	Ap ^a	12	De	9	9	6	3	.....	.....	2,303, 744
11	Instruments, professional and scientific.	50	2,115	51	132	129	102	1,701	.....	.....	.....	1,686	1,410	243	20	1	.....	40, 532
12	Medical and surgical.....	19	656	18	37	28	34	539	Oc	570	Ja	492	508	494	57	16	1	4,671, 455	
13	All other.....	40	1,459	33	95	101	68	1,162	Mh	1,199	De	1,118	1,118	922	186	10	.....	1,368, 444
14	Iron and steel, blast furnaces.....	58	16,697	39	412	1,230	367	14,619	Ja	17,554	Oc	12,786	15,707	15,689	18	.....	.....	3,305, 011
15	Iron and steel, steel works and rolling mills.	198	193,450	25	4,107	13,532	4,011	171,715	Ja	202,630	Oc	145,252	170,308	177,975	1,225	104	4	267,740, 371	
16	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	31	5,152	10	177	246	173	4,546	Ja	5,024	Oc	3,966	4,532	4,082	409	35	6	1,184,263, 482	
17	Iron and steel, cast-iron pipe.....	7	1,359	.....	55	87	10	1,707	Oc	1,950	Fe	1,429	1,931	1,896	18	17	.....	21,101, 750
18	Iron and steel forgings, not made in steel works or rolling mills.	48	7,238	13	267	520	241	6,197	Ja	6,957	My	5,578	6,851	6,497	290	64	.....	11,008, 421
19	Iron and steel, nails and spikes, wrought, including wire nails, not made in steel works or rolling mills.	8	264	6	12	24	4	218	Oc	244	Ja ^a	199	234	192	40	2	.....	82,363, 160
20	Iron and steel, tempering and welding.	39	492	38	19	12	9	324	De	427	Oc	216	435	435	.....	.....	.....	1,138, 447
21	Iron and steel, wrought pipe.....	10	3,801	3	95	156	80	3,467	No	4,682	My	2,498	4,565	4,556	9	.....	.....	2,206, 683
22	Japanning.....	4	31	4	3	2	.....	22	Oc	28	Ja ^a	16	27	20	.....	1	.....	10,349, 629
23	Jewelry.....	203	1,029	248	48	49	76	613	De	672	Ja	572	671	568	81	20	2	204, 592	
24	Jewelry and instrument cases.....	6	73	4	6	2	1	60	My	65	Se	51	58	20	31	1	.....	3,201, 577
25	Jute goods.....	8	849	8	19	19	10	793	Se	932	Ja	617	887	406	386	4	1	70, 231	
26	Knit goods.....	606	47,677	559	1,538	747	677	44,166	No	48,132	Fe	39,464	48,357	10,485	34,019	1,181	2,672	4,446, 103	
27	Labels and tags.....	13	583	7	25	35	37	489	De	518	Ja	469	517	239	256	11	12	110,356, 419	
28	Lamps and reflectors.....	21	529	19	40	33	23	414	De	502	Ap	356	497	400	78	14	5	1,739, 139	
29	Lapidary work.....	4	10	4	2	2	.....	4	()	4	()	4	4	4	.....	.....	.....	2,424, 684
30	Lasts.....	4	103	2	7	2	2	90	De	102	Ja	78	101	98	.....	3	.....	18, 936
31	Lead, bar, pipe, and sheet.....	4	120	10	21	5	.....	84	Au	89	Mh	77	83	83	.....	.....	.....	157, 046
32	Leather goods, not elsewhere specified	33	947	43	34	75	42	753	Oc	815	Ja	670	792	358	363	25	40	1,213, 389	
33	Leather, tanned, curried, and finished	92	14,745	57	452	334	153	13,749	De	14,787	Ja	12,287	14,772	13,646	1,040	63	23	2,255, 440	
34	Lime.....	158	2,866	144	118	36	28	2,539	Ap	2,616	Ja	2,440	2,653	2,643	10	.....	.....	146,280, 214
35	Liquors, malt.....	106	6,460	77	502	554	96	5,231	Jy	5,774	De	4,602	4,922	4,904	17	1	.....	8,712, 597
36	Lithographing.....	25	1,294	20	85	63	47	1,079	No	1,205	Ja	998	1,154	803	318	28	5	95,083, 441	
37	Looking-glass and picture frames.....	59	330	70	10	8	22	220	No	240	Ja	193	235	172	59	4	.....	3,057, 194
38	Lubricating greases.....	11	367	8	28	107	68	161	Ja	184	Ap	138	165	164	1	.....	.....	686, 489
39	Lumber and timber products.....	1,834	9,928	1,778	211	161	75	7,703	De	8,807	Jy	6,997	10,807	10,762	40	15	.....	2,129, 848
40	Lumber, planing-mill products, not including planing mills connected with sawmills.	538	8,927	565	590	385	216	7,191	No	7,984	Mh	6,275	7,836	7,657	144	33	2	20,268, 681	
41	Machine tools.....	32	4,400	17	163	358	191	3,671	Ja	4,005	Se	3,033	3,612	3,544	65	3	.....	33,691, 038
42	Marble and stone work.....	489	4,652	572	226	110	47	3,097	Ja	4,005	Se	3,033	3,612	3,544	65	3	.....	21,869, 376
43	Monuments and tombstones.....	370	1,434	452	50	44	24	864	Se	953	Ja	716	907	903	3	1	.....	9,787, 649
44	Other marble and stone work, except slate.	65	862	83	55	38	10	676	Sa	796	Ja	465	781	780	1	.....	.....	4,023, 111
45	Roofing slate.....	29	1,610	20	33	11	7	1,489	Oc	1,637	Ja	1,053	1,618	1,613	.....	5	.....	2,111, 901
46	Other slate products.....	25	746	17	38	17	6	668	De	714	Ja	581	1,017	674	18	15	.....	2,464, 327
47	Mattresses and spring beds, not elsewhere specified.	73	1,346	78	72	75	38	1,088	Oc	1,159	Fe	994	1,122	886	210	21	5	1,185, 247	
48	Millinery and lace goods, not elsewhere specified.	117	3,588	159	71	66	92	3,200	.....	.....	.....	3,438	641	2,670	20	107	.....	3,870, 106
49	Embroideries.....	38	762	40	25	8	10	670	Se	724	Ja	600	742	90	614	2	36	4,993, 414	
50	Trimmed hats and hat frames.....	42	1,132	57	21	27	35	992	Mh	1,101	Jy	849	1,017	169	829	6	13	626, 673	
51	All other.....	37	1,694	53	25	31	47	1,538	De	1,665	Ap	1,343	1,679	382	1,227	12	68	1,399, 117	
52	Mineral and soda waters.....	521	1,976	642	95	79	51	1,115	.....	.....	.....	1,679	1,873	1,104	22	36	1	2,967, 624
53	Mineral and carbonated waters.....	500	1,877	610	86	67	48	1,068	Ja	1,234	Ap	935	1,163	1,049	22	36	1	6,585, 214	
54	All other.....	21	99	32	9	6	8	49	Jy ^a	60	Ja ^a	42	1,104	1,049	18	36	1	6,585, 214	
55	Minerals and earths, ground or otherwise treated.	105	5,326	71	183	109	49	4,014	Au	5,246	My	4,653	4,992	4,975	14	3	.....	6,585, 214
56	Mirrors, framed and unframed, not elsewhere specified.	18	369	16	27	20	13	293	Au	321	Ja	265	299	214	63	21	1	528, 658	
57	Models and patterns, not including paper patterns.	99	1,033	115	22	0	11	879	De	984	Ap	830	978	933	32	13	.....	14,428, 655
58	Motorcycles, bicycles, and parts.....	4	351	.....	10	17	14	310	No	351	Ja	264	371	344	22	5	.....	1,224, 042
59	Mudclage, paste, and other adhesives, not elsewhere specified.	18	189	12	27	22	11	117	.....	.....	.....	122	86	36	.....	.....	.....	773, 310
60	Mudclage and paste.....	6	33	5	9	4	1	14	No	21	Je	10	105	71	34	.....	.....	799, 842
61	All other.....	12	156	7	18	18	10	103	Fe ^a	108	Jy	95	105	71	34	.....	.....	40, 498
62	Musical instruments and materials, not elsewhere specified.	22	159	23	7	5	9	115	Se	130	Ja	91	130	129	.....	1	.....	698, 344
63	Musical instruments, organs.....	7	103	8	12	3	1	79	De	95	Fe	63	95	63	.....	32	.....	356, 230
64	Musical instruments, pianos.....	11	855	6	27	28	20	774	No	797	Ja	747	794	723	63	3	.....	269, 055
65	Musical instruments, piano and organ materials.	5	136	3	7	2	5	119	De	129	Ja	108	128	96	27	3	.....	8,714, 979
66	Needles, pins, and hooks and eyes.....	8	824	3	20	37	25	739	Au	893	Ja	612	730	176	534	7	13	450, 075	
67	Oil, not elsewhere specified.....	37	1,041	15	129	149	116	632	.....	.....	.....	680	667	3	.....	.....	.....	2,625, 047
68	Vegetable.....	4	120	4	11	6	2	97	Au	106	Fe ^a	86	105	104	1	.....	.....	17,101, 089
69	Mineral.....	9	119	3	24	30	12	50	Au	63	My	40	49	49					

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).

MANUFACTURES—PENNSYLVANIA.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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.	Wago earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.			Rent- ed. ¹	
											Steam- en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.			Wa- ter pow- er.^{1}

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
179,253	769,149	4,040,509	1,656	14,457	991,051	5,694,580	223,311	17,905,301	12,077,401	6,367	4,813	1,000	10	544	2,556	1		
21,471	10,777	204,624	16,015	1,121	351,622	5,835	845,038	457,531	457,531	73	25			48		2		
60,061	4,797	240,688	4,790	22,159	900,837	20,439	1,597,954	667,678	667,678	957	720			237		3		
157,247	173,803	538,284	1,416	42,003	82,596	2,088,486	26,274	4,156,106	2,041,486	677	505		26	146		4		
83,016	90,009	240,071	170	11,557	54,927	1,131,430	15,072	2,470,767	1,324,265	373	360			13		5		
6,500	1,200	35,741	46	4,128	392	165,933	939	239,432	72,660	15				15		6		
64,731	82,594	261,872	1,200	26,918	27,277	170,123	10,203	1,445,097	644,611	289	145			118		7		
593,307	304,740	3,201,913	33,547	75,392	427,414	1,870,957	2,258,215	12,680,299	8,548,127	51,516	41,355	306	2,850	7,210	2,961	8		
49,538	66,744	238,037		13,844	18,038	1,335,820	54,620	2,290,270	890,830	856	400			305		9		
6,250		7,772		360	475	28,087	294	61,965	33,684	15						10		
504,817	264,840	1,822,501	5,904	92,510	110,388	2,189,402	83,988	0,435,564	4,162,164	1,211	475		121	615	229	11		
107,955	55,420	602,823	1,850	24,283	9,388	551,328	17,270	1,642,827	1,074,229	351	225		34	92	174	12		
390,862	200,420	1,219,768	4,054	68,227	101,000	1,638,074	66,728	4,792,737	3,087,935	860	250			523		13		
2,581,073	2,911,553	27,318,410	520,119	187,372	3,044,117	162,977,265	81,982,868	311,080,081	69,119,948	504,455	401,468	73,442	86,635	140	2,770	10,849	14	
10,478,800	27,390,578	208,725,202	356,221	158,902	24,622,479	708,560,395	68,906,295	1,296,412,070	518,939,380	1,521,731	1,079,402	248,501	46,800	70	146,898	899,922	15	
832,966	677,894	5,051,106	34,040	9,052	706,180	11,911,776	669,252	23,102,229	10,521,201	15,571	4,695		877	75	9,924	7,310	16	
191,280	120,028	2,148,481		4,404	406,601	3,837,182	316,810	8,709,771	4,555,779	3,892	1,585			2,307	1,447	17		
1,387,272	1,106,203	8,168,016	144,538	105,258	1,075,485	15,205,799	1,742,852	30,708,646	19,759,995	21,151	3,865	2,217	445	14,624	5,716	18		
64,200	67,499	238,838		384	43,602	577,289	40,907	1,270,819	652,623	943	265		50	628		19		
78,626	38,552	496,467		14,011	253,791	905,661	96,802	2,189,910	1,187,447	4,891	505		137	4,249		20		
391,837	303,064	4,297,003	8,897	4,682	842,626	16,818,662	792,341	25,478,593	7,897,660	8,089	6,216	800		1,573	6,767	21		
7,200	3,650	24,301		1,417	640	54,583	4,703	102,234	42,948	129				129		22		
141,324	125,475	798,584	56,894	93,336	30,941	2,268,552	15,001	4,552,827	2,268,974	479			96	383		23		
12,640	0,754	30,282	2,404	6,714	109	80,065	903	179,166	98,198	21			6	15		24		
119,004	28,500	740,204		9,107	137,658	2,254,967	37,388	4,518,328	2,225,973	2,275	2,140			135		25		
5,274,701	2,451,761	30,691,815	1,206,936	710,050	4,555,205	115,655,139	1,041,634	188,260,800	71,564,027	26,350	14,068	80	283	304	11,044	5,016	26	
163,651	196,888	385,475	27,783	8,444	208,206	701,826	13,814	2,406,769	1,001,129	709			40	259		27		
111,316	46,846	454,312	908	36,275	23,061	720,546	28,388	1,710,636	901,702	705	390		128	247		28		
23,966	4,901	4,420		1,530		1,400	257	28,330	26,673	4				4		29		
42,374	30,773	104,787		8,004	1,292	116,190	8,637	297,082	173,255	142			40	102		30		
149,171	150,932	631,137	43	5,284	9,092	1,201,487	13,999	1,634,237	328,751	399	150			249		31		
2,423,118	756,998	17,262,410	41,191	19,980	48,013	1,684,440	17,603	3,257,715	1,555,766	359	157		50	152		32		
298,217	70,109	2,561,699	14,966	47,437	125,326	1,094,476	1,808,014	7,556,372	4,653,882	42,961	34,681	550	3,578	435	3,717	13,178	33	
2,278,490	1,045,209	6,601,380	19,163	556,793	17,797,205	12,099,310	1,707,653	59,331,515	44,924,552	52,744	48,798	600	300	3,046	10,462	34		
206,669	215,504	1,071,137	17,473	80,674	26,397	1,751,633	31,967	4,040,955	2,257,455	818			110	398		35		
13,900	28,072	199,401	551	95,048	3,451	450,945	9,250	948,259	482,055	255			5	250		36		
140,489	301,017	192,425	5,379	6,309	64,957	1,406,351	14,935	3,137,278	1,716,992	1,107	800		263	54		37		
401,672	238,209	7,381,036	1,300,302	14,807	165,997	7,688,143	155,189	25,030,803	17,187,471	44,012	39,570	234	2,187	1,185	836	1,509	39	
1,578,299	639,644	8,034,355	59,297	205,411	636,193	18,622,481	472,011	35,124,866	16,030,374	38,290	16,348	1,495	2,507	718	15,222	5,549	40	
717,680	936,704	5,141,121	492,633	24,257	1,967,759	4,616,253	251,782	16,797,040	12,029,005	8,536	3,619		802	4,115	7,846	41		
454,002	171,421	3,721,671	90,618	158,705	84,936	3,955,897	355,670	11,131,630	6,820,057	17,921	10,984		1,904	4,973	115	42		
123,025	67,839	1,751,859	60,644	34,750	33,966	2,588,832	81,090	5,806,381	3,136,459	3,020	573		1,655	1,392	7	43		
120,082	61,730	1,447,260	8,963	30,568	12,341	799,572	61,610	2,135,242	1,274,160	4,137	2,590		292	1,249	108	44		
117,210	14,430	1,245,238	16,969	51,434	29,089	243,884	141,287	2,078,848	1,699,677	6,131	5,170		8	953		45		
93,685	27,392	577,194	4,142	41,963	9,540	323,609	71,789	1,111,169	715,761	4,033	2,645		9	1,379		46		
192,529	134,049	1,077,180	60,969	63,463	98,044	3,874,325	48,665	6,343,047	2,420,157	1,595	440	125	142	888	303	47		
225,916	174,545	2,266,506	242,986	139,511	29,621	5,599,111	38,411	11,303,231	5,665,709	1,018	652		8	358	145	48		
55,611	15,580	507,780	61,096	26,532	5,178	427,996	9,871	1,469,854	1,031,987	147	25			122		49		
61,442	67,008	776,045	780	51,738	13,855	2,437,583	8,697	4,037,261	1,590,981	124				124		50		
108,868	91,977	982,081	181,110	61,241	10,588	2,733,532	19,843	5,796,116	3,042,741	747	627		8	112	143	51		
189,213	121,928	1,150,639	5,207	83,443	232,228	3,943,892	116,055	7,825,012	3,785,665	2,699	707	35	287	23	1,647	7	52	
173,897	103,713	1,120,397	5,207	80,477	228,970	3,842,479	114,492	7,014,016	3,657,645	2,640	693	85	275	23	1,614	7	53	
15,316	18,215	30,242		2,966	3,258	101,413	1,633	210,996	108,020	59	14		12	33		54		
493,362	212,194	6,629,625	188,787	234,468	316,309	3,091,207	950,521	18,466,528	9,424,800	32,310	13,972	16	1,567	515	16,240	1,205	55	
115,857	53,793	270,155		5,105	19,635	1,213,911	17,457	2,052,901	821,533	358	80		85	193		56		
70,467	16,277	981,269	12,762	32,808	9,930	521,748	27,905	2,341,402	1,791,749	1,373	15		304	1,054		57		
30,224	42,888	344,675		7,975	7,756	838,433	23,100	1,305,376	443,843	265	65			200		58		
89,984	51,825	107,200	2,000	7,189	16,018	760,935	9,642	1,293,843	523,266	267	126		90	51		59		
14,220	3,540	10,815		1,864	6,402	113,615	348	165,875	51,912	12	8			4		60		
75,764	48,285	96,385	2,000	5,325	9,526	647,820	9,294	1,127,968	471,354	255	118		90	47		61		
18,324	12,417	109,017	3,096	10,286	2,126	103,113	5,212	327,973	219,648	93	20		4	69		62		
18,823	3,805	81,334	1,473	1,835	1,823	92,943	2,124	224,472	129,405	214	125		23	66		63		
77,669	88,564	759,417	5,200	8														

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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	Oilcloth and linoleum, floor.....	5	3,016	.....	102	220	145	2,549	De	3,030	Mh	1,767	2,954	2,790	160	2	2	Dollars. 21,255,523
2	Optical goods.....	58	1,804	58	75	70	80	1,021	Fe	1,041	Oc	998	1,048	563	356	90	39	2,021,324	
3	Paints.....	88	4,430	54	306	582	844	3,144	Se	3,290	Fe	2,927	3,312	3,180	102	29	2	31,685,058	
4	Paper and wood pulp.....	56	11,020	27	325	523	308	9,843	.....	.....	.....	.....	10,483	9,721	751	5	6	63,882,518
5	Paper exclusively.....	43	4,125	27	172	202	129	3,695	De	3,982	Mh	3,290	4,044	3,755	280	.....	.....	25,488,143
6	All other.....	13	6,901	.....	153	321	179	6,248	Oc	6,473	Mh	6,052	6,439	5,966	462	5	6	38,394,375
7	Paper goods, not elsewhere specified.....	20	624	11	42	41	30	500	De	597	Ja	402	598	478	108	9	3	1,888,193	
8	Patent medicines and compounds.....	234	1,773	217	171	201	195	989	No	893	Jy	603	1,055	525	519	11	.....	7,075,618
9	Patent and proprietary medicines.....	102	1,418	159	119	159	102	819	Je	188	No	167	877	392	474	11	.....	6,639,598
10	Patent and proprietary compounds, not elsewhere specified.....	72	355	58	52	42	33	170	.....	.....	.....	.....	178	133	45	.....	.....	1,036,020
11	Paving materials.....	177	2,682	190	118	59	30	2,285	Au	3,038	Ja	1,256	2,599	2,584	1	14	.....	6,706,358
12	Peanuts, grading, roasting, cleaning, and shelling.....	12	208	11	11	18	15	243	No	268	De	183	260	89	104	.....	7	484,018
13	Perfumery and cosmetics.....	36	406	33	29	37	112	195	No	207	Ja	178	210	59	146	1	4	1,202,672	
14	Petroleum, refining.....	53	10,621	34	423	1,249	680	8,235	Jy	8,512	Mh	8,017	8,023	7,860	161	2	.....	140,154,231
15	Photo-engraving.....	29	790	25	44	99	40	591	De	618	Fe	555	628	597	11	20	.....	1,131,613
16	Photographic apparatus.....	4	28	5	1	2	2	20	Jy	25	Fe	11	24	20	4	.....	.....	45,716
17	Photographic materials.....	11	156	12	15	16	16	97	No	108	Se	80	105	70	27	8	.....	682,092
18	Pickles, preserves, and sauces.....	48	3,466	47	221	579	331	2,288	Oc	616	Mh	330	2,187	1,112	801	91	183	17,818,921	
19	Preserves.....	20	619	16	33	85	33	452	Oc	616	Mh	330	451	294	153	.....	4	3,500,777
20	Pickles and sauces.....	28	2,847	31	188	404	208	1,836	Au	2,133	My	1,596	1,736	818	648	91	179	14,238,144	
21	Plated ware.....	4	99	2	5	4	1	87	No	94	Fe	77	95	72	20	2	1	200,489	
22	Plumbers' supplies, not elsewhere specified.....	30	2,576	13	110	177	124	2,152	De	3,094	Mh	1,539	3,076	2,981	85	10	.....	10,949,633
23	Pocketbooks.....	7	185	5	6	9	4	161	Fe	169	Je	155	163	45	111	.....	7	241,581
24	Pottery.....	22	2,015	12	71	32	32	1,868	De	.....	.....	.....	1,914	1,400	476	31	7	3,875,404
25	Chinaware.....	10	1,688	3	61	27	24	1,573	Oc	1,692	Fe	1,462	1,614	1,129	451	27	7	3,095,304	
26	Earthen and stone ware.....	12	327	9	10	5	8	295	Ap	308	Ja	274	300	271	25	4	.....	780,100
27	Printing and publishing, book and job.....	1,289	14,198	1,384	766	804	783	10,461	.....	.....	.....	.....	11,303	7,928	2,974	347	54	36,780,672
28	Job printing.....	1,205	12,251	1,324	655	540	505	9,227	De	9,856	Fe	8,822	10,010	7,079	2,568	327	33	29,182,127	
29	Book publishing and printing.....	22	1,520	17	73	166	183	1,081	No	1,147	Ja	955	1,132	718	381	16	17	5,708,116	
30	Book publishing without printing.....	44	292	25	32	98	88	49	Se	55	De	43	43	24	19	.....	.....	1,564,904
31	Linotype work and typesetting.....	18	135	18	6	7	104	De	115	Ja	96	118	107	6	4	1	.....	275,465
32	Printing and publishing, music.....	17	107	12	15	16	26	128	Oc	139	Jy	119	133	114	16	2	1	431,942	
33	Printing and publishing, newspapers and periodicals.....	963	22,461	750	1,460	4,304	3,616	12,331	.....	.....	.....	.....	12,557	9,995	2,161	388	13	101,030,354
34	Printing and publishing.....	80	10,839	34	584	1,856	2,205	6,160	Au	6,415	Ap	5,790	6,219	5,073	1,055	60	1	67,724,073	
35	Printing, publishing, and job printing.....	636	10,809	570	709	2,076	889	6,065	De	6,269	Ja	5,765	6,289	4,887	1,094	297	11	29,334,990	
36	Publishing without printing.....	248	1,313	146	167	372	522	106	Ja	117	De	97	49	35	12	1	1	3,971,321	
37	Printing materials.....	7	65	3	9	5	4	44	Oc	50	Ja	39	48	48	.....	.....	.....	271,811
38	Pumps, not including power pumps.....	4	8	4	1	.....	.....	3	(*)	3	(*)	3	3	3	.....	.....	.....	39,197
39	Pumps, steam and other power.....	8	847	5	31	86	31	694	Ja	794	Oc	638	639	638	1	.....	.....	4,748,095
40	Refrigerators.....	11	460	10	20	26	15	389	Jy	416	Fe	358	413	411	.....	2	.....	1,734,289
41	Regalia, and society badges and emblems.....	18	112	18	6	8	8	74	My	81	Jy	70	75	17	57	1	.....	184,587
42	Roofing materials.....	23	1,494	6	67	173	78	1,170	No	1,429	Ap	894	1,391	1,362	27	2	.....	6,759,200
43	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	31	5,879	8	259	450	282	4,880	De	5,496	Ja	4,385	5,549	4,068	740	90	51	37,690,301	
44	Saddlery and harness.....	117	407	129	7	37	9	225	Ap	232	Ja	215	226	222	4	.....	.....	1,265,136
45	Sand and emery paper and cloth.....	3	311	.....	25	57	18	211	Oc	254	My	184	234	198	17	19	.....	2,818,351
46	Sausage, not made in slaughtering and meat-packing establishments.....	28	254	34	11	26	6	178	Jy	199	Mh	159	192	134	55	3	.....	837,472
47	Screws, machine.....	11	454	9	30	19	19	377	De	444	Ap	331	444	410	25	8	1	1,875,496	
48	Shipbuilding, including boat building.....	28	60,482	21	996	2,159	1,095	56,211	Fe	63,153	De	49,831	49,004	49,680	136	88	.....	385,233,346
49	Shirts.....	216	9,440	254	341	257	156	8,932	De	10,488	Ap	7,984	10,683	1,408	8,769	92	337	13,256,230	
50	Signs and advertising novelties.....	114	549	102	37	31	26	333	.....	.....	.....	.....	397	289	75	17	10	898,721
51	Electric signs.....	7	112	1	15	13	9	74	Oc	95	Ja	41	87	86	1	.....	.....	350,988
52	Signs, other than electric.....	92	325	87	14	9	12	203	Au	227	Fe	189	210	174	4	16	16	379,997	
53	Advertising novelties.....	15	112	14	8	9	6	70	No	103	Ap	58	100	29	70	1	.....	167,736
54	Silk goods, including throwsters.....	373	56,578	142	1,363	1,118	903	53,052	.....	.....	.....	.....	57,949	17,200	36,409	1,487	2,856	237,628,505
55	Finished products.....	230	38,614	98	884	995	729	35,908	No	38,393	Ja	33,697	38,733	12,672	23,581	849	1,634	209,278,573	
56	Throwsters and winders.....	143	17,964	44	479	123	174	17,144	De	18,043	Oc	15,814	19,216	4,528	12,825	641	1,222	28,349,932	
57	Silversmithing and silverware.....	6	55	3	5	.....	6	41	Jy	50	Ja	31	40	38	4	3	1	121,957
58	Slaughtering and meat packing.....	176	5,752	168	239	710	197	4,438	De	4,890	Ap	4,237	4,851	4,406	434	8	3	27,832,571	
59	Smelting and refining, not from the ore.....	11	247	9	23	14	13	188	Ja	217	My	172	189	188	1	.....	.....	2,633,001
60	Soap.....	53	1,530	50	76	98	92	1,214	Se	1,363	Mh	1,051	1,192	906	261	13	12	11,654,472	
61	Soda-water apparatus.....	6	268	0	15	23	10	212	No	239	Ja	189	223	196	27	.....	.....	1,121,183
62	Springs, steel, car and carriage, not made in steel works or rolling mills.....	18	1,874	11	83	131	31	1,618	De	1,780	My	1,534	1,758	1,735	23	.....	.....	11,204,804
63	Stamped and enameled ware, not elsewhere specified.....	30	2,554	12	123	113	127	2,179	.....	.....	.....	.....	2,645	2,286	337	14	8	7,308,352
64	Stamped ware.....	21	1,060	12	63	56	80	849	De	1,029	Mh	733	1,080	800	220	7	3	3,318,385	
65	All other.....	9	1,494	.....	60	57	47	1,330	Oc	1,587	Ja	893	1,615	1,486	117	7	5	3,989,967
66	Stationery goods, not elsewhere specified.....	18	932	18	36	52	45	781	Au	819	Ja	722	774	364	377	20	13	3,257,610	
67	Statuary and art goods.....	15	123	22	7	3	2	89	My	106	Ja	76	93	92	.....	1	.....	147,505
68	Steam fittings and steam and hot-water heating apparatus.....	52	7,287	15	303	676	374	5,919	.....	.....							

* 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).

MANUFACTURES—PENNSYLVANIA.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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	Rent- ed. ²		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
423,850	407,375	3,004,992	7321	799,659	11,352,980	520,194	22,805,611	10,932,437	11,871	5,180	306	2	.....	6,323	4,820	1
237,317	150,753	807,732	5,050	76,222	1,776,366	33,966	4,171,716	2,361,384	730	85	51	.....	.....	594	.....	2
1,128,459	1,211,734	3,952,211	7,810	51,557	651,719	22,682,083	785,482	35,747,820	13,421	5,094	2,125	307	760	5,135	4,069	3	
1,658,890	1,232,376	12,459,234	3,090	82,406	1,554,938	31,047,629	4,595,489	64,715,707	83,510	61,935	7,287	55	6,000	5,233	35,998	4	
731,232	454,782	4,279,724	3,090	5,065	771,306	14,529,191	1,707,463	26,743,905	41,347	30,757	3,663	45	2,100	4,782	7,581	5	
927,658	777,024	8,179,510	.....	77,341	783,632	16,518,438	2,888,026	37,971,862	42,103	34,178	3,624	10	3,900	451	28,405	6
162,166	60,323	4,211,143	3,000	39,213	49,634	1,759,067	43,336	2,797,654	994,651	622	.....	28	80	556	36	7
647,193	577,258	807,263	17,249	103,539	404,051	5,645,753	66,562	11,913,284	0,300,969	1,632	759	.....	139	.....	734	8
429,096	489,030	702,035	10,461	73,007	453,599	4,088,908	55,144	9,994,900	5,250,758	1,219	565	.....	119	.....	535	9
118,097	87,328	165,228	788	29,932	10,452	856,755	11,418	1,918,384	1,050,211	413	194	.....	20	.....	199	10
250,900	88,315	2,279,825	40,887	106,532	90,179	1,187,970	357,462	5,442,277	3,896,845	17,733	11,370	36	783	5,494	165	11	
98,300	48,107	134,380	943	9,446	29,393	2,147,141	8,827	2,635,657	479,689	341	275	.....	1	65	203	12
74,659	165,290	121,977	.....	19,086	15,227	826,733	3,843	1,854,332	1,023,756	150	55	.....	28	67	.....	13
1,763,412	2,331,111	11,960,122	619,612	16,090	15,880,629	130,071,702	4,906,443	178,825,632	43,844,427	22,606	9,962	5,495	4,540	2,609	8,680	14	
254,898	165,638	1,022,089	26,695	52,880	13,469	588,475	29,568	2,954,671	2,336,628	347	.....	.....	.....	347	.....	15
2,500	2,367	23,308	.....	695	333	21,991	996	39,012	66,925	31	.....	.....	.....	31	.....	16
35,256	41,803	72,278	.....	20,500	692	544,607	11,465	814,233	258,071	85	.....	.....	.....	85	.....	17
714,449	1,807,637	1,850,045	.....	45,109	697,355	14,749,895	194,154	26,180,134	11,245,085	3,280	2,137	.....	466	677	2,689	18
202,595	175,055	401,274	.....	21,131	150,409	4,290,644	52,939	6,562,207	2,218,624	741	269	.....	30	436	231	19
511,854	1,192,482	1,448,771	.....	23,978	537,046	10,459,251	141,215	19,626,927	9,026,401	2,539	1,568	.....	430	241	2,438	20
11,174	3,204	83,304	.....	4,477	1,225	78,580	6,508	242,238	157,146	184	.....	.....	.....	184	.....	21
400,270	269,109	2,730,005	315	45,228	600,787	4,381,290	345,406	10,549,531	5,819,829	6,209	3,823	.....	187	63	2,136	22
13,830	23,243	102,850	5,047	6,775	604	197,050	1,531	453,297	254,716	28	.....	.....	.....	28	.....	23
223,393	94,723	1,761,415	15,353	3,364	269,299	1,025,061	327,612	4,594,656	3,211,983	2,198	995	.....	22	108	1,075	24
196,828	83,522	1,502,715	9,619	3,100	265,036	920,179	267,231	3,979,494	2,792,084	1,471	425	.....	106	940	41	25
26,555	11,201	258,700	5,734	264	4,263	104,882	60,381	589,102	419,599	727	570	.....	22	135	.....	26
2,387,955	1,943,981	11,160,613	1,355,029	888,306	605,967	16,883,029	404,461	46,152,747	28,865,257	11,315	1,753	853	6	8,703	1,214	27
1,989,569	1,225,202	9,772,354	231,090	757,573	540,002	13,841,619	355,320	36,363,097	22,166,149	10,273	1,295	853	6	8,119	1,068	28
279,308	458,022	1,222,517	659,439	77,243	53,635	2,530,005	41,527	7,115,988	4,744,456	944	458	.....	.....	486	140	29
107,652	255,133	20,968	457,086	37,582	10,590	468,487	2,514	2,113,814	1,642,813	50	.....	.....	.....	50	.....	30
12,366	5,624	135,774	6,505	15,938	1,140	42,918	5,091	359,848	311,839	48	.....	.....	.....	48	.....	31
29,327	42,057	95,306	124,029	12,032	10,307	195,047	864	732,462	536,551	22,045	6,485	1,072	137	14,351	5,516	32
4,691,054	8,170,249	15,381,711	2,311,528	697,908	3,075,031	38,385,149	663,075	106,696,923	67,618,999	12,193	5,712	503	5,978	5,422	34
2,568,328	3,836,217	8,798,107	163,855	299,096	2,705,878	26,981,427	309,990	71,052,013	43,700,596	8,722	5,773	669	137	8,243	94	35
1,738,463	3,421,780	6,470,762	198,693	268,592	362,831	10,613,163	348,467	29,521,098	18,559,498	.....	.....	.....	.....	.....	.....	.....
384,261	912,252	112,782	1,948,980	130,220	16,322	790,559	4,618	6,093,812	5,298,635	130	.....	.....	.....	130	.....	36
41,377	10,890	53,553	.....	10,201	14,934	114,040	2,724	443,544	326,780	67	.....	.....	.....	67	.....	37
1,800	.....	3,558	70	552	154	22,382	581	84,164	11,201	10	.....	.....	.....	10	.....	38
143,104	181,404	812,855	.....	1,430	81,482	1,425,128	61,724	3,701,590	2,214,714	2,362	440	.....	174	1,778	35	39
65,426	95,813	492,989	.....	4,090	22,841	948,031	23,322	1,802,577	831,024	874	250	.....	53	571	10	40
12,408	15,328	52,587	300	9,841	1,557	156,463	2,275	320,043	161,305	20	.....	.....	.....	20	.....	41
256,524	365,714	1,329,841	12,406	22,858	342,651	6,046,384	283,138	10,836,845	4,507,323	4,815	1,295	.....	25	3,495	90	42
831,644	329,370	5,864,082	15,166	24,141	1,717,346	19,260,485	506,202	35,792,009	16,019,819	17,414	6,861	1,960	1,078	7,515	3,590	43	
24,596	42,936	204,787	1,080	24,311	7,836	889,013	8,913	1,515,099	617,173	179	60	.....	25	94	12	44
137,850	117,380	231,726	.....	6,452	89,011	1,167,346	44,353	2,218,010	1,036,341	2,345	2,205	.....	.....	140	100	45
35,620	50,012	100,423	3,226	6,190	7,812	3,072,831	23,828	3,688,198	591,520	735	278	.....	26	431	50	46
118,819	46,769	420,566	12,310	13,296	77,241	802,280	23,991	1,722,314	898,043	960	100	.....	162	698	.....	47
4,820,971	8,645,807	88,039,202	5,510,014	204,942	2,068,254	116,482,652	2,234,321	237,324,970	118,607,997	82,016	3,307	5,343	127	73,239	9,371	48	
687,283	855,845	4,401,003	504,322	224,804	93,440	14,440,080	150,427	24,774,554	10,177,441	3,366	1,236	75	314	1,741	516	49	
99,071	55,297	397,023	37,278	35,354	5,729	638,480	11,727	1,620,947	870,740	223	.....	.....	.....	191	.....	50
47,555	20,511	88,237	6,000	2,589	1,364	118,043	2,602	332,154	211,509	73	.....	.....	.....	73	.....	51
33,828	10,815	265,162	8,858	26,303	2,754	313,818	7,726	888,630	567,086	127	.....	.....	.....	98	.....	52
17,688	11,971	43,624	27,820	6,462	1,611	206,619	1,399	400,183	192,145	23	.....	.....	.....	20	.....	53
5,988,240	3,283,338	38,129,477	15,608,271	782,728	4,826,395	123,623,779	2,063,464	231,711,352	105,424,109	73,826	39,506	2,122	482	875	30,841	9,005	54
4,502,254	2,891,101	28,131,257	15,387,216	715,846	3,795,925	114,805,054	1,394,291	202,140,380	85,941,035	43,645	25,757	1,097	82	750	15,959	8,064	55
1,407,986	392,177	9,098,220	221,055	66,882	1,030,470	8,812,725	1,269,173	29,570,972	16,483,074	30,181	13,749	1,025	40	125	14,882	941	56
7,685	4,054	39,392	929	2,410	200	52,054	2,590	123,162	68,518	48	14	34	57
1,103,247	1,384,973	5,346,125	186,478	192,291	695,452	106,508,367	772,059	122,832,240	15,581,224	15,325	11,863	245	480	5	2,732	4,882	58
102,352	30,822	255,153	.....	1,860	41,613	68,800	68,800	5,612,480	861,728	378	5	.....	187	186	.....	59
299,673	261,294	1,634,122	6,770	20,924	130,220	10,167,846	185,101	16,063,276	5,710,329	2,647	1,691	30	76	850	329	60	
50,260	33,204	232,308	.....	5,021	7,922	423,209	13,449	96								

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	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.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

																Dollars.
1	Steel barrels, drums, and tanks.....	5	284	3	16	15	8	222	Jy	206	Se	148	235	235	1	728,841
2	Stencils and brands.....	11	79	11	8	8	5	47	Ja	50	No ⁸	45	44	38	1	210,131
3	Stereotyping and electrotyping.....	15	462	9	59	30	17	345	De	368	Ja	327	397	304	2	744,221
4	Stoves and hot-air furnaces.....	56	3,797	28	163	282	114	3,210	De	3,328	Ja	2,573	3,620	3,593	8	11,996,039
5	Stoves and ranges.....	42	3,419	16	136	238	89	2,045	Mh	300	Je	237	3,329	3,308	8	10,734,736
6	Hot-air furnaces.....	14	378	12	27	49	25	265	No	645	Ja	465	291	287	4	1,261,303
7	Stoves, gas and oil.....	29	742	19	63	56	37	567	Ja	11,570	Ap	10,288	652	606	43	2,819,999
8	Structural ironwork, not made in steel works or rolling mills.....	145	13,807	97	509	1,076	509	10,722	Jy	3,718	Ja	2,086	10,679	10,596	75	66,168,689
9	Sugar, refining, not including beet sugar.....	4	3,613	.....	52	259	81	3,221	Jy	3,718	Ja	2,086	3,035	2,904	131	32,741,511
10	Surgical appliances.....	25	641	24	42	27	39	509	De	556	Ja ^a	482	555	205	245	1,240,190
11	Suspenders, garters, and elastic woven goods.....	14	618	15	56	46	20	481	No	555	Ap	395	552	122	425	1,462,090
12	Textile machinery and parts.....	64	4,318	60	158	291	104	3,705	De	4,387	Ja	3,270	4,369	4,252	85	16,744,426
13	Tin plate and terneplate.....	11	2,342	4	269	64	.....	2,005	Fe	2,454	My	1,402	2,259	1,967	297	20,418,077
14	Tinware, not elsewhere specified.....	33	1,582	41	58	119	63	1,301	De	1,380	My	1,146	1,444	953	489	6,971,193
15	Tobacco, chewing and smoking, and snuff.....	64	788	78	40	254	11	405	.....	.....	.....	.....	452	173	277	3,629,290
16	Chewing.....	10	133	8	9	9	3	104	Jy	123	Fe	85	106	29	75	719,731
17	Smoking.....	28	572	33	28	244	8	259	No	345	Ja	209	301	100	201	2,445,999
18	Snuff.....	3	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11,800
19	All other.....	23	80	34	3	.....	.....	42	Se ^a	48	Fe ^a	37	45	44	1	451,760
20	Tobacco, cigars and cigarettes.....	1,595	34,169	1,607	1,273	616	293	30,380	De	34,416	Au	24,686	36,035	11,682	24,113	56,287,081
21	Cigars.....	1,577	33,174	1,587	1,247	535	271	29,534	De	34,416	Au	24,686	35,041	11,389	23,412	51,685,604
22	All other.....	18	995	20	26	81	22	846	Oc	999	Fe	526	994	203	701	4,701,477
23	Tools, not elsewhere specified.....	104	6,007	89	1,779	228	132	3,779	Fe	620	Au	507	4,036	3,801	213	14,389,832
24	Shovels, spades, scoops, and hoes.....	11	649	13	26	25	11	574	Fe	620	Au	507	523	513	5	3,080,094
25	Carpenters'.....	3	507	1	7	37	22	440	Oc	489	Je	406	479	454	15	1,717,020
26	Machinists'.....	33	1,839	25	72	80	66	1,640	De	1,668	Oc	1,611	1,670	1,530	137	5,538,992
27	All other.....	57	2,962	50	1,674	86	33	1,119	De	1,352	Je	1,000	1,361	1,304	56	4,048,826
28	Toys and games.....	53	1,839	48	90	47	94	1,560	Au	1,877	Ja	947	1,685	922	659	3,926,151
29	Trunks and valises.....	86	1,467	120	58	122	53	1,115	De	1,201	Ja	954	1,220	1,064	124	3,467,647
30	Umbrellas and canes.....	21	1,562	24	38	89	35	1,376	De	1,565	Ja	1,189	1,669	760	603	7,067,066
31	Upholstering materials, not elsewhere specified.....	12	481	10	25	29	15	402	Au	445	Fe	342	450	277	167	3,045,223
32	Varnishes.....	16	253	4	45	50	19	135	De	180	Ja	117	150	145	5	1,955,066
33	Vinegar and cider.....	42	237	36	83	32	10	126	.....	.....	.....	.....	178	159	19	1,513,198
34	Vinegar.....	13	105	8	21	7	3	66	No	102	Ja	52	79	75	4	1,108,178
35	Cider.....	29	132	28	12	25	7	60	Oc	96	Ja	41	99	84	15	405,020
36	Wall paper, not made in paper mills.....	12	1,152	2	38	74	39	999	De	1,111	Au	892	1,168	869	209	4,903,878
37	Wallpaper and composition flooring.....	14	133	6	19	8	7	93	Jy	109	Mh	77	97	96	1	581,386
38	Waste.....	44	875	40	71	25	37	702	.....	.....	.....	.....	744	505	239	4,802,293
39	Cotton waste.....	23	474	22	36	15	13	388	Ja	411	Ap	349	391	263	128	3,067,790
40	All other.....	21	401	18	35	10	24	314	De	356	Ap	260	353	242	111	1,704,503
41	Window and door screens and weather strips.....	13	156	11	10	.....	5	130	Je	170	Au	84	161	147	14	627,749
42	Window shades and fixtures.....	25	177	30	7	31	9	100	Je ^a	113	Ja	77	114	92	19	923,647
43	Wire.....	11	2,471	1	76	136	55	2,203	Au	2,469	Oc	2,005	2,302	2,283	15	15,376,302
44	Wirework, including wire rope and cable, not elsewhere specified.....	61	2,377	36	127	123	73	2,018	De	2,214	Ap	1,824	2,239	1,684	389	8,995,720
45	Wood distillation.....	44	1,401	16	126	31	17	1,211	Ja	1,559	Je	937	1,475	1,473	2	9,821,100
46	Wood, turned and carved.....	63	855	64	44	5	11	731	De	865	My	633	3,865	3,744	119	1,575,680
47	Wooden goods, not elsewhere specified.....	23	311	21	17	6	8	259	No	301	Ja	242	277	230	47	853,954
48	Wool pulling.....	4	169	6	8	5	.....	150	De	171	Mh	116	171	171	.....	1,038,716
49	Wool shoddy.....	9	193	13	17	9	1	153	De	170	Ap	143	161	132	28	1,077,203
50	Woolen goods.....	108	7,955	90	295	111	61	7,398	De	8,631	Mh	5,182	8,675	5,330	3,206	31,548,546
51	Worsted goods.....	89	16,346	57	358	334	197	15,400	De	17,358	Fe	12,778	17,423	9,939	9,589	80,390,892
52	All other industries*.....	184	43,189	101	934	1,712	946	39,496	.....	.....	.....	.....	.....	.....	.....	206,993,197

* All other industries embrace—
Aeroplanes, seaplanes, and airships,
and parts..... 1
Aluminum manufactures..... 6
Boots and shoes, rubber..... 1
Cardboard, not made in paper mills..... 5

Cars, electric-railroad, not including
operations of railroad companies..... 2
Cash registers and calculating machines..... 6
Charcoal, not including production in
the lumber and wood distillation
industries..... 1

Chewing gum..... 2
Collars and cuffs, men's..... 2
Combs and hairpins, not made from
metal or rubber..... 1
Engravers' materials..... 2

Firearms..... 2
Fire extinguishers, chemical..... 2
Fireworks..... 5
Fuel, briquetted..... 2

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).

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[illegible][illegible]

Furs, dressed.....	1	Malt.....	1	Sand-lime brick.....	1	Tin foil.....	1
Gold, leaf and foil.....	4	Matches.....	2	Saws.....	12	Type founding.....	3
Grindstones.....	1	Mats and matting, from cocca fiber,		Scales and balances.....	5	Typewriters and supplies.....	9
Hardware, saddlery.....	2	grass, and coir.....	2	Screws, wood.....	1	Vault lights and ventilators.....	3
Hat and cap materials.....	0	Nets and seines.....	2	Sewing-machine cases.....	3	Washing machines and clothes wring-	
Horses, coes, not made in steel works		Oil, essential.....	3	Sewing machines and attachments.....	3	ers.....	8
or rolling mills.....	8	Ordnance and accessories.....	2	Show cases.....	1	Watch and clock materials, except	
Ivory, shell, and bone work, not in-		Pens, steel.....	2	Smelting and refining, lead.....	1	watchcases.....	3
cluding combs and hairpins, not in-	2	Pens, fountain and stylographic.....	1	Smelting and refining, metals, not		Watchcases.....	2
cluding combs and hairpins, not in-	3	Pens, lead.....	1	elsewhere specified.....	1	Watches.....	3
Liquors, distilled, grain alcohol and		Photographs and graphophones.....	3	Smelting and refining, zinc.....	3	Wheelbarrows.....	1
whiskey.....	3	Pipes, tobacco.....	2	Sporting and athletic goods.....	5	Wood preserving.....	3
Liquors, vinous.....	2	Sales and vaults.....	4	Sulphuric, nitric, and mixed acids...	4	Wool scouring.....	3
Locomotives, not made by railroad							
companies.....	8						

* Same number reported for one or more other months.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	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.						
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.															
1 ALLENTOWN—All industries.	336	16,907	333	540	828	394	14,812	De 16,510	Mh 13,951	16,578	10,700	5,305	237	330	Dollars. 59,811,024
2 Automobile repairing.	27	176	28	5	5	8	130	De 153	Fe 121	132	132	328	45	41	277,915
3 Boots and shoes.	9	935	10	26	43	16	840	De 878	Ja 806	875	461	27	27	27	2,025,763
4 Bread and other bakery products.	39	314	41	10	7	6	250	De 260	Ja 230	265	233	27	27	27	930,434
5 Brick, building.	3	75	6	4	2	1	62	Au 78	Ja 28	42	42	21	21	21	406,875
6 Confectionery and ice cream.	12	110	13	9	3	3	82	De 82	Ja 82	69	48	21	21	21	161,103
7 Confectionery.	4	7	6	0	0	1	82	Jy 101	Ja 65	69	48	21	21	21	13,700
8 Ice cream.	8	103	7	9	3	2	43	(3) 43	(3) 43	43	42	1	1	1	147,493
9 Copper, tin, and sheet-iron work.	5	59	11	3	2	1	509	De 572	Au 451	563	563	5	5	5	86,345
10 Foundry and machine-shop products.	14	639	16	37	58	19	438	Au 471	Ja 375	456	447	5	4	4	4,149,330
11 Furniture, wood, other than rattan and willow.	7	510	4	49	15	4	438	Au 471	Ja 375	456	447	5	4	4	870,618
12 Knit goods.	8	304	6	16	3	4	275	Ja 288	De 255	254	33	187	10	24	649,353
13 Liquors, malt.	3	124	3	10	13	1	97	Jy 111	No 85	79	79	3	3	3	1,831,176
14 Lumber, planing-mill products, not including planing mills connected with sawmills.	4	109	9	6	5	1	88	Ja 98	Mh 73	93	93	3	3	3	427,656
15 Marble and stone work, monuments and tombstones.	8	60	8	4	6	1	42	Fe 40	No 36	39	39	3	3	3	129,939
16 Mineral and carbonated waters.	7	21	8	1	1	1	12	Ja 14	Ja 11	12	12	1	1	1	75,503
17 Patent medicines and compounds.	4	9	6	1	1	1	1	(3) 1	(3) 1	1	1	1	1	1	18,647
18 Paving materials.	4	75	2	7	1	1	65	Au 95	Fe 22	87	87	3	3	3	101,002
19 Printing and publishing, book and job.	23	172	26	4	2	6	134	No 141	Ja 128	141	93	26	10	3	545,992
20 Silk goods, including throwsters.	27	4,374	7	95	91	57	4,124	De 4,347	Jy 3,273	4,600	1,849	2,440	107	204	15,317,100
21 Finished products.	23	4,040	5	87	90	50	3,808	De 4,347	Jy 3,273	4,280	1,693	2,295	97	195	15,028,523
22 Throwsters and winders.	4	334	2	8	1	7	316	Jy 350	Ja 289	320	156	145	10	9	288,577
23 Textile machinery and parts.	5	238	10	9	4	4	211	Au 229	Ja 185	228	205	10	12	1	325,347
24 Tobacco, cigars.	24	1,342	20	58	16	11	1,237	De 1,592	Au 463	1,548	211	1,310	8	19	1,928,277
25 All other industries*.	100	7,261	99	187	551	252	6,172	De 1,592	Au 463	7,051	6,031	950	32	38	29,552,557
* All other industries embrace—															
Artificial stone products.	1														
Automobile bodies and parts.	2														
Automobiles.	2														
Baskets, and rattan and willow ware.	1														
Belting, woven, other than rubber.	1														
Blacking, stains, and dressings.	1														
Bookbinding and blank-bookmaking.	2														
Boot and shoe cut stock.	1														
Boxes, cigar.	1														
Boxes, set-up paper boxes.	2														
Boxes, wooden packing, except cigar boxes.	1														
Brass and bronze products.	2														
Brooms, from broom corn.	2														
Brushes.	1														
Cars and general shop construction and repairs by electric-railroad companies.	1														
Cars and general shop construction and repairs by steam-railroad companies.	1														
Chemicals.	2														
Clothing, men's.	3														
Clothing, women's.	3														
Cooperage, hogsheds and barrels.	1														
Cordials and flavoring sirups.	1														
Corsets.	1														
Druggists' preparations.	1														
Dyeing and finishing textiles, exclusive of that done in textile mills.	5														
Flour-mill and gristmill products.	1														
Food preparations, not elsewhere specified.	3														
Fur goods.	1														
Furnishing goods, men's.	2														
Gas and electric fixtures.	2														
Gas, illuminating and heating.	1														
Glass, cutting, staining, and ornamenting.	1														
Hand stamps.	1														
Hardware, builders'.	2														
Hats and caps, other than felt, straw, and wool.	1														
Hats, fur-felt.	1														
ALTOONA—All industries.	64	13,692	64	357	347	124	12,800	No 13,972	Mh 11,459	13,877	12,783	1,028	38	28	28,066,769
1 Awnings, tents, and sails.	8	8	4	1	1	4	4	My 6	Ja 2	8	5	3	3	3	4,075
2 Bread and other bakery products.	14	136	13	4	10	109	109	De 115	Ja 98	108	96	12	12	12	402,933
3 Copper, tin, and sheet-iron work.	3	8	8	1	1	1	1	No 4	Jy 3	7	7	1	1	1	13,026
4 Liquors, malt.	4	122	6	9	5	2	100	Au 127	De 78	95	95	1	1	1	1,130,235
5 Printing and publishing, book and job.	6	51	9	1	3	6	32	No 4	Ja 29	33	13	20	6	6	59,901
6 Printing and publishing, newspapers and periodicals.	5	254	2	11	63	28	150	Jy 159	Ja 140	157	139	12	6	6	527,721
7 All other industries*.	20	13,113	27	332	270	77	12,401	De 13,972	Mh 11,459	13,469	12,423	981	32	28	25,928,818
* All other industries embrace—															
Cars and general shop construction and repairs by electric-railroad companies.	1														
Cars and general shop construction and repairs by steam-railroad companies.	4														
Clothing, men's.	1														
Confectionery and ice cream.	3														
Dental goods.	1														
Gas, illuminating and heating.	1														
Grease and tallow, not including lubricating greases.	1														
Hats and caps, other than felt, straw, and wool.	1														
BETHLEHEM—All industries.	86	16,944	66	750	760	401	14,061	Ja 17,064	Ap 13,236	16,194	13,499	2,474	87	134	115,170,210
1 Bread and other bakery products.	15	72	16	2	2	52	My 55	No 48	48	51	44	7	7	7	151,111
2 Knit goods.	6	412	17	3	3	339	Au 467	Ja 294	294	409	58	253	18	80	711,047
3 Liquors, malt.	3	57	3	5	6	1	42	Jy 45	Oc 39	39	39	1	1	1	902,905
4 Marble and stone work.	6	105	6	5	2	2	92	No 100	Ja 80	96	96	4	4	4	364,645
5 Printing, job.	6	35	6	2	2	2	25	(3) 25	(3) 25	25	18	4	3	3	78,579
6 Printing and publishing, newspapers and periodicals.	6	103	13	10	7	4	69	No 75	Ap 65	72	54	11	7	7	306,625
7 Silk goods, including throwsters.	5	1,086	17	7	10	1,052	Oc 1,118	Ja 963	963	1,134	400	656	33	45	2,513,105
8 Tobacco, cigars.	7	1,049	3	65	16	9	956	De 1,410	Au 135	1,410	84	1,311	6	9	1,622,249
9 All other industries*.	29	14,025	19	629	723	370	12,284	De 1,410	Au 135	12,958	12,706	232	20	20	108,519,944
* All other industries embrace—															
Automobile repairing.	1														
Bookbinding and blank-bookmaking.	1														
Boxes, set-up paper boxes.	1														
Chemicals.	1														
Clothing, women's, shirt waists and dresses, except house dresses.	1														
Coal-tar products.	1														
Coke, not including gas-house coke.	1														
Confectionery, ice cream.	2														
Cooperage, hogsheds and barrels.	1														
Copper, tin, and sheet-iron work.	1														
Electrical machinery, apparatus, and supplies.	1														
Flour-mill and gristmill products.	1														
Foundry and machine-shop products.	1														
Furniture, wood, other than rattan and willow.	1														

* 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).

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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.			Rent-ed. ¹	
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		

[illegible]

913,638	740,336	19,367,447	24,871	13,790	304,095	30,301,891	863,784	53,946,092	22,780,418	10,700	9,770				1,020	11,709	1
18,654	20,409	2,235		510	3	11,637	57	20,554	8,860	2					2		2
	117,487			1,164	2,743	645,198	13,159	950,780	202,423	140	60				80		5
	600	4,594		180	103	5,072	219	13,213	7,922								3
21,720	8,520	100,404			234,887	117,595	56,909	771,067	596,563	704	460				244	45	5
2,361	7,596	23,693	143	2,786	60	53,140	1,021	118,411	64,250	25					25		6
34,706	90,114	133,656	92	1,118	2,753	248,181	5,008	642,237	388,058	231					231		7
836,107	613,097	18,970,203	24,636	8,032	64,146	29,221,068	787,321	51,429,831	21,421,442	9,688	9,250				438	11,659	8

2, 986, 587	1, 543, 403	21, 656, 870	178, 425	40, 724	1, 481, 720	43, 144, 765	12, 234, 261	102, 567, 075	47, 188, 049	84, 890	47, 912	11, 800	21, 540	60	3, 578	166, 997	1
.....	1, 806	60, 000	.....	6, 215	1, 640	228, 454	7, 603	368, 780	132, 733	33	.....	.....	.....	.....	33	.....	2
38, 703	4, 740	210, 274	.....	1, 300	27, 969	680, 112	6, 858	1, 225, 677	595, 807	212	90	.....	.....	.....	122	.....	2
15, 996	10, 912	52, 434	.....	.....	135, 216	92, 080	11, 281	442, 430	338, 199	347	280	.....	.....	.....	67	.....	3
6, 420	2, 460	76, 239	.....	.....	1, 608	18, 485	5, 222	121, 886	98, 229	341	300	.....	.....	.....	41	.....	4
2, 863	894	18, 514	.....	.....	1, 224	24, 263	1, 229	68, 847	43, 865	36	.....	.....	.....	.....	6	.....	5
20, 880	9, 915	90, 082	0, 164	1, 496	2, 783	78, 213	4, 271	262, 355	184, 871	127	.....	.....	.....	.....	127	.....	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
111, 754	13, 875	814, 534	163, 303	4, 188	128, 079	1, 988, 424	93, 285	4, 423, 180	2, 341, 421	1, 696	550	.....	.....	.....	1, 146	.....	8
89, 438	61, 407	664, 082	5, 043	13, 200	833, 713	1, 001, 064	8, 920	2, 644, 265	1, 634, 281	139	100	.....	.....	.....	39	.....	9
2, 700, 553	1, 437, 324	19, 654, 803	315	22, 041	849, 916	30, 087, 430	12, 093, 602	93, 009, 705	41, 878, 673	81, 959	46, 592	11, 800	21, 540	60	1, 967	166, 990	10

³ Same number reported throughout the year.
⁴ Same number reported for one or more other months.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	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.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	CHESTER—All industries.....	127	20,827	107	541	1,030	472	18,677	Fe 20,287	Ap 17,826	19,735	17,020	2,055	41	19	Dollars. 78,026, 038
2	Automobile repairing.....	4	15	4	1	1	1	11	(8)	11	11	11	11			43, 653
3	Bread and other bakery products.....	15	115	16	2	12	6	70	Oc 85	Mh 67	70	71	3	2		189, 442
4	Confectionery and ice cream.....	11	77	16	2	1	1	60	Ja 14	Ja 12	16	12	4			293, 823
5	Confectionery.....	4	13	5	1	1	1	13	My 14	Se 30	16	12	4			54, 470
6	Ice cream.....	7	59	10	2	1	1	47	My 46	My 31	40	40	18			238, 353
7	Foundry and machine-shop products.....	4	51	6	4	2	2	38	De 2,332	My 1,601	1,710	1,717	2			100, 730
8	Iron and steel, steel works and rolling mills.....	5	2,235	70	200	54	1,905	Fe 2,332	My 1,601	1,710	1,717	2				10,792, 564
9	Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	141	3	5	2	6	125	Oc 152	Fe 92	139	139				471, 068
10	Mineral and carbonated waters.....	4	12	5	1	1	1	6	My 4	Ja 5	7	7				57, 000
11	Models and patterns, not including paper patterns.....	4	28	4	1	1	1	23	De 27	Ja 18	27	20	1			52, 218
12	Printing and publishing, book and job.....	6	19	8	1	1	1	11	Oc 4	Ja 8	15	0	5	1		41, 554
13	All other industries *.....	71	18,134	47	448	814	403	16,422			17,612	15,533	2,022	38	10	66,833, 986

*All other industries embrace—	Carriage and wagon materials.....	1	Cordage and twine.....	1	Dyestuffs and extracts—natural.....	1
Artists' materials, crayons.....	Cars and general shop construction and repairs by electric-railroad companies.....	1	Cotton goods.....	5	Furniture, wood, other than rattan and willow.....	2
Automobile bodies and parts.....	Chemicals.....	2	Cotton lace.....	1	Grease and tallow, not including lubricating greases.....	1
Belting, leather.....	Coffee, roasting and grinding.....	1	Cutlery and edge tools.....	1	House-furnishing goods, comforts and quilts.....	1
Brass and bronze products.....	Copper, tin, and sheet-iron work.....	4	Dairymen's supplies.....	1		
Brick and tile, terra-cotta, and fire-clay products.....			Dyeing and finishing textiles, exclusive of that done in textile mills.....	1		

1	ERIE—All industries.....	293	15,484	213	627	813	534	13,297	De 14,429	Ap 12,206	14,030	12,671	1,787	220	58	68,362, 291
2	Artificial stone products.....	7	19	9	1	1	1	10	Se 16	Ja 0	19	19				45, 707
3	Brass, bronze, and copper products.....	6	161	2	10	4	7	138	De 154	Ap 127	152	152				568, 303
4	Bread and other bakery products.....	30	245	33	11	9	8	184	Jy 189	Ja 169	194	180	29	4	1	720, 059
5	Confectionery and ice cream.....	6	198	1	17	9	13	158	Ja 184	Ja 128	156	104	52			618, 249
6	Copperage, hogsheds and barrels.....	3	12	3	1	1	1	9	Fe 16	Oc 1	15	15				9, 023
7	Copper, tin, and sheet-iron work.....	9	95	13	3	2	2	74	Oc 86	Mh 57	88	88				282, 499
8	Flour-mill and grist-mill products.....	5	53	2	12	10	1	26	Jy 4	Ja 27	28	28				580, 087
9	Foundry and machine-shop products.....	31	4,441	14	141	180	98	4,008	De 2,821	My 2,199	4,406	4,209	243	44		18,338, 969
10	Boiler shops and foundries.....	9	2,724	1	182	92	38	2,631	De 2,821	My 2,199	2,822	2,615	163	44		9,778, 115
11	Machine shops, including machine shops and foundries combined.....	22	1,717	13	79	88	60	1,477	No 1,084	Ja 1,321	1,674	1,594	80			8,558, 854
12	Iron and steel, steel works and rolling mills.....	4	1,360	52	78	35	1,204	Ja 1,661	Je 997	1,176	1,173	3				6,902, 730
13	Lumber, planing-mill products, not including planing mills connected with sawmills.....	12	206	11	23	13	9	150	Ja 4	Fe 130	153	151	2			1,741, 480
14	Marble and stone work.....	5	16	7	1	1	1	7	My 10	Ja 4	8	8				38, 708
15	Mineral and carbonated waters.....	6	29	9	1	1	1	17	Jy 4	Ja 14	13	12	1			83, 877
16	Models and patterns, not including paper patterns.....	5	41	6	1	1	1	35	No 39	Fe 28	35	35				47, 086
17	Oil, composite.....	3	43	14	14	4	1	11	(8)	11	11	11				536, 641
18	Optical goods.....	3	24	1	8	2	3	15	Ja 16	De 14	14	11	1	2		47, 287
19	Printing and publishing, book and job.....	16	276	9	21	8	11	227	No 253	Je 209	248	142	101	4	1	785, 736
20	Printing and publishing, newspapers and periodicals.....	8	201	2	16	41	25	117	No 123	Au 109	122	109	11	2		425, 500
21	Stamped and enameled ware, not elsewhere specified.....	3	78	10	4	8	1	56	De 78	Mh 46	78	68	7	2	1	322, 654
22	Tobacco, cigars.....	16	89	18	1	2	1	68	Ja 71	Jy 65	69	53	12	3	1	73, 420
23	All other industries *.....	109	7,888	73	292	433	310	6,780			7,561	6,023	1,325	159	54	36,178, 476

*All other industries embrace—	Carriage and wagon materials.....	1	Cork cutting.....	1	Gas fixtures.....	2
Aluminum manufactures.....	Carriages and sleds, children's.....	1	Corsets.....	1	Gas and water meters.....	1
Automobile bodies and parts.....	Cars and general shop construction and repairs by steam-railroad companies.....	3	Dairymen's supplies, cream separators.....	1	Grease and tallow, not including lubricating greases.....	1
Automobiles.....	Cars, steam-railroad, not including operations of railroad companies.....	1	Druggists' preparations.....	1	Hand stamps.....	1
Automobile repairing.....	Chemicals.....	1	Electrical machinery, apparatus, and supplies.....	2	Hardware.....	1
Awnings, tents, and sails.....	Clothing, men's and youths'.....	3	Engines, steam, gas, and water.....	3	House-furnishing goods, mops and dusters.....	1
Babbitt and white metal.....	Coffee, roasting and grinding.....	2	Food preparations, macaroni, vermicelli, and noodles.....	2	Ice, manufactured.....	1
Boxes, paper, set-up paper boxes and shipping containers.....	Coffins, burial cases, and undertakers' goods.....	2	Fur goods.....	1	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	2
Brooms.....			Furniture, store and office fixtures.....	1		
Canning and preserving, fish.....						
Carpets, rag.....						

1	HARRISBURG—All industries.....	216	12,176	204	546	627	277	10,522	Ja 12,215	Mh 9,701	11,073	8,182	2,830	81	30	38,756, 528
2	Automobile repairing.....	12	91	8	2	4	4	73	Au 84	Ja 96	60	68	1			124, 464
3	Awnings, tents, and sails.....	5	11	6	1	1	1	5	My 10	Ja 2	10	6	4			6, 177
4	Boxes, paper, set-up paper boxes and shipping containers.....	3	68	6	1	2	2	59	De 110	Jy 35	125	29	36	1	9	48, 400
5	Bread and other bakery products.....	31	340	33	27	47	15	218	Oc 4	232	Ja 199	229	192	32	5	1,458, 538
6	Confectionery and ice cream.....	18	276	24	9	36	11	196	Se 191	Je 145	170	79	98	2		576, 861
7	Confectionery.....	8	221	12	4	35	9	161	Jy 4	Ja 30	144	50	93	1		314, 429
8	Ice cream.....	10	55	12	5	1	2	35	Ja 24	Ja 17	35	29	5	1		262, 432
9	Copper, tin, and sheet-iron work.....	4	29	4	2	2	2	21	Je 24	Ja 11	22	20	12	2		52, 464
10	Food preparations, not elsewhere specified.....	4	19	6	1	1	1	13	Oc 4	Ja 11	23	10	12	1		17, 592
11	Iron and steel, steel works and rolling mills.....	5	2,609	2	80	78	5	2,444	Ja 3,806	Au 2,019	2,204	2,201	3			11,244, 618

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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	Rent. ²	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
2,470,092	2,350,084	27,414,263	87,265	116,680	2,445,995	40,791,245	2,880,970	95,049,003	43,276,788	44,048	13,890	1,300	39	25	28,794	6,060
20,315	20,548	10,751	2,126	2,400	471	32,809	693	63,710	30,208	14	.....	.....	.....	.....	14	2
6,100	.....	104,090	.....	5,800	0,926	433,096	13,026	680,480	233,467	68	.....	.....	.....	.....	68	3
.....	.....	49,568	1,200	2,800	2,278	136,179	4,556	251,181	113,446	63	.....	.....	.....	.....	63	4
.....	.....	12,386	.....	1,800	335	20,930	546	41,462	19,986	8	.....	.....	.....	.....	8	5
6,100	.....	37,182	1,200	1,000	1,938	115,249	4,010	212,719	93,460	55	.....	.....	.....	.....	55	6
9,403	3,792	64,035	.....	367	.....	19,117	3,414	126,332	103,801	69	.....	.....	.....	.....	69	7
271,772	454,460	2,833,672	.....	.....	174,957	3,327,919	710,168	8,373,774	4,335,687	4,877	2,370	.....	.....	.....	2,507	8
14,300	8,699	155,521	.....	.....	2,538	300,333	4,962	612,604	307,309	311	175	.....	.....	.....	130	9
.....
1,404	.....	6,908	.....	.....	652	12,960	582	26,342	12,820	13	.....	.....	.....	.....	13	10
.....	720	34,604	.....	600	270	29,318	1,668	95,762	64,776	44	.....	.....	31	.....	13	11
.....	.....	8,092	.....	.....	1,680	21,453	651	42,481	20,377	8	.....	.....	.....	.....	8	12
2,146,708	1,852,865	24,140,122	83,939	103,340	2,257,181	45,477,161	2,141,270	85,673,328	38,054,897	38,581	11,345	1,300	8	25	25,903	1,960

Ice, manufactured.....	2	Marble and stone work.....	2	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Textile machinery and parts.....	1
Iron and steel, blast furnaces.....	1	Mattresses and spring beds, not elsewhere specified.....	1	Saddlery and harness.....	2	Tobacco, cigars.....	5
Iron and steel forgings, not made in steel works or rolling mills.....	2	Paper and wood pulp.....	1	Shipbuilding, steel, new vessels.....	2	Wool shoddy.....	1
Iron and steel, wrought pipe.....	1	Paving materials.....	1	Slaughtering and meat packing.....	2	Woolen goods.....	1
Leather, tanned, curried, and finished.....	2	Printing and publishing, newspapers and periodicals.....	3	Steam packing.....	1	Worsted goods.....	3
Liquors, malt.....	1	.....	.....	Structural ironwork, not made in steel works or rolling mills.....	1	.....	.....
Looking-glass and picture frames.....	2	.....	.....	.....	.....	.....	.....

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
2,593,528	1,856,705	16,574,217	427,959	80,640	2,874,545	29,747,958	1,750,894	70,407,540	38,908,688	40,519	14,292	50	1,030	.....	25,147	7,940
.....	.....	16,273	.....	144	422	26,817	1,150	50,248	28,281	135	.....	.....	2	.....	133	2
52,205	11,379	195,152	.....	480	24,761	454,939	26,772	374,047	392,336	767	.....	.....	.....	.....	767	3
29,542	30,646	237,970	.....	5,339	9,908	1,038,303	30,751	1,589,492	520,438	255	.....	.....	17	.....	238	4
40,734	11,700	174,481	.....	7,980	93,421	748,197	21,196	1,194,382	424,989	1,000	125	330	.....	605	218	5
.....	.....	4,558	.....	50	912	21,970	201	32,004	9,833	20	.....	.....	.....	20	.....	6
5,600	5,070	95,484	.....	240	3,674	127,860	1,145	303,142	174,128	46	.....	.....	.....	46	.....	7
28,093	21,767	30,765	.....	330	5,727	1,142,614	9,680	1,390,758	244,464	516	.....	.....	120	396	.....	8
703,768	460,870	5,762,483	.....	4,462	1,072,644	3,788,552	537,115	21,008,988	12,783,322	8,207	1,629	147	.....	6,431	5,701	9
300,804	202,935	3,672,206	.....	600	385,992	3,777,026	370,069	10,928,668	6,781,573	2,647	209	.....	.....	2,338	4,188	10
402,964	257,085	2,000,217	.....	3,862	686,652	3,911,520	167,046	10,080,821	6,001,749	5,660	1,420	.....	147	4,093	1,513	11
.....
267,973	139,603	1,711,078	.....	.....	29,018	1,745,495	498,416	4,458,025	2,214,114	9,650	1,650	50	.....	7,950	.....	12
60,030	21,392	138,688	.....	9,754	25,627	620,221	14,125	1,005,596	371,250	999	630	.....	25	344	.....	13
.....
.....	2,201	9,848	.....	1,455	197	43,701	559	78,630	34,370	18	.....	.....	11	7	.....	14
2,600	1,513	16,593	.....	1,909	4,934	33,692	822	115,907	81,393	46	.....	.....	.....	46	.....	15
.....	.....	46,269	.....	1,452	272	27,836	1,097	339,849	310,916	89	.....	.....	6	83	.....	16
40,208	40,969	16,623	.....	1,050	5,482	607,121	2,031	815,398	206,246	59	40	.....	.....	19	.....	17
9,499	4,316	14,969	.....	3,450	2,660	62,610	358	118,794	55,826	9	.....	.....	.....	9	.....	18
35,309	16,668	187,660	.....	7,812	6,745	270,005	6,510	663,756	387,241	156	.....	.....	15	141	80	19
75,661	70,961	171,661	1,104	10,807	33,034	136,628	5,629	800,287	617,030	187	.....	.....	.....	187	.....	20
26,684	7,930	58,006	.....	.....	2,653	144,699	7,160	310,657	158,798	172	.....	.....	.....	172	.....	21
1,000	6,500	90,905	.....	2,932	25,326	95,081	439	232,932	137,392	1	.....	.....	.....	1	.....	22
1,205,562	1,002,326	7,597,061	426,855	21,000	1,627,119	14,661,608	585,718	35,003,647	19,756,321	18,127	10,218	.....	857	7,552	1,935	23

Iron and steel, cast-iron pipe.....	1	Oilcloth and linoleum, floor.....	1	Shipbuilding, wooden, including boat building.....	2	Suspenders, garters, and elastic woven goods.....	1
Iron and steel, welding.....	2	Paper and wood pulp.....	1	Shirts.....	1	Textile machinery and parts.....	1
Liquors, malt.....	2	Patent and proprietary medicines.....	1	Signs and advertising novelties.....	1	Tobacco, chewing.....	1
Lithographing.....	2	Petroleum, refining.....	1	Silk goods.....	1	Toys, not elsewhere specified.....	1
Locomotives, not made by railroad companies.....	1	Photo-engraving.....	2	Slaughtering and meat packing.....	2	Wall plaster and composition flooring.....	2
Looking-glass and picture frames.....	1	Plumbers' supplies, not elsewhere specified.....	3	Soap.....	1	Washing machines and clothes wringers.....	1
Machine tools.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	2	Stereotyping and electrotyping.....	1	Wirework, woven-wire fencing.....	1
Mattresses and spring beds, not elsewhere specified.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	2	Stoves and ranges.....	1	.....	.....
Musical instruments, organs.....	1	.....	.....	Stoves, gas and oil.....	3	.....	.....
Musical instruments, organ materials.....	1	.....	.....	Structural ironwork, not made in steel works or rolling mills.....	1	.....	.....

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
1,535,755	1,171,750	11,847,140	288,189	103,049	1,621,822	24,645,809	1,392,786	52,152,818	26,114,223	27,363	17,140	170	200	.....	9,853	5,952
.....
3,120	6,692	89,699	2,667	10,040	2,113	56,422	2,126	191,751	133,203	59	.....	.....	.....	.....	59	2
.....	.....	3,820	200	769	.....	7,722	157	10,303	8,424	4	.....	.....	.....	.....	4	3
6,849	2,319	20,478	.....	500	556	46,933	1,225	104,162	56,004	45	.....	.....	.....	.....	45	4
37,173	85,478	222,996	184	3,788	7,057	1,285,189	36,921	1,883,061	500,951	287	3	.....	.....	284	4	5
35,276	63,106	125,011	22	10,441	60,263	617,915	17,090	1,137,650	502,645	381	150	.....	.....	231	.....	6
16,876	39,622	86,584	22	9,644	57,317	327,038	6,024	681,695	348,633	78	.....	.....	.....	78	.....	7
18,400	3,454	38,427	.....	11,976	200,877	11,066	.....	455,955	154,012	303	150	.....	.....	153	.....	8
3,274	1,165	22,290	.....	797	558	28,108	317	68,218	39,783	.....	.....	.....	.....	.....	.....	9
.....	1,710	7,450	.....	900	594	54,985	951	83,017	27,981	10	7	.....	.....	3	.....	10
384,351	144,952	3,403,311	.....	344	446,198	7,088,528	911,040	13,739,153	5,730,586	17,353	12,375	.....	.....	4,978	4,704	11

* Same number reported throughout the year.

* Same number reported for one or more other months.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	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.								
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
HARRISBURG—Continued.																	
1 Knit goods.....	5	689	.....	19	55	38	577	Fe	604	Oc	540	584	89	488	2	5	Dollars.
2 Mineral and soda waters.....	6	47	9	8	2	3	25	Jy ^a	29	Je ^a	21	24	24	.....	.....	.....	2,006,219
3 Patent and proprietary medicines.....	9	37	18	1	6	2	10	(^a)	10	(^a)	10	10	3	6	1	.....	250,913
4 Printing and publishing, book and job.....	19	311	25	8	7	15	256	De	289	Ja	235	289	189	91	5	4	24,538
5 Printing and publishing, newspapers and periodicals.....	8	555	4	28	112	47	364	De	405	Ja	353	405	209	136	.....	.....	704,850
6 Tobacco, cigars.....	14	859	8	35	7	5	804	De	874	Au	744	998	69	928	1	.....	1,262,790
7 All other industries*.....	73	6,235	57	321	272	128	5,457	.....	.....	.....	.....	5,902	4,934	945	12	11	1,030,418
*All other industries embrace—																	
Artificial limbs.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19,847,686
Artificial stone products.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Automobile bodies and parts.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bookbinding and blank-book making.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boots and shoes.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boxes, wooden packing, except cigar boxes.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brass and bronze products.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brooms, from broom corn.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butter.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carpets, rag.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carriages and wagons, including repairs.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clothing, women's.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coffee, roasting and grinding.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coffins, burial cases, and undertakers' goods.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Collars and cuffs, men's.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Condensed milk.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dental goods.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Druggists' preparations.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engines, steam, gas, and water.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ferrolloys.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry and machine-shop products.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
JOHNSTOWN—All industries.																	
1 Automobile repairing.....	12	62	10	3	1	2	46	Jy ^a	53	Ja	37	48	48	.....	.....	.....	89,048
2 Bread and other bakery products.....	16	132	16	11	18	7	130	Au	137	Fe	122	111	75	33	3	.....	366,679
3 Confectionery and ice cream.....	9	95	13	7	2	12	61	Je	79	Fe	48	83	44	37	2	.....	258,177
4 Copper, tin, and sheet-iron work.....	5	29	8	5	.....	3	13	Oo	16	Fe	9	13	12	.....	1	.....	35,532
5 Foundry and machine-shop products.....	8	1,288	5	98	93	41	1,051	Ja	1,224	Se	978	1,051	1,040	5	6	.....	13,678,582
6 Lumber, planing-mill products, not including planing mills connected with sawmills.....	7	75	6	11	5	1	52	No	66	Ja	34	58	58	.....	.....	.....	311,477
7 Mineral and carbonated waters.....	9	31	10	2	3	.....	16	No	22	Ja ^a	10	23	20	.....	3	.....	148,622
8 Printing and publishing, book and job.....	8	101	7	10	2	7	75	Au	77	Fe ^a	73	88	51	36	1	.....	197,497
9 Printing and publishing, newspapers and periodicals.....	5	167	3	31	.....	8	125	De	129	Ja ^a	120	125	107	15	3	.....	572,937
10 Slaughtering and meat packing.....	4	102	1	9	19	4	69	De	113	My	57	113	91	22	.....	.....	914,454
11 All other industries*.....	66	12,732	47	463	738	267	11,217	.....	.....	.....	.....	11,088	10,719	349	20	.....	46,523,965
*All other industries embrace—																	
Carriages and wagons, including repairs.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clothing, men's.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coal-tar products.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coke, not including gas-house coke.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperage.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dental goods.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Electrical machinery, apparatus, and supplies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flour-mill and gristmill products.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Food preparations, not elsewhere specified.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Furniture, wood, other than rattan and willow.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glass, cutting, staining, and ornamenting.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gloves and mittens, cloth, not including gloves made in textile mills.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
LANCASTER—All industries.																	
1 Automobile bodies and parts.....	6	85	9	7	1	1	67	My ^a	85	An	39	73	73	.....	.....	.....	149,457
2 Automobile repairing.....	4	49	2	3	1	2	41	Oo ^a	44	My	37	44	43	1	.....	.....	56,212
3 Boxes, cigar.....	3	86	4	4	.....	2	76	No	80	Ap	72	70	32	44	1	2	99,190
4 Bread and other bakery products.....	28	249	26	10	32	31	150	Se	153	Fe	148	149	140	7	2	.....	659,257
5 Coffee, roasting and grinding.....	3	13	1	3	1	.....	8	(^a)	8	(^a)	8	8	8	.....	.....	.....	83,685
6 Confectionery and ice cream.....	30	854	24	24	39	40	727	.....	.....	.....	.....	762	282	393	57	30	1,689,182
7 Confectionery.....	20	809	14	22	39	39	695	Se	793	Ja	598	729	253	389	57	30	1,497,508
8 Ice cream.....	10	45	10	2	.....	1	32	Jy ^a	42	Ja	24	33	29	4	.....	.....	191,679
9 Copper, tin, and sheet-iron work.....	5	27	6	.....	.....	1	21	My ^a	22	Mh	19	21	21	.....	.....	.....	35,546
10 Food preparations, not elsewhere specified.....	5	117	11	1	14	1	90	De	130	Fe	68	130	127	3	.....	.....	720,503
11 Foundry and machine-shop products.....	14	1,330	11	32	55	12	1,220	De	1,365	Je	1,131	1,366	1,316	46	4	.....	3,340,304
12 Hardware.....	6	600	4	18	24	27	527	Ja	542	Je	511	558	439	111	7	1	1,041,039
13 Jewelry.....	4	47	6	4	2	4	31	De ^a	39	Mh ^a	20	38	35	2	1	.....	48,884
14 Liquors, malt.....	4	95	4	8	13	1	69	An	81	Ja	51	74	73	1	.....	.....	716,071
15 Lumber, planing-mill products, not including planing mills connected with sawmills.....	6	137	9	6	5	3	114	No	122	Fe	101	121	120	1	.....	.....	531,644
16 Mineral and carbonated waters.....	4	21	4	.....	1	1	15	(^a)	15	(^a)	15	15	14	1	.....	.....	70,650
17 Patent and proprietary medicines.....	7	23	8	1	3	2	9	(^a)	9	(^a)	9	9	6	3	.....	.....	11,200
18 Printing and publishing, book and job.....	19	103	21	9	1	6	66	De	73	Ap	61	63	45	18	.....	.....	167,367
19 Printing and publishing, newspapers and periodicals.....	9	457	10	21	46	27	353	De	378	Ja	331	378	258	42	78	.....	846,290
20 Tobacco, cigars.....	47	1,133	49	26	21	10	1,027	De	1,088	Se	858	1,094	269	807	1	17	1,709,852
21 Umbrellas and canes.....	7	754	7	22	68	19	638	De	704	Jy	532	764	312	409	19	24	2,585,228
22 All other industries*.....	74	4,724	70	176	144	139	4,195	.....	.....	.....	.....	4,635	3,238	1,295	49	53	23,580,084
*All other industries embrace—																	
Carriage and wagon materials.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1	.....	.....	.....	.....								

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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		Rent-^{2}

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
79,019	100,259	290,006	720	67,033	1,424,136	7,383	2,212,206	780,847	78								1
10,205	2,450	19,984	2,052	19,362	91,000	2,003	185,255	91,632	57								2
520	11,538	4,741	1,106	261	28,132	472	68,478	39,874	2								3
26,648	21,904	280,885	3,696	3,534	215,965	7,463	630,881	413,403	639	80							4
71,189	173,220	352,019	12,750	12,183	7,176	304,170	11,629	1,422,587	608								5
37,518	18,641	516,733	4,607	16,772	287,048	888,800	10,261	2,121,951	92								6
840,613	538,316	6,482,220	262,962	30,738	710,140	12,508,044	383,748	28,282,035	7,748	4,525	170	200					7

Furnishing goods, men's.	1	Liquors, malt.	3	Models and patterns, not including paper patterns.	1	Signs, other than electric.	1
Gas, illuminating and heating.	2	Looking-glass and picture frames.	2	Musical instruments and materials, not elsewhere specified.	1	Silk goods.	1
Glass, cutting, staining, and ornamenting, decalcomania work.	1	Lumber, planing-mill products, not including planing mills connected with sawmills.	2	Ordinance and accessories.	1	Slaughtering and meat packing.	3
Hand stamps.	2	Marble and stone work.	3	Peanuts, grading, roasting, cleaning, and shelling.	1	Stationery goods, not elsewhere specified.	1
Ice, manufactured.	2	Mattresses and spring beds, not elsewhere specified.	2	Shirts.	1	Typewriters and parts.	1
Iron and steel, welding.	2					Wheelbarrows.	1
Jewelry.	1						

1,966,646	1,700,800	23,196,967	118,284	76,679	2,469,538	41,882,762	11,542,303	90,468,742	37,043,017	159,999	99,327	54,935	110	5,627	94,477	1
9,000	2,250	57,065	4,694	1,307	89,525	2,582	213,263	121,150	35							2
32,630	33,059	115,860	4,798	1,986	666,842	11,953	942,424	203,029	192							3
10,523	7,102	60,271	6,879	3,580	381,490	9,121	567,967	107,350	310	1						4
7,184	1,794	16,624	876	715	17,260	400	42,990	25,315	1							5
267,749	198,985	1,595,465	735	211,273	2,518,742	269,328	6,312,354	3,524,284	1,759	1,620	85	12				6
19,146	5,613	94,094	1,266	3,408	348,003	4,554	513,327	160,770	413							7
3,175	1,930	21,061	500	4,633	56,047	2,301	112,273	53,925	53							8
15,485	4,793	71,547	4,182	563	81,496	2,917	223,960	139,547	63							9
52,865	4,804	133,788	6,740	22,294	139,431	4,828	561,779	417,520	136							10
12,600	24,729	88,462	175	10,653	2,370,725	11,427	2,618,042	226,890	696	520						11
1,535,989	1,415,741	20,936,140	45,834	2,209,120	35,204,195	11,222,043	78,370,363	31,943,225	166,341	97,186	54,850	98				12

Hand stamps.	1	Mattresses and spring beds, not elsewhere specified.	2	Saddlery and harness.	2	Steam packing.	1
Ice, manufactured.	2	Models and patterns, not including paper patterns.	1	Silk goods.	1	Stoves, gas and oil.	1
Iron and steel, blast furnaces.	1	Optical goods.	1	Soap.	1	Structural ironwork, not made in steel works or rolling mills.	1
Iron and steel, steel works and rolling mills.	1	Paints.	1	Springs, steel, railway and automobile.	2	Tobacco, cigars.	1
Lime.	1	Patent and proprietary medicines.	2	Stamped and enameled ware, not elsewhere specified.	1	Wall plaster and composition flooring.	1
Liquors, malt.	4	Phonographs and graphophones.	1	Steam fittings and steam and hot-water heating apparatus.	2	Wire.	1
Looking-glass and picture frames.	1	Photo-engraving.	1				
Malt.	1						

1,312,675	969,069	8,547,340	266,959	124,757	1,914,878	25,975,980	744,427	48,025,759	21,305,352	21,154	4,524	302	29	95	16,204	172	1
8,317	2,600	65,283	2,840	209	77,523	2,022	186,413	106,868	50								2
3,450	2,062	50,247	1,783	143	25,533	1,803	95,689	65,353	44								3
10,685	1,455	45,430	1,225	98	91,965	1,856	154,993	99,842	57								4
44,429	56,853	152,376	8,050	16,630	761,954	20,995	1,229,274	440,325	212	5							5
6,749	1,300	9,624	583	107,141	1,094,091	627	159,441	51,473	30								6
84,167	62,943	402,533	11,591	121,312	1,694,091	39,090	2,971,705	1,238,584	1,715	125							7
81,800	62,228	372,489	11,101	119,476	1,516,275	30,853	2,710,053	1,193,425	1,549	125							8
2,367	715	30,044	490	1,836	177,816	8,737	261,712	75,159	2								9
1,645	27,801	93,007	708	79	42,332	406	81,300	38,563	610	40							10
174,247	107,649	977,808	2,856	1,074	3,381,818	7,074	3,050,282	261,390									11
202,971	57,030	435,159	9,358	240,094	1,799,039	57,894	4,889,042	3,032,109	1,908	125							12
10,648	3,006	24,920	1,660	14,398	592,198	20,530	1,696,722	1,083,994	502	125							13
19,975	15,590	83,847	690	706	44,765	638	106,683	81,230	18								14
15,983	7,681	107,221	11,000	355,529	272,314	35,702	848,098	540,052	679	652							15
			7,285	6,506	271,489	6,108	588,978	311,886	498	180							16
	2,200	13,509	300	1,064	26,720	582	53,148	25,846	26								17
	1,400	3,344	765	118	19,657	698	51,362	31,902	32								18
	4,536	52,393	5,822	867	60,024	2,617	193,954	131,813	87								19
28,037	69,987	287,302	2,855	2,866	303,163	10,477	860,198	546,608	372								20
51,435	44,952	752,934	21,899	435,342	1,579,671	17,887	3,369,615	1,772,057	346	125							21
148,290	207,174	531,990	575	44,863	2,916,125	13,927	4,295,397	1,860,245	421	245							22
488,274	292,670	4,436,567	38,525	672,399	11,908,468	504,205	22,513,795	10,101,122	13,548	2,902	302	2	6	10,337			23

Iron and steel, steel works and rolling mills.	1	Models and patterns, not including paper patterns.	2	Signs, other than electric.	2	Toys and games.	4
Knit goods.	1	Oilcloth and linoleum, floor.	1	Silk goods.	2	Vinegar.	1
Leather, tanned, curried, and finished.	2	Paints.	1	Slaughtering and meat packing.	1	Washing machines and clothes wringers.	1
Marble and stone work, monuments and tombstones.	2	Perfumery and cosmetics.	1	Soap.	1	Watches.	1
Mattresses and spring beds, not elsewhere specified.	2	Pottery, earthen and stone ware.	1	Structural ironwork, not made in steel works or rolling mills.	3	Window and door screens and weather strips.	1
		Saddlery and harness.	3	Tinware, not elsewhere specified.	1	Wooden goods, not elsewhere specified.	1
		Screws, machine.	1	Tobacco, smoking, and snuff.	3		
		Shirts.	1	Tools, not elsewhere specified.	2		

* Same number reported for one or more other months.
 * Same number reported throughout the year.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Pro- pri- etors and firm mem- bers.	Sala- ried offi- cers, super- in- tend- ents, and man- agers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Fe- male.	Aver- age num- ber.	Number, 15th day of—		Male.	Fe- male.	Male.		Fe- male.	
								Maximum month.							Minimum month.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

		9,064	338,911	9,492	12,697	22,022	13,595	281,105	De 300,372	Mh 265,486	303,210	210,774	80,569	2,827	3,040	Dollars. 1,532,106,714
1	PHILADELPHIA—All industries.															
2	Artificial limbs.	8	25	7	2	3	2	11	13	Ja ¹ 9	12	11				51,779
3	Artificial stone products.	5	44	5	1	1	1	36	55	Fe ¹ 18	46	46				61,360
4	Asbestos products, not including steam packing.	4	220	2	15	19	9	175	Ja 230	Se 134	208	193	14			608,323
5	Automobile bodies and parts.	55	6,480	50	146	467	136	5,690	De 7,302	Ja 4,360	7,332	7,143	169	20		18,712,623
6	Automobile repairing.	382	3,036	420	122	130	79	2,285	De 2,437	Ja 2,146	2,442	2,404	16	22		5,205,416
7	Awnings, tents, and sails.	47	246	47	20	13	5	161	Fe 199	Se 132	158	94	64			2,440,832
8	Babbitt metal and solder.	14	250	12	14	28	12	184	Fe 234	Oo 154	165	165				1,475,014
9	Bags, paper, not including bags made in paper mills.	10	62	11	2	3	1	45	De 53	Ap 35	67	35	28	3		184,613
10	Baskets, and rattan and willow ware.	15	273	16	3	26	18	210	No 237	Ja 186	233	161	69	1	2	377,733
11	Belting, leather.	12	575	11	43	72	77	372	Oo 412	Ja 311	403	368	34	1		3,685,198
12	Belting, woven, other than rubber.	4	613	2	20	70	59	462	No 529	Ja 396	511	271	222	5	13	2,670,229
13	Billiard tables and accessories.	4	30	4	3	13	5	21	Oo ¹ 23	Ja 17	23	22				116,801
14	Blacking, stains, and dressings.	10	115	10	3	13	5	79	Fe 86	De 71	85	34	50			448,226
15	Bookbinding and blank-book making.	73	1,208	74	49	22	26	1,037	De 1,113	Ja 973	1,116	515	559	17	25	1,451,958
16	Boot and shoe findings.	12	90	20	2	17	17	58	No 67	Ja ¹ 48	66	45	21			169,661
17	Boots and shoes.	41	4,815	50	185	125	132	3,823	De 4,002	Ja 3,654	4,022	2,457	1,442	54	69	13,156,379
18	Boxes, cigar.	4	67	6	2	2	2	57	Oo 64	My ¹ 54	63	21	42			69,818
19	Boxes, paper and other, not elsewhere specified.	80	3,550	75	167	80	93	3,135			3,553	1,179	2,165	30	179	6,056,409
20	Shipping containers.	6	457	2	21	18	13	403	De 482	Ja 332	482	264	215	1	2	1,200,816
21	Set-up paper boxes.	59	2,604	58	118	34	62	2,332	De 2,633	Ja 2,128	2,025	666	1,780	22	157	3,621,518
22	Cartons.	11	454	11	20	28	17	378	De 411	Ja 360	413	238	149	6	20	1,185,564
23	All other.	4	35	4	8	1	1	22	Oo ¹ 33	Ja ¹ 11	33	11	21			47,511
24	Boxes, wooden packing, except cigar boxes.	33	790	36	63	11	10	670	De 814	My 575	812	704	7	11		2,786,975
25	Brass, bronze, and copper products.	57	1,724	47	151	95	57	1,374			1,513	1,468	41	4		6,959,030
26	Brass and bronze.	51	1,621	42	143	88	56	1,202	Ja 1,478	My 1,150	1,433	1,388	41	4		6,093,212
27	All other.	6	103	5	8	7	1	82	Ja 97	Mh 75	80	80				865,818
28	Bread and other bakery products.	810	7,837	837	155	930	267	5,648			5,944	4,516	1,408	13	7	50,232,207
29	Biscuit and crackers.	7	1,613	2	40	82	51	1,438	Ja ¹ 1,507	Oo 1,303	1,400	590	807	1	2	4,274,139
30	All other.	803	6,224	835	115	848	210	4,210	De 4,492	Ja 4,009	4,544	3,926	601	12	5	45,958,068
31	Brick and tile, terra-cotta, and fire-clay products.	25	982	34	46	36	4	862			897	895	1	1		3,152,619
32	Building brick.	15	722	25	33	14		650	Au 764	Fe 457	682	681		1		2,093,232
33	Fire brick.	6	149	7	7	8	4	123	Mh 127	Jy 117	121	120	1			403,669
34	Stove lining and terra-cotta products.	4	111	2	6	14		89	De 159	Mh 45	94	94				655,718
35	Brooms.	23	220	27	4	6	2	181	No 209	Mh 150	206	195	3	1	7	293,305
36	Brushes, other than toilet.	28	313	33	29	12	4	235	De 252	My 214	248	204	37	4	3	763,636
37	Carpets and rugs, other than rag.	44	7,275	36	181	165	82	6,811	De 7,910	Fe 5,076	8,012	4,904	2,854	89	105	39,315,222
38	Carpets, rag.	18	151	25	4	4	2	116	De 143	Ja 101	143	102	41			333,655
39	Carriages and sleds, children's.	7	203	7	7	13	14	162	Mh 173	Ja 145	167	163	14			526,368
40	Carriages and wagons, including repairs.	84	812	103	39	18	6	648			671	602	2	7		1,279,346
41	Carriages and wagons.	27	549	32	32	15	5	465	Au ¹ 483	Ja 412	479	476	2	1		774,658
42	Repair work only.	57	263	71	7	3	1	181	Oo 196	Ja 163	192	186		6		504,688
43	Cars and general shop construction and repairs by steam-railroad companies.	10	6,783		125	94	36	6,528	Ja 7,142	Je 5,964	6,946	6,691	255			10,876,150
44	Cheese.	5	44	2	4	14	3	21	Oo ¹ 22	Ja 19	22	21				86,245
45	Chemicals.	19	2,331	5	86	266	141	1,833	De 2,059	Je 1,602	2,070	1,887	185	7		24,616,461
46	Cleansing and polishing preparations.	24	185	21	19	27	14	104			110	49	59	1	1	817,885
47	Cleansing preparations.	13	116	11	10	17	11	67	De 98	My 54	70	29	39	1	1	698,435
48	Metal polish.	4	27	5	1	7		14	(¹) 14	(¹) 14	14	5	9			36,587
49	All other polishing preparations.	7	42	5	8	3	3	23	Ap ¹ 20	Ja ¹ 18	20	15	11			82,863
50	Clocks.	4	10	2	4	2	2	2	(¹) 2	(¹) 2	2	2				52,330
51	Clothing, men's.	400	9,230	716	209	502	410	7,393			8,778	5,230	3,373	95	80	27,472,494
52	Regular factory products.	228	6,709	356	189	498	403	5,323			6,305	3,654	2,487	91	73	26,718,765
53	Men's and youths'.	178	5,855	279	150	447	359	4,620	De 5,300	Ja 3,869	5,393	3,327	1,910	88	68	23,024,655
54	Boys'.	17	202	20	4	23	15	131	Oo 166	Ja 86	178	68	108	1	1	1,073,922
55	All other.	33	712	48	35	28	29	572	De 609	Fe 429	734	259	469	2	4	2,620,188
56	Contract work.	232	2,461	360	20	4	7	2,070			2,473	1,576	886	4	7	753,729
57	Men's and youths'.	220	2,363	340	20	4	7	1,992	No 2,301	Ja 1,663	2,366	1,509	847	4	6	731,094
58	Boys'.	7	78	14				64	Se ¹ 77	Ja 51	77	54	22			15,710
59	All other.	5	20	6				14	Mh ¹ 19	Jy ¹ 9	30	13	17			6,925
60	Clothing, men's, buttonholes.	15	112	23				89	Oo 94	Ja ¹ 84	92	32	58			26,791
61	Clothing, women's.	537	13,785	827	388	711	448	11,416			12,336	3,573	8,710	15	38	24,830,879
62	Regular factory products.	452	13,023	689	385	704	440	10,805			11,605	3,159	8,396	15	35	24,619,313
63	Suits, skirts, and cloaks.	161	3,643	264	106	230	139	2,904	Au 3,411	Ja 2,421	3,126	1,845	1,278	2	1	7,491,529
64	Shirt waists and dresses, except house dresses.	184	6,668	291	175	329	201	5,672	Je 6,089	Ja 4,805	5,977	1,014	4,941	6	16	11,519,773
65	Undergarments and petticoats.	24	793	22	46	54	26	645	No 737	Ja 471	731	64	664	1	2	2,281,841
66	Wrappers and house dresses.	15	332	21	6	21	12	272	De 307	Ja 246	307	30	277			680,607
67	All other.	68	1,537	91	52	70	62	1,312	De 1,490	Ja 1,178	1,484	206	1,236	6	16	2,645,563
68	Contract work.	85	762	138	3	7	3	611			731	414	314			211,568
69	Suits, skirts, and cloaks.	59	531	94	2	4	1	430	Se 534	My 302	504	332	171			118,894
70	Shirt waists and dresses, except house dresses.	20	197	36	1	3	2	155	De 193	Ja ¹ 124	203	70	131			88,322
71	All other.	6	34	8				26	Fe 32	Oo ¹ 21	24	12	12			4,350

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.				Rent and taxes.		For materials.		Primary horsepower.					Electric horsepower generated in establishments reporting.				
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.								
									Steam engines (not turbines).			Steam turbines.		Internal-combustion engines.	Water power. ¹	Rent. ²	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	528,480	290,877	34,658	18,031	2,199	182,115	151,885	1
50,905,402	49,113,050	326,792,395	18,371,074	13,555,979	67,749,487	1,125,107,176	31,233,143	1,996,481,074	840,140,755								
4,958	3,065	14,887	.....	4,853	409	25,263	651	81,979	56,065	23	.....	.....	.....	.....	23	.....	2
480	2,800	53,709	.....	2,985	95	62,500	429	148,783	85,854	10	.....	.....	.....	.....	10	.....	3
65,950	74,871	354,369	.....	6,674	12,045	1,016,311	6,087	1,697,236	674,838	495	330	.....	.....	.....	165	140	4
412,204	814,275	8,090,440	6,738	149,826	700,404	14,125,392	239,732	24,931,029	10,565,905	8,302	1,325	.....	109	.....	6,868	560	5
292,771	226,241	3,159,999	103,637	378,956	35,543	3,704,515	92,573	9,067,280	5,270,172	2,127	517	.....	157	1	1,452	75	6
66,404	17,548	173,866	825	14,922	9,431	768,919	5,072	1,291,321	527,330	87	.....	.....	.....	.....	87	.....	7
49,830	48,192	258,839	.....	6,202	24,691	1,373,543	23,238	1,972,109	975,325	445	330	.....	45	.....	70	235	8
6,082	3,380	30,396	400	2,953	556	102,601	1,142	175,380	71,637	58	.....	.....	25	.....	33	.....	9
13,135	58,405	194,844	7,151	15,359	2,737	636,112	2,009	1,068,375	430,254	55	.....	.....	.....	.....	55	.....	10
197,426	175,125	429,240	111,125	44,502	59,490	3,254,403	24,726	5,130,908	1,851,777	520	400	.....	54	.....	66	143	11
113,482	236,472	409,425	.....	840	65,633	987,390	27,018	2,333,799	1,819,391	472	.....	.....	.....	.....	472	.....	12
4,380	1,616	29,106	.....	3,900	2,326	61,903	730	127,207	64,634	36	.....	.....	.....	.....	36	.....	13
18,065	34,950	55,292	8,200	5,488	4,638	545,026	4,554	854,374	304,194	56	.....	.....	.....	.....	56	.....	14
128,982	66,665	906,670	5,882	96,192	20,624	957,930	24,072	2,820,167	1,335,159	453	.....	.....	10	.....	437	15	15
3,456	22,803	72,304	75,784	7,002	397	149,781	1,627	444,055	292,647	31	.....	.....	.....	.....	31	.....	16
564,230	562,154	4,110,552	185,188	187,686	207,027	12,165,180	64,921	20,534,329	8,304,238	1,899	1,110	.....	29	.....	730	545	17
2,500	1,900	41,923	3,415	1,855	661	101,549	1,095	187,228	84,284	48	.....	.....	.....	.....	15	.....	18
496,403	210,855	2,138,400	20,073	108,766	136,809	4,095,400	80,050	9,118,301	4,980,779	1,745	695	15	72	.....	963	814	19
83,097	84,238	348,973	.....	23,499	10,193	975,731	18,114	1,903,798	909,953	391	300	.....	.....	.....	91	225	20
339,012	109,388	1,472,030	19,113	118,082	67,379	2,845,170	51,814	5,593,631	3,196,647	1,020	235	15	61	.....	719	10	21
66,015	66,588	306,318	900	23,245	59,203	701,977	17,390	1,585,527	808,160	314	160	.....	.....	.....	137	79	22
8,339	643	11,079	.....	3,940	34	15,688	1,738	35,345	18,019	20	.....	.....	.....	.....	16	.....	23
229,604	28,023	849,891	4,864	12,456	53,804	2,193,444	24,278	3,980,013	1,787,896	2,692	2,235	100	4	.....	257	153	24
437,437	178,773	1,854,488	325	23,888	228,180	8,861,417	320,972	13,352,498	4,170,109	2,803	942	.....	243	.....	1,018	210	25
412,277	170,702	1,777,807	325	10,813	215,872	8,220,695	314,440	12,351,089	3,509,954	2,651	842	.....	223	.....	1,586	187	26
25,160	8,071	77,181	.....	7,075	12,408	634,722	6,532	1,001,409	360,155	152	100	.....	20	.....	32	.....	27
630,333	2,115,223	6,351,066	5,747	230,315	854,677	32,270,478	787,251	51,782,828	18,701,799	5,017	2,666	75	150	.....	3,026	1,067	28
168,413	302,966	1,037,415	.....	5,528	235,088	4,374,090	97,635	8,372,728	3,911,003	905	494	.....	.....	.....	411	381	29
401,920	1,812,257	5,813,615	5,747	224,787	618,589	27,896,888	690,618	43,389,800	14,793,790	5,012	2,172	75	150	.....	2,015	1,286	30
152,719	46,250	1,110,859	31,607	16,014	33,648	410,459	345,405	2,072,979	1,917,115	2,844	2,478	.....	60	.....	806	195	31
101,069	20,624	860,946	22,880	10,722	25,208	215,322	304,969	1,970,966	1,450,675	2,152	1,963	.....	35	.....	154	.....	32
27,343	8,948	142,611	.....	4,092	3,841	111,774	19,961	393,185	261,450	370	240	.....	.....	.....	130	.....	33
24,307	16,678	106,902	8,787	1,200	4,499	83,363	20,475	308,828	204,900	322	275	.....	25	.....	22	195	34
7,901	5,379	157,645	1,072	8,004	314	485,294	4,425	739,408	249,689	209	100	.....	49	.....	60	.....	35
72,584	21,335	219,944	1,578	19,185	1,874	141,407	5,727	1,282,772	535,638	99	35	.....	9	.....	55	.....	36
853,392	509,674	7,235,469	60,114	93,067	885,042	24,610,445	514,831	43,111,696	17,985,820	11,668	9,605	1,075	85	.....	903	4,700	37
3,000	5,404	91,080	4,420	7,414	4,184	347,476	3,305	613,679	263,108	103	.....	.....	12	.....	85	.....	38
54,884	22,816	170,293	.....	4,410	14,609	476,805	5,687	891,510	408,027	120	80	.....	.....	.....	28	24	39
114,491	42,252	842,137	7,795	45,137	19,215	652,877	29,296	2,189,474	1,507,301	566	110	.....	77	.....	379	.....	40
101,551	87,012	607,104	5,144	32,350	15,350	466,638	20,915	1,546,005	1,068,552	404	110	.....	52	.....	242	.....	41
12,940	5,240	235,133	2,651	12,787	3,865	196,339	8,381	643,439	438,740	162	.....	.....	25	.....	137	.....	42
371,528	170,910	9,302,462	.....	58,654	55,654	5,611,853	798,981	16,457,853	10,047,009	6,638	5,638	.....	.....	.....	1,000	3,465	43
6,989	34,458	23,772	.....	2,160	5,999	393,889	9,523	590,990	187,584	922	349	.....	.....	.....	73	.....	44
541,231	595,340	2,290,010	.....	3,450	1,618,665	12,633,227	693,095	22,405,518	9,174,196	8,775	2,917	250	5	.....	5,603	752	45
72,406	39,764	72,629	692	12,271	41,732	644,816	6,226	1,140,897	490,355	288	60	.....	38	.....	190	.....	46
63,126	27,636	50,910	.....	7,240	41,171	513,870	4,588	890,728	372,800	151	60	.....	38	.....	53	.....	47
2,000	7,904	9,111	.....	2,280	25	62,812	1,090	114,682	51,660	12	.....	.....	.....	.....	12	.....	48
7,340	4,224	12,608	602	2,745	536	67,634	1,478	135,607	69,495	125	.....	.....	.....	.....	125	.....	49
4,250	928	2,584	150	1,560	311	35,543	394	30,444	3,507	27	.....	.....	27	.....	.....	.....	50
919,602	1,244,068	8,314,346	5,619,080	522,674	323,330	27,150,187	128,288	54,074,670	26,796,195	1,859	852	.....	2	.....	1,005	298	51
832,306	1,235,221	5,770,261	5,307,664	445,884	319,980	26,506,704	89,698	49,434,236	22,777,834	1,510	852	.....	.....	.....	658	298	52
695,827	1,184,906	5,215,661	5,104,224	381,655	301,398	22,697,601	76,981	44,027,924	20,953,442	1,350	852	.....	.....	.....	498	298	53
11,670	39,108	126,020	126,965	19,811	5,219	311,701	2,546	590,906	360,906	32	.....	.....	.....	.....	32	.....	54
124,809	61,117	435,180	136,475	44,418	15,368	2,787,602	10,171	4,061,510	1,233,430	128	.....	.....	.....	.....	128	.....	55
87,236	8,847	2,538,085	251,416	76,790	3,850	588,483	38,590	4,040,434	1,018,361	349	.....	.....	2	.....	347	.....	56
87,296	8,847	2,447,141	251,416</														

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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.						
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
PHILADELPHIA—Continued.																
1	Coffee and spice, roasting and grinding.	54	768	58	34	201	64	411			475	255	217	2	1	Dollars. 4,993,390
2	Coffee.	49	500	57	23	136	52	232	(S) 232	(S) 232	232	151	78	2	1	3,324,844
3	Spice.	5	268	1	11	65	12	179	De 243	Fe 101	243	104	139			1,668,540
4	Coffins, burial cases, and undertakers' goods.	11	241	13	24	25	14	165	Mh 188	De 131	132	94	38			772,681
5	Confectionery and ice cream.	243	5,463	245	147	322	240	4,509			4,896	2,352	2,402	25	57	14,316,484
6	Confectionery.	174	4,126	174	125	195	156	3,470	De 3,990	Je 2,951	3,915	1,433	2,402	23	57	8,117,764
7	Ice cream.	69	1,337	71	22	127	84	1,033	Ja 1,275	Ja 790	981	919	60	2		8,198,720
8	Cooperage.	50	586	64	17	13	10	482	Oc 513	De 406	457	454	3			1,943,405
9	Copper, tin, and sheet-iron work.	185	2,064	230	117	124	50	1,531	De 1,679	Mh 1,384	1,654	1,611	20	13	1	4,732,600
10	Cordage and twine.	10	1,700	4	31	37	12	1,616	Oc 1,782	Mh 1,352	1,781	903	847	7	24	7,051,069
11	Cork, cutting.	5	57	3	7	5	2	40	Oc 50	Fe 29	56	20	29	1		2,455,307
12	Corsets.	6	17	5			1	11	Oc 13	Jy 9	12	1	0		2	33,025
13	Cotton goods.	94	6,127	80	215	145	115	5,560	No 6,310	Fe 4,634	6,349	3,682	2,515	84	68	26,532,510
14	Cotton small wares.	29	1,099	28	58	27	27	1,559	De 1,627	Mh 1,509	1,601	384	1,100	13	44	5,117,376
15	Cutlery and edge tools.	6	228	7	12	15	8	186	De 199	Ap 157	199	193	3	3		390,293
16	Dairymen's and poultrymen's supplies.	6	93	4	6	5	1	77	Jy 90	Ja 61	73	70	3			168,154
17	Dental goods.	41	2,220	43	80	137	138	1,813	No 1,922	Ja 1,678	1,928	747	978	75	128	5,326,579
18	Druggists' preparations.	36	2,473	17	68	451	239	1,098	Ja 1,804	Je 1,551	1,743	907	802	13	21	10,625,264
19	Dyeing and finishing textiles, exclusive of that done in textile mills.	120	4,613	113	135	125	96	4,144	De 4,680	Au 3,403	4,712	3,569	1,053	47	43	17,482,622
20	Dyestuffs and extracts—natural.	7	46	4	5	12	7	18	An 20	Ap 10	18	18				177,467
21	Electrical machinery, apparatus, and supplies.	60	5,632	33	263	527	486	4,323	No 5,147	Ap 3,967	4,989	3,999	959	26	5	21,924,294
22	Electroplating.	28	210	33	13	5	5	154	No 176	Ja 143	177	171	2	4		210,221
23	Engraving and disinking.	51	161	57	4	2	5	93	De 110	Fe 83	107	93	11	3		190,100
24	Engraving, steel and copper plate, including plate printing.	42	901	43	31	73	71	683	De 765	Ja 647	765	338	366	34	27	1,532,748
25	Engraving, wood.	4	6					2	(S) 2	(S) 2	2	2				2,715
26	Fancy articles, not elsewhere specified.	31	355	34	15	13	12	281	De 337	Ja 218	345	92	243	6	4	1,123,386
27	Feathers and plumes.	6	72	7	2	3	3	57	Jy 82	Ja 39	59	9	50			53,074
28	Fertilizers.	5	1,002	1	46	107	37	811	Ja 1,135	Je 595	708	702	6			6,631,051
29	Flavoring extracts.	24	100	21	14	18	2	45	Jy 49	Ap 34	47	36	8	3		354,564
30	Flour-mill and gristmill products.	11	138	16	9	15	3	95	De 103	An 90	104	102	2			1,818,514
31	Food preparations, not elsewhere specified.	60	1,033	66	71	107	39	750			793	644	141	3	5	4,345,020
32	Macaroni, vermicelli, and noodles.	12	322	15	9	13	2	283	No 304	Jy 254	308	282	26			871,375
33	All other for human consumption.	42	616	47	53	84	36	306	Se 423	Ja 344	430	307	115	3	5	2,827,274
34	For animals and fowls.	6	95	4	9	10	1	71	My 87	Oc 54	55	55				640,380
35	Foundry and machine-shop products.	301	20,056	297	1,018	1,712	913	10,116			17,389	16,599	698	90	2	114,892,150
36	Boiler shops.	10	414	12	34	19	11	338	De 378	Au 303	355	355				1,394,940
37	Foundries.	21	1,140	17	70	30	22	1,001	Oc 1,061	Je 930	1,093	1,057	29	7		2,240,260
38	Machine shops.	343	14,872	265	824	1,337	675	11,771	De 1,939	My 11,053	12,862	12,260	543	58	1	98,160,540
39	Machine shop and foundry combined.	11	3,630	3	90	326	205	3,006	Ja 3,636	Jy 2,644	3,079	2,027	126	25	1	13,084,410
40	Fur goods.	73	513	90	16	40	74	293	De 366	My 245	367	214	147	3	3	2,754,029
41	Furnishing goods, men's.	25	773	30	31	47	26	639			760	108	646	5	1	1,431,947
42	Neckwear.	18	514	22	20	37	21	414	De 466	Ja 382	461	68	388	5		747,498
43	All other.	7	259	8	11	10	5	225	No 305	Ja 158	299	40	258		1	684,449
44	Furniture.	179	4,124	205	200	191	108	3,420			3,802	3,621	169	11	1	9,008,098
45	Wood, and rattan and willow.	138	2,919	155	132	101	59	2,472	De 2,726	Fe 2,191	2,761	2,600	153	8		6,546,888
46	Metal, and store and office fixtures.	41	1,205	50	68	90	49	948	De 1,044	Mh 883	1,041	1,021	16	3	1	2,461,210
47	Galvanizing.	5	191	1	12	6	6	166	Fe 208	Se 142	150	148	2			378,535
48	Gas and electric fixtures.	22	582	20	65	29	35	427	De 533	Ja 348	509	457	51	1		1,211,701
49	Glass, cutting, staining, and ornamenting.	38	445	38	21	43	33	310	De 350	Ja 271	349	274	65	9	1	2,337,403
50	Grease and tallow, not including lubricating greases.	9	357	4	20	30	6	297	De 312	Mh 287	313	312	1			1,736,366
51	Haircloth.	14	403	14	19	18	13	339	No 390	Ap 292	377	200	175	1	1	2,211,732
52	Hair work.	12	89	15	1	1	1	71	Jy 79	Ap 63	78	27	50			187,720
53	Hand stamps.	13	166	13	4		2	147	De 163	Au 94	163	107	50	6		299,375
54	Hardware.	24	1,010	26	37	35	68	844	Ja 888	Jy 779	835	485	205	74	71	2,418,280
55	Hats and caps, other than felt, straw, and wool.	55	740	82	32	44	18	564	De 677	Ap 478	677	484	204	5	4	1,884,135
56	Hats, fur-felt.	13	5,321	14	21	168	49	5,069	De 5,315	My 4,823	5,309	3,939	1,184	76	110	20,608,178
57	Hats, straw.	8	256	12	10	7	4	223	Mh 274	Au 137	263	65	196		2	415,136
58	Hats, wool-felt.	4	13	5				8	(S) 8	(S) 8	8	6	1	1		41,000
59	House-furnishing goods, not elsewhere specified.	27	579	28	28	44	22	457	Au 488	Mh 427	480	153	308	7	12	1,604,849
60	Ice, manufactured.	33	1,200	8	56	176	10	950	Je 1,282	De 696	979	974	5			10,107,217
61	Ink, printing.	10	302	6	17	30	19	230	Ap 234	Ja 223	234	228		6		2,808,744
62	Instruments, professional and scientific.	39	1,554	28	95	112	91	1,228	No 1,253	Ja 1,172	1,228	1,077	129	22		3,668,623
63	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	10	923	4	42	50	65	762	De 879	My 723	813	754	51	8		4,115,821
64	Iron and steel forgings, not made in steel works or rolling mills.	11	673	7	55	59	21	531	Ja 628	Ap 478	570	567	3			4,742,211
65	Iron and steel, welding.	13	72	13	6	4		49	De 56	Ja 45	55	55				118,709
66	Jewelry.	172	754	204	27	37	47	439	De 490	Fe 411	486	414	59	12	1	2,131,805
67	Jewelry and instrument cases.	6	73	4	6	2	1	60	My 65	Se 51	58	26	31	1		70,231
68	Knit goods.	239	19,475	220	682	455	343	17,775	De 19,886	Fe 14,745	19,800	4,053	14,059	357	781	52,001,583
69	Lamps and reflectors.	16	255	15	21	14	7	198	De 240	Fe 169	235	192	31	8	4	1,051,037

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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	Rent- ²	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars. 159,943	Dollars. 484,083	Dollars. 326,776	Dollars. 6,010	Dollars. 53,765	Dollars. 41,040	Dollars. 9,268,154	Dollars. 52,531	Dollars. 11,389,589	Dollars. 2,068,904	1,323	307	158	858	12	1
97,183	315,175	197,352	6,010	46,045	31,339	7,433,086	37,589	8,904,786	1,434,111	734	15	138	581	10	2
62,760	168,908	129,424	964	7,720	9,701	1,835,008	14,942	2,484,803	634,793	589	292	20	277	2	3
83,450	42,367	162,421		15,459	31,929	742,384	8,704	1,364,109	613,021	162		14	138	10	4
1,095,706	802,919	3,545,090	7,116	209,959	1,338,060	16,864,322	460,827	29,657,357	12,332,208	6,377	2,265	98	4,014	660	5
950,491	537,182	2,547,659	5,016	191,370	1,011,854	9,778,220	201,411	18,326,284	8,351,653	2,728	1,634	93	1,031	660	7
139,215	265,737	997,431	2,100	18,589	326,206	7,091,102	259,416	11,331,073	3,980,555	3,649	631	35	2,983		6
67,172	24,115	544,688	23	38,650	63,990	2,984,205	11,118	4,337,408	1,342,085	998	497	140	25	36	9
397,455	225,161	1,905,481	46,210	77,439	99,005	3,418,128	48,695	7,830,741	4,303,918	1,293	425	869	509	646	9
238,289	75,367	1,506,971	207	43,506	79,673	4,936,417	79,042	8,160,788	3,151,329	4,107	3,850	5	232	808	10
17,082	5,581	33,604	64	5,160	394	112,099	2,089	217,000	102,821	57			57		11
	1,250	6,502		2,730	981	15,636	287	30,223	20,300	5			5		12
1,083,370	514,009	6,195,844	552,787	212,770	1,878,88	19,551,450	362,244	37,801,939	17,888,245	11,851	9,528	20	75	1,710	13
315,922	67,106	994,353	49,014	41,155	145,601	3,880,357	65,209	6,220,467	2,274,901	1,692	1,161	20	511	263	14
41,766	26,157	173,278		7,710	813	119,755	19,032	521,626	382,839	462	440	22		3	15
10,714	9,100	39,662		2,680	418	129,680	4,383	274,394	140,331	79			39		16
268,059	308,558	1,421,592	3,767	60,786	218,988	2,767,941	62,092	6,180,586	3,360,553	729	430		32	287	317
292,249	1,187,465	1,480,339	2,715	270,372	19,464	3,843,997	59,886	9,968,701	6,064,908	1,805	1,176	25	106	1,086	18
1,223,177	307,430	4,504,252	463,511	226,690	683,227	11,792,999	968,232	26,548,236	13,787,006	10,433	7,552	100	30	2,761	857
23,525	28,221	21,715		5,538	631	253,026	7,254	418,301	158,021	80	50			30	20
1,105,604	1,281,599	5,162,612	2,164	78,973	4,244,543	15,090,440	294,266	33,729,133	18,335,427	7,218	2,985		132	4,101	21
24,520	8,218	190,743	250	18,736	481	91,621	12,864	474,882	370,377	311	115		70	126	22
17,000	5,057	107,199	5,007	10,289	1,635	41,403	7,085	355,138	306,650	106	15		22	69	23
107,586	194,302	588,288	12,281	35,553	21,866	710,505	12,451	2,359,829	1,636,873	287			12	271	24
		3,200		900		750	95	10,846	10,001						25
67,030	56,983	205,018	15,650	22,375	20,731	757,272	9,785	1,570,902	893,845	121				121	26
2,340	7,378	34,671		4,406	143	38,049	662	132,551	93,240	4				4	27
150,613	193,375	940,034		2,780	104,311	4,109,761	237,250	6,418,640	2,071,629	3,686	1,998	150	25	1,513	28
47,352	32,355	44,779	4,229	9,974	12,829	541,114	7,363	854,503	306,028	47	8			35	29
28,441	25,607	133,738		3,438	5,132	4,170,044	50,835	4,629,505	408,626	933	790		111	62	30
236,735	167,024	675,910	5,875	35,001	110,742	7,887,364	120,286	10,461,801	2,464,161	2,508	1,575		81	852	31
19,488	23,459	228,944	5,875	9,956	6,923	958,129	21,849	1,517,911	537,933	687	355			332	32
183,477	123,464	372,205		24,871	98,293	6,551,793	83,150	8,441,548	1,790,605	1,145	585		61	499	33
33,770	10,101	74,761		5,526	367,442	367,442	15,287	502,342	119,613	635			20	21	34
3,752,748	3,039,797	21,413,081	274,804	390,927	3,126,008	28,498,474	1,136,948	76,459,590	40,324,198	29,140	9,355	250	4,117	14,018	16,294
164,137	36,558	461,085	27,778	1,506	50,921	593,509	24,117	1,710,808	1,093,192	824			187	10	102
245,533	60,546	1,315,151		17,510	92,184	1,288,203	110,589	3,854,834	2,456,042	1,094	385		187	522	37
2,911,037	2,384,091	15,985,273	245,026	363,628	1,910,070	20,257,856	873,590	56,328,665	35,197,249	23,300	6,018	250	3,097	12,585	12,277
431,991	556,602	3,651,572	2,000	8,283	1,071,927	6,358,906	128,682	14,565,283	8,077,095	3,922	2,420		551	951	39
53,355	88,604	436,063	15,854	84,181	28,258	2,204,343	10,113	3,467,978	1,253,522	72				72	40
115,596	165,946	506,373	4,621	7,517	1,830,340	7,517	8,866	1,830,340	1,283,519	122				122	41
68,332	147,833	272,016	4,621	21,843	7,123	1,162,558	5,105	2,063,088	895,757	62				62	42
47,204	18,113	233,458		14,090	394	667,752	3,701	1,089,737	393,244	60				60	43
736,082	381,846	4,366,116	25,856	164,188	284,310	6,925,032	132,640	15,307,372	8,449,800	4,667	2,849		507	1,311	1,522
505,023	240,327	3,044,211	18,327	122,042	226,480	4,840,460	73,623	10,824,146	5,905,063	2,963	2,204		411	348	904
231,059	141,519	1,321,905	7,529	42,144	57,830	2,084,572	53,917	4,453,226	2,344,737	1,704	645		96	903	46
42,420	12,163	203,187		17,000	458	451,829	13,530	717,839	252,480					68	47
108,170	78,954	430,301	16,370	18,856	1,390	523,594	23,598	1,624,016	1,074,524	480	256		109	118	48
85,858	89,471	349,370	48,405	17,906	47,423	1,149,138	15,401	2,059,104	894,565	302	128		28	146	30
77,686	51,248	374,104	1,500	16,800	10,846	3,370,241	82,072	4,433,754	980,541	944	831		3	110	525
78,431	34,576	365,647	11,731	31,308	13,473	1,931,653	33,071	2,791,676	826,952	891	620			271	51
780	1,196	68,701	228	6,946	1,460	208,437	1,132	338,862	129,293	29	20			9	52
17,428	2,640	152,507	1,202	4,154	10,194	114,762	8,380	402,527	279,405	107	100		2	5	53
112,734	114,669	687,274	450	7,710	26,272	706,763	36,273	2,182,124	1,439,088	1,055	845		132	78	439
151,319	138,369	750,177	1,942	43,055	20,909	1,445,526	13,015	3,170,701	1,712,160	151			3	148	55
125,780	752,223	4,271,138	1,578	12,277	962,007	4,876,672	193,147	15,952,099	10,882,280	5,395	4,249	1,000	10	136	2,480
21,471	19,077	204,624		16,015	1,121	351,622	5,535	845,038	487,581	73	25			48	57
		11,027		1,790	115	23,944	742	52,714	28,024	2				2	58
101,415	120,047	332,870	1,370	27,728	35,974	1,644,826	15,285	2,548,065	887,954	535	390		16	129	37
184,205	170,944	1,080,189	23,286	23,070	201,929	504,407	803,909	4,492,570	3,184,254	18,861	16,810	50	1,760	241	2,064
49,535	66,744	288,937		13,844	18,638	1,335,829	54,620	2,290,279	899,830	856	400		76	305	60
390,799	239,330	1,312,880	3,148	77,542	93,060	1,653,927	72,551	4,887,239	3,160,761	910	475			359	229
229,873	184,048	814,737	34,640	7,191	38,110	1,663,155	79,196	3,384,921	1,642,570	2,069	1,900		27	142	6,547
221,733	136,262	844,890	140,111	9,739	65,832	1,493,331	289,775	3,569,822	1,786,716	3,057	590		35	2,432	75
32,740	6,240	72,008		7,597	801	48,650	4,854	235,919	182,415	205				80	65
90,551	97,118	601,436	42,673	63,440	16,802	1,835,270	9,856	3,476,545	1,631,419	287				271	66
12,640	6,754	39,282	2,464	6,714	109	80,065	903	179,166	98,193	21				15	67
2,640,842	1,547,532	14,529,586	884,482	592,885	2,256,852	52,185,823	379,088	85,848,934	33,284,023	10,903	6,933		165	3,815	2,452
62,956	21,068	203,873	908	27,395	10,204	405,203	10,066	929,194	513,925	211	75		10	126	40

¹ Same number reported throughout the year.² Same number reported for one or more other months.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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.							
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
PHILADELPHIA—Continued.																	
1	Lapidary work.....	4	10	4	2	2	4	(*)	4	(*)	4	4	4	4	Dollars.		
2	Lasts.....	4	103	2	7	2	90	De	102	Ja	78	101	98	8	18,936		
3	Leather goods, not elsewhere specified.....	22	650	31	27	61	28	503	Au	540	Ja	461	510	241	157,046		
4	Leather, tanned, curried, and finished.....	34	6,113	34	202	160	35	5,062	No	6,543	Ja	4,006	6,445	5,589	1,554,840		
5	Liquors, malt.....	31	1,597	14	125	136	18	1,304	Jy	1,387	De	1,201	1,239	1,237	58,930,616		
6	Lithographing.....	18	959	20	58	51	32	798	No	903	Ja	730	853	609	24,076,076		
7	Looking-glass and picture frames.....	31	144	38	5	11	85	De	99	Ja	78	93	88	4	2,223,724		
8	Lumber, planing-mill products, not including planing mills connected with sawmills.....	48	3,026	40	117	106	51	2,712	No	3,103	Ap	2,308	2,966	2,807	402,035		
9	Machine tools.....	14	1,816	11	83	150	101	1,471	Je	1,516	De	1,381	1,383	1,373	8,020,742		
10	Marble and stone work.....	73	726	93	40	32	11	550	Je	161	Ja	113	613	613	9,112,683		
11	Monuments and tombstones.....	49	219	63	11	4	2	139	Je	161	Ja	113	142	142	1,030,109		
12	All other.....	24	507	30	29	28	9	411	No	482	Ja	326	471	471	593,182		
13	Mattresses and spring beds, not elsewhere specified.....	43	613	47	38	38	16	474	No	506	Mh	422	512	393	1,345,987		
14	Millinery and lace goods, not elsewhere specified.....	100	2,520	141	55	52	59	2,213	.....	.....	.....	.....	2,415	510	1,471,074
15	Embroideries.....	34	614	42	18	6	8	540	Se	590	Ja	472	603	67	3,591,330		
16	Trimmed hats and hat frames.....	36	923	52	20	17	23	811	Mh	916	Jy	677	825	106	430,452		
17	All other.....	30	983	47	17	29	28	862	De	985	Ap	732	987	277	1,297,257		
18	Mineral and soda waters.....	72	398	77	23	9	8	281	Jy	307	Ja	264	281	273	1,863,621		
19	Minerals and earths, ground or otherwise treated.....	8	76	7	13	3	6	47	Au	52	Fe	42	48	45	1,333,100		
20	Mirrors, framed and unframed, not elsewhere specified.....	7	107	11	11	7	2	76	Jy	78	De	72	78	76	760,946		
21	Models and patterns, not including paper patterns.....	41	236	50	5	1	3	177	Au	213	Fe	155	210	207	323,682		
22	Mucilage, paste, and other adhesives, not elsewhere specified.....	12	161	5	19	18	11	108	Ja	110	Jy	99	109	74	2		
23	Musical instruments and materials, not elsewhere specified.....	12	67	13	8	5	5	41	De	49	Fe	35	49	49	1		
24	Oil, not elsewhere specified.....	24	782	12	85	101	104	480	.....	.....	.....	.....	496	493	228,078
25	Vegetable.....	4	120	4	11	6	2	97	Au	106	Fe	86	105	104	1		
26	Composite.....	13	513	7	50	71	92	293	Au	303	My	272	301	299	4,902,152		
27	All other.....	7	149	1	24	24	10	90	Jy	105	Fe	78	90	90	1,420,557		
28	Optical goods.....	38	608	44	34	37	37	456	De	479	Ja	446	491	314	2,816,234		
29	Paints.....	40	2,773	29	197	360	248	1,939	Jy	2,006	Ja	1,852	2,005	1,958	1,225,331		
30	Paper and wood pulp.....	5	1,743	1	54	55	38	1,595	No	1,651	Fe	1,515	1,039	1,542	1,232,125		
31	Paper goods, not elsewhere specified.....	10	269	7	25	26	19	192	Oc	227	Fe	149	230	172	20,368,254		
32	Patent medicines and compounds.....	98	971	87	83	113	126	562	Fe	455	Je	411	542	344	11,108,442		
33	Patent and proprietary medicines.....	58	731	53	57	81	102	438	Fe	455	Je	411	448	247	701,138		
34	Patent and proprietary compounds, not elsewhere specified.....	40	240	34	26	32	24	124	Jy	138	No	112	134	97	4,418,341		
35	Perfumery and cosmetics.....	28	373	28	26	33	106	180	No	192	Ja	163	193	52	3,738,412		
36	Photo-engraving.....	16	664	11	36	82	35	500	Oc	519	Fe	474	528	506	679,929		
37	Photographic apparatus.....	4	28	5	1	2	2	20	Jy	25	Fe	11	24	20	1,148,485		
38	Pickles, preserves, and sauces.....	25	433	27	22	43	17	324	.....	.....	.....	.....	343	198	948,609
39	Preserves.....	10	161	11	9	23	7	111	My	134	Ap	91	126	89	45,710		
40	Pickles and sauces.....	15	272	16	13	20	10	213	Se	246	Ja	199	217	109	1,552,231		
41	Plumbers' supplies, not elsewhere specified.....	14	418	9	36	48	35	290	De	369	Mh	237	369	350	749,927		
42	Pocketbooks.....	7	185	5	6	9	4	161	Fe	169	Je	155	163	45	802,334		
43	Printing and publishing, book and job.....	575	8,012	586	448	576	521	5,881	.....	.....	.....	.....	6,342	4,752	2,136,824
44	Job printing.....	521	6,481	550	367	350	269	4,955	De	5,362	Ja	4,681	5,397	4,108	241,581		
45	Book publishing and printing.....	16	1,216	14	60	157	170	815	No	844	Ja	750	832	556	21,226,313		
46	Book publishing without printing.....	29	233	13	27	69	76	48	Se	54	De	42	42	24	14,597,478		
47	Linotype work and typesetting.....	9	82	9	4	6	6	63	No	69	Jy	56	71	64	4,988,041		
48	Printing and publishing, newspapers and periodicals.....	198	11,908	115	646	2,641	2,721	5,785	.....	.....	.....	.....	5,804	4,652	1,488,083
49	Printing and publishing.....	23	7,553	9	394	981	1,930	4,239	Au	4,504	Ap	3,888	4,272	3,204	152,111		
50	Printing, publishing, and job printing.....	54	3,376	42	160	1,374	343	1,457	Oc	1,526	Ja	1,345	1,500	1,334	70,784,957		
51	Publishing without printing.....	121	979	64	92	286	448	89	Ja	102	De	78	32	24	12,502,126		
52	Refrigerators.....	7	99	8	9	4	2	76	Oc	85	Ja	67	82	82	3,500,953		
53	Regalia, and society badges and emblems.....	12	94	12	5	6	6	65	My	69	Jy	59	66	13	182,809		
54	Saddlery and harness.....	42	120	45	4	15	5	56	Ap	59	Ja	51	55	53	142,903		
55	Screws, machine.....	6	128	9	9	4	5	101	De	132	Ap	74	132	122	276,259		
56	Shirts.....	57	2,803	87	85	166	84	2,381	De	2,791	Je	2,089	2,806	710	323,520		
57	Signs and advertising novelties.....	87	323	81	21	11	16	194	.....	.....	.....	.....	209	167	7,642,233
58	Signs, electric and other.....	79	278	74	18	9	13	164	No	182	Ja	128	165	159	517,599		
59	Advertising novelties.....	8	45	7	3	2	3	30	Se	47	Ap	21	44	8	441,632		
60	Silk goods, including throwsters.....	38	3,536	39	146	115	79	3,157	.....	.....	.....	.....	3,437	932	70,367
61	Finished products.....	29	3,210	31	132	110	75	2,862	No	3,007	Mh	2,667	3,044	855	12,821,924		
62	Throwsters and winders.....	9	326	8	14	5	4	295	De	393	Mh	242	393	77	11,505,153		
63	Slaughtering and meat packing.....	39	2,173	37	46	278	70	1,742	De	1,930	Au	1,633	1,890	1,636	1,316,771		
64	Soap.....	23	939	23	41	51	58	766	Au	871	Mh	681	738	564	10,734,114		
65	Stamped ware, not elsewhere specified.....	7	184	2	19	1	7	155	No	214	Fe	119	213	201	7,870,134		
66	Stationery goods, not elsewhere specified.....	9	333	10	12	24	17	270	Au	288	De	246	246	72	569,184		
67	Statuary and art goods.....	10	110	15	7	3	2	83	My	101	Ja	72	85	84	371,236		

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).

MANUFACTURES—PENNSYLVANIA

227

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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		Rent-^{2}

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
23,966	1,560	4,420	82,776	1,536	1,202	115,190	8,637	28,330	26,673	4							1
118,721	4,901	82,776	467,228	8,604	3,360	1,250,759	5,358	297,082	173,255	142							2
1,408,865	113,756	467,228	40,447	17,772	30,360	54,052,108	402,154	2,303,841	1,047,724	142	80						3
640,558	338,120	8,250,463	40,447	45,882	3,538,017	6,722,164	458,020	89,019,381	34,565,124	10,917	0,724	400					4
140,246	239,887	1,092,515	2,310	448,430	6,722,164	1,404,759	23,398	17,718,027	14,198,507	13,391	12,722	200					5
7,760	181,288	798,869	17,473	60,418	11,270	274,217	3,191	3,062,111	1,633,954	536	310						6
465,404	17,122	99,896	436	88,336	2,203	203,085	100,894	552,663	275,255	52							7
	191,497	3,082,336	4,175	90,374	203,085	4,737,578	10,153,828	5,315,356	8,289	4,838	1,330						8
364,500	416,398	2,346,407	19,107	870,773	1,811,092	131,124	7,276,281	5,334,065	4,342	2,194							9
88,723	50,598	658,081	15,989	29,508	811,345	44,589	2,215,452	1,850,518	1,964	840							10
17,632	4,629	210,877	11,928	0,527	12,435	260,427	850,866	577,695	504								11
71,091	51,969	447,204	4,003	19,981	7,835	550,918	31,846	1,304,580	781,823	1,400	840						12
82,391	68,948	496,731	60,909	37,394	28,919	1,559,236	18,883	2,750,960	1,172,841	606	300						13
189,550	143,285	1,728,170	72,985	127,775	13,028	4,209,942	27,931	8,188,528	3,950,655	668	352						14
38,859	13,196	437,729	54,859	26,532	4,105	317,874	7,562	1,212,803	887,367	107							15
58,528	52,270	604,972	780	42,330	5,389	2,184,432	7,867	3,554,809	1,862,610	118							16
92,169	77,819	625,469	17,346	58,907	3,477	1,707,636	12,502	3,420,916	1,700,778	443	352						17
55,729	10,533	349,744	4,196	23,145	11,998	1,365,312	35,412	2,352,040	950,816	504	168	35					18
37,884	10,058	55,505	2,880	17,902	17,902	272,595	11,095	487,840	203,550	372	290						19
13,900	12,000	61,828	1,001	1,950	424,655	4,330	637,602	208,707	79	5							20
13,100	4,272	207,938	10,096	14,458	4,098	160,659	6,752	552,419	385,008	226	15						21
77,584	48,829	100,075	2,000	5,045	9,514	664,629	9,331	1,158,505	484,545	250	112						22
4,792	8,629	42,384	3,096	8,242	1,272	63,006	1,904	159,194	94,284	22							23
313,877	251,436	681,072	59,480	85,719	8,914,518	113,071	15,595,759	6,568,170	2,301	1,427							24
29,158	10,490	144,836	20,000	15,785	3,528,329	27,937	7,351,153	3,794,887	653	190							25
201,075	197,026	423,597	32,290	62,834	2,806,450	44,450	5,036,921	2,186,012	580	197							26
83,644	43,920	113,239	7,190	7,100	2,579,739	40,675	3,207,685	587,271	1,008	1,040							27
117,018	87,098	445,307	50,859	26,029	984,356	15,006	2,317,028	1,318,266	200								28
636,637	733,140	2,517,051	31,872	246,248	12,980,219	472,231	20,567,143	7,114,693	5,986	2,547	2,125						29
253,603	160,455	2,067,554	364,354	364,354	5,532,209	732,166	10,634,910	4,320,535	17,240	15,490	1,450						30
83,261	24,078	169,124	3,000	26,860	694,483	19,810	1,128,708	414,415	212	62							31
299,421	325,711	583,026	10,030	73,061	3,394,460	45,718	7,227,797	3,787,619	1,179	732							32
231,506	267,920	463,722	10,030	52,498	236,424	2,753,129	37,584	5,742,339	2,951,626	919	550						33
67,915	67,701	119,304	20,663	8,370	641,331	8,134	1,485,458	885,993	200	182							34
70,509	156,786	112,239	16,781	14,928	779,539	3,634	1,752,311	969,138	146	55							35
202,048	146,743	869,832	38,044	11,910	494,507	23,951	2,512,102	1,993,644	284								36
2,500	2,367	23,368	695	388	21,991	996	80,912	66,925	31								37
63,919	77,537	249,206	31,669	99,574	2,701,831	33,153	3,853,097	1,028,063	412	207							38
49,096	35,153	106,721	12,391	96,474	1,632,093	18,061	2,341,623	691,469	138	57							39
14,823	42,384	142,485	19,278	3,100	1,159,788	15,092	1,511,474	386,594	274	150							40
105,998	68,207	328,394	40,240	20,403	1,212,806	22,402	2,151,418	916,210	528	180							41
13,830	23,243	102,850	6,775	604	197,050	1,531	463,297	254,716	28								42
1,603,357	1,382,500	6,755,354	561,539	507,508	10,603,303	234,528	20,865,039	10,057,208	6,033	1,514							43
1,279,828	766,918	5,695,083	161,342	453,888	8,067,216	191,202	21,376,432	13,118,014	5,261	1,056							44
219,872	442,118	949,785	69,794	50,897	2,041,958	37,239	6,379,578	4,300,381	600	458							45
94,536	168,020	28,928	34,031	10,473	458,869	2,514	1,925,068	1,463,710	50								46
9,121	4,844	81,558	2,036	4,326	35,260	3,573	213,936	175,103	32								47
2,721,691	5,532,733	8,496,527	1,695,592	359,118	2,517,722	27,498,159	284,614	72,515,822	44,733,049	11,401	6,410						48
1,802,737	2,557,930	6,310,449	126,999	165,937	2,367,577	21,325,237	198,167	55,104,124	33,580,720	8,609	5,710						49
650,696	2,225,941	2,088,937	127,701	87,598	135,756	5,413,818	82,026	12,704,567	7,208,723	2,575	700						50
268,258	748,862	97,141	1,440,832	105,555	14,389	759,104	4,421	4,707,131	3,943,606	127							51
24,504	8,025	132,409	4,690	826	207,277	5,533	489,058	276,248	141	50							52
10,969	14,132	47,139	300	8,707	1,243	133,462	1,780	277,466	142,224	12							53
20,114	10,868	46,130	80	11,875	2,821	227,673	2,171	380,018	150,174	29							54
45,062	4,939	111,887	12,810	8,472	10,250	109,217	8,130	451,230	278,833	252	100						55
272,135	573,904	1,616,305	467,200	153,757	43,440	8,877,068	57,229	14,182,348	5,248,051	1,007	575	75					56
58,463	36,855	241,000	28,398	26,409	4,522	333,666	3,867	946,849	609,316	103							57
53,058	29,837	218,625	1,858	22,759	8,022	233,804	3,602	743,009	505,663	95							58
5,410	6,518	22,375	26,640	3,650	1,500	99,862	265	203,780	103,653	8							59
576,005	411,924	2,633,106	742,534	190,078	312,029	11,444,735	95,086	19,766,861	8,220,990	3,612	2,031						60
506,761	392,134	2,408,343	590,951	167,209	308,866	9,548,443	83,137	17,033,486	7,401,706	3,139	2,025						61
69,314	19,790	224,763	151,683	22,869	3,663	1,896,142	11,949	2,733,375	825,284	473	6						62
225,179	608,071	2,205,405	179,010	43,735	153,772	43,578,098	301,273	50,169,124	6,289,755	3,140	2,771	230					63
203,958	153,080	1,121,870	12,204	99,822	8,206,662	89,412	12,411,698	4,115,624	1,403	1,318	30						64
45,970	7,806	162,278	300	6,938	3,496	251,865	7,699	469,245	209,681	190	30						65
46,509	42,959	182,626	16,528	13,128	373,018	2,979	909,644	528,647	73								66
12,480	4,275	129,857	5,360	568	93,808	3,562	319,114	221,744	10								67

* Same number reported throughout the year.

* Same number reported for one or more other months.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Pro- pri- ors and firm mem- bers.	Sala- ried offi- cers, super- in- tend- ents, and man- agers.	Clerks, etc.		Wage earners.			Total.	16 and over.			Under 16.	
					Male.	Fe- male.	Aver- age num- ber.	Number, 15th day of—			Male.	Fe- male.		Male.	Fe- male.
								Maximum month.	Minimum month.						

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

PHILADELPHIA—Continued.															Dollars.		
1	Steam fittings and steam and hot-water heating apparatus.	15	1,116	9	93	163	58	793	De	882	Jy	747	877	861	12	4	4,178,388
2	Steam packing.	15	438	7	33	65	28	305	De	340	Je	265	340	269	70	1	1,632,405
3	Stereotyping and electrotyping.	9	390	2	47	38	13	290	De	311	Fe	275	310	309	1	1	552,572
4	Stoves and hot-air furnaces.	17	639	13	33	113	32	448	No	550	My	355	535	533	1	1	2,074,793
5	Stoves, gas and oil.	8	210	7	13	17	11	173	De	190	Ja	157	190	189	1	1	494,809
6	Structural ironwork, not made in steel works or rolling mills.	46	2,082	45	69	363	115	1,490	Au	1,654	Ja	1,205	1,586	1,573	13	1	8,813,990
7	Sugar, refining, not including beet sugar.	4	3,613	.....	52	259	81	3,221	Jy	3,718	Ja	2,088	3,035	2,904	131	.....	32,741,511
8	Surgical appliances.	20	545	20	36	19	34	436	De	452	Ja	421	453	253	185	4	1,015,093
9	Textile machinery and parts.	43	2,387	38	103	200	81	1,965	De	2,285	Ja	1,740	2,282	2,207	69	13	8,348,885
10	Tinware, not elsewhere specified.	16	834	22	29	73	32	678	De	775	My	576	772	625	145	2	2,934,110
11	Tobacco, chewing and smoking, and snuff.	13	353	13	14	215	2	109	No	202	Ja	59	155	51	104	.....	700,265
12	Tobacco, cigars and cigarettes.	302	6,443	297	262	236	119	5,529	De	6,607	Au	3,589	6,772	1,681	5,082	2	15,328,071
13	Tools, not elsewhere specified.	44	1,457	41	60	69	46	1,241	De	1,348	Mh	1,169	1,357	1,271	72	8	8,850,854
14	Toys and games.	22	836	23	38	19	27	729	Jy	906	Ja	471	752	384	301	47	1,740,554
15	Trunks and valises.	72	1,164	106	47	104	43	894	No	930	Ja	732	948	828	106	8	2,740,051
16	Umbrellas and canes.	11	794	15	13	21	15	730	De	793	Ja	636	797	445	280	40	4,434,672
17	Upholstering materials, not elsewhere specified.	8	461	2	25	29	15	390	Au	435	Mh	331	430	257	107	2	3,006,402
18	Varnishes.	12	167	2	30	36	12	87	De	98	Ja	71	98	93	5	.....	1,209,445
19	Vinegar.	5	44	1	9	2	1	31	No	41	Ja	25	40	38	2	.....	512,548
20	Wall paper, not made in paper mills.	4	380	1	12	22	19	326	De	362	Au	253	362	278	62	19	1,267,480
21	Wall plaster and composition flooring.	5	55	2	6	3	5	39	Jy	49	Mh	34	40	40	.....	.....	150,225
22	Wirework, not elsewhere specified.	90	197	21	9	8	11	148	Ja	167	So	134	174	113	55	4	489,340
23	Wood, turned and carved.	23	84	24	5	2	1	52	Ja	62	Je	44	55	55	.....	.....	157,327
24	Wooden goods, not elsewhere specified.	8	62	10	1	2	.....	49	De	70	Mh	41	47	47	.....	.....	181,573
25	Woolen goods.	68	5,242	58	176	71	43	4,894	De	5,895	Mh	2,930	5,934	3,761	2,123	28	22,102,064
26	Worsted goods.	71	12,083	44	289	278	140	11,335	De	12,620	Fe	9,254	12,606	4,719	7,261	318	58,578,166
27	All other industries *.	521	64,596	440	1,909	4,119	2,016	53,052	.....	.....	.....	.....	55,154	48,435	6,021	420	423,128,946

*All other industries embrace—															
Agricultural implements.	2														
Aluminum manufactures.	1														
Ammunition.	2														
Artificial flowers.	11														
Artists' materials.	4														
Automobiles.	8														
Bags, other than paper, not including bags made in textile mills.	11														
Baking powders.	4														
Bluing.	5														
Bone and lamp black.	2														
Boot and shoe cut stock.	4														
Butter.	2														
Buttons.	22														
Canning and preserving, fish.	2														
Card cutting and designing.	16														
Cardboard, not made in paper mills.	5														
Carriage and wagon materials.	1														
Cars and general shop construction and repairs by electric-railroad companies.	4														
Cars, electric-railroad, not including operations of railroad companies.	1														
Cash registers and calculating machines.	4														
Chewing gum.	4														
Chocolate and cocoa products.	4														
Cloth, sponging and refinishing.	5														
Clothing, horse.	5														
Coal-tar products.	6														
Combs and hairpins, not made from metal or rubber.	1														
Condensed milk.	1														
Cordials and flavoring syrups.	5														
Cotton lace.	5														
Crucibles, graphite and clay.	3														
Drug grinding.	3														
Emery and other abrasive wheels.	4														
Enameling.	3														
Engines, steam, gas, and water.	4														
Engravers' materials.	2														
Envelopes.	10														
Felt goods.	3														
Files.	5														
Firearms.	2														
Fire extinguishers, chemical.	1														
Flags and banners.	4														
Foundry supplies.	4														
Furs, dressed.	1														
Gas, illuminating and heating.	4														
Gas machines and gas and water meters.	7														
Glass.	2														
Glove goods.	6														
Labels and tags.	7														
Lead, bar, pipe, and sheet.	2														

PITTSBURGH—All industries.		1,875	102,557	1,595	3,872	9,925	3,875	83,290	Ja	88,435	My	77,161	87,273	76,162	10,194	492	425	505,583,166
2	Artificial limbs.	6	55	4	7	6	2	36	Au ^a	38	Ja ^a	34	38	38	.....	.....	.....	62,106
3	Automobile bodies and parts.	24	455	23	31	12	15	374	No	471	Ja	255	387	379	8	.....	.....	1,738,963
4	Automobile repairing.	82	861	89	36	71	44	621	Jy	662	Ja	566	634	630	2	2	.....	1,556,259
5	Awnings, tents, and sails.	13	83	17	6	4	2	54	Je	88	Ja	32	48	24	24	.....	.....	134,004
6	Bookbinding and blank-book making	14	134	16	7	.....	4	107	Oo	118	De	73	114	59	52	2	1	145,031
7	Boxes, cigar.	3	76	1	6	.....	2	67	De	79	Ja	43	79	18	55	1	5	82,628
8	Boxes, paper and other, not elsewhere specified.	8	307	6	16	5	10	270	De	294	Fe	241	306	100	189	.....	17	486,175
9	Brass, bronze, and copper products.	19	1,528	10	76	148	57	1,237	Fe	1,380	Au	1,151	1,211	1,209	2	.....	.....	7,622,656
10	Bread and other bakery products.	244	5,263	262	93	708	183	4,017	.....	.....	.....	.....	4,811	2,787	1,503	11	10	14,338,506
11	Biscuit and crackers.	4	2,385	.....	23	330	95	1,937	Ja	2,287	Ap	1,741	2,078	996	1,077	1	4	6,281,075
12	All other.	240	2,878	262	70	378	88	2,080	De	2,206	Ja	1,978	2,233	1,791	426	10	6	8,058,431
13	Brick.	13	473	8	21	6	6	432	My	509	Ja	333	403	482	11	.....	.....	1,707,641
14	Brooms, from broom corn.	10	104	20	7	2	3	72	Au	88	My ^a	68	74	67	7	.....	.....	211,629
15	Brushes.	5	93	6	11	5	4	67	Jy	73	My	63	68	49	19	.....	.....	450,175
16	Carriages and wagons, including repairs.	18	79	22	4	.....	.....	53	.....	.....	.....	.....	56	56	.....	.....	.....	227,244
17	Carriages and wagons.	5	13	5	.....	.....	.....	8	My ^a	9	Au ^a	7	8	8	.....	.....	.....	44,110
18	Repair work only.	13	66	17	4	.....	.....	45	Se	48	Ja	42	48	48	.....	.....	.....	183,134
19	Cars and general shop construction and repairs by steam-railroad companies.	9	8,702	.....	257	168	135	8,142	Ja	9,493	My	6,900	8,905	8,709	286	.....	.....	18,801,051
20	Chemicals.	5	190	.....	9	62	32	87	Au	94	De	80	79	78	1	.....	.....	1,261,796
21	Cleansing and polishing preparations.	11	125	12	7	58	24	24	Se	45	Ja	11	27	7	20	.....	.....	208,493
22	Clothing, men's.	24	901	34	30	53	14	770	.....	.....	.....	.....	831	177	648	.....	6	1,745,400
23	Regular factory products.	11	802	20	30	53	14	685	Se	742	Ja	604	743	132	605	.....	0	1,737,825
24	Contract work.	13	99	14	.....	.....	.....	85	Ap	02	Au	78	88	45	43	.....	0	7,575
25	Clothing, women's.	10	101	15	3	3	6	74	Jy	80	De	69	62	8	53	.....	1	219,140

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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	Rent- ²	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
287,561	416,691	1,063,362	.....	28,812	384,248	3,280,891	48,246	6,398,322	3,069,185	1,102	565	.....	133	.....	404	163
138,665	152,834	310,099	.....	22,046	51,085	1,165,019	17,324	2,243,961	1,060,718	526	180	.....	35	.....	311	66
160,328	46,080	465,199	552	38,236	75,434	278,946	27,169	1,559,947	1,253,832	559	.....	.....	.....	.....	559	3
114,587	191,268	598,390	.....	22,995	17,567	998,797	32,202	2,446,780	1,446,811	443	374	.....	35	.....	34	4
40,183	18,629	192,576	3,000	16,055	4,815	573,874	12,763	966,125	379,788	164	.....	.....	92	.....	72	28
336,088	513,075	2,473,238	4,958	35,217	94,039	5,869,223	81,010	10,707,890	4,757,627	2,686	405	.....	312	5	1,964	37
344,561	439,726	4,340,680	67,522	.....	1,199,618	117,893,162	1,902,906	133,796,119	14,000,051	9,762	6,095	3,667	.....	.....	11,809	7
121,826	94,272	422,788	6,336	8,533	26,870	603,890	9,689	1,450,880	837,281	205	150	.....	.....	.....	47	8
522,926	325,652	2,452,311	1,804	66,570	383,937	3,378,076	126,428	8,839,113	5,334,009	2,841	1,595	.....	233	.....	1,013	1,777
78,925	149,628	746,539	420	17,374	82,578	1,844,094	31,952	3,349,251	1,473,205	612	383	.....	114	.....	165	418
37,510	26,779	180,263	.....	11,046	24,303	608,004	3,291	945,501	334,206	100	90	.....	.....	.....	10	130
597,773	633,370	4,501,379	104,521	174,599	5,143,306	10,547,670	69,312	25,790,996	15,174,014	1,091	795	536	.....	.....	360	55
220,867	183,830	1,519,406	1,360	21,957	127,899	1,234,881	103,730	4,158,282	2,819,671	1,511	576	.....	154	15	772	13
131,635	48,024	527,120	19,025	11,839	51,267	958,283	21,670	2,141,027	1,164,674	509	300	.....	.....	.....	195	297
254,182	258,298	971,918	3,672	67,080	159,329	2,551,773	18,281	5,663,536	3,093,482	880	200	.....	31	.....	149	180
47,379	48,471	673,853	25,483	6,360	9,712	1,341,563	62,240	2,880,632	1,476,849	1,357	1,316	.....	18	.....	23	315
100,054	80,488	368,492	.....	9,150	24,848	1,629,661	42,224	2,710,235	1,044,350	1,170	780	.....	.....	.....	390	115
131,826	141,555	103,287	75	8,192	9,082	1,163,760	11,405	1,861,500	686,386	159	78	.....	55	.....	28	18
30,462	2,428	32,983	.....	3,294	21,854	364,445	6,062	621,107	250,660	25	15	.....	10	.....	90	20
56,136	64,169	298,132	.....	11,300	9,034	1,033,691	17,698	1,651,012	599,753	275	185	.....	.....	.....	22	80
19,650	10,646	51,606	.....	360	1,071	96,421	581	197,634	100,632	22	.....	.....	.....	.....	22	21
48,960	170,326	133,883	2,500	18,805	18,203	249,678	6,043	719,455	463,734	133	.....	.....	89	.....	44	22
7,453	3,375	54,132	1,200	1,298	4,852	55,953	3,321	177,417	118,143	185	82	.....	93	.....	60	23
2,250	1,720	46,361	.....	6,415	1,187	97,256	2,861	198,355	98,238	99	50	.....	.....	.....	49	24
826,638	251,083	6,082,584	336,901	140,060	666,160	20,830,696	365,546	36,265,468	15,069,226	10,792	8,077	500	55	.....	2,160	1,978
2,023,024	84,590	11,699,984	1,103,278	270,800	1,967,975	80,397,696	709,687	88,400,460	27,293,177	24,773	18,775	360	60	360	5,238	7,029
7,690,940	8,935,038	75,907,156	782,684	3,926,264	18,099,043	225,551,266	12,794,831	406,628,479	168,282,383	160,276	66,825	20,505	4,348	100	74,498	40,807

Liquors, distilled, grain alcohol.....	2	Pens, fountain and stylographic.....	1	Sausage, not made in slaughtering	7	Stencils and brands.....	9
Liquors, vinous.....	1	Pens, steel.....	1	and meat-packing establishments..	7	Suspenders, garters, and elastic woven	9
Locomotives, not made by railroad	1	Petroleum, refining.....	1	Saws.....	3	goods.....	9
companies.....	1	Phonographs and graphophones.....	1	Scales and balances.....	2	tin plate and terneplate.....	3
Lubricating greases.....	3	Photographic materials.....	9	Sewing-machine attachments.....	1	Type founding.....	1
Mats and matting, from cocoa fiber,	1	Pipes, tobacco.....	2	Sewing-machine cases.....	1	Typewriter supplies, carbon paper	5
grass and coir, etc.....	1	Plated ware.....	2	Shipbuilding, steel.....	4	and ribbon.....	2
Motorcycles, bicycles, and parts.....	2	Pottery, china, earthen, and stone	2	Shipbuilding, wooden, repair work,	6	Vault lights and ventilators.....	42
Musical instruments, organs.....	4	ware.....	2	and masts, spars, cars, and rigging	6	Waste.....	2
Musical instruments, pianos.....	3	Printing and publishing, music.....	14	Show cases.....	2	Watchcases.....	2
Musical instruments, piano materials.	3	Printing materials.....	15	Silver-smithing and silverware.....	5	Watch materials.....	1
Needles, pins, and hooks and eyes.....	6	Pumps, not including power pumps.	3	Smelting and refining, not from the	6	Window and door screens.....	5
Nets and seines.....	2	Pumps, steam.....	1	ore.....	3	Window shades and fixtures.....	23
Oilcloth and linoleum, floor.....	2	Roofing materials.....	4	Soda-water apparatus.....	3	Wire.....	1
Paving materials.....	2	Rubber tires, tubes, and rubber	4	Sporting and athletic goods.....	3	Wood preserving.....	1
Peanuts, grading, roasting, cleaning,	6	goods, not elsewhere specified.....	8	Springs, steel, car and carriage, not	5	Wool pulling.....	3
and shelling.....	6	Sales and vaults.....	2	made in steel works or rolling mills.	5	Wool scouring.....	3
Pencils, lead.....	2	Sand and emery paper and cloth.....	2	Steel barrels, drums, and tanks.....	1	Wool shoddy.....	8

14,909,773	18,589,097	109,859,218	885,077	2,044,563	17,904,061	339,497,652	27,867,845	614,726,078	247,801,681	358,956	231,790	36,031	15,655	.....	75,471	124,857	1
10,845	11,674	49,828	.....	6,635	234	26,719	647	143,679	116,813	23	.....	.....	.....	.....	23	.....	2
76,865	29,851	518,728	12,681	25,833	32,424	561,294	19,722	1,616,540	1,035,524	613	.....	.....	83	.....	530	.....	3
81,890	128,993	844,397	20,652	82,934	18,498	881,808	27,743	2,551,515	1,641,964	648	.....	.....	120	.....	511	.....	4
9,952	10,631	49,056	5,300	8,466	707	265,066	1,854	405,685	138,765	60	.....	.....	.....	.....	60	.....	5
21,544	2,932	80,026	2,700	13,991	683	44,929	2,148	241,417	194,340	95	.....	.....	.....	.....	65	.....	6
7,990	1,688	38,614	.....	4,300	104	71,927	1,535	141,984	68,522	24	.....	.....	.....	.....	24	.....	7
30,909	21,273	182,147	.....	20,394	2,925	345,442	10,447	795,935	436,746	412	.....	.....	180	.....	190	.....	8
329,876	269,453	1,620,229	151,321	30,438	451,971	5,707,370	152,238	10,500,727	4,641,119	3,672	1,875	.....	300	.....	1,497	1,358	9
323,555	1,650,160	3,914,516	7,203	161,619	387,962	15,308,106	289,926	27,637,558	12,639,556	4,470	2,899	100	356	.....	1,615	2,159	10
75,555	854,664	1,309,920	.....	29,200	145,318	4,452,963	72,136	9,179,292	4,654,193	1,800	1,674	100	.....	.....	26	1,247	11
248,000	795,496	2,604,696	7,203	132,419	242,644	10,855,143	217,790	18,458,266	7,388,808	2,670	725	.....	358	.....	1,589	912	12
50,500	11,854	452,713	.....	2,292	27,530	218,819	183,266	1,101,373	699,288	3,240	1,870	.....	8	.....	1,862	55	13
19,062	7,146	71,244	3,191	4,810	4,734	208,112	2,813	367,207	156,282	84	.....	.....	.....	.....	84	.....	14
35,988	34,851	64,669	.....	2,420	11,534	209,349	2,126	453,768	242,293	93	.....	.....	.....	.....	68	.....	15
8,715	.....	75,936	5,385	5,802	3,602	148,176	4,895	308,891	155,820	175	.....	.....	78	.....	97	.....	16
.....	.....	13,476	.....	1,020	781	13,540	924	35,425	20,961	23	.....	.....	.....	.....	23	.....	17
8,715	.....	62,460	5,385	4,782	2,871	134,636	3,971	273,466	134,859	152	.....	.....	78	.....	74	.....	18
472,178	411,321	10,321,886	.....	5,786	6,471,849	867,828	367,828	18,913,468	12,074,971	11,585	8,168	2,000	.....	.....	1,417	784	19
48,167	100,660	116,474	.....	9,097	68,215	626,047	70,334	1,303,215	606,834	960	123	.....	85	.....	752	10	20
16,525	88,250	12,582	960	8,926	1,293	99,639	2,340	226,102	154,189	43	24	.....	.....	.....	19	.....	21
67,352	142,643	572,773	8,301	53,364	7,568	2,122,609	17,966	3,340,045	1,200,073	162	.....	.....	.....	.....	162	.....	22
67,352	142,643	469,838	8,301	53,480	7,558	2,122,484	16,816	3,190,110	1,050,810	139	.....	.....	.....	.....	139	.....	23
.....	.....	102,935	.....	4,884	10	125	1,150	150,538	149,263	13	.....	.....	.....	.....	13	.....	24
4,437	6,005	50,840	380	6,467	332	206,529	1,781	353,611	145,301	16	.....	.....	.....	.....	16	.....	25

* Same number reported for one or more other months.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		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.								
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																		
PITTSBURGH—Continued.																		
1	Confectionery and ice cream.....	32	2,157	23	59	149	77	1,849	No	1,511	Ja	1,049	2,013	1,020	944	14	35	6,657,100
2	Confectionery.....	27	1,379	23	41	52	28	1,235	No	1,511	Ja	1,049	1,439	472	919	13	35	3,469,255
3	Ice cream.....	5	778	2	18	97	49	614	Jy	712	Ja	549	574	548	25	1	1	3,187,914
4	Cooperage.....	3	128	2	10	2	5	109	Ja	141	My	96	116	101	1	14	1	407,312
5	Copper, tin, and sheet-iron work.....	74	580	83	32	12	25	428	Au	480	Mh	381	418	406	10	1	1	1,335,288
6	Druggists' preparations.....	6	99	2	11	21	7	58	Ap	64	No	51	54	20	31	3	3	247,629
7	Electrical machinery, apparatus, and supplies.....	23	1,989	6	109	121	98	1,655	Oc	1,774	My	1,527	1,686	1,408	274	4	4	7,555,130
8	Electroplating.....	3	20	4	.....	1	15	Jy	17	Ja	13	10	16	.....	.....	.....	.....	17,014
9	Flavoring extracts.....	5	7	5	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,900
10	Food preparations, not elsewhere specified.....	15	292	16	9	44	14	209	.....	.....	.....	243	151	92	.....	.....	.....	1,156,984
11	Macaroni, vermicelli, and noodles.....	5	75	3	4	5	1	62	My	69	Au	52	65	44	21	.....	.....	208,064
12	All other.....	10	217	13	5	39	13	147	Fe	167	Se	131	178	107	71	.....	.....	948,020
13	Foundry and machine-shop products.....	122	8,963	58	525	752	300	7,328	De	445	My	361	7,413	7,285	126	2	2	30,872,003
14	Boiler shops.....	10	474	4	33	19	6	412	De	445	My	361	445	444	1	.....	.....	1,823,720
15	Foundries.....	12	1,547	7	72	80	16	1,372	De	1,483	Oc	1,262	1,469	1,448	21	.....	.....	6,113,823
16	Machine shops.....	87	4,938	45	303	476	226	3,888	Fe	4,004	My	3,800	4,035	3,937	96	2	2	20,480,069
17	Machine shop and foundry combined.....	13	2,004	2	117	177	52	1,656	Ja	2,006	Oc	1,400	1,464	1,456	8	.....	.....	8,455,291
18	Fur goods.....	14	145	13	8	5	20	99	Oc	130	Fe	74	119	49	65	5	5	685,839
19	Furniture.....	14	300	8	20	16	12	244	.....	.....	.....	267	262	4	1	.....	.....	895,096
20	Wood, other than rattan and willow.....	9	131	5	8	9	3	106	Je	115	Ja	95	115	111	3	1	1	511,955
21	Store and office fixtures.....	5	169	3	12	7	0	138	No	166	Ja	85	152	151	1	.....	.....	383,741
22	Gas and electric fixtures.....	8	86	6	13	2	0	59	Ja	82	My	50	77	38	35	3	1	171,144
23	Glass.....	8	1,286	1	47	24	123	1,091	No	1,264	Ja	922	1,330	1,168	140	18	14	2,669,475
24	Glass, cutting, staining, and ornamenting.....	17	149	17	9	4	5	114	.....	.....	.....	157	168	84	.....	.....	5	390,934
25	Decalcomania work.....	6	103	7	5	1	4	86	De	119	Ja	58	119	35	79	.....	5	280,252
26	All other.....	11	46	10	4	3	1	28	No	33	Fe	24	38	33	5	.....	.....	110,682
27	Grease and tallow, not including lubricating greases.....	4	763	.....	29	15	1	718	Fe	780	No	651	711	585	126	.....	.....	1,230,772
28	Hair work.....	7	11	8	.....	.....	.....	3	(4)	3	(4)	3	3	.....	3	.....	.....	7,070
29	Hand stamps.....	4	291	.....	22	54	39	176	Oc	187	Ap	165	183	153	24	6	6	663,208
30	Hats and caps, other than felt, straw, and wool.....	5	38	7	1	.....	.....	30	(4)	30	(4)	30	29	21	8	.....	.....	102,507
31	House-furnishing goods, not elsewhere specified.....	7	105	3	5	12	5	80	Oc	90	Au	67	89	46	42	.....	1	278,406
32	Ice, manufactured.....	12	574	6	24	27	21	496	Je	682	Ja	312	527	519	8	.....	.....	6,940,070
33	Instruments, professional and scientific.....	5	178	5	15	10	3	145	Ja	170	Au	115	137	122	15	.....	.....	473,805
34	Iron and steel, blast furnaces.....	4	1,594	.....	69	140	48	1,337	Ja	1,785	My	957	1,551	1,548	3	.....	.....	25,325,917
35	Iron and steel, steel works and rolling mills.....	25	30,009	.....	585	3,720	1,043	24,661	Ja	27,848	Je	22,081	25,138	24,929	193	12	4	177,260,821
36	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	7	1,488	3	84	74	25	1,352	Ja	1,547	Oc	1,194	1,380	1,154	197	24	5	4,664,035
37	Iron and steel forgings, not made in steel works or rolling mills.....	6	1,073	2	61	121	46	843	Ja	938	Je	760	915	914	.....	1	.....	3,361,664
38	Iron and steel, welding.....	6	18	2	3	.....	1	12	Ja	14	Jy	10	11	11	.....	.....	.....	33,457
39	Jewelry.....	17	172	21	10	9	21	111	Au	121	Ja	100	114	93	17	3	1	917,959
40	Liquors, malt.....	8	773	.....	32	78	2	661	Je	771	Fe	615	608	607	1	.....	.....	27,177,490
41	Looking-glass and picture frames.....	7	33	9	.....	2	4	18	Ap	19	Ja	16	19	17	2	.....	.....	83,080
42	Lumber, planing-mill products, not including planing mills connected with sawmills.....	35	495	30	49	36	15	365	No	421	Fe	297	415	400	15	.....	.....	2,297,880
43	Marble and stone work.....	23	193	32	10	3	3	145	De	161	Ja	108	165	163	2	.....	.....	527,303
44	Mattresses and spring beds, not elsewhere specified.....	8	333	7	13	11	8	294	Se	316	De	257	264	203	57	4	.....	1,199,720
45	Millinery and lace goods, not elsewhere specified.....	5	191	6	.....	10	2	173	No	186	Jy	102	182	2	179	.....	1	54,135
46	Mineral and soda waters.....	27	164	28	8	17	5	106	Ja	148	Jy	76	96	94	2	.....	.....	511,473
47	Models and patterns, not including paper patterns.....	19	150	19	10	2	.....	119	De	139	Ap	105	135	131	.....	4	.....	269,119
48	Mucilage, paste, and other adhesives, not elsewhere specified.....	3	7	4	.....	.....	.....	3	Mh	4	Oc	1	5	4	1	.....	.....	8,441
49	Oil, mineral and composite.....	3	20	1	5	4	3	7	Oc	8	De	6	7	7	.....	.....	.....	386,761
50	Optical goods.....	7	215	3	19	20	19	154	De	162	Ja	149	163	125	21	17	.....	456,593
51	Paints.....	10	320	3	26	67	25	199	Jy	235	Ja	170	200	167	31	2	.....	2,371,294
52	Patent medicines and compounds.....	29	139	21	19	12	8	79	.....	.....	.....	81	40	41	.....	.....	.....	608,849
53	Patent and proprietary medicines.....	16	105	14	12	9	4	66	De	69	Ja	59	70	29	41	.....	.....	495,030
54	Patent and proprietary compounds, not elsewhere specified.....	13	34	7	3	4	.....	13	Ja	14	Oc	12	11	11	.....	.....	.....	110,313
55	Perfumery and cosmetics.....	5	29	2	8	4	6	14	(4)	14	(4)	14	15	5	9	.....	1	41,780
56	Petroleum, refining.....	3	683	.....	11	89	25	558	Je	662	De	495	482	477	5	.....	.....	4,794,135
57	Photo-engraving.....	5	94	4	7	11	3	69	De	77	Ja	58	77	75	.....	2	.....	131,586
58	Pickles, preserves, and sauces.....	10	2,803	7	189	529	305	1,773	Au	2,109	My	1,555	1,651	780	598	91	182	14,866,729
59	Plumbers' supplies, not elsewhere specified.....	3	543	.....	12	45	19	467	De	1,026	Ap	89	1,026	1,018	8	5	.....	2,626,020
60	Printing and publishing, book and job.....	178	2,069	209	129	128	110	1,493	.....	.....	.....	1,606	1,044	468	85	9	9	5,363,895
61	Job printing.....	164	1,955	197	117	94	92	1,455	De	1,577	Ja	1,370	1,562	1,005	464	84	9	5,186,183
62	Book publishing and printing.....	8	71	6	10	34	17	4	Au	5	Ja	3	5	4	1	.....	.....	80,641
63	Linotype work and typesetting.....	6	43	6	2	.....	1	34	De	38	Ja	30	39	35	3	1	.....	97,071

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).

MANUFACTURES—PENNSYLVANIA.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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.					Rent- ²
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	5,766	2,638	258	2,130	742	1,469	1
311,952	386,593	1,831,341	2,319	86,329	381,017	0,738,493	177,129	11,443,255	4,527,633	5,766	2,638	258	2,130	742	1,469	1	
230,211	161,823	853,083	2,319	58,828	244,021	4,500,633	58,712	7,304,591	2,805,346	1,143	405	258	1,940	548	240	2	
81,741	224,770	978,258		27,501	136,996	2,237,960	118,417	4,078,004	1,722,287	4,623	2,231		1,940	194	1,229	3	
84,489	8,559	87,598		3,112	45,312	553,501	3,376	963,545	406,668	130			25	105		4	
66,611	39,930	580,667	2,899	33,925	35,485	1,050,278	13,702	2,301,119	1,228,139	367			09	298		5	
40,187	87,513	42,026		1,660	7,237	100,601	2,641	436,683	243,441	25				25		6	
438,598	216,366	1,743,849		27,663	375,807	4,595,121	133,266	0,726,094	4,997,707	2,863	100		427	2,336	859	7	
	320	10,421		2,910		2,536	1,588	34,094	29,070	54				54		8	
	345	480		917	2	7,406	82	15,388	7,000	2				2		9	
39,863	75,880	180,106		25,165	7,481	1,534,883	18,167	2,138,251	585,201	515	125		171	219	92	10	
13,150	7,069	55,070		2,130	5,209	292,586	6,240	422,017	123,182	224			165	59	50	11	
26,713	68,811	131,090		23,035	2,272	1,242,297	11,918	1,716,234	462,019	291	125		6	160	42	12	
2,072,468	1,623,533	10,436,501	23,417	238,046	1,915,666	17,778,330	901,279	43,169,341	24,489,723	21,405	2,864		2,702	15,779	6,055	13	
169,220	43,590	565,438	10,254	11,065	92,403	653,824	33,016	1,706,996	1,110,156	1,929	635		815	479		14	
277,000	169,132	1,771,246		41,433	175,214	2,516,602	286,509	6,191,646	3,388,535	75			90	5,073		15	
1,153,507	924,940	5,617,660	13,163	147,164	926,282	9,681,843	372,827	23,317,407	13,262,734	0,584	749		1,118	7,717	1,880	16	
472,575	485,871	2,482,151		37,484	721,767	4,028,067	208,927	11,826,292	6,728,298	4,654	1,405		739	2,510	4,175	17	
22,055	32,010	127,338	500	35,061	7,659	273,560	2,607	604,033	417,866	31			4	27		18	
63,405	39,305	302,887	245	17,329	11,022	835,066	10,481	1,523,849	677,402	322	35		2	285		19	
23,255	14,067	117,998		15,803	4,421	622,751	3,484	902,416	270,181	111			2	109		20	
40,240	24,698	184,889	245	1,466	6,601	213,215	6,997	621,433	401,221	211	35			176		21	
26,181	6,050	43,448	323	6,173	1,097	173,371	2,610	340,157	164,170	69			25	44		22	
106,209	68,635	1,101,942	1,992	5,100	35,579	961,827	304,219	2,716,601	1,450,555	1,894	125		525	1,244		23	
17,203	13,576	92,618	1,578	9,750	1,737	158,060	8,418	433,815	267,337	92			15	77		24	
10,375	6,806	63,213		4,764	1,334	100,212	6,201	286,831	180,418	56				56		25	
6,828	6,770	29,405	1,578	4,986	403	57,848	2,217	145,984	86,919	36			15	21		26	
45,614	18,495	720,619		11,519	40,029	078,101	104,163	1,705,532	924,318	1,359	665			604		27	
		1,024	500	5,580	10	6,225	137	26,639	20,277							28	
91,402	140,028	187,693		8,570	102,001	244,811	6,784	849,950	598,355	286	225			61	218	29	
3,844		38,594		3,482	20	129,477	11,907	228,098	89,714	6				6		30	
13,677	19,586	89,700		9,933	24,840	354,318	204	559,099	205,177	5				5		31	
73,241	58,469	658,336		8,780	57,101	438,561	340,916	2,055,342	1,275,865	6,128	4,129	210	125	1,664	346	32	
50,864	9,681	189,040		6,160	13,203	194,777	3,036	463,077	403,077	83				83		33	
336,713	330,583	2,796,147		12,198	289,602	14,715,358	6,412,830	31,376,111	10,247,923	60,549	45,516	15,033		13,469	6,048	34	
3,072,115	5,311,780	40,768,044		32,695	3,763,067	124,157,028	10,285,900	203,051,815	68,608,889	154,064	127,461	11,909	1,225		74,497	35	
165,014	173,207	1,383,671		1,201	470,068	3,721,074	193,705	7,730,280	3,814,001	4,252	10		850	3,392	12	36	
265,978	242,903	1,200,343		3,882	240,240	2,409,418	195,538	4,528,471	1,923,615	2,115	100	417	35	1,563	30	37	
5,300	900	22,490		3,038	555	13,275	4,418	63,374	45,681	172			8	164		38	
34,886	144,231	144,231	14,221	20,681	13,236	344,298	3,401	847,795	500,096	154			80	74		39	
168,637	162,858	915,857		2,185,580	1,496,381	114,049	7,878,667	6,267,337	6,267,337	6,665	6,605			60	2,229	40	
	5,689	22,634		5,700	214	112,119	1,161	177,575	64,295	7				7		41	
167,887	64,516	535,795	17,346	46,557	134,816	1,236,857	42,346	2,891,811	1,612,608	2,675	270		330	2,075	218	42	
34,739	6,050	220,140	6,007	4,314	5,520	246,988	9,103	651,539	395,448	666	35		359	272	2	43	
58,185	35,767	269,527		18,926	00,011	1,032,876	13,313	1,043,530	597,341	555	75	125	00	295	290	44	
	11,675	108,486		9,201	2,297	225,895	963	442,620	215,772	7				7		45	
26,122	27,159	125,630	35	9,920	67,828	374,998	10,321	882,255	496,936	176			14	162		46	
25,487	2,790	148,548		10,469	2,103	80,597	5,656	357,718	271,465	330			79	254		47	
		3,005			944	10	5,375	266	14,420	17	14			3		48	
20,700	5,513	7,133		630	24,084	232,863	2,287	317,129	81,979	44			14	30		49	
52,637	35,222	110,327		19,163	14,928	317,981	8,580	607,546	340,975	105				105		50	
150,547	138,554	231,353	1,896	12,670	160,092	2,578,540	21,558	4,034,272	1,434,174	1,079	450		120	505	259	51	
85,730	24,185	66,415	1,020	14,315	172,522	464,774	3,695	1,263,753	785,289	48				48		52	
68,498	16,927	54,535	298	8,954	171,926	395,058	8,027	1,108,735	710,650	32				32		53	
17,232	7,258	11,880	722	5,361	596	69,716	668	145,023	74,639	16				16		54	
4,150	8,513	8,538		3,205	208	42,217	145	93,630	51,268	4				4		55	
68,458	171,204	775,004	19,379	510,034	8,981,294	237,392	11,328,596	2,109,010	2,109,010	487	485			2	145	56	
61,311	15,455	118,844	5,917	12,121	1,454	75,327	3,891	349,970	270,752	38				38		57	
602,996	1,270,339	438,542		7,719	580,241	10,498,368	145,702	20,201,265	9,557,197	2,428	1,779		401	2,438	2,442	58	
65,204	61,711	625,681		4,768	77,881	886,467	95,311	1,886,411	936,633	2,569	1,133			1,436		59	
363,712	300,009	1,585,280	101,627	183,172	45,423	2,295,146	57,890	6,480,234	4,136,198	1,628	115		213	1,300	141	60	
306,883	204,159	1,532,538	45,827	167,208	44,673	2,275,276	56,864	6,099,105	3,766,965	1,613	115		213	1,285	141	61	
53,584	95,070	5,622	51,531	4,352	72	13,969	187	260,421	246,265	2				2		62	
3,245	780	47,120	4,269	11,612	673	5,901	839	129,708	122,968	13				13		63	

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY	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.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

PITTSBURGH—Continued.															<i>Dollars.</i>
1	Printing and publishing, newspapers and periodicals.	86	2,628	44	175	734	221	1,454	.....	1,476	1,355	91	20	1	10,959,747
2	Printing and publishing.	14	2,023	1	98	646	153	1,125	De 1,143 Ap 1,108	1,143	1,115	10	18	.....	9,578,576
3	Printing, publishing, and job printing.	23	392	9	32	17	16	318	Jy 358 Ja ² 297	322	232	78	11	1	1,057,009
4	Publishing without printing.	49	213	34	45	71	52	11	(*) 11 (*) 11	11	8	3	.....	.....	324,182
5	Shirts.	6	103	8	7	10	3	75	Oc ³ 82 Ja 65	82	6	76	.....	.....	217,357
6	Signs and advertising novelties.	9	71	6	6	4	3	52	.....	59	58	1	.....	.....	132,101
7	Signs, other than electric.	6	48	5	4	1	1	37	Jy ³ 45 Fe 26	39	38	1	.....	.....	86,459
8	Electric signs and advertising novelties.	3	23	1	2	3	2	15	Oc 22 De 11	20	20	.....	.....	.....	45,642
9	Slaughtering and meat packing.	21	1,607	15	55	213	52	1,272	Oc 1,393 No 1,055	1,391	1,329	58	4	.....	6,911,290
10	Soap.	6	390	7	21	31	23	308	No 382 Ja 214	306	233	70	2	1	2,763,787
11	Springs, steel, car and carriage, not made in steel works or rolling mills.	5	556	.....	30	62	4	460	Je 498 Oc 403	460	457	3	.....	.....	5,618,848
12	Steam fittings and steam and hot-water heating apparatus.	7	682	1	31	157	69	424	De 482 Ja 334	509	504	.....	5	.....	3,067,018
13	Steam packing.	4	38	4	6	3	2	23	De 33 My 19	33	28	5	.....	.....	284,150
14	Stoves, gas and oil.	14	168	12	18	8	16	114	Se 138 Fe 89	122	111	11	.....	.....	808,130
15	Structural ironwork, not made in steel works or rolling mills.	21	800	17	39	112	17	675	Ja 724 My 617	696	694	1	1	.....	3,034,982
16	Tinware, not elsewhere specified.	7	220	7	13	30	20	150	Ap 182 No 123	142	65	77	.....	.....	1,305,432
17	Tobacco, cigars and cigarettes.	123	1,711	120	42	16	18	1,509	De 1,603 Fe 1,401	1,606	281	1,282	1	42	3,449,764
18	Tobacco, smoking, and snuff.	4	10	0	.....	.....	.....	4	(*) 4 (*) 4	4	2	2	.....	.....	11,173
19	Tools, not elsewhere specified.	10	247	8	11	15	4	209	Se 224 My 200	208	174	31	3	.....	1,016,593
20	Trunks and valises.	9	175	9	8	15	6	137	Jy 159 Ja 111	158	128	14	5	11	438,760
21	Vinogar and cider.	5	104	1	14	26	9	54	De 70 Jy 40	70	54	16	.....	.....	382,982
22	Wirework, including wire rope and cable, not elsewhere specified.	5	21	4	1	2	.....	14	Jy 10 Se ³ 12	12	12	.....	.....	.....	121,815
23	All other industries*.	174	11,667	89	516	774	355	9,933	.....	10,232	8,363	1,694	105	70	74,909,448

* All other industries embrace—
 Artificial flowers. 2
 Artificial stone products. 2
 Automobiles. 4
 Babbitt metal. 1
 Baking powders. 3
 Baskets, and rattan and willow ware. 3
 Belting, leather. 1
 Blacking, stains, and dressings. 2
 Bluing. 1
 Boot and shoe cut stock. 1
 Cars and general shop construction and repairs by electric-railroad companies. 1

Cars, steam-railroad, not including operations of railroad companies. 1
 Cheese. 1
 Chocolate and cocoa products. 1
 Cloth, sponging and refinishing. 1
 Coal-tar products. 3
 Coffee, roasting and grinding. 11
 Coffins, burial cases, and undertakers' goods. 3
 Coke, not including gas-house coke. 3
 Cordials and flavoring sirups. 2
 Cork, cutting. 2
 Corsets. 2
 Crucibles, clay. 1

Dental goods. 2
 Dyeing and finishing textiles, exclusive of that done in textile mills. 1
 Engines, steam, gas, and water. 1
 Engraving and diesinking. 4
 Engraving, steel and copper plate, including plate printing. 10
 Ferroalloys. 1
 Foundry supplies. 1
 Galvanizing. 3
 Gas, illuminating and heating. 2
 Gas machines and gas and water meters. 3
 Gloves and mittens, leather. 2

Gold and silver, reducing and refining, not from the ore. 2
 Hardware, builders'. 1
 Ink, writing. 1
 Iron and steel, wrought pipe. 1
 Labels and tags. 1
 Lamps. 3
 Lead, bar, pipe, and sheet. 2
 Leather goods, not elsewhere specified. 2
 Leather, tanned, curried, and finished. 2
 Lithographing. 4

1	READING—All industries.	527	32,502	492	1,025	1,260	603	29,122	Do 32,225 Ap 26,613	32,400	22,762	8,113	830	695	86,341,641
2	Automobile bodies and parts.	6	702	2	18	41	11	630	De 705 Je 566	705	701	2	2	.....	1,407,567
3	Automobile repairing.	20	77	18	2	.....	3	54	Se 62 Ja ³ 46	61	61	.....	.....	.....	147,408
4	Bookbinding and blank-book making.	4	59	4	3	3	3	46	Oc ³ 48 Ja 43	53	30	17	5	1	62,076
5	Boxes, set-up paper boxes.	7	210	7	7	2	7	187	Oc 229 Mh 151	217	81	105	22	9	305,632
6	Brass and bronze products.	6	146	1	16	2	1	126	De 146 Ap 106	146	144	1	1	.....	285,685
7	Bread and other bakery products.	47	523	52	14	65	15	377	Jy 391 Ja 364	383	308	62	11	2	1,292,720
8	Brooms, from broom corn.	5	10	6	.....	.....	.....	4	(*) 4 (*) 4	5	5	.....	.....	.....	13,927
9	Clothing, women's.	3	44	3	2	.....	2	37	Au 45 No 28	30	3	26	.....	1	76,210
10	Coffee, roasting and grinding.	4	16	5	.....	.....	.....	6	(*) 6 (*) 6	6	6	.....	.....	.....	22,298
11	Confectionery and ice cream.	28	1,001	36	25	45	16	879	.....	1,006	494	400	79	33	2,121,400
12	Confectionery.	18	939	20	24	41	14	840	Se 1,038 My 706	949	442	395	79	33	1,883,467
13	Ice cream.	12	62	16	1	4	2	39	Se 66 Ja 15	57	52	5	.....	.....	257,933
14	Copper, tin, and sheet-iron work.	11	48	14	.....	.....	.....	34	My ³ 36 Ja 29	32	32	.....	.....	.....	77,861
15	Dyeing and finishing textiles, exclusive of that done in textile mills.	6	219	6	18	7	6	182	De 212 My 154	212	161	37	11	3	520,612
16	Foundry and machine-shop products.	30	1,738	21	79	88	47	1,503	.....	1,638	1,602	.....	36	.....	5,722,692
17	Boiler shops and foundries.	9	986	6	45	47	34	864	De 945 Je 745	945	943	.....	2	.....	3,814,155
18	Machine shops, including machine shops and foundries combined.	21	752	15	34	41	13	649	No 697 Ap 589	693	659	.....	34	.....	1,908,537
19	Gas and electric fixtures.	5	35	4	4	4	.....	23	Oc ³ 27 Ja 20	29	29	.....	.....	.....	95,587
20	Hardware.	5	1,400	3	21	63	28	1,285	No 1,396 Fe ³ 1,166	1,391	1,171	126	84	10	3,930,834
21	Jewelry.	3	23	3	4	.....	2	14	(*) 14 (*) 14	14	12	2	.....	.....	75,860
22	Knit goods.	50	7,228	54	197	77	82	6,818	Oc 7,388 Mh 6,104	7,372	1,828	4,707	304	535	17,283,692
23	Liquors, malt.	4	143	1	13	18	.....	111	Jy 119 Ja 104	109	109	.....	.....	.....	1,978,804
24	Lumber, planing-mill products, not including planing mills connected with sawmills.	4	109	2	9	4	3	91	De 100 Ja ³ 76	101	99	2	.....	.....	374,329
25	Marble and stone work.	8	97	8	14	3	2	70	Jy 75 Ja ³ 65	71	71	.....	.....	.....	157,325
26	Mineral and carbonated waters.	6	23	7	1	.....	.....	15	Ja ³ 18 Jy 12	17	17	.....	.....	.....	103,917
27	Models and patterns, not including paper patterns.	6	64	6	1	1	2	54	De 62 Fe 50	62	56	.....	6	.....	60,863

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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	Rent- ed. ²	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
618,496	1,119,611	1,983,934	390,644	124,208	264,393	4,824,967	81,585	13,631,162	8,724,610	2,766			488	2,278	402	1
465,353	930,427	1,601,547	33,140	86,335	254,366	4,396,999	66,728	11,574,060	7,110,333	2,258			445	1,813	387	2
63,049	47,143	371,511	17,239	18,782	8,384	399,985	14,785	1,149,009	734,239	506			43	463	15	3
90,094	142,041	10,876	340,265	19,091	1,643	27,933	72	908,093	880,038	2						4
5,340	29,305	57,969	1,000	6,433	1,270	261,089	814	408,586	146,683	129			120		63	5
15,207	6,917	76,592	7,000	4,754	480	140,643	687	307,107	165,777	24						6
10,857	1,228	47,503	7,000	2,853	192	94,611	510	193,919	98,798	10						7
4,350	5,689	29,089		1,901	288	46,032	177	113,188	66,979	14						8
249,663	398,796	1,504,195		111,355	262,270	25,453,316	182,065	29,889,143	4,253,732	4,873	3,772		171	930	1,624	9
66,500	78,178	374,438		4,500	23,434	1,197,912	77,845	2,413,401	1,137,734	640	18		50	572		10
184,322	128,184	621,400		14,048	362,818	2,232,832	140,515	4,664,410	2,291,063	1,061	458		105	498	63	11
199,009	289,035	547,962		27,454	456,435	2,570,555	25,305	5,154,675	2,553,815	1,004	75		25	904		12
36,455	5,002	25,905		1,930	3,453	104,182	2,302	207,906	101,422	308	100		200	8		13
42,033	42,138	130,488		13,658	13,748	485,539	5,502	890,203	399,162	187			90	97	51	14
164,885	236,834	1,019,131	19,769	16,481	69,911	2,048,736	89,427	4,158,701	2,020,538	2,553	255		1,035	1,203	873	15
41,547	77,893	128,825	400	4,937	16,754	858,840	3,689	1,225,428	362,899	234			40	194		16
111,067	38,571	947,014	2,212	28,978	611,631	1,691,103	17,300	3,845,484	2,137,081	200			35	165		17
		2,320		335	7,662	13,786	119	25,872	11,907	6				6		18
62,819	38,590	203,090		7,750	43,968	277,027	33,535	927,353	616,791	696	20		144	432		19
28,066	27,246	132,342		14,159	1,450	300,308	4,830	604,382	299,244	90				96		20
32,196	27,780	63,220		6,504	6,166	477,307	2,632	708,859	228,920	92	75		10	17	15	21
2,080	1,820	16,465		4,000	1,224	79,637	864	123,788	43,287	25				15		22
2,039,877	1,850,072	11,863,767	44,757	209,598	2,846,480	49,561,251	5,621,561	83,951,018	28,763,206	35,565	17,918	5,979	2,005	9,663	21,964	23

Locomotives, not made by railroad companies.	2	Photographic materials.	1	Shipbuilding, steel, new vessels.	1	Toys and games.	4
Lubricating greases.	3	Plated ware.	1	Shipbuilding, wooden, new vessels.	2	Type founding.	1
Machine tools.	1	Printing materials.	2	Smelting and refining, not from the ore.	2	Varnishes.	2
Minerals and earths, ground or otherwise treated.	2	Pumps, steam.	2	Soda-water apparatus.	1	Washing machines and clothes wringers.	1
Mirrors, framed and unframed, not elsewhere specified.	3	Refrigerators.	2	Stamped ware, not elsewhere specified.	2	Watch materials.	1
Musical instruments and materials, not elsewhere specified.	2	Regalia, and society badges and emblems.	2	Statuary and art goods.	2	Window and door screens and weather strips.	2
Paper goods, not elsewhere specified.	2	Roofing materials.	2	Stencils and brands.	1	Window shades and fixtures.	1
Paving materials.	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.	2	Stereotyping and electrotyping.	2	Wood, turned and carved.	2
Peanuts, grading, roasting, cleaning, and shelling.	1	Saddlery and harness.	1	Stoves and hot-air furnaces.	4	Wooden goods, not elsewhere specified.	2
		Sausage, not made in slaughtering and meat-packing establishments.	1	Surgical appliances.	1	Wool pulling.	1
		Saws.	2	Suspenders, garters, and elastic woven goods.	1	Worsted goods.	1

3,201,829	2,326,345	29,623,935	253,793	278,936	4,582,734	78,700,285	3,993,543	141,560,831	58,867,003	57,559	33,186	1,876	571	128	21,798	16,500	1
82,383	70,691	696,099		15,898	194,330	1,275,303	37,910	2,846,093	1,532,874	931	175				766	135	2
2,739	1,270	76,849		5,952	1,501	75,242	5,070	210,438	130,120	207			1		208		3
9,018	5,335	30,602		2,406	144	32,386	1,623	117,565	83,556	26					26		4
13,361	5,731	112,910	208	3,925	2,071	217,733	4,766	409,412	186,013	102	50				52	31	5
44,576	11,176	141,733		1,735	13,173	324,264	15,433	620,341	280,644	70					70		6
33,416	109,415	326,968		6,700	5,881	1,312,488	57,412	2,303,587	933,687	403	75				328	10	7
		5,698		264	81	21,199	431	37,797	15,167	8					6		8
	1,766	20,901	72	399	968	35,277	1,046	109,550	73,227	9			2		9		9
3,017	3,968	6,416		627	49	110,751	1,417	133,996	21,828	18					18		10
124,542	77,199	689,144	500	9,085	15,681	2,952,887	41,665	5,410,673	2,416,121	948	22		4		922		11
128,582	74,811	647,297	500	6,381	11,838	2,065,059	30,311	4,990,166	2,294,795	655	18				637		12
960	2,388	41,847		2,704	3,843	287,837	11,854	420,517	121,326	293	4		4		285		13
		37,414		1,197	435	56,326	665	118,660	61,669	1					1		14
61,474	12,250	155,713		780	28,753	422,184	42,491	896,400	431,775	951	919				32	36	15
359,200	131,323	1,885,559		8,479	583,256	2,499,507	238,229	6,448,217	3,710,481	4,006	633		306		3,067	1,914	16
232,418	65,021	1,173,159		3,552	471,896	1,694,713	177,629	4,211,742	2,339,601	2,530	193				2,337	80	17
126,782	66,302	712,400		4,927	111,360	804,794	60,701	2,236,475	1,870,980	1,476	440		306		730	1,834	18
6,480	3,856	25,941		2,623	499	43,848	2,128	109,570	63,594	41					41		19
87,263	88,858	1,175,637		3,200	46,830	1,092,607	87,945	3,268,583	2,087,810	1,936	1,405		240		291	304	20
3,449	966	15,075		900	102	26,433	677	67,455	40,345	10					10		21
558,873	196,350	5,193,970	63,125	56,042	1,516,226	18,933,648	133,641	33,735,625	14,618,436	3,098	1,445				1,653	763	22
33,690	23,465	140,961		45,000	741,959	466,116	65,930	1,094,344	1,462,298	1,563	1,398				165	121	23
23,505	7,353	86,102			10,099	221,818	8,687	433,141	202,636	280	145				135		24
																	25
24,710	5,310	90,289	10,384	4,545	1,061	134,028	8,680	379,283	236,580	239	42				197		26
1,350		13,070		1,130	698	84,614	1,862	141,642	54,866	24					18		
3,000	2,704	49,305		2,082	646	51,710	4,156	151,164	95,292	80					80		27

¹ Same number reported for one or more other months.
² Same number reported throughout the year.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Propri- etors and firm tend- ers, and man- agers.	Salar- ied offi- cers, super- in- tend- ents, and man- agers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Fe- male.	Aver- age num- ber.	Number, 15th day of—		Male.	Fe- male.	Male.	Fe- male.		
								Maximum month.							Minimum month.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

READING—Continued.															Dollars.
1	Patent medicines and compounds...	8	13	8	1	1	.....	3	(8)	3	(3)	3	.....	3	30,785
2	Printing and publishing, book and job.	28	169	33	18	5	6	109	De	116	Ja	101	.....	120	306,289
3	Printing and publishing, newspapers and periodicals.	9	371	6	18	95	30	224	Jy	239	Fe	206	.....	235	725,558
4	Shirts.	7	276	12	14	26	8	216	Se	235	Fe	194	.....	223	508,033
5	Silk goods.	3	224	1	6	7	6	204	Mh	220	Ja	178	.....	199	774,131
6	Tobacco, cigars.	62	1,214	62	44	14	8	1,036	De	1,279	Se	358	.....	1,299	3,034,132
7	All other industries*	138	16,320	107	480	684	315	14,734	.....	.....	.....	.....	.....	16,661	44,775,610

* All other industries embrace—	Carriage and wagon materials.	1	Cordage and twine.	2	Food preparations, not elsewhere specified.	3
Automobiles.	Carriages and wagons, including repairs.	1	Cordials and flavoring sirups.	2	Fur goods.	1
Bags, paper, not including bags made in paper mills.	Cars and general shop construction and repairs by electric-railroad companies.	2	Cotton goods.	1	Furniture, store and office fixtures.	2
Baskets, and rattan and willow ware.	Cars and general shop construction and repairs by steam-railroad companies.	7	Cotton small wares.	2	Gas, illuminating and heating.	2
Belting, woven, other than rubber.	Cash registers and parts.	1	Cutlery, razors and scissors, shears, and clippers.	3	Glass, cutting, staining, and ornamenting.	1
Boots and shoes.	Clothing, men's and youths.	5	Druggists' preparations.	1	Hand stamps.	1
Boxes, cigar.	Coal-tar products.	1	Electroplating.	2	Hats and caps, other than felt, straw, and wool.	3
Boxes, wooden packing, except cigar boxes.	Cooperage, hogsheads and barrels.	1	Enameling.	1	Hats, fur-felt.	4
Brick and fire-clay products.			Flavoring extracts.	1	Hats, wool-felt.	4
Brushes.			Flour-mill and gristmill products.	2	Ice, manufactured.	2
Carpets, rag.						

1	SCRANTON—All industries.	311	16,305	243	616	605	374	14,467	De	15,230	Fe	13,693	15,112	8,300	6,106	330	376	42,185,466
2	Automobile repairing.	9	107	8	5	7	6	81	Je	91	Mh	67	79	76	3	.....	.....	156,219
3	Awnings, tents, and sails.	4	14	4	1	1	.....	9	Je	18	Ja	1	10	5	.....	.....	.....	9,738
4	Bread and other bakery products.	39	462	36	18	74	22	312	Jy	324	Ja	293	321	242	76	3	.....	808,171
5	Carriages and wagons, including repairs.	4	27	6	.....	.....	2	19	Ja	21	Ja	18	19	19	.....	.....	.....	128,576
6	Clothing, men's.	6	167	17	9	2	4	135	Oo	192	Fe	82	139	20	119	.....	.....	390,741
7	Clothing, women's.	11	523	10	22	15	12	404	De	519	Jy	399	520	58	458	.....	4	734,839
8	Copper, tin, and sheet-iron work.	5	50	7	1	3	2	37	Je	41	Mh	32	37	37	.....	.....	.....	86,968
9	Flour-mill and gristmill products.	4	60	2	8	8	7	35	Ja	38	Mh	34	37	37	.....	.....	.....	596,755
10	Food preparations, not elsewhere specified.	5	19	8	.....	1	.....	10	(8)	10	(8)	10	10	4	6	.....	.....	28,431
11	Foundry and machine-shop products.	11	326	6	28	35	12	245	Ja	287	Se	224	256	254	2	.....	.....	1,979,638
12	Hats and caps, other than felt, straw, and wool.	3	66	4	1	6	2	53	No	62	Ja	43	61	30	31	.....	.....	159,092
13	Lumber, planing-mill products, not including planing mills connected with sawmills.	7	219	1	15	9	2	192	Oo	225	Ja	145	149	148	1	.....	.....	856,702
14	Marble and stone work.	6	31	8	3	.....	.....	20	Je	28	Fe	7	17	17	.....	.....	.....	75,529
15	Mineral and carbonated waters.	10	75	13	7	9	5	41	Je	45	Ja	36	37	36	.....	1	.....	210,381
16	Patent medicines and compounds.	4	10	3	1	1	.....	5	Je	6	Ja	4	4	4	.....	.....	.....	43,071
17	Printing and publishing, book and job.	29	603	27	24	5	15	532	No	575	Ja	447	572	312	250	9	1	1,449,240
18	Printing and publishing, newspapers and periodicals.	11	315	5	27	85	30	168	Jy	173	Ap	161	172	165	5	2	.....	934,155
19	Silk goods, including throwsters.	32	4,369	9	91	37	35	4,197	Jy	4,591	Oc	3,466	4,324	815	3,051	195	263	7,250,082
20	Tobacco, cigars.	11	181	9	5	1	1	165	De	218	Je	151	218	22	191	.....	5	124,620
21	All other industries*	100	8,681	60	361	306	217	7,747	.....	.....	.....	.....	8,130	5,999	1,908	120	103	26,113,920

* All other industries embrace—	Cars and general shop construction and repairs by electric-railroad companies.	2	Dental goods.	1	Gas, illuminating and heating.	1
Artificial limbs.	Carriages and wagons, including repairs.	1	Electrical machinery, apparatus, and supplies.	1	Glass, cutting, staining, and ornamenting.	1
Artists' materials.	Cars and general shop construction and repairs by steam-railroad companies.	3	Electroplating.	1	Hair work.	2
Automobile bodies and parts.	Cement.	1	Emery and other abrasive wheels.	1	Hardware, builders'.	1
Blacking, stais, and dressings.	Coffee, roasting and grinding.	1	Engines, steam, gas, and water.	1	Horseshoes, not made in steel works or rolling mills.	1
Bookbinding and blank-book making.	Coffins, burial cases, and undertakers' goods.	2	Engraving and diesinking.	1	Iron and steel, steel works and rolling mills.	1
Boots and shoes.	Confectionery and ice cream.	4	Flavoring extracts.	1	Iron and steel forgings, not made in steel works or rolling mills.	1
Brass, bronze, and copper products.	Cotton lace.	1	Fur goods.	1		
Carpets, rag.			Furnishing goods, men's.	1		
			Furniture.	2		

1	WILKES-BARRE—All industries.	179	10,747	181	368	525	265	9,408	De	10,353	Oo	8,568	10,347	6,492	3,402	230	223	29,003,829
2	Artificial limbs.	3	7	3	.....	.....	.....	4	(3)	4	(2)	4	4	4	.....	.....	.....	19,875
3	Automobile repairing.	8	57	11	1	1	5	39	Jy	42	My	36	38	38	.....	.....	.....	88,236
4	Bread and other bakery products.	19	355	28	10	28	17	272	An	295	Fe	241	291	190	87	9	6	702,163
5	Dental goods.	3	14	2	.....	.....	.....	12	Se	14	Ja	11	14	8	1	5	.....	12,322
6	Flour-mill and gristmill products.	3	32	1	3	6	1	21	Se	23	Ja	19	23	23	.....	.....	.....	320,625
7	Foundry and machine-shop products.	11	123	13	10	3	2	95	No	108	Ap	66	107	106	1	.....	.....	490,759
8	Jewelry.	3	11	3	1	.....	.....	6	(3)	6	(3)	6	6	5	1	.....	.....	13,172
9	Lumber, planing-mill products, not including planing mills connected with sawmills.	6	66	7	4	4	4	47	Ja	79	Jy	38	48	42	1	.....	.....	338,219
10	Marble and stone work.	5	25	7	1	.....	.....	15	My	18	Oo	12	17	17	.....	.....	.....	56,090
11	Mineral and carbonated waters.	6	28	6	2	2	1	17	Au	19	Ja	15	18	17	.....	1	.....	66,878
12	Printing and publishing, book and job.	13	117	17	6	1	2	91	No	96	Je	85	96	68	18	10	.....	185,453

* 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).

MANUFACTURES—PENNSYLVANIA.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
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.				Rented. ²	Electric horsepower generated in establishments reporting.
									Steam engines (not turbines).	Steam turbines.	Internal combustion engines.	Water power. ¹			

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
1,144	7,631	2,783	7,512	650	1,281	7,273	128	24,211	16,810	148						1
32,050		107,644		7,205		180,403	7,230	443,696	283,063							2
59,163	152,836	206,186	47,697	12,712	19,256	302,607	13,791	1,002,376	685,978	208						3
35,332	62,813	150,184	42,000	2,792	2,156	570,733	4,453	1,076,222	501,031	46						4
13,012	11,804	141,979	61,105	6,000	51,657	980,065	10,441	1,348,130	351,033	221	75					5
85,626	33,813	928,279	3,440	7,354	290,701	1,062,703	6,213	3,413,047	1,744,131	28						6
1,498,556	1,298,457	17,110,524	17,780	69,254	1,052,910	44,579,181	3,189,406	74,300,619	26,541,032	41,867	26,794	1,876	18	128	13,051	7

Iron and steel, blast furnaces.....	1	Machine tools.....	1	Regalia, and society badges and emblems.....	1	Stoves and ranges.....	3
Iron and steel, steel works and rolling mills.....	4	Mattresses and spring beds, not elsewhere specified.....	1	Roofing materials.....	1	Structural ironwork, not made in steel works or rolling mills.....	3
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	1	Motorcycles, bicycles, and parts.....	2	Saddlery and harness.....	2	Tobacco, chewing.....	3
Iron and steel, cast-iron pipe.....	1	Optical goods.....	4	Scales and balances.....	1	Tools, machinists.....	1
Iron and steel forgings, not made in steel works or rolling mills.....	1	Paints.....	3	Signs and advertising novelties.....	4	Umbrellas and canes.....	1
Iron and steel, welding.....	1	Paper and wood pulp.....	1	Slaughtering and meat packing.....	2	Wall paper, not made in paper mills.....	1
Iron and steel, wrought pipe.....	1	Paper goods, not elsewhere specified.....	1	Smelting and refining, not from the ore.....	2	Washing machines and clothes wringers.....	2
Leather, tanned, curried, and finished.....	1	Paving materials.....	2	Soap.....	1	Wood, turned and carved.....	1
		Photo-engraving.....	1	Statuary and art goods.....	1	Woolen goods.....	1
		Plumbers' supplies, not elsewhere specified.....	1	Stencils and brands.....	1		
		Printing and publishing, music.....	1	Stereotyping and electrotyping.....	1		

1,846,487	1,280,534	11,978,311	484,401	215,288	1,873,822	27,564,951	1,380,699	54,629,522	25,683,872	29,664	12,865	901	52	15,846	8,574	1
5,300	8,372	95,831	3,500	7,848	1,648	70,993	3,703	229,522	154,820	60				60		2
889		0,715		1,350		11,330	147	20,512	14,079	4				4		3
42,406	113,812	261,452	11,971	24,605	14,652	1,278,304	35,771	2,079,154	765,079	400				400		4
	1,564	20,064		840	1,030	17,554	1,672	56,995	37,759	64				64		5
10,150	4,392	110,310	8,394	7,278	103	472,246	2,510	740,445	265,680	36				36		6
80,048	50,879	239,130	63,273	11,511	9,039	394,154	6,820	1,525,188	624,205	74				74		7
3,000	3,620	44,061		4,256	153	44,199	909	122,293	77,185	19				19		8
16,256	18,265	32,078		100	5,027	420,491	4,953	465,212	39,768	278				278		9
	2,600	6,304		1,822	54	22,000	2,258	42,810	18,552	37			12	25		10
118,091	71,410	255,918		1,890	64,977	545,740	30,724	1,315,955	739,491	832	505			327	344	11
3,770	14,245	61,413		3,561	295	234,787	1,179	389,532	153,560	11				11		12
41,895	22,500	185,450		2,797	9,020	540,461	14,272	871,461	310,728	616	205			411	282	13
10,051		21,031	614	1,500	361	39,804	2,771	77,248	34,673	217		22		195		14
12,800	8,233	35,018		4,182	21,525	140,174	3,095	338,654	195,385	86		3		83		15
1,248	144	3,604		2,048	259	20,072	100	32,189	12,017	1				1		16
65,237	16,706	476,376	3,323	19,550	10,800	837,028	11,729	1,629,514	780,757	527				527		17
63,274	124,359	176,937	12,670	3,930	6,826	493,190	9,588	1,372,060	869,282	352			10	342	7	18
257,567	83,125	2,251,242	238,779	50,517	259,274	327,003	329,330	13,133,894	5,477,555	7,970	2,505	750		4,715	1,932	19
7,516	1,750	123,770		1,840	72,633	249,362	2,369	532,635	280,804	18				18		20
1,112,918	733,703	7,571,007	141,958	64,363	1,396,246	13,005,993	916,784	29,648,849	14,826,072	18,062	9,650	151	5	8,256	6,009	21

Iron and steel, welding.....	1	Musical instruments, pianos.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	2	Structural ironwork, not made in steel works or rolling mills.....	4
Knit goods.....	2	Optical goods.....	2	Scales and balances.....	1	Textile machinery and parts.....	1
Lamps.....	1	Paints.....	1	Slaughtering and meat packing.....	1	Tobacco, chewing and smoking.....	2
Lime.....	1	Paving materials.....	1	Soap.....	1	Tools, not elsewhere specified.....	1
Liquors, malt.....	5	Photographs and graphophones.....	1	Statuary and art goods.....	2	Typewriters and parts.....	1
Lithographing.....	1	Photo-engraving.....	1	Steam fittings and steam and hot-water heating apparatus.....	1	Umbrellas and canes.....	1
Lubricating greases.....	1	Plumbers' supplies, not elsewhere specified.....	1	Stereotyping and electrotyping.....	1	Wall plaster and composition flooring.....	1
Mattresses and spring beds, not elsewhere specified.....	4	Pumps, steam.....	1	Stoves and hot-air furnaces.....	2	Wirework, not elsewhere specified.....	1
Millinery and lace goods, not elsewhere specified.....	3	Roofing materials.....	1				
		Saddlery and harness.....	1				

1,227,886	1,007,714	8,317,564	102,429	96,534	2,719,327	10,230,116	853,228	41,686,203	21,902,859	14,846	8,661	121	6,064	4,413	1
		4,750		586	188	6,201	43	19,241	12,997	6		6			2
700	2,859	41,938	638	8,314	430	47,241	2,538	132,321	82,542	51			51		3
37,421	56,071	248,122		9,445	48,929	381,407	17,831	1,563,787	654,490	329	175		154		4
		10,148		453	221	22,897	260	48,483	25,329	4			4		5
6,069	8,006	20,346		1,200	5,267	183,945	1,840	245,286	62,601	127			127		6
23,345	3,538	113,138	555	1,300	53,060	231,458	10,583	527,932	286,392	274	207	46	21	125	7
800	225	3,192		365	12	8,176	119	19,745	11,450	3			3		8
4,280	10,171	37,063		1,920	1,056	66,732	4,853	151,373	79,788	286	150		136		9
1,500	1,200	18,906	950	1,510	49	35,922	1,405	104,115	66,788	65		20	45		10
7,300	2,941	12,648		1,055	1,066	45,513	704	96,394	49,177	13			13		11
11,874	3,443	76,838	410	4,850	496	77,773	3,241	236,713	155,099	87			87		12

¹ Same number reported throughout the year.

² Same number reported for one or more other months.

MANUFACTURES—PENNSYLVANIA.

TABLE 52.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	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.						

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

WILKES-BARRE—Continued.															Dollars.			
1	Printing and publishing, newspapers and periodicals.	13	287	10	19	45	23	190	Au ³	193	Ja	185	192	176	12	4	789,272	
2	Silk goods, including throwsters.....	8	2,408	4	58	40	41	2,327	De	2,547	Oc	999	2,547	584	1,825	51	87	3,478,945
3	All other industries *.....	78	7,157	69	255	395	166	6,272	.....	.....	.....	.....	6,951	5,214	1,466	150	131	23,341,830

* All other industries embrace—																
Artificial stone products.	1															
Automobile bodies and parts.	3															
Boots and shoes, not including rubber boots and shoes.	1															
Brass and bronze products.	1															
Brick, building.	1															
Brooms, from broom corn.	1															
Butter.	1															
Carpets, rag.	1															
Carriages and wagons, including repairs	1															
Cars and general shop construction and repairs by electric-railroad companies	1															
Cars and general shop construction and repairs by steam-railroad companies.	1															
Clothing, men's.	1															
Clothing, women's, undergarments and petticoats.	1															
Coffee, roasting and grinding.	2															
Confectionery and ice cream.	9															
Copper, tin, and sheet-iron work.	2															
Cotton lace.	2															
Cotton small wares.	1															
Druggists' preparations.	2															
Electrical machinery, apparatus, and supplies.	2															
Electroplating.	1															
Engraving, steel and copper plate, including plate printing.	1															
Flavoring extracts.	1															
Food preparations, not elsewhere specified.	1															
Fur goods.	1															
Furniture, wood, other than rattan and willow.	2															
Gas, illuminating and heating.	1															
Hats and caps, other than felt, straw, and wool.	2															

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1	AMBRIDGE	22	4,317	18	108	583	194	3,414	Oc	3,795	Ap	3,055	3,561	3,338	214	4	5	23,603,978
2	BEAVER FALLS	71	3,669	68	126	173	98	3,204	Oc	3,425	My	2,978	3,378	3,138	196	40	4	14,830,768
3	BRADDOCK	49	1,455	48	82	101	54	1,170	My	1,329	Oc	838	1,255	1,239	20	2	.....	6,437,766
4	BRADFORD	83	2,009	73	116	190	91	1,539	De	1,729	Ja	1,389	1,739	1,566	167	15	1	8,665,704
5	BRISTOL	34	1,603	33	29	37	34	1,470	De	1,747	Ja	1,250	1,770	945	747	33	45	5,707,503
6	BUTLER	77	4,166	122	69	182	79	3,744	Ja	5,724	Se	2,292	3,738	3,818	384	25	11	32,803,139
7	CANONSBURG	32	3,269	35	109	113	31	2,971	Ja	3,143	Oc	2,822	2,936	2,659	273	4	.....	6,125,973
8	CARBONDALE	43	1,021	38	48	47	27	881	De	1,073	Se	705	1,059	570	405	28	56	3,439,717
9	CARLISLE	44	1,641	42	59	81	37	1,422	De	1,534	Ap	1,313	1,519	989	475	23	32	5,106,936
10	CARNEGIE	26	349	29	21	64	13	222	Au	253	Mh	193	229	207	21	1	.....	3,245,880
11	CARRICK	5	23	7	.....	.....	.....	16	Ap ^a	17	Ja	14	16	14	2	.....	.....	57,061
12	CHAMBERSBURG	56	2,299	50	83	108	62	1,996	De	2,145	Mh	1,731	2,242	1,908	284	43	7	7,478,326
13	CHARLOTTE	35	2,280	28	74	73	82	2,023	De	2,215	Jy	1,729	2,540	1,988	510	26	16	4,298,581
14	COLUMBIA	58	2,567	46	86	50	63	2,322	De	2,510	Mh	2,085	2,463	1,688	710	43	42	4,504,261
15	CONNELLSVILLE	51	1,824	36	89	41	35	1,623	Se	1,755	Jy	1,428	1,747	1,642	100	5	.....	4,558,120
16	DICKSON CITY	10	831	7	11	4	3	806	Je	916	Oc	186	903	187	585	42	89	961,444
17	DU BOIS	41	1,508	45	71	44	41	1,307	Ja	1,460	De	1,846	1,354	1,805	46	3	.....	4,860,086
18	DUNMORE	27	1,493	25	47	32	29	1,360	De	1,441	Oc	1,275	1,440	1,144	245	15	36	1,927,634
19	EASTON	102	5,486	94	173	334	213	4,672	De	5,070	Ja	4,339	5,142	3,804	1,229	59	50	20,518,371
20	GREENSBURG	66	919	75	66	82	43	653	Ja	812	Je	592	695	623	72	.....	.....	2,783,629
21	HAZLETON	74	4,287	76	167	132	97	3,815	Ja	4,949	My	3,370	4,540	1,819	2,332	120	275	14,590,166
22	HOMESTEAD	45	628	42	39	19	15	513	Jy	504	Ja	440	518	441	63	7	7	2,941,018
23	JEANNETTE	32	2,223	21	80	86	46	1,990	De	2,310	Mh	1,721	2,286	1,964	272	33	17	7,927,526
24	LEBANON	103	6,226	89	194	180	112	5,651	Fe	6,329	My	4,852	6,510	4,494	1,822	53	141	21,271,604
25	MCKEESPORT	82	12,953	87	236	598	123	11,909	Ja	12,974	Se	9,625	12,629	12,314	309	4	2	80,490,904
26	MCKEES ROCKS	34	3,592	26	153	214	85	3,114	De	3,508	My	2,744	3,524	3,238	275	6	5	17,368,203
27	MAHANAY CITY	24	507	28	10	12	7	450	Se	519	Mh	374	519	148	337	2	32	1,027,632
28	MEADVILLE	43	2,211	41	111	92	126	1,841	Ja	2,018	Je	1,684	1,956	1,602	346	4	4	7,286,054
29	MOUNT CARMEL	36	1,344	36	60	8	19	1,221	De	1,345	Fe	1,086	1,312	313	943	23	33	1,924,559
30	NANTICOKE	36	1,154	35	76	7	7	1,029	De	1,175	Mh	895	1,283	184	1,063	18	18	2,615,779
31	NEW CASTLE	87	9,166	68	227	641	216	8,014	De	8,779	Ap	7,023	8,855	8,213	611	22	9	40,943,533
32	NEW KENSINGTON	48	4,184	42	73	209	156	3,704	Au	4,145	Fe	3,347	4,275	3,786	507	2	.....	16,136,980
33	NORRISTOWN	100	4,037	79	191	140	113	3,534	De	3,798	Fe	3,308	3,845	2,279	1,459	47	60	18,759,162
34	OIL CITY	37	3,831	27	76	294	128	3,306	De	3,601	Ap	3,038	3,560	3,485	75	.....	.....	16,415,677
35	OLD FORGE	8	287	16	5	2	2	202	De	294	Fe	239	303	26	181	32	64	170,373
36	PHOENIXVILLE	32	2,642	31	76	92	33	2,410	Au	2,616	Mh	2,317	2,485	1,947	405	29	44	9,300,503
37	PITTSBURG	40	1,115	39	39	24	39	974	De	1,103	My	888	1,101	551	535	6	9	3,709,211
38	PLYMOUTH	21	651	17	29	10	7	588	No	702	Ap	446	687	177	435	21	24	1,212,072
39	POTTSVILLE	86	4,689	63	144	275	108	4,099	De	4,687	My	3,677	4,677	3,667	921	31	53	15,284,535
40	POTTSVILLE	91	3,425	91	87	193	77	2,977	De	3,054	Je	2,892	3,048	1,976	982	29	61	21,998,897
41	PUNXSUTAWNEY	36	554	26	32	16	23	457	Ja	680	Jy	341	498	422	75	1	.....	1,973,256
42	SEAMOKIN	67	3,575	54	144	42	84	3,251	De	4,035	Jy	1,902	4,055	1,475	2,407	46	127	6,880,121
43	SHARON	40	3,166	59	90	212	92	2,707	Ja	3,457	Jy	1,967	3,034	2,918	87	29	.....	18,132,408
44	SHEENANDOAH	39	879	33	47	21	19	769	De	794	Ap	729	798	218	573	1	6	2,099,969
45	SUNBURY	45	2,518	49	219	73	73	2,128	De	2,519	Se	1,208	2,426	1,809	547	41	29	11,049,497
46	TAMAQUA	31	886	27	24	19	10	806	Au	894	Fe	643	964	433	501	1	29	1,512,630
47	UNIONTOWN	48	756	53	48	44	38	573	Je	630	Fe	520	602	581	20	1	.....	3,184,889
48	WARREN	89	2,581	75	192	84	76	2,154	De	2,518	Fe	1,083	2,531	2,285	221	22	3	13,180,846
49	WASHINGTON	92	3,234	90	84	100	80	2,880	De	3,425	Fe	2,566	3,519	3,250	267	2	.....	9,072,178
50	WEST CHESTER	52	1,211	41	69	54	42	1,005	De	1,093	Ja	915	1,107	903	200	1	3	5,226,995
51	WILKINSBURG	49	403	47	18	7	8	323	Jy	400	Fe	252	347	322	25	.....	.....	1,306,076
52	WILLIAMSPORT	145	9,840	109	328	499	349	8,590	De	9,932	Ap	7,875	9,411	7,187	2,126	52	40	38,665,548
53	YORK	273	15,371	231	644	789	437	13,368	De	14,990	Ap	12,472	14,846	10,540	3,833	241	232	49,811,763

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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		Rent- ed.^{2}

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
71,114	67,273	246,559	11,740	8,251	40,717	310,454	11,516	1,089,305	767,335	356				356		1
194,775	88,203	1,285,031	85,861	203	189,570	1,740,263	126,404	6,023,928	4,157,261	3,896	2,575			1,321	144	2
867,908	763,787	6,198,885	2,275	57,082	2,377,066	15,571,134	671,891	31,734,528	15,491,504	9,349	5,554		40	3,746	4,138	3

Instruments, professional and scientific.....	1	Models and patterns, not including paper patterns.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	2	Steam packing.....	1
Iron and steel, welding.....	1	Patent medicines and compounds.....	2	Sausage, not made in slaughtering and meat-packing establishments..	1	Structural ironwork, not made in steel works or rolling mills.....	2
Knit goods.....	1	Peanuts, grading, roasting, cleaning, and shelling.....	1	Shirts.....	1	Tinware, not elsewhere specified.....	1
Liquors, malt.....	3	Photographic materials, motion-picture machines.....	1	Signs and advertising novelties.....	1	Tobacco, cigars.....	3
Locomotives, not made by railroad companies.....	1	Regalia, and society badges and emblems.....	1	Slaughtering and meat packing.....	1	Tobacco, smoking.....	1
Mattresses and spring beds, not elsewhere specified.....	1			Soap.....	1	Tools, machinists'.....	1
				Stamped ware, not elsewhere specified.....	1	Toys and games.....	1
						Wirework, wire rope and cable.....	1

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

430,931	1,285,417	5,228,899	19,310	4,850	1,002,061	15,102,159	411,937	26,768,145	11,194,040	8,970	5,065	2,000	602	1,303	12,172	1
335,251	356,102	4,133,797	19,310	12,562	1,086,529	10,041,251	490,668	20,414,439	9,892,620	9,334	4,160		301	3,898	8,831	2
283,893	261,601	2,245,391	2,511	18,465	150,831	5,545,398	390,229	9,435,095	3,533,338	10,376	6,500	35	1,315	2,526	653	3
388,384	385,815	1,779,876	9,514	15,740	351,339	6,047,374	345,051	10,861,158	4,468,733	6,938	660		3,042	3,227	517	4
138,616	151,892	1,385,925	7,897	20,835	171,855	2,436,837	154,044	5,697,607	3,106,826	5,380	5,149		42	189	2,162	5
344,358	448,719	4,732,592	38,518	26,176	1,982,215	33,125,103	614,504	44,476,790	10,737,033	20,804	8,150	1,102	1,444	10,108	4,782	6
390,925	260,617	4,517,691	170	4,990	169,388	9,050,009	474,218	16,894,336	7,370,109	8,261	2,188		110	5,965	1,629	7
157,268	104,697	729,637	10,230	8,074	75,768	1,440,440	73,977	3,187,996	1,673,579	2,107	1,041			466	1,052	8
323,786	198,694	1,066,192	20,360	8,825	295,110	3,384,678	79,900	6,543,455	3,079,179	1,553	743		18	792	65	9
89,198	121,285	278,079		4,465	99,281	1,856,969	71,101	2,789,605	861,535	1,662	545		22	1,095	233	10
		22,032		1,486	1,085	52,483	1,061	120,849	67,305	20		25				11
263,733	208,475	2,240,818	60,218	8,394	216,404	4,291,551	150,271	8,701,872	4,360,050	4,641	3,432	400	89	614	2,115	12
190,163	168,310	2,216,983	10,000	10,285	127,315	2,051,942	505,607	5,687,212	3,129,693	4,972	3,634		174	1,164	822	13
210,051	120,864	2,117,418	43,534	10,027	121,963	5,079,062	215,832	9,812,018	4,468,524	4,067	2,334			1,733	45	14
226,063	77,475	1,979,077	1,911	6,095	80,905	1,859,595	157,757	4,663,847	2,646,495	6,884	4,835		5	2,044	1,400	15
63,863	9,037	412,523	50	1,855	86,445	158,214	35,047	903,093	709,742	1,240	1,110			130		16
194,387	109,330	1,850,556	150	14,096	58,747	1,188,618	109,638	3,937,516	2,639,260	2,953	1,394	609	393	557	2,263	17
104,591	71,743	1,485,202	4,051	5,454	3,417	1,618,542	93,227	3,627,815	1,916,046	1,491	1,040			451	77	18
705,500	817,773	5,304,394	1,045,308	41,940	665,167	13,416,025	618,749	27,011,928	12,978,154	9,962	4,739		8	4,680	2,450	19
206,114	159,478	741,404	4,990	21,730	92,969	1,863,219	90,773	3,996,934	2,045,942	2,724	951		244	1,524		20
444,669	253,116	3,090,930	810,898	335,139	207,276	8,678,028	176,901	14,830,168	5,975,185	6,120	1,741			4,379	362	21
157,196	34,502	682,735	8,770	12,445	180,867	9,101,171	94,081	3,759,223	1,754,971	1,521	990		181	3,350	188	22
315,497	192,646	2,428,766	3,092	10,476	221,715	2,671,716	632,379	8,546,036	5,941,941	2,868	814		974	1,080	803	23
378,575	410,500	5,259,203	207,365	35,295	320,760	10,191,675	1,550,309	23,242,000	11,494,016	34,873	22,600	9,400	13	2,860	9,130	24
1,017,030	1,469,909	20,280,108	4,575	30,602	2,567,632	52,616,403	6,228,180	105,058,713	46,215,120	78,248	47,474	23,113	416	7,245	46,149	25
494,013	393,024	4,052,887	122,130	10,863	332,100	5,550,409	558,278	13,201,791	7,093,104	23,197	7,691	1,506	279	13,721	5,213	26
10,415	19,276	294,219	4,515	9,000	170,728	477,749	24,385	1,086,619	684,485	408	233			255	60	27
344,362	417,190	2,010,100	6,200	10,872	180,873	3,618,763	169,479	7,948,712	4,160,470	3,356	460		804	2,092	232	28
81,803	24,136	692,553	3,449	9,764	274,631	1,756,761	30,824	3,382,485	1,585,900	627	180		2	2,854		29
67,587	22,296	507,386	9,337	9,624	194,521	752,681	75,093	2,015,014	1,186,640	885	675			210	153	30
782,643	1,249,089	14,488,207	6,044	31,538	1,492,313	59,415,011	5,451,260	91,370,618	26,504,347	73,591	60,153	5,400	135	7,603	10,515	31
206,077	422,645	4,581,649		28,246	642,234	14,802,893	389,049	22,550,749	7,797,907	4,096	3,300	265		531	6,689	32
810,162	454,204	3,455,520	59,137	32,799	1,060,320	9,122,042	385,453	18,334,230	8,826,785	8,611	4,842		22	3,447	2,113	33
311,892	647,641	4,794,700	97	7,066	324,335	5,238,399	258,634	14,068,715	8,571,782	6,178	1,487		1,837	2,854	2,176	34
11,650	2,404	111,285		2,681	974	61,557	13,861	236,198	160,778	198				198		35
269,774	158,110	2,828,876	13,480	14,777	390,198	6,490,350	1,181,418	12,435,097	4,763,323	20,544	14,081	108	65	6,290	1,489	36
180,223	65,350	735,156	68,526	6,365	281,425	1,626,905	115,855	3,835,864	2,093,594	2,189	1,280		28	881	296	37
62,954	17,310	289,663	36,626	2,282	12,931	622,453	30,594	1,285,256	682,200	1,043	237		4	802		38
455,140	520,216	4,283,692	90,697	229,761	322,635	13,448,203	2,068,166	23,582,795	8,066,320	30,124	18,142	607	91	11,284	1,894	39
277,721	325,691	2,837,828	35,349	47,087	238,218	9,845,608	721,321	16,115,011	6,048,082	23,507	20,601	2,100		800	10,591	40
69,984	35,753	613,226	2,307	46,161	94,906	1,762,295	330,458	3,268,087	1,175,334	3,057	2,380		166	511	241	41
416,708	101,670	2,122,166	3,020	14,245	202,291	3,105,079	116,945	11,600,141	3,378,117	4,974	1,028			786	800	42
437,484	529,289	4,337,904	1,990	10,143	174,532	8,700,488	1,072,496	18,030,458	7,857,023	24,549	22,688	1,006	227	648	5,694	43
117,421	54,723	515,021	1,286	12,648	265,592	2,280,072	51,031	4,028,327	1,687,224	1,049	610		100	339	62	44
367,694	510,348	2,387,022	23,922	9,900	159,936	5,964,327	158,517	10,130,785	4,307,941	2,168	1,300	400	8	400	876	45
69,854	24,200	705,881		7,186	128,136	1,726,594	44,182	3,956,545	1,185,789	1,115	545		3	567	276	46
127,805	91,721	718,169	950	23,077	104,003	1,638,550	91,134	2,320,002	1,090,818	2,103	1,028		75	988	118	47
633,523	214,834	2,414,605	2,113	17,670	631,249	11,228,399	566,340	18,091,994	6,297,255	7,039	1,150		1,296	4,480	363	48
380,353	223,834	3,388,691	2,033	25,804	430,065	5,178,116	974,422	18,837,807	7,686,269	7,886	1,110		3,436	3,340	4,276	49
188,063	79,164	1,077,963	11,739	6,315	203,757	1,578,749	100,541	3,994,654	2,306,364	2,036	1,366	101	3	566	390	50
46,383	15,644	373,636	39,938	34,404	14,392	806,783	60,036	1,703,167	840,348	1,701	1,230		43	428	27	51
1,132,188	959,232	8,521,238	843,720	31,726	1,257,424	22,334,983	920,315	41,653,834	18,403,538	21,644	12,980		7	8,657	4,279	52
2,135,600	1,656,597	12,656,247	735,943	92,188	3,622,746	28,406,454	967,920	59,588,904	30,214,530	30,032	8,223	1,300	31	20,378	1,208	53

¹ Same number reported for one or more other months.

MINES AND QUARRIES—PENNSYLVANIA.

EXPLANATION OF TERMS.

Scope of census and period covered.—The census of mines, quarries, and petroleum or natural-gas wells does not cover enterprises which were idle; that is, in which neither productive nor development work was done during the entire year, or the products of which were valued at less than \$500; or in the case of bituminous coal mining, producing less than 1,000 tons, or, if not productive, in which development work amounting to less than \$5,000 was done. The returns relate to the calendar year 1919. When use is made of the statistics relating to character of ownership, size of enterprises, and similar subjects, it is imperative that due attention be given their limitations, particularly in connection with any attempt to show average wages, cost of production, or profits.

The enterprise.—The term "enterprise" represents one or more mines and quarries, wells or groups of wells, or natural-gas gasoline plants, all within the same state, operated under a common ownership or unified control, or for which only one set of books of account was kept, and for which a single report was secured. It may cover plants at several localities within the same state. If plants under unified control were not all located within the same state, separate reports were secured in order that statistics for the several enterprises thus defined might be included in statistics for the states in which they were located. The enterprise is further defined as being limited to a single industry.

Number of mines, quarries, wells, and plants.—Under these designations is given the number of mines, quarries, wells, and gasoline plants shown by the returns. As a rule each group of workings at a given locality in which operations were conducted as a unit or were unified by common management or joint handling of some part of the mining process, has been considered as a single mine or quarry. Many individual openings, therefore, are not counted as individual mines. The total number reported comprises those in operation or in the course of development during the year 1919. For petroleum and natural-gas wells the individual wells were counted and the total number productive December 31, 1919, is reported. The number of natural-gas gasoline plants is the total number reported in operation during the year.

Classification by industries.—The enterprises reported have been grouped by industries according to the kind of products.

Selected industries.—The detailed table gives the principal facts separately for the leading industries of the state.

Influence of increased prices.—In comparing figures for cost of supplies and materials and value of products with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years.

Persons engaged in the industry.—The number of persons engaged in each industry, by occupation, sex, and, in the case of wage earners, also by age, was reported for a single representative day. In addition to the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively.

Prevailing hours of labor.—This inquiry called merely for the prevailing practice followed in each enterprise. Occasional variations in hours from one part of the year to another were disregarded, and also where a few wage earners might have hours differing from the majority. All the wage earners of each enterprise are therefore counted in the class within which the enterprise falls.

Capital.—The instructions on the schedule relating to capital were as follows: "The answer should show the total amount of capital, owned and borrowed, invested by the operator in the enterprise on the last day of the business year reported. *Do not* include securities and loans representing investments in other enterprises." The reports received in respect to capital, however, have in so many cases been defective that the data compiled only indicate very general conditions.

Expenses.—The expenses reported in the census of 1919 include salaries and wages; the cost of supplies, materials, and fuels, including the freight on these; cost of power purchased; the cost of contract work; royalties and rents paid; and taxes paid or assessed. The census of 1909 reported in addition to the items of expenses covered by the present census all other items of expense incident to that year's business, except interest on indebtedness, dividends, and allowances for depreciation.

Supplies and materials, fuel, and power.—Statistics as to supplies and materials, fuel, and power, relate to the cost of these used during the year which may be more or less than the amount purchased during the year. The term "supplies and materials" covers mine, mill, quarry, and well supplies, and mineral purchased for treatment, resale, or distribution.

Royalties and rents.—The amounts given under this head represent the payment to fee holders or the value of share of product credited to fee holders for mineral output from leased land, and also rents paid for plants, equipment, and privileges or easements.

Taxes.—The taxes include Federal capital stock; corporation income, and excess profits tax; and also state, county, and local taxes. The data compiled in respect to Federal taxes are very defective as many mining corporations are engaged in other business and have sources of income other than from mining and do not pay taxes on mining separately.

Expenditures for development work.—In the statistics for producing enterprises that part of the expenses for salaries, wages, contract work, supplies and materials, fuel, and power credited to development work is shown as expenditures for development work. For nonproducing enterprises the total of these expenses is given as expenditure for development work.

Quantity of products.—In so far as the statistics on quantities of mineral products in 1919 are available for the states, they will be found in the reports of the United States Geological Survey.

Value of products.—The amounts given under this heading represent the selling value at point of production or f. o. b. at point of shipment, or such other value as may represent the net value or amount received for the 1919 product under the terms by which it was disposed of, and also includes the value at point of production of products used by the operating company.

Cost of mining and profits.—The data do not show entire cost of mining and well operations, and can not be used for the calculation of profits. No account was taken of depreciation or interest; rent of offices and buildings other than those for mines, quarries, and wells; insurance, selling, and other sundry expenses.

Lands controlled.—The inquiry on land tenure, was confined to land pertaining to the operations covered by the report. In many of these, however, land held in reserve for future development and for other purposes not pertaining to mining was included and also a large number of more or less unsatisfactory estimates.

Power used.—The figures on power represent the rated capacity of the engines, motors, etc., and not the amount in actual daily use.

Fuel.—Statistics of fuel are shown only for anthracite and bituminous coal, coke, wood, oil, and gas. As only the principal varieties of fuel are shown, no comparison can be made with the total cost.

STATISTICS FOR THE STATE.

Pennsylvania, which ranks thirty-second among the states in size (land area 44,832 square miles) and second in population (8,720,017 in 1920), ranked first in the value of mineral products for 1919. The state also ranked first in the number of enterprises in the mineral industries, in the total number of persons engaged in them, and in the average number of wage earners employed.

The gross value of products of all mines, quarries, and wells in Pennsylvania in 1919 was \$819,451,109. This amount includes, in addition to the value of the principal mineral products, \$353,607, the value of mineral by-products; \$253,371, the value of other unspecified products; and \$1,276,785 received for power sold and for work or miscellaneous services for other enterprises. The gross value of products also includes duplication to the amount of \$433,318, the value of anthracite coal sold by some operators to others who resold it after preparing it for market, and \$5,077,115, the value of natural gas sold by some producers to others who used it as material or resold it and included the value of this gas in their reports on value of products. Deducting these duplications leaves \$813,940,676 as the net value of products for 1919.

The gross value of products for 1919 is an increase of 134.8 per cent, and the net value is an increase of 135.3 per cent as compared with the corresponding values reported at the census of 1909. The 1909 census of mines and quarries included data on coke manufacture with the statistics on coal-mining operations and, therefore, the value of products reported by the 1909 census includes approximately \$18,000,000, the value added by the manufacture of coke, which has no counterpart in the statistics for 1919. Taking into consideration this difference, the value of products reported for 1919 was approximately 150 per cent greater than the comparable amount for 1909.

The increase in value of products and the increases in wages, cost of supplies and materials and fuel and power, as shown in Table 1, are in large part due to general price increases during the census interval. They are, therefore, not a correct measure of the growth of mining but they do indicate progress as is also indicated by the increases in number of enterprises and number of individual mines and quarries operated. These increases preclude the interpretation of the small decrease in average number of wage earners as marking a decline in mining.

The mining industries reported in Pennsylvania in 1919, classified according to principal products and listed in order of value of products, were anthracite coal, bituminous coal, petroleum and natural gas, limestone, sandstone, slate, clay, basalt, iron ore, granite, mineral pigments, abrasive materials, talc and soapstone, silica, graphite, and lead and zinc. The industries for which statistics can be shown without dis-

closure of individual operations are ranked by value of products in Table 2. The leading industries engaged in the production of the fuels, anthracite and bituminous coal and petroleum and natural gas, accounted for 96.8 per cent of the total value of products for the state.

The leading mineral industry in Pennsylvania in 1919 as determined by value of products was the production of anthracite coal. All the coal-mining enterprises classified by the census of 1919 as anthracite were in Pennsylvania. Anthracite is also mined in the Rocky Mountain Province but, for convenience and to avoid disclosure of individual operations, the data for such anthracite production are included with statistics for bituminous coal. The Pennsylvania anthracite region is restricted to 10 eastern counties in which it occupies areas aggregating approximately 500 square miles. The 254 enterprises reported in this industry include the following: 156 colliery enterprises, which operated 374 mines, 245 breakers, and 60 culm washeries; 19 enterprises, which operated 19 culm washeries independently of mines; and 79 enterprises, which operated 81 river dredges. The average number of wage earners employed in these enterprises was 147,372, or 45.6 per cent of the total number in the mining industries of the state, and the gross value of products reported was \$364,084,142, or 44.4 per cent of the total value of the mineral products of the state.

The mining of bituminous coal was second in importance in 1919 on the basis of value of products and first on that of the average number of wage earners employed. One-third of the mining enterprises in Pennsylvania were engaged in this industry, employed 154,992 wage earners, or 47.9 per cent of the total number, and reported products valued at \$362,973,952, or 44.3 per cent of the total for the state. The output of bituminous coal for this state was nearly one-third of the total for the United States. The bituminous coal field of Pennsylvania, which is continuous with the coal fields of Ohio, West Virginia, and Maryland, embraces the north-eastern part of the Appalachian Coal Province and extends over most of the western part of the state. The productive area occupies some 12,000 square miles in 27 counties, 6 of which, in the southwestern part of the state, reported more than three-fourths of the total product. The coals mined are bituminous and semibituminous in varieties suitable for all uses. In addition to coal, 11 enterprises in this industry produced clay as a by-product which was valued at \$118,166, and 34 enterprises reported receipts for power sold and for work or miscellaneous services for other enterprises which amounted to \$684,924.

The production of petroleum and natural gas was third in importance among the mineral industries in

Pennsylvania in 1919, and the state ranked sixth in the United States in this industry. There were 3,140 productive enterprises, or 54.1 per cent of the total number in the state. They employed, however, only 2.8 per cent of the total number of wage earners and reported products valued at \$66,271,961, or only 8.1 per cent of the total for the state. The statistics for this industry include data on the operation of plants engaged in the extraction of gasoline from natural gas, whether such plants were connected with well operations or operated independently. The productive petroleum and natural-gas area in Pennsylvania is limited chiefly to a belt occupying approximately 10,000 square miles extending northeastward across the state from the southwest corner. There is also a gas-producing zone along the shore of Lake Erie. The production of petroleum and natural gas in 1919 was from 24 counties.

The industries fourth, fifth, and sixth in importance in Pennsylvania were the quarrying of limestone, sandstone, and slate in which Pennsylvania ranked first among the states. These industries, together with basalt and granite quarrying, employed practically 10,000 wage earners, or 3 per cent of the total number, and reported products valued at \$21,801,754, or 2.7 per cent of the total value of products. In addition to the products indicated by the industry designations the quarrying enterprises in the state reported other mineral products valued at \$281,590, including a small amount of lime manufactured at limestone quarries and not included in the census of manufactures. This amount and also \$118,000 received for power sold or for work or miscellaneous services for other enterprises are included in the total value of products reported for these industries.

Clay mining was seventh in importance in Pennsylvania in 1919 and the state ranked first in the clay industry in the United States. Twelve of the clay enterprises reported coal valued at \$161,321 as a by-product of clay mining.

Although small in comparison with other mining industries in the state, the production of mineral pigments in Pennsylvania was important and outranked production from other states.

Work on unproductive mineral properties for the purpose of development was reported in 1919 by 10 coal-mining and 3 petroleum and natural-gas enterprises. These enterprises, with a combined capital of \$3,244,212, employed 110 wage earners and expended \$301,516 for development.

The producing mining enterprises in Pennsylvania in 1919 are classified according to character of organization in Table 3 which shows that, although the corporations numbered less than one-third of the enterprises in the state, they conducted by far the largest operations, employing 92.4 per cent of the wage earners, and reporting 91.4 per cent of the total value of products. The petroleum and natural-gas industry which in-

cluded a majority of the enterprises in the state was unique in that incorporated enterprises numbered less than 10 per cent of the total in the industry. Nevertheless the corporations outclassed other forms of organization in both wage earners employed and value of products. The enterprises in the anthracite and bituminous coal-mining industries, in clay mining, and in most of the quarrying industries were largely in the hands of corporations.

The relatively large number of small enterprises as measured by the average number of wage earners employed is shown in Table 4. Of the total number of mining enterprises in Pennsylvania, 25.9 per cent employed no wage earners and 66.1 per cent of the enterprises had fewer than 101 each and the wage earners employed were only 15.3 per cent of the total number of wage earners. On the other hand, only 459 enterprises, or 7.9 per cent of the total number, had more than 100 wage earners each and employed 84.7 per cent of the total number of wage earners. The petroleum and natural-gas industry included practically all of the enterprises having no wage earners and two-thirds of the enterprises having less than 6. In this industry only 161 enterprises, or 5.1 per cent, employed 6 or more wage earners each. Very large enterprises having more than 1,000 wage earners each were reported only in the anthracite and bituminous coal-mining industries.

Table 5 shows that in a majority of enterprises employing wage earners and for 91.1 per cent of the wage earners the hours of labor were 44 to 53 per week. These hours were the rule in the anthracite and bituminous coal-mining industries in which the 8-hour day and 6-day week prevailed. In the petroleum and natural-gas industry a large number of enterprises which, however, employed few wage earners each, required less than 44 hours per week, while 62.1 per cent of the wage earners in this industry worked more than 53 hours per week. In the quarrying industries the prevailing hours of labor were 54 to 62 per week and a majority of the enterprises reported the 10-hour day and 6-day week.

The statistics for wage earners presented in Table 6, showing changes in the number employed month by month, reflect conditions prevailing in the industries during the census year. The minimum shown for the bituminous coal industry in November, which was due to the great strike in that industry, was abnormal both as to the amount by which it differs from the maximum and as to the time of year. The normal minimum in this industry is to be expected in the spring. The degree of unemployment in the coal-mining industry in November, 1919, accounts for the minimum in that month in the statistics for all mining industries combined.

Table 7 presents for 1919 statistics in detail for the state as a whole and for each industry that can be shown without disclosure of individual operations.

MINES AND QUARRIES—PENNSYLVANIA.

TABLE 1.—COMPARATIVE SUMMARY, PRODUCING ENTERPRISES: 1919 AND 1909.

	MINING INDUSTRIES.		Per cent of increase. ¹		MINING INDUSTRIES.		Per cent of increase. ¹
	1919	1909			1919	1909	
Number of enterprises.....	5,807	4,851	19.7	Capital.....	\$1,317,519,289	\$866,207,208	52.1
Number of mines and quarries.....	3,621	3,000	20.7	Principal expenses:			
Number of petroleum and natural-gas wells.....	77,325	59,780	29.3	Salaries.....	34,904,473	13,057,340	167.8
Number of natural-gas-gasoline plants.....	319			Wages.....	445,218,043	197,473,882	125.5
Persons engaged.....	350,338	381,865	-8.3	Contract work.....	7,970,425	5,976,032	33.4
Proprietors and firm members, total.....	8,822	9,130	-3.4	Supplies and materials.....	124,327,787	48,274,254	157.5
Number performing manual labor in or about the mines, quarries, and wells.....	2,126	2,113	0.6	Fuel and power.....	27,707,403	6,423,190	331.4
Salaried employees.....	18,119	11,722	54.6	Royalties and rents.....	24,682,827	15,379,127	60.5
Wage earners (average number).....	323,397	361,013	-10.4	Taxes.....	23,747,401	5,699,466	404.4
Power used (horsepower).....	1,999,422	1,618,806	23.5	Value of products.....	819,451,109	349,059,788	134.8

¹ A minus sign (-) denotes decrease.² Includes the cost of coal and natural gas purchased as material or for resale.

TABLE 2.—PRINCIPAL INDUSTRIES, PRODUCING ENTERPRISES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.	
		Average number.	Per cent distribution.	Amount.	Per cent distribution.			Average number.	Per cent distribution.	Amount.	Per cent distribution.
All industries.....	5,807	323,397	100.0	\$819,451,109	100.0	Slate.....	42	1,892	0.6	2,651,533	0.3
Coal, anthracite.....	254	147,372	45.6	364,084,142	44.4	Clay.....	62	1,337	0.4	2,546,485	0.3
Coal, bituminous.....	1,938	154,992	47.9	362,973,952	44.3	Basalt.....	29	721	0.2	2,298,791	0.3
Petroleum and natural gas.....	3,140	9,065	2.8	66,271,961	8.1	Granite.....	29	197	0.1	435,654	0.1
Limestone.....	184	5,573	1.7	12,881,213	1.6	Mineral pigments.....	13	115	(¹)	344,739	(¹)
Sandstone.....	100	1,673	0.5	3,534,563	0.4	Silica.....	4	43	(¹)	54,807	(¹)
						All other industries.....	12	417	0.1	1,373,209	0.2

¹ Less than one-tenth of 1 per cent.² Includes enterprises in industries as follows: Abrasive materials, 1; graphite, 3; iron ore, 5; lead and zinc, 1; talc and soapstone, 2.

TABLE 3.—CHARACTER OF ORGANIZATION, FOR SELECTED INDUSTRIES, PRODUCING ENTERPRISES: 1919.

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enterprises.	Wage earners.	Value of products.
ALL INDUSTRIES.....	5,807	323,397	\$819,451,109	\$141,114	100.0	100.0	100.0
Corporation.....	1,702	298,807	748,797,805	439,952	29.3	92.4	91.4
Individual.....	1,769	10,872	28,461,348	16,089	30.5	3.2	3.5
Firm.....	2,055	12,255	34,778,893	16,916	35.4	3.8	4.2
Other.....	280	1,953	7,413,063	26,475	4.8	0.6	0.9
COAL, ANTHRACITE.....	254	147,372	364,084,142	1,433,402	100.0	100.0	100.0
Corporation.....	170	143,615	355,328,907	2,090,170	66.9	97.4	97.6
Individual.....	37	431	962,441	26,012	14.6	0.3	0.3
Firm.....	42	2,879	6,741,024	160,501	16.5	2.0	1.9
Other.....	5	447	1,051,770	210,354	2.0	0.3	0.3
COAL, BITUMINOUS.....	1,938	154,992	362,973,952	187,293	100.0	100.0	100.0
Corporation.....	1,000	139,535	328,381,955	328,382	51.6	90.0	90.5
Individual.....	467	7,706	17,487,290	35,908	25.1	5.0	4.8
Firm.....	440	6,870	15,362,035	34,891	22.7	4.4	4.2
Other.....	11	881	1,762,662	159,333	0.6	0.6	0.5
PETROLEUM AND NATURAL GAS.....	3,140	9,065	66,271,961	21,106	100.0	100.0	100.0
Corporation.....	295	6,220	44,016,627	149,209	9.4	68.6	66.4
Individual.....	1,102	1,094	7,847,083	7,121	35.1	12.1	11.8
Firm.....	1,455	1,425	10,885,470	7,196	47.3	15.7	16.1
Other.....	288	326	3,722,781	14,429	8.2	3.6	5.6
LIMESTONE.....	184	5,573	12,881,213	70,007	100.0	100.0	100.0
Corporation.....	69	4,352	10,611,380	153,788	37.5	78.1	82.4
Individual.....	76	682	1,263,417	16,624	41.3	12.2	9.8
Firm.....	39	539	1,006,416	25,806	21.2	9.7	7.8
SANDSTONE.....	100	1,673	3,534,563	35,346	100.0	100.0	100.0
Corporation.....	52	1,238	2,733,682	52,571	52.0	74.0	77.3
Individual.....	25	156	231,979	11,279	25.0	9.3	8.0
Firm.....	23	279	518,902	22,561	23.0	16.7	14.7

¹ Includes 2 other forms of organization.

MINES AND QUARRIES—PENNSYLVANIA.

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TABLE 3.—CHARACTER OF ORGANIZATION, FOR SELECTED INDUSTRIES, PRODUCING ENTERPRISES: 1919—Con.

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enterprises.	Wage earners.	Value of products.
SLATE.....	42	1,892	\$2,651,533	\$63,132	100.0	100.0	100.0
Corporation.....	34	1,706	2,451,467	72,102	81.0	90.2	92.5
Individual.....	3	88	74,715	24,905	7.1	3.6	2.8
Firm.....	5	118	125,351	25,070	11.9	6.2	4.7
CLAY.....	62	1,337	2,546,485	41,072	100.0	100.0	100.0
Corporation.....	43	1,122	2,107,809	49,021	69.4	83.9	82.8
Individual.....	8	63	111,079	13,997	12.9	4.7	4.4
Firm ¹	11	152	326,607	29,692	17.7	11.4	12.8
BASALT.....	20	721	2,208,791	79,269	100.0	100.0	100.0
Corporation.....	16	600	2,108,543	131,784	55.2	91.5	91.7
Individual.....	10	48	164,690	16,469	34.5	6.7	7.2
Firm ²	3	13	25,558	8,519	10.3	1.8	1.1
GRANITE.....	29	197	435,054	15,023	100.0	100.0	100.0
Corporation.....	6	86	179,383	29,897	20.7	43.7	41.2
Individual.....	16	82	181,080	11,374	55.2	41.6	41.8
Firm.....	7	29	74,201	10,613	24.1	14.7	17.1
MINERAL PIGMENTS.....	13	115	344,739	26,518	100.0	100.0	100.0
Corporation.....	8	82	253,205	31,651	61.5	71.3	73.4
Firm ³	5	33	91,534	18,307	38.5	28.7	26.6

¹ Includes 2 other forms of organization.

² Includes 1 other form of organization.

³ Includes 2 individuals.

TABLE 4.—SIZE OF PRODUCING ENTERPRISES, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.		INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.		Number.	Per cent distribution.	Number.	Per cent distribution.
ALL INDUSTRIES.....	5,807	100.0	323,397	100.0	SLATE.....	42	100.0	1,892	100.0
No wage earners.....	1,506	25.9	.....	.....	6 to 20.....	11	26.2	117	6.2
1 to 5.....	2,243	38.6	4,301	1.3	21 to 50.....	20	47.6	669	35.4
6 to 20.....	830	14.3	9,247	2.9	51 to 100.....	7	16.7	521	27.5
21 to 50.....	496	8.5	15,947	4.9	101 to 500.....	4	9.5	585	30.9
51 to 100.....	273	4.7	20,040	6.2					
101 to 500.....	355	6.1	78,772	24.4	SANDSTONE.....	100	100.0	1,673	100.0
501 to 1,000.....	63	1.1	42,817	13.2	No wage earners.....	2	2.0	.....	.....
Over 1,000.....	41	0.7	152,264	47.1	1 to 5.....	40	40.0	106	6.3
COAL, BITUMINOUS.....	1,938	100.0	154,992	100.0	6 to 20.....	36	36.0	394	23.6
No wage earners.....	11	0.6	.....	.....	21 to 50.....	14	14.0	455	27.2
1 to 5.....	554	28.6	1,557	1.0	51 to 100.....	5	5.0	342	20.4
6 to 20.....	486	25.1	5,702	3.7	101 to 500.....	3	3.0	376	22.5
21 to 50.....	363	18.7	11,764	7.6					
51 to 100.....	216	11.1	16,792	10.2	CLAY.....	62	100.0	1,337	100.0
101 to 500.....	263	13.6	55,281	35.7	1 to 5.....	9	14.5	33	2.5
501 to 1,000.....	26	1.3	17,742	11.4	6 to 20.....	32	51.6	396	29.6
Over 1,000.....	19	1.0	47,154	30.4	21 to 50.....	16	25.8	519	38.8
COAL, ANTHRACITE.....	254	100.0	147,372	100.0	51 to 100.....	5	8.1	389	29.1
No wage earners.....	2	0.8	.....	.....			
1 to 5.....	62	24.4	139	0.1	BASALT.....	29	100.0	721	100.0
6 to 20.....	39	15.4	469	0.3	1 to 5.....	7	24.1	13	1.8
21 to 50.....	20	7.9	629	0.4	6 to 20.....	11	37.9	93	12.9
51 to 100.....	13	5.1	981	0.7	21 to 50.....	7	24.1	230	31.9
101 to 500.....	63	24.8	18,240	12.4	51 to 100.....	1	3.4	55	7.6
501 to 1,000.....	33	13.0	21,804	14.8	101 to 500.....	3	10.4	330	45.8
Over 1,000.....	22	8.7	105,110	71.3					
PETROLEUM AND NATURAL GAS.....	3,140	100.0	9,065	100.0	GRANITE.....	29	100.0	197	100.0
No wage earners.....	1,487	47.4	.....	.....	1 to 5.....	7	24.1	20	10.2
1 to 5.....	1,492	47.5	2,264	25.0	6 to 20.....	20	69.0	122	61.9
6 to 20.....	122	3.9	1,157	12.8	21 to 50.....	2	6.9	55	27.9
21 to 50.....	23	0.7	749	8.3					
51 to 100.....	7	0.2	554	6.1	MINERAL PIGMENTS.....	13	100.0	115	100.0
101 to 500.....	5	0.2	1,070	11.8	No wage earners.....	1	7.7	.....	.....
501 to 1,000.....	4	0.1	3,271	36.1	1 to 5.....	4	30.8	13	11.3
LIMESTONE.....	184	100.0	5,573	100.0	6 to 20.....	7	53.8	70	60.9
No wage earners.....	2	1.1	.....	.....	21 to 50.....	1	7.7	32	27.8
1 to 5.....	64	34.8	144	2.6					
6 to 20.....	59	32.1	635	11.4					
21 to 50.....	28	15.2	790	14.2					
51 to 100.....	19	10.3	1,415	25.4					
101 to 500.....	12	6.5	2,589	46.5					

INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—											
	Enter-prises.	Wage earners.	35 and under.		36 to 43.		44 to 53.		54 to 62.		63 to 71.		72 to 84.	
			Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.
All industries.....	14,301	323,397	428	1,262	162	1,556	2,644	294,501	923	22,974	30	2,361	105	653
Coal, bituminous.....	1,927	154,992	40	759	63	1,068	1,706	143,357	108	8,001	9	1,769	1	8
Coal, anthracite.....	252	147,372	.....	.....	1	315	176	145,787	71	807	3	442	1	21
Petroleum and natural gas.....	1,653	9,065	388	503	94	121	659	2,814	387	4,923	22	80	103	624
Limestone.....	182	5,573	.....	.....	2	3	22	308	157	5,267	1	5	.....	.....
Slate.....	42	1,892	.....	.....	.....	.....	12	949	28	898	2	45	.....	.....
Sandstone.....	98	1,673	.....	.....	.....	.....	13	209	84	1,448	1	16	.....	.....
Clay.....	62	1,337	.....	.....	1	17	37	847	24	473	.....	.....	.....	.....
Basalt.....	29	721	.....	.....	.....	.....	4	78	25	948	.....	.....	.....	.....
Granite.....	29	197	.....	.....	1	2	8	80	19	111	1	4	.....	.....
Mineral pigments.....	12	115	.....	.....	.....	.....	3	36	0	79	.....	.....	.....	.....
All other industries.....	15	460	.....	.....	.....	.....	4	126	11	334	.....	.....	.....	.....

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

[illegible]

MINES AND QUARRIES—PENNSYLVANIA.

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TABLE 7.—DETAILED STATISTICS FOR MINING INDUSTRIES: 1919.

	Aggregate.	PRODUCING ENTERPRISES.					
		Total.	Coal.		Petroleum and natural gas. ¹	Limestone.	Sandstone.
			Anthracite.	Bituminous.			
Number of enterprises.....	5,820	5,807	2 254	1,938	3,140	184	100
Number of mines and quarries.....	3,631	3,621	2 534	2,584		200	107
Number of petroleum and natural-gas wells.....	77,325	77,325			77,325		
Number of natural-gas gasoline plants.....	319	319			319		
Capital.....	\$1,320,763,501	\$1,317,519,289	\$433,868,039	\$648,626,810	\$201,186,270	\$12,941,066	\$8,775,667
Principal expenses:							
Salaries and wages—							
Officers.....	\$3,266,738	\$3,263,538	\$1,275,904	\$5,969,693	\$605,550	\$116,395	\$63,185
Superintendents and managers.....	\$13,668,305	\$13,665,082	\$6,149,017	\$6,054,762	\$349,044	\$234,033	\$98,799
Technical employees.....	\$2,579,708	\$2,561,196	\$1,423,614	\$995,268	\$22,776	\$21,508	
Clerks, etc.....	\$10,476,102	\$10,474,657	\$4,146,934	\$5,018,500	\$966,580	\$148,866	\$54,533
Wage earners.....	\$445,353,348	\$445,218,643	\$210,289,473	\$211,346,693	\$10,219,433	\$6,824,164	\$1,688,574
Supplies and materials.....	\$118,993,907	\$118,817,334	\$59,735,376	\$44,912,367	\$8,962,993	\$2,758,379	\$695,265
Cost of coal and natural gas purchased as material and for resale.....	\$5,610,433	\$5,510,433	\$433,318		\$5,077,115		
Fuel.....	\$21,819,320	\$21,818,407	\$11,406,117	\$7,599,659	\$1,560,224	\$559,646	\$215,423
Power.....	\$5,890,320	\$5,888,996	\$1,899,835	\$3,522,701	\$21,825	\$255,957	\$82,522
Royalties and rents.....	\$24,683,877	\$24,682,827	\$11,769,698	\$6,003,627	\$0,170,090	\$234,488	\$58,206
Taxes.....	\$28,787,625	\$28,747,401	\$14,069,963	\$12,253,433	\$1,935,048	\$247,700	\$76,607
Contract work.....	\$5,011,641	\$7,970,425	\$1,557,845	\$618,094	\$5,523,072	\$194,748	\$2,484
Expenditures for development (included in the above items).....	\$25,232,489	\$24,930,973	\$6,189,990	\$3,344,445	\$9,704,215	\$199,199	\$39,411
Value of products.....	\$819,451,109	\$819,451,109	\$364,084,142	\$362,973,952	\$66,271,961	\$12,881,213	\$3,534,563
Persons engaged in industry.....	350,490	350,338	154,882	165,044	17,255	6,036	1,898
Proprietors and firm members (total).....	8,840	8,822	150	1,743	6,548	105	78
Number performing manual labor.....	2,129	2,126	34	575	1,429	44	20
Salaried officers.....	2,044	2,042	233	1,410	227	49	34
Superintendents and managers.....	6,083	6,077	2,821	2,480	451	113	56
Technical employees.....	1,563	1,550	907	572	54	7	
Clerks, etc.....	8,453	8,450	3,390	3,847	910	129	57
Wage earners (average number).....	323,507	323,397	147,372	154,992	9,065	5,573	1,673
Wage earners by occupation (Dec. 15):							
Above ground (total).....	95,998	95,748	46,618	28,639	9,417	5,217	1,872
Below ground (total).....	250,844	250,822	105,625	143,458		663	
Foremen, shift bosses, etc.—							
Above ground.....	2,069	2,063	435	1,219		194	77
Below ground.....	4,805	4,803	1,098	3,663		8	
Engineers, holstmen, electricians, mechanics, etc.—							
Above ground.....	27,316	27,305	10,488	8,966	6,453	720	164
Below ground.....	11,398	11,398	4,331	7,042		20	
Miners, quarrymen, and drillmen, including their helpers—							
Above ground.....	5,334	5,305	138	1,609		2,072	596
Below ground.....	151,957	151,949	59,401	91,575		171	
Timbermen, trackmen, and men engaged in hauling, tramming, etc.—							
Above ground.....	7,274	7,219	2,769	3,409		400	163
Below ground.....	41,010	41,006	17,325	23,457		78	
Muckers, loaders, laborers, and others not classified—							
Above ground.....	32,261	32,112	12,291	13,202	2,964	1,769	640
Below ground.....	41,674	41,666	23,470	17,721		386	
Wage earners employed in mills and beneficiating plants—							
Above ground.....	21,744	21,744	20,497	234		62	227
Number of wage earners under 16 years of age included in those reported above—							
Above ground.....	163	162	119	34		5	
Mineral and oil land operated..... acres.....	4,361,129	4,362,082	261,355	1,491,919	2,506,879	31,175	31,469
Land controlled, total..... acres.....	4,734,637	4,724,927	432,075	1,682,398	2,506,879	33,431	36,933
Mineral and oil land owned.....	1,757,769	1,750,822	194,390	1,112,955	390,700	6,165	28,953
Mineral and oil land leased.....	2,617,152	2,615,052	77,955	381,720	2,110,179	25,045	5,226
Timber and other lands owned and leased.....	369,116	369,053	159,710	187,722		2,221	5,424
Power used: Aggregate horsepower.....	1,999,581	1,999,422	899,783	658,963	371,267	30,155	10,844
Prime movers (horsepower, total).....	1,638,707	1,638,599	782,090	444,690	365,082	15,641	8,268
Steam engines—							
Number.....	16,845	16,841	5,298	2,194	8,511	378	149
Horsepower.....	1,274,193	1,274,108	730,141	348,402	186,490	14,516	7,057
Steam turbines—							
Number.....	146	146	45	100		1	
Horsepower.....	137,213	137,213	50,665	86,273		275	
Internal-combustion engines—							
Number.....	14,435	14,433	73	319	13,910	55	28
Horsepower.....	226,536	226,513	1,284	10,015	208,552	800	1,211
Water wheels and turbines—							
Number.....	12	12			2	2	
Horsepower.....	765	765			40	50	
Purchased power (horsepower, total).....	360,874	360,823	117,693	214,273	6,185	14,514	2,576
Electric motors operated by purchased current—							
Number.....	8,526	8,521	1,881	5,953	41	358	100
Horsepower.....	355,221	355,170	117,693	214,208	637	14,514	2,576
Other equipment operated by purchased power—							
Horsepower.....	5,653	5,653		65	5,548		
Electric motors run by current generated by enterprise using:							
Number.....	12,146	12,146	3,801	3,045	203	9	20
Horsepower.....	471,216	471,216	185,723	278,780	2,341	225	1,165
Fuel used:							
Coal, anthracite..... tons, 2,240 pounds.....	8,561,045	8,561,045	8,548,201			702	2,388
Coal, bituminous..... tons, 2,000 pounds.....	3,574,852	3,574,674	4,096	3,304,925	6,602	130,886	41,648
Coke..... tons, 2,000 pounds.....	219	219				179	
Wood..... cords.....	2,376	2,376			1,582	237	87
Fuel oils..... barrels.....	1,608	1,608	671	196		201	3
Gasoline and other volatile oils..... barrels.....	13,811	13,801	1,381	5,008	2,447	3,408	285
Natural gas..... 1,000 cubic feet.....	10,047,604	10,047,604		310,914	9,488,454	4,080	145,627

¹ Includes a small operation in New York inseparably combined with report on Pennsylvania operations.² Includes 156 collieries embracing 374 mines, 245 breakers and 60 culm washeries; 19 enterprises operating 19 culm washeries; and 79 enterprises operating 81 river dredges.³ Includes 374 mines, 79 culm washeries and 81 river dredges.⁴ Includes 89,354 M. cu. ft. of manufactured (coke oven) gas reported as fuel used in the mining of iron ore.

MINES AND QUARRIES—PENNSYLVANIA.

TABLE 7.—DETAILED STATISTICS FOR MINING INDUSTRIES: 1919—Continued.

	PRODUCING ENTERPRISES—continued.							NONPRODUCING ENTERPRISES.		
	Slate.	Clay.	Basalt.	Granite.	Mineral pigments.	Silica.	All other. ¹	Total.	Coal, bituminous.	Petroleum and natural gas.
Number of enterprises.....	42	62	29	29	13	4	12	13	10	3
Number of mines and quarries.....	42	63	32	30	13	4	12	10	10	.....
Number of petroleum and natural-gas wells.....										
Number of natural-gas gasoline plants.....										
Capital.....	\$2,829,629	\$4,357,640	\$3,552,049	\$475,238	\$515,762	\$147,565	\$2,243,554	\$3,244,212	\$3,191,812	\$52,400
Principal expenses:										
Salaries and wages—										
Officers.....	\$79,310	\$52,229	\$63,050	\$3,422	\$10,575	\$1,550	\$17,675	\$3,200	\$3,200	.....
Superintendents and managers.....	\$96,085	\$60,588	\$54,954	\$10,633	\$8,380	\$8,400	\$40,387	\$3,223	\$3,223	.....
Technical employees.....	\$900		\$7,500				\$16,681	\$18,512	\$17,497	\$1,015
Clerks, etc.....	\$32,589	\$44,111	\$39,466	\$4,624	\$7,267		\$11,137	\$1,445	\$1,445	.....
Wage earners.....	\$1,655,082	\$1,538,468	\$792,637	\$237,481	\$118,380	\$40,290	\$474,918	\$134,705	\$133,945	\$760
Supplies and materials.....	\$297,941	\$410,395	\$618,769	\$43,396	\$65,767	\$9,720	\$303,996	\$166,573	\$156,161	\$10,412
Cost of coal and natural gas purchased as material and for resale.....										
Fuel.....	\$164,461	\$96,880	\$152,792	\$20,585	\$11,511	\$3,775	\$51,334	\$1,193	\$195	\$998
Power.....	\$42,234	\$15,950	\$10,277	\$1,730	\$560	\$479	\$34,026	\$1,324	\$1,264	\$60
Royalties and rents.....	\$110,931	\$72,277	\$50,635	\$12,336	\$7,596		\$196,143	\$1,050	\$900	\$150
Taxes.....	\$33,168	\$30,271	\$61,046	\$3,774	\$1,672	\$1,371	\$42,748	\$40,224	\$40,204	\$20
Contract work.....	\$25,033	\$4,121	\$2,507	\$640	\$1,162		\$13,719	\$41,216	\$11,016	\$29,000
Expenditures for development (included in the above items).....	\$36,717	\$69,265	\$85,254	\$18,700	\$5,456	\$20,000	\$218,321	\$301,516	\$258,851	\$42,665
Value of products.....	\$2,651,538	\$2,546,485	\$2,298,791	\$435,654	\$344,739	\$54,887	\$1,373,209			
Persons engaged in industry.....	2,051	1,440	823	252	140	51	466	152	135	17
Proprietors and firm members (total).....	17	34	14	37	10	3	14	18	4	14
Number performing manual labor.....	9	4	4	5	1	1	1	3	2	1
Salaried officers.....	47	9	18	5	4	2	4	2	2	.....
Superintendents and managers.....	63	33	30	7	5	3	15	6	6	.....
Technical employees.....	1		1				8	13	11	2
Clerks, etc.....	31	27	39	6	6		8	3	3	.....
Wage earners (average number).....	1,892	1,337	721	197	115	43	417	110	109	1
Wage earners by occupation (Dec. 15):										
Above ground (total).....	1,724	777	710	237	106	39	392	250	249	1
Below ground (total).....	340	620			33		83	22	22	.....
Foremen, shift bosses, etc.—										
Above ground.....	48	28	28	12	6	2	14	6	6	.....
Below ground.....	16	12			3		8	2	2	.....
Engineers, hoistmen, electricians, mechanics, etc.—										
Above ground.....	168	97	121	12	7	2	107	11	10	1
Below ground.....		5								.....
Miners, quarrymen, and drillmen, including their helpers—										
Above ground.....	321	166	212	131	11	2	47	29	29	.....
Below ground.....	270	481			14		37	8	8	.....
Timbermen, trackmen, and men engaged in hauling, tramming, etc.—										
Above ground.....	127	210	49	18	3	18	48	55	55	.....
Below ground.....	33	100			10		3	4	4	.....
Muckers, loaders, laborers, and others not classified—										
Above ground.....	500	223	268	54	53	10	138	149	149	.....
Below ground.....	21	22			6		40	8	8	.....
Wage earners employed in mills and beneficiating plants—										
Above ground.....	560	53	32	10	26	5	38			.....
Number of wage earners under 16 years of age included in those reported above—										
Above ground.....	4							1	1	.....
Mineral and oil land operated..... acres..	1,054	20,892	4,258	480	1,211	410	980	9,047	8,722	325
Land controlled, total..... acres..	1,391	22,035	4,758	489	2,977	499	1,112	9,110	8,785	325
Mineral and oil land owned.....	620	11,129	733	402	825	410	280	6,947	6,946	1
Mineral and oil land leased.....	425	9,763	3,525	78	386		750	2,100	1,776	324
Timber and other lands owned and leased.....	337	1,143	500	9	1,760	89	132	63	63	.....
Power used: Aggregate horsepower.....	9,678	3,892	6,058	1,232	1,198	390	5,962	159	103	56
Prime movers (horsepower, total).....	7,393	2,638	5,147	852	1,183	365	5,250	108	53	55
Steam engines—										
Number.....	155	44	53	30	12	1	16	4	1	3
Horsepower.....	7,385	2,337	5,000	768	585	125	1,282	85	30	55
Steam turbines—										
Number.....										
Horsepower.....										
Internal-combustion engines—										
Number.....	1	17	6	9	6	4	5	2	2	.....
Horsepower.....	8	281	147	84	228	240	3,663	23	23	.....
Water wheels and turbines—										
Number.....					5		3			.....
Horsepower.....					370		305			.....
Purchased power (horsepower, total).....	2,285	1,254	911	380	15	25	712	51	50	1
Electric motors operated by purchased current—										
Number.....	95	36	28	5	2	2	20	5	4	1
Horsepower.....	2,285	1,214	911	380	15	25	712	51	50	1
Other equipment operated by purchased power—										
Horsepower.....	40									.....
Electric motors run by current generated by enterprise using:										
Number.....	14						54			.....
Horsepower.....	201						2,781			.....
Fuel used:										
Coal, anthracite..... tons, 2,240 pounds..	8,504	337			803		50			.....
Coal, bituminous..... tons, 2,000 pounds..	24,106	14,597	30,847	3,662	1,552	682	11,071	178	40	138
Coke..... tons, 2,000 pounds..							40			.....
Wood..... cords.....		50			290		130			.....
Fuel oils..... barrels.....	36		303				30			.....
Gasoline and other volatile oils..... barrels.....	1	403	83	149	215	34	387	10	10	.....
Natural gas..... 1,000 cubic feet.....		7,747				1,428	289,354			.....

¹ Includes enterprises as follows: Abrasive materials, 1; graphite, 3; iron ore, 5; lead and zinc, 1; talc and soapstone, 2.² Manufactured (coke oven) gas.