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MANUFACTURES: 1919

MAINE

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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 bulletin 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 comparison 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 fuels is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

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GENERAL STATISTICS.

General character of the state.—Maine has a gross area of 33,040 square miles, of which 29,895 represent land surface. The inhabitants of the state in 1900 numbered 694,466; in 1910, 742,371; and in 1920, 768,014. In total population Maine ranked thirty-fifth among the states in 1920. The number of inhabitants per square mile in 1910 was 24.8, the corresponding figure for 1920 being 25.7.

In 1920, there were nine cities in the state—Auburn, Augusta, Bangor, Bath, Biddeford, Lewiston, Portland, Sanford, and Waterville—having more than 10,000 inhabitants. The statistics for Sanford, however, can not be shown without the possibility of disclosing the operations of individual establishments. The combined population of these nine cities in 1920 was 214,921, and formed 28 per cent of the total population for the state. In 1919, these cities, exclusive of Sanford, reported 33.8 per cent of the value of the state's manufactured products.

Importance and growth of manufactures (Table 1).—The increases in wages, cost of materials, and the value of products from 1914 to 1919, as presented in Table 1, are in a great measure due to the changes in industrial conditions brought about by the World War. The addition of the Federal income tax since 1914 accounts for the large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for 1919 with those for prior censuses.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as indicating their importance from a manufacturing standpoint. Their ranking might change materially if based upon the average number of wage earners or 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 33.

Average number of wage earners, for selected industries (Table 5).—The industries covered by this table are those which employed 300 or more 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 show increases in value of products, due largely to the increased value of commodities at the latter period. The largest actual increase in value of products during this period, \$19,144,342, or 180.3 per cent, was in the city of Lewiston.

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, similar data are given for males and females for all industries combined, and also for cities of 10,000 inhabitants or more. There were a number of industries in the state in 1919 in which female wage earners predominated.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Maine. In that year only 6.8 per cent of the wage earners were reported in the group "48 and under" as against 31.5 per cent in 1919. In 1914 the "60" and "over 60" groups constituted 24.2 per cent of the total wage earners, as compared with 6.9 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, 94.2 per cent were in classes having fewer than 101 wage earners, while such establishments employed but 29.8 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 5.8 per cent of the total manufacturing establishments in the state, but reported 70.2 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 of all items for 1909, and for the 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

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this table it was necessary in some instances to combine the establishments of one group with those of some other group 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 the extent of manufacturing activities.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 29.8 per cent of the number of establishments in the state in 1919, they reported 88.7 per cent of the average number of wage earners and 89.8 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 12,004, or 18 per cent, and the value of products, \$244,883,282, or 148.3 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 these eight cities in 1919 represented 25.9 per cent

of the total in the state. They reported in that year 37.9 per cent of the average number of wage earners, and 33.8 per cent of the value of products.

Principal industries in Portland, with per cent of total for the state (Table 16).—This table includes all industries in the city of Portland having products of \$500,000 and over for which figures 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 59,817 horsepower, or 12.3 per cent. Of this increase, 13,176 horsepower, or 22 per cent, was owned power, and 46,641, or 78 per cent, rented power.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by 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. In 1919 the paper and wood pulp industry consumed 60.7 per cent of the bituminous coal and 86.7 per cent of the fuel oils reported by the manufacturing establishments in the state.

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.....	2,995	3,378	3,546	3,145	2,878	-11.3	-4.7	12.8	9.3
Persons engaged.....	99,312	90,758	88,476	82,109	(²)	9.4	2.6	7.8	.....
Proprietors and firm members.....	2,745	3,344	3,661	3,379	(²)	-17.9	-8.7	8.3	.....
Salaried employees.....	7,916	5,265	4,860	3,772	3,103	50.4	8.3	28.8	21.6
Wage earners (average number).....	88,651	82,149	79,955	74,958	69,914	7.9	2.7	6.7	7.2
Primary horsepower.....	547,028	487,211	459,599	343,627	259,232	12.3	6.0	33.7	32.6
Capital.....	\$419,158,006	\$233,844,434	\$202,259,592	\$143,707,750	\$114,007,715	79.2	15.6	40.7	26.1
Salaries and wages.....	111,728,199	50,522,961	43,428,798	36,680,556	28,781,411	121.1	16.3	18.4	27.4
Salaries.....	17,502,853	7,209,258	5,790,514	3,988,797	3,050,076	140.8	25.4	45.3	30.8
Wages.....	94,225,346	43,313,703	37,638,284	32,691,759	25,730,735	117.8	14.9	15.1	27.1
Paid for contract work.....	3,630,949	2,345,876	2,502,345	1,970,885	(²)	54.8	-8.4	30.0	.....
Rent and taxes.....	20,801,882	2,723,681	2,058,254	* 1,282,705	(²)	663.7	32.3	.....	.....
Cost of materials.....	254,568,523	117,654,909	97,101,224	80,042,090	61,210,327	116.4	21.2	21.3	30.8
Value of products.....	450,821,783	200,450,118	176,029,393	144,020,197	112,959,098	127.9	13.9	22.2	27.5
Value added by manufacture ⁴	202,253,200	82,795,209	78,928,169	63,978,107	51,748,771	144.3	4.9	23.4	23.6

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

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 horsepower.
		Average number.	Wages.					
The state.....	2,995	88,651	\$94,225,346	\$20,801,882	\$254,568,523	\$450,821,783	\$202,253,200	547,028
Androscoggin.....	279	14,278	13,706,282	3,633,935	40,013,255	69,362,965	29,349,710	52,712
Aroostook.....	173	2,898	2,849,694	249,707	5,895,301	11,788,140	5,892,845	12,618
Cumberland.....	518	12,214	14,039,145	1,838,234	34,065,348	61,090,668	27,051,320	66,030
Franklin.....	117	2,741	2,741,025	429,528	8,531,615	15,344,840	6,813,225	29,637
Hancock.....	156	1,328	1,145,965	108,201	3,133,908	5,441,090	2,307,128	6,465
Kennebec.....	225	9,239	9,302,277	3,191,536	30,134,505	52,736,236	22,061,731	41,342
Knox.....	177	2,733	2,614,065	280,273	6,069,996	10,740,625	4,670,629	7,994
Lincoln.....	82	635	672,516	49,801	1,336,944	2,537,351	1,200,437	2,669
Oxford.....	167	5,073	5,771,454	2,087,967	19,133,853	34,484,227	15,350,374	41,483
Penobscot.....	306	8,945	9,794,554	2,155,010	28,572,121	51,794,033	22,921,912	121,245
Piscataquis.....	65	2,091	2,495,927	615,578	4,303,149	8,974,656	4,671,507	8,388
Sagadahoc.....	69	6,184	8,357,380	886,045	10,377,888	24,070,852	13,692,964	24,555
Somerset.....	137	3,687	4,216,243	940,284	12,034,513	20,334,776	8,300,263	35,877
Waldo.....	168	1,300	1,366,043	166,389	5,911,210	8,795,865	2,884,655	5,833
Washington.....	147	3,810	3,499,760	734,450	14,680,790	22,090,383	7,409,593	33,290
York.....	204	11,495	11,653,036	3,432,854	30,074,067	57,229,034	27,154,907	56,895

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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).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	2,005	88,651	100.0	\$456,822	100.0	\$202,253	100.0	Lumber, planing-mill products, not including planing mills connected with sawmills.....	56	780	0.9	\$3,330	0.7	\$1,221	0.6
Paper and wood pulp.....	39	13,058	14.7	93,917	20.6	30,246	19.4	with sawmills.....	8	380	0.4	3,105	0.7	869	0.4
Cotton goods.....	14	11,763	13.3	56,564	12.4	27,130	13.4	Tinware, not elsewhere specified.....	130	1,041	1.2	2,328	0.5	1,726	0.9
Boots and shoes, not including rubber boots and shoes.....	30	9,919	11.2	48,059	10.5	17,830	8.8	Marble and stone work.....	11	546	0.6	2,212	0.5	661	0.3
Woolen goods.....	59	6,915	7.8	42,442	9.3	16,726	8.3	Slaughtering and meat packing.....	17	123	0.1	2,043	0.4	395	0.2
Lumber and timber products.....	627	9,794	11.0	28,515	6.2	18,046	8.9	Confectionery and ice cream.....	87	313	0.4	2,033	0.4	767	0.4
Worsted goods.....	7	2,998	3.4	17,886	3.9	7,375	3.6	Glucose and starch.....	26	255	0.3	1,752	0.4	574	0.3
Canning and preserving, fish.....	102	2,721	3.1	16,980	3.7	4,954	2.4	Gas, illuminating and heating.....	13	220	0.2	1,381	0.3	734	0.4
Shipbuilding, steel.....	6	4,485	5.1	14,004	3.1	9,080	4.5	Wooden goods, not elsewhere specified.....	14	476	0.5	1,361	0.3	688	0.3
Shipbuilding, wooden, including boat building.....	76	2,515	2.8	10,679	2.3	5,759	2.9	Furniture.....	10	292	0.3	1,289	0.3	660	0.3
Foundry and machine-shop products.....	73	2,171	2.4	9,736	2.1	5,884	2.9	Automobile repairing.....	161	400	0.5	1,277	0.3	809	0.4
Canning and preserving, fruits and vegetables.....	97	1,048	1.2	7,301	1.6	2,510	1.3	Boxes, paper and other, not elsewhere specified.....	15	443	0.5	1,240	0.3	710	0.4
Bread and other bakery products.....	180	800	0.9	7,093	1.6	3,109	1.5	Printing and publishing, book and job.....	97	380	0.4	1,194	0.3	770	0.4
Textile machinery and parts.....	10	1,732	2.0	6,135	1.3	3,518	1.7	Butter.....	10	75	0.1	1,060	0.2	362	0.2
Flour-mill and gristmill products.....	118	144	0.2	5,443	1.2	734	0.4	Carriages and wagons, including repairs.....	58	131	0.1	902	0.2	319	0.2
Cars and general shop construction and repairs by steam-railroad companies.....	16	1,721	1.9	4,744	1.0	2,087	1.5	Mineral and carbonated waters.....	47	100	0.1	818	0.2	293	0.1
Printing and publishing, newspapers and periodicals.....	69	1,154	1.3	4,561	1.0	2,680	1.3	Clothing, men's.....	14	270	0.3	808	0.2	340	0.2
Boxes, wooden packing, except cigar boxes.....	29	918	1.0	4,544	1.0	1,994	1.0	Boot and shoe findings.....	6	279	0.3	805	0.2	430	0.2
Fertilizers.....	20	174	0.2	4,055	0.9	978	0.5	Brick, sewer pipe, and drain tile.....	19	254	0.3	704	0.2	446	0.2
Wood, turned and carved.....	54	1,283	1.5	3,617	0.8	1,945	1.0	Cooperage.....	69	120	0.1	658	0.1	251	0.1
Leather, tanned, curried, and finished.....	9	300	0.4	3,359	0.7	684	0.3	Flavoring extracts.....	10	30	0.1	589	0.1	272	0.1
								Tobacco, cigars.....	52	166	0.2	555	0.1	291	0.1
								All other industries.....	431	5,949	6.7	35,718	7.8	15,446	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: "Bags, paper, exclusive of those made in paper mills"; "chewing gum"; "condensed milk"; "dyeing and finishing textiles, exclusive of that done in textile mills"; "felt goods"; "iron and steel, steel works and rolling mills"; "lime"; "paper goods, not elsewhere specified"; "pulp goods"; "toys and games"; and "wool pulling."

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL	
					Male.	Female.						Male.	Female.
All classes.....	1919	99,312	76,831	22,481	77.4	22.6	Clerks and other subordinate salaried employees.....	1919	4,686	2,499	2,187	53.3	46.7
	1914	90,758	71,040	19,718	78.3	21.7		1914	3,160	2,110	1,050	66.6	33.4
	1909	88,476	68,647	19,829	77.6	22.4		1909	2,872	1,730	1,142	60.2	39.8
Proprietors and officials.....	1919	5,975	5,802	173	97.1	2.9	Wage earners (average number).....	1919	88,651	68,530	20,121	77.3	22.7
	1914	5,440	5,308	132	97.6	2.4		1914	82,149	63,622	18,527	77.4	22.6
	1909	5,649	5,497	152	97.3	2.7		1909	79,955	61,420	18,535	76.8	23.2
Proprietors and firm members.....	1919	2,745	2,679	66	97.6	2.4	16 years of age and over.....	1919	88,269	68,293	19,976	77.4	22.6
	1914	3,344	3,246	98	97.1	2.9		1914	81,333	63,178	18,155	77.7	22.3
	1909	3,661	3,532	129	96.5	3.5		1909	78,568	60,612	17,956	77.1	22.9
Salaried officers of corporations.....	1919	1,020	976	53	94.8	5.2	Under 16 years of age.....	1919	382	237	145	62.0	38.0
	1914	725	705	20	97.2	2.8		1914	816	444	372	54.4	45.6
	1909	643	632	11	98.3	1.7		1909	1,387	808	579	58.3	41.7
Superintendents and managers.....	1919	2,201	2,147	54	97.5	2.5							
	1914	1,371	1,367	14	99.0	1.0							
	1909	1,345	1,333	12	99.1	0.9							

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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 (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age 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 1914 1909	88,651 82,149 79,955	77.0 76.9 75.8	22.5 22.1 22.5	0.4 1.0 1.7	Lumber and timber products.....	1919 1914	9,794 13,448	99.1 99.9	0.9 0.1	(?) (?)
Automobile repairing.....	1919 1914	400 239	99.2 99.6	0.8 .....	..... 0.4	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919 1914	780 643	94.2 99.7	5.4 0.2	0.4 0.2
Boots and shoes, not including rubber boots and shoes.	1919 1914	9,919 8,815	60.5 64.4	38.9 34.9	0.6 0.7	Marble and stone work.....	1919 1914	1,041 1,833	99.6 99.7	0.2 0.2	0.1
Boxes, paper and other, not elsewhere speci- fied.	1919 1914	443 288	29.3 31.6	70.0 68.4	0.7	Paper and wood pulp.....	1919 1914	13,058 10,033	94.6 94.8	5.4 5.2	.....
Boxes, wooden packing, except cigar boxes.	1919 1914	918 815	94.9 98.8	4.8 1.2	0.3	Printing and publishing, book and job.....	1919 1914	380 443	68.9 71.6	28.2 27.8	2.9 0.7
Bread and other bakery products.....	1919 1914	809 729	66.1 75.9	32.3 22.8	1.6 1.4	Printing and publishing, newspapers and periodicals.	1919 1914	1,154 1,265	56.9 54.9	42.4 42.9	0.7 2.2
Canning and preserving, fish.....	1919 1914	2,721 2,766	49.9 48.7	49.0 50.7	1.1 0.7	Shipbuilding, steel ¹	1919	4,485	99.1	0.6	0.3
Canning and preserving, fruits and vegetables	1919 1914	1,048 1,017	59.3 65.5	39.1 29.8	1.6 4.7	Shipbuilding, wooden, including boat building.	1919 1914	2,515 461	99.6 99.1	0.3 0.9	(?)
Cars and general shop construction and re- pairs by steam-railroad companies.	1919 1914	1,721 1,344	99.4 100.0	0.6 .....	.....	Shirts.....	1919 1914	546 617	18.7 17.8	81.1 81.5	0.2 0.6
Confectionery and ice cream.....	1919 1914	313 277	46.0 56.7	53.4 42.2	0.6 1.1	Tinware, not elsewhere specified ²	1919	380	71.3	28.7	.....
Cotton goods.....	1919 1914	11,763 13,834	50.9 52.1	48.3 44.8	0.8 3.1	Wood, turned and carved.....	1919 1914	1,283 1,659	87.8 90.5	12.2 9.2	..... 0.3
Foundry and machine-shop products ¹	1919 1914	3,008 2,405	97.6 98.2	2.3 1.7	(?) 0.2	Wooden goods, not elsewhere specified.....	1919 1914	476 299	67.0 77.3	32.8 21.4	0.2 1.3
Leather, tanned, curried, and finished.....	1919 1914	306 358	97.1 100.0	2.9 .....	.....	Woolen and worsted goods.....	1919 1914	9,013 7,998	64.1 64.2	35.1 33.7	0.9 2.0
	1919 1914	8,577 10,563	76.5 80.6	23.2 19.2	0.3 0.3	All other industries.....	1919 1914	8,577 10,563	76.5 80.6	23.2 19.2	0.3 0.3

¹ Includes "machine tools" and "textile machinery and parts."² Less than one-tenth of 1 per cent.³ Not shown separately in 1914.

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. ¹	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	
Auburn.....	5,850	4,811	3,452	3,641	3,326	2,292	2,205	1,466	1,070	4	19	90	\$27,852,043	\$13,839,604	\$8,842,629	
Augusta.....	2,343	2,231	2,275	1,476	1,500	1,301	838	697	939	29	34	35	11,980,239	4,917,954	4,662,174	
Bangor.....	1,153	1,200	1,327	927	1,025	1,113	225	175	211	1	—	3	5,544,940	3,557,390	3,345,717	
Bath.....	5,312			5,191			99			22			19,377,323			
Biddeford.....	4,469	5,054	5,076	3,267	3,360	3,335	1,190	1,542	1,568	12	152	173	20,634,401	9,536,381	9,011,606	
Lewiston.....	6,506	6,222	6,788	3,475	3,357	3,435	3,072	2,773	3,102	19	92	251	29,763,387	10,619,045	10,475,374	
Portland.....	5,486	5,197	4,902	4,232	4,108	3,649	1,224	1,057	1,222	30	32	31	29,167,065	14,704,879	11,950,367	
Waterville.....	2,432	2,062	1,812	1,587	1,298	958	808	698	609	37	66	245	9,966,528	4,011,771	3,178,980	

¹ Excludes Sanford, to avoid disclosure of individual operations.

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.....	84,884	82,527	76,737	86.3	93.7	89.7	July.....	89,503	78,888	76,489	91.0	89.6	89.5
February.....	79,492	82,406	77,541	80.8	93.6	90.7	August.....	94,092	79,811	78,086	95.6	90.6	91.3
March.....	78,696	81,457	77,956	80.0	92.5	91.2	September.....	98,407	88,053	85,369	100.0	100.0	99.8
April.....	78,698	79,169	77,722	80.0	89.9	90.9	October.....	97,474	87,519	85,501	99.1	99.4	100.0
May.....	85,289	83,812	81,355	86.7	95.2	95.2	November.....	95,134	83,540	84,468	96.7	94.9	98.8
June.....	87,769	80,810	79,315	89.2	91.8	92.8	December.....	94,374	77,796	78,925	95.9	88.4	92.3

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.

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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.....	88,651	84,884	79,492	78,696	78,698	85,289	87,760	80,503	94,092	98,407	97,474	95,134	94,374	80.0
Males.....	68,530	66,215	63,522	63,314	62,576	66,440	67,564	68,619	71,247	73,753	73,722	72,783	72,605	84.8
Females.....	20,121	18,669	15,970	15,382	16,122	18,849	20,205	20,884	22,845	24,654	23,752	22,351	21,769	62.4
Automobile repairing.....	400	286	204	300	375	427	485	510	510	490	427	360	336	56.1
Boots and shoes, not including rubber boots and shoes.....	9,919	9,845	9,854	9,459	8,730	8,526	8,728	8,997	9,904	10,503	11,018	11,509	11,865	71.9
Boxes, paper and other, not elsewhere specified.....	443	426	424	440	447	427	381	413	428	480	483	483	514	74.1
Boxes, wooden packing, except cigar boxes.....	918	775	740	767	759	724	747	944	1,016	1,065	1,104	1,171	1,198	60.4
Bread and other bakery products.....	809	753	728	743	780	787	802	826	831	850	875	863	883	83.2
Canning and preserving, fish.....	2,721	886	859	890	1,052	1,832	3,309	4,100	5,578	5,592	4,897	2,407	1,280	15.4
Canning and preserving, fruits and vegetables.....	1,048	191	113	80	156	118	153	237	1,823	5,146	2,579	1,313	667	1.6
Cars and general shop construction and repairs by steam-railroad companies.....	1,721	1,634	1,697	1,671	1,709	1,725	1,714	1,601	1,720	1,754	1,776	1,744	1,808	90.4
Confectionery and ice cream.....	313	260	276	293	278	297	311	346	344	332	356	335	328	73.0
Cotton goods.....	11,763	13,106	7,644	6,691	7,444	12,785	13,079	13,291	13,311	13,427	13,402	13,495	13,511	49.3
Foundry and machine-shop products.....	2,171	2,328	2,296	2,216	2,173	2,132	2,174	2,188	2,171	2,098	2,118	2,117	2,041	87.7
Leather, tanned, curried, and finished.....	306	278	286	285	286	270	270	273	319	315	351	356	374	72.2
Lumber and timber products.....	9,794	11,130	10,620	9,902	8,527	9,320	9,031	8,278	8,363	9,188	10,539	11,423	11,207	72.5
Lumber, planing-mill products, not including planing mills connected with sawmills.....	780	737	616	566	623	815	806	857	820	861	882	903	850	62.3
Marble and stone work.....	1,041	510	489	779	1,068	1,277	1,313	1,246	1,268	1,204	1,148	1,148	1,001	37.2
Paper and wood pulp.....	13,058	12,620	12,698	12,983	12,434	12,462	12,492	13,311	13,548	13,650	13,540	13,537	13,451	91.1
Printing and publishing, book and job.....	380	374	382	374	373	375	375	375	372	380	397	415	415	89.2
Printing and publishing, newspapers and periodicals.....	1,154	1,189	1,215	1,221	1,206	1,184	1,148	1,112	1,056	1,092	1,114	1,154	1,177	86.5
Shipbuilding, steel.....	4,485	4,341	4,993	5,125	4,935	4,074	4,581	4,333	4,276	3,978	3,946	4,134	4,504	77.0
Shipbuilding, wooden, including boat building.....	2,515	3,360	3,432	3,294	2,825	2,885	2,774	2,686	2,367	1,901	1,659	1,658	1,439	41.9
Shirts.....	546	496	542	561	553	544	529	521	528	540	554	578	606	81.8
Textile machinery and parts.....	1,732	1,605	1,607	1,608	1,675	1,721	1,715	1,709	1,778	1,812	1,902	1,904	1,874	84.3
Tinware, not elsewhere specified.....	380	374	382	374	373	375	375	375	372	380	397	415	415	34.0
Wood, turned and carved.....	1,283	1,232	1,273	1,350	1,395	1,347	1,318	1,265	1,250	1,191	1,231	1,235	1,300	85.4
Woolen goods, not elsewhere specified.....	476	4,902	4,693	5,222	6,757	7,273	7,548	7,723	7,603	7,546	7,816	7,639	8,168	66.2
Woolen goods.....	6,915	4,902	4,693	5,222	6,757	7,273	7,548	7,723	7,603	7,546	7,816	7,639	8,168	57.5
Worsted goods.....	2,098	2,621	2,681	2,734	2,659	2,804	3,007	3,114	3,169	3,159	3,294	3,294	3,415	76.7
All other industries.....	8,582	8,278	8,166	8,320	8,562	7,050	8,126	8,291	8,667	8,919	9,318	9,293	9,394	81.4
Industries showing large proportion of females.														
Boots and shoes, not including rubber boots and shoes.....	3,883	3,947	3,887	3,649	3,460	3,303	3,465	3,529	3,825	4,212	4,325	4,461	4,533	72.9
Boxes, paper and other, not elsewhere specified.....	313	297	313	333	328	311	294	290	309	297	330	335	349	75.6
Bread and other bakery products.....	265	243	248	243	261	254	254	270	264	279	285	285	294	82.7
Canning and preserving, fish.....	1,347	309	309	299	290	736	1,626	2,047	2,972	3,005	2,704	1,219	558	9.7
Canning and preserving, fruits and vegetables.....	416	95	41	29	78	89	28	73	713	1,819	975	605	337	1.5
Confectionery and ice cream.....	167	151	166	170	160	166	150	166	164	164	188	177	173	80.3
Cotton goods.....	5,725	6,488	3,864	3,552	3,779	6,278	6,358	6,403	6,437	6,581	6,390	6,449	6,421	50.9
Paper and wood pulp.....	699	728	696	698	673	688	699	689	780	690	699	705	687	92.2
Printing and publishing, book and job.....	110	112	107	115	108	112	104	101	104	101	110	118	128	78.0
Printing and publishing, newspapers and periodicals.....	490	521	542	546	508	501	481	454	398	425	469	495	517	70.8
Shirts.....	444	396	441	458	452	440	432	425	422	441	462	407	406	70.8
Wool, turned and carved.....	157	165	173	160	151	151	139	152	164	170	157	164	170	59.4
Woolen goods, not elsewhere specified.....	157	170	187	176	185	186	140	127	124	118	172	170	170	59.4
Woolen goods.....	2,234	1,604	1,496	1,635	2,139	2,391	2,470	2,507	2,471	2,344	2,496	2,536	2,732	54.8
Worsted goods.....	1,277	1,161	1,200	1,210	1,155	1,297	1,318	1,318	1,317	1,320	1,340	1,355	1,417	81.5
Total for cities.....	33,611	34,206	30,960	30,449	29,828	32,080	33,484	33,690	34,508	35,063	35,196	36,160	36,790	81.1
Males.....	23,901	23,084	22,559	22,283	21,748	23,497	23,936	24,032	24,675	24,560	24,592	25,227	25,720	84.6
Females.....	9,710	10,222	8,401	8,166	8,080	9,483	9,548	9,697	9,833	10,504	10,604	10,942	11,070	73.0
AUBURN.....	5,850	6,252	6,097	5,892	5,274	4,709	4,691	5,432	6,252	6,659	7,001	7,248	7,248	64.7
Males.....	3,645	3,763	3,723	3,624	3,247	2,918	2,939	3,455	3,868	4,199	4,458	4,602	4,602	63.4
Females.....	2,205	2,489	2,374	2,268	2,027	1,791	1,754	1,977	2,384	2,460	2,543	2,646	2,646	65.6
AUGUSTA.....	2,343	2,401	2,397	2,250	2,188	2,291	2,203	2,320	2,331	2,421	2,253	2,476	2,486	88.0
Males.....	1,497	1,524	1,519	1,400	1,383	1,470	1,468	1,491	1,522	1,572	1,401	1,547	1,577	87.7
Females.....	846	877	878	760	805	821	825	829	809	849	852	929	909	82.8
BANGOR.....	1,153	1,097	1,075	1,086	1,095	1,120	1,168	1,206	1,220	1,159	1,185	1,233	1,222	86.5
Males.....	928	876	876	886	894	919	955	979	1,009	921	923	950	957	85.9
Females.....	225	200	199	200	201	201	213	227	211	238	262	283	265	70.3
BATH.....	5,312	5,265	5,917	6,085	5,770	5,435	5,435	5,177	5,189	4,785	4,685	4,863	5,198	77.8
Males.....	5,212	5,145	5,794	5,912	5,603	5,334	5,343	5,085	5,102	4,688	4,594	4,774	5,110	77.7
Females.....	100	120	123	113	107	101	92	92	87	97	91	89	88	70.7
BIDDEFORD.....	4,469	5,153	1,848	1,788	1,812	5,218	5,304	5,324	5,338	5,412	5,450	5,480	5,501	32.5
Males.....	3,273	3,623	1,740	1,685	1,709	3,664	3,747	3,757	3,770	3,844	3,883	3,910	3,935	42.8
Females.....	1,196	1,530	99	103	103	1,554	1,557	1,567	1,568	1,568	1,567	1,570	1,566	6.3
LEWISTON.....	6,566	6,434	5,040	5,858	5,913	6,216	6,551	6,858	6,892	6,973	6,951	7,081	7,125	82.2
Males.....	3,485	3,330	3,138	3,076	3,140	3,266	3,508	3,689	3,737	3,755	3,722	3,722	3,742	81.9
Females.....	3,081	3,104	2,802	2,782	2,773	2,950	3,043	3,169	3,155	3,218	3,229	3,359	3,383	82.0
PORTLAND.....	5,486	5,284	5,202	5,147	5,216	5,600	5,641	5,756	5,697	5,595	5,532	5,639	5,433	89.4
Males.....	4,253	4,186	4,177	4,023	4,059	4,336	4,387	4,501	4,481	4,207	4,217	4,284	4,118	89.4
Females.....	1,233	1,098	1,115	1,124	1,157	1,264	1,254	1,255	1,216	1,328	1,315	1,355	1,315	81.0
WATERVILLE.....	2,432	2,350	2,394	2,394	2,560	2,391	2,399	2,367	2,400	2,466	2,481	2,396	2,577	91.2
Males.....	1,608	1,546	1,583	1,587	1,663	1,590	1,594	1,576	1,590	1,644	1,653	1,582	1,679	92.1
Females.....	824	804	811	807	897	801	805	791	810	822	828	814	898	88.1

¹ Excludes Sanford, to avoid disclosure of individual operations.

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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.

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	88,651	2,126	4,443	21,400	7,278	44,254	3,043	4,536	1,571
	1914	82,149	(²)	(²)	5,556	3,799	13,268	39,681	16,345	3,500
	1909	79,955	(²)	(²)	4,409	4,378	7,483	15,310	41,690	6,679
Automobile repairing.....	1919	400	2	.....	13	16	247	27	94	1
	1914	239	(²)	(²)	5	1	57	2	169	5
Boots and shoes, not including rubber boots and shoes.....	1919	9,919	.....	.....	628	2,153	7,138	.....	.....	.....
	1914	8,815	.....	.....	.....	73	461	8,020	252	.....
Boxes, paper and other, not elsewhere specified.....	1919	443	23	.....	.....	125	186	85	21	.....
	1914	288	.....	.....	.....	6	158	95	20	.....
Boxes, wooden packing, except cigar boxes.....	1919	918	.....	.....	.....	162	592	146	18	.....
	1914	815	(²)	(²)	1	8	166	352	288	.....
Bread and other bakery products.....	1919	809	14	.....	166	22	533	22	50	2
	1914	729	(²)	(²)	52	10	205	170	258	34
Canning and preserving, fish.....	1919	2,721	47	.....	195	138	774	138	1,333	96
	1914	2,766	(²)	(²)	83	61	244	42	2,335	1
Canning and preserving, fruits and vegetables.....	1919	1,048	.....	.....	14	18	785	.....	231	.....
	1914	1,017	(²)	(²)	65	.....	232	14	706	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1919	1,721	.....	.....	1,682	.....	39	.....	.....	.....
	1914	1,344	.....	.....	.....	889	343	9	103	.....
Confectionery and ice cream.....	1919	313	3	10	75	96	63	26	12	28
	1914	277	(²)	(²)	19	2	131	70	45	10
Cotton goods.....	1919	11,763	.....	.....	.....	.....	11,763	.....	.....	.....
	1914	13,834	.....	.....	.....	.....	.....	13,834	.....	.....
Foundry and machine-shop products ³	1919	3,908	498	.....	1,624	674	1,109	1	2	.....
	1914	2,405	(²)	(²)	6	23	942	1,203	171	.....
Leather, tanned, curried, and finished.....	1919	306	.....	.....	.....	15	175	59	57	.....
	1914	358	.....	.....	.....	.....	1	308	49	.....
Lumber and timber products.....	1919	9,794	63	20	131	138	5,110	1,463	2,246	623
	1914	13,448	(²)	(²)	70	141	1,262	1,532	7,995	2,439
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	780	153	.....	195	133	255	43	.....	1
	1914	643	(²)	(²)	40	17	442	86	40	.....
Marble and stone work.....	1919	1,041	318	.....	516	3	186	.....	.....	18
	1914	1,833	(²)	(²)	1,451	3	319	1	59	.....
Paper and wood pulp.....	1919	13,058	.....	.....	8,694	700	3,549	.....	.....	115
	1914	10,033	(²)	(²)	1,666	1,677	3,753	2,221	12	704
Printing and publishing, book and job.....	1919	380	1	4	287	28	58	1	.....	1
	1914	443	(²)	(²)	199	95	139	4	6	.....
Printing and publishing, newspapers and periodicals.....	1919	1,154	13	4	987	30	106	7	.....	7
	1914	1,265	(²)	(²)	423	111	645	61	25	.....
Shipbuilding, steel ⁴	1919	4,485	37	4,317	119	.....	12	.....	.....	.....
Shipbuilding, wooden, including boat building.....	1919	2,515	544	.....	1,175	233	380	183	.....	.....
	1914	461	(²)	(²)	14	13	199	60	175	.....
Shirts.....	1919	546	1	.....	40	362	143	.....	.....	.....
	1914	617	.....	.....	.....	43	382	192	.....	.....
Tinware, not elsewhere specified ⁴	1919	380	.....	.....	3	78	208	.....	.....	1
Wood, turned and carved.....	1919	1,283	.....	.....	.....	44	908	291	.....	40
	1914	1,659	(²)	(²)	5	47	43	1,049	515	.....
Wooden goods, not elsewhere specified.....	1919	476	.....	.....	31	7	184	46	.....	208
	1914	299	.....	.....	.....	1	136	125	37	.....
Woolen and worsted goods.....	1919	9,013	.....	.....	3,623	.....	6,287	.....	3	.....
	1914	7,998	.....	.....	.....	.....	166	7,374	458	.....
All other industries.....	1919	8,577	409	88	1,202	2,103	3,374	505	466	430
	1914	10,563	(²)	(²)	1,439	578	2,842	2,788	2,009	307
Total for cities ⁵	1919	33,611	1,167	4,413	5,933	2,827	18,308	563	127	213
	1914	26,777	(²)	(²)	1,205	1,417	4,006	18,470	1,476	113
AUBURN.....	1919	5,850	22	.....	128	29	5,605	65	1	.....
	1914	4,811	(²)	(²)	39	4	222	4,480	61	5
AUGUSTA.....	1919	2,343	1	.....	1,179	165	770	211	.....	8
	1914	2,231	(²)	(²)	55	22	777	1,050	317	10
BANGOR.....	1919	1,153	24	36	314	240	443	21	47	28
	1914	1,200	(²)	(²)	165	185	460	242	128	20
BATH ⁴	1919	5,312	539	4,317	222	76	156	.....	.....	2
BIDDEFORD.....	1919	4,469	13	9	1,574	243	2,584	32	.....	14
	1914	5,054	(²)	(²)	60	71	48	4,628	243	4
LEWISTON.....	1919	6,586	25	.....	243	393	5,829	11	24	41
	1914	6,222	(²)	(²)	183	21	421	5,414	127	56
PORTLAND.....	1919	5,486	543	23	1,223	1,661	1,661	223	33	119
	1914	5,197	(²)	(²)	614	736	1,963	1,310	559	15
WATERVILLE.....	1919	2,432	.....	28	1,050	20	1,311	.....	22	1
	1914	2,062	(²)	(²)	179	378	115	1,346	41	3

¹ Includes 48 and under for 1914 and 1909.² Corresponding figures not available.³ Includes "machine tools" and "textile machinery and parts."⁴ Not shown separately in 1914.⁵ Excludes Sanford, to avoid disclosure of individual operations.

MANUFACTURES—MAINE.

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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.	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.....	2,995	88,651	330	1,583	3,288	527	5,684	253	8,178	127	9,310	118	18,702	28	9,898	13	8,776	10	24,815
Automobile repairing.....	161	400	10	132	249	19	151	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boots and shoes, not including rubber boots and shoes.....	39	9,910	.....	2	3	4	32	1	22	7	573	16	2,894	4	1,454	2	1,281	3	3,680
Boxes, paper and other, not elsewhere specified.....	15	443	.....	1	3	6	80	5	121	3	239	.....	.....	.....	.....	.....	.....	.....	.....
Boxes, wooden packing, except cigar boxes.....	29	918	1	5	8	8	113	9	285	4	299	2	213	.....	.....	.....	.....	.....	.....
Bread and other bakery products.....	180	809	19	139	309	17	158	3	98	1	77	1	167	.....	.....	.....	.....	.....	.....
Canning and preserving, fish.....	102	2,721	2	32	76	23	283	32	1,086	10	733	3	543	.....	.....	.....	.....	.....	.....
Canning and preserving, fruits and vegetables.....	97	1,048	.....	37	137	44	448	16	468	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	16	1,721	.....	1	4	4	43	5	149	1	61	2	337	3	1,127	.....	.....	.....	.....
Confectionery and ice cream.....	87	813	9	66	131	9	93	3	89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cotton goods.....	14	11,793	.....	.....	.....	.....	.....	.....	.....	1	52	3	527	.....	.....	6	4,137	4	7,047
Foundry and machine-shop products.....	73	2,171	11	31	71	15	180	8	245	4	308	1	188	3	1,179	.....	.....	.....	.....
Leather, tanned, curried, and finished.....	9	306	.....	.....	.....	3	39	3	82	3	185	.....	.....	.....	.....	.....	.....	.....	.....
Lumber and timber products.....	627	9,794	9	352	774	174	1,991	54	1,741	20	1,404	15	2,800	3	1,684	.....	.....	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.....	56	780	8	30	66	8	95	6	219	2	114	2	286	.....	.....	.....	.....	.....	.....
Marble and stone work.....	130	1,041	29	76	142	16	167	2	79	4	281	3	372	.....	.....	.....	.....	.....	.....
Paper and wood pulp.....	39	13,058	.....	.....	.....	4	57	3	94	8	617	10	1,671	6	2,004	4	2,852	4	5,763
Printing and publishing, book and job.....	97	380	36	43	90	11	96	7	194	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Printing and publishing, newspapers and periodicals.....	60	1,154	5	35	107	17	136	4	136	6	386	2	389	.....	.....	.....	.....	.....	.....
Shipbuilding, steel.....	6	4,485	.....	.....	.....	1	13	2	64	1	92	.....	.....	.....	.....	.....	.....	2	4,316
Shipbuilding, wooden, including boat building.....	76	2,515	14	31	45	6	81	8	281	8	656	7	933	2	519	.....	.....	.....	.....
Shirts.....	11	546	.....	3	8	3	47	3	102	.....	.....	1	131	1	258	.....	.....	.....	.....
Textile machinery and parts.....	10	1,732	2	3	7	1	7	.....	.....	2	160	1	116	.....	.....	.....	.....	1	1,442
Tinware, not elsewhere specified.....	8	380	.....	4	6	.....	.....	1	24	1	78	2	272	.....	.....	.....	.....	.....	.....
Wood, turned and carved.....	54	1,283	.....	18	53	15	173	13	449	7	504	1	104	.....	.....	.....	.....	.....	.....
Wooden goods, not elsewhere specified.....	14	476	1	2	6	3	38	6	193	1	58	1	181	.....	.....	.....	.....	.....	.....
Woolen goods.....	50	9,915	1	4	8	5	52	4	144	14	1,194	27	3,977	3	1,034	1	506	.....	.....
Worsted goods.....	7	2,998	.....	.....	.....	1	20	.....	.....	1	51	3	340	.....	.....	.....	.....	2	2,587
All other industries.....	910	8,582	173	536	985	110	1,091	55	1,818	18	1,188	15	2,261	3	1,239	.....	.....	.....	.....
Total for cities ¹	777	33,611	66	413	962	142	1,449	68	2,261	38	2,778	27	4,350	9	3,466	5	3,554	9	14,791
AUBURN.....	74	5,850	7	37	85	8	94	7	202	7	539	4	807	1	463	.....	.....	3	3,660
AUGUSTA.....	44	2,343	3	23	42	6	82	1	43	1	60	4	718	2	684	1	714	.....	.....
BANGOR.....	100	1,153	9	64	157	12	123	10	526	5	347	.....	.....	.....	.....	.....	.....	.....	.....
BATH.....	38	5,312	3	21	53	3	40	3	92	5	377	.....	.....	1	433	.....	.....	2	4,317
BIDDEFORD.....	49	4,469	7	28	60	7	66	2	68	1	97	2	245	.....	.....	.....	.....	2	3,033
LEWISTON.....	109	6,506	11	52	105	26	266	4	131	5	342	5	732	2	720	2	1,389	2	2,881
PORTLAND.....	308	5,486	20	164	414	68	684	31	1,089	12	860	11	1,717	2	713	.....	.....	.....	.....
WATERTOWN.....	40	2,432	6	24	46	9	94	4	110	2	147	1	131	1	463	2	1,451	.....	.....

¹ Excludes Sanford, to avoid disclosure of individual operations.

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.....	2,995	3,378	3,546	88,651	82,149	79,955	\$460,821,783	\$200,450,118	\$176,029,393	\$202,253,260	\$82,795,200	\$78,928,100
Less than \$5,000.....	880	1,371	1,451	645	1,843	2,178	2,049,050	3,268,727	3,286,165	1,258,842	2,072,857	2,098,923
\$5,000 to \$20,000.....	921	1,110	1,194	2,920	6,011	6,919	9,818,256	11,882,433	12,260,059	5,257,536	6,027,037	6,526,395
\$20,000 to \$100,000.....	698	509	610	8,364	12,443	13,308	31,874,857	24,833,858	26,688,857	15,192,551	11,454,947	12,849,097
\$100,000 to \$500,000.....	311	244	200	16,369	31,889	32,908	69,470,529	52,228,727	70,542,507	31,499,590	31,997,530	32,216,172
\$500,000 to \$1,000,000.....	84	42		10,497			50,168,310	20,331,152		25,650,628		
\$1,000,000 and over.....	101	33	25	49,820	29,906	24,552	284,431,781	79,405,221	57,250,005	123,304,113	31,242,838	25,237,582
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.....	29.4	40.6	40.9	0.7	2.2	2.7	0.4	1.6	1.9	0.6	2.5	2.7
\$5,000 to \$20,000.....	30.8	33.1	33.7	3.3	7.3	8.7	2.1	5.7	7.0	2.6	7.3	8.3
\$20,000 to \$100,000.....	23.3	16.8	17.2	9.4	15.1	16.6	7.0	12.4	15.2	7.5	13.8	16.3
\$100,000 to \$500,000.....	10.4	7.2		18.6	38.8	41.3	15.2	26.1	43.5	15.6	38.6	40.8
\$500,000 to \$1,000,000.....	2.8	1.2		11.8			13.0	14.6		12.7		
\$1,000,000 and over.....	3.4	1.0	0.7	56.2	36.5	30.7	62.3	39.6	32.5	61.0	37.7	32.0

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.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES.	39	50	100.0	100.0	9,919	8,815	100.0	100.0	\$48,059,388	\$22,836,073	100.0	100.0	\$17,839,487	\$8,093,474	100.0	100.0
Less than \$5,000	3	3	7.7	6.0	13	2	0.1	0.1	3,500	3,500	0.1	0.1	1,794	1,794	0.1	0.1
\$5,000 to \$20,000	23	11	58.5	22.0	79	79	0.8	0.9	119,808	119,808	0.2	0.5	13,341	51,558	0.1	0.6
\$20,000 to \$100,000	3	19	7.7	20.0	44	294	0.4	3.3	170,893	607,366	0.4	2.7	79,097	225,085	0.4	2.8
\$100,000 to \$500,000	11	14	28.2	28.0	1,054	2,838	10.6	32.2	3,758,075	3,025,288	7.8	15.9	1,399,110	2,670,654	7.8	33.0
\$500,000 to \$1,000,000	6	5	15.4	10.0	960	960	9.7	10.7	4,591,080	3,029,403	9.6	17.2	1,714,839	1,714,839	9.6	9.6
\$1,000,000 and over	10	7	41.0	14.0	7,848	5,002	79.1	63.6	39,506,449	14,550,702	82.2	63.7	14,633,000	6,144,383	82.0	63.6
BREAD AND OTHER BAKERY PRODUCTS.	180	202	100.0	100.0	809	729	100.0	100.0	7,092,735	2,626,106	100.0	100.0	3,108,729	1,069,198	100.0	100.0
Less than \$5,000	25	69	13.9	34.2	11	67	1.4	9.2	64,936	204,846	0.9	7.8	24,397	93,668	0.8	8.8
\$5,000 to \$20,000	98	112	54.4	55.4	177	311	21.9	42.7	1,178,665	1,087,972	16.6	41.4	395,431	470,109	12.7	44.5
\$20,000 to \$100,000	47	18	26.1	8.9	228	146	28.2	20.0	1,795,956	593,438	25.3	22.6	538,500	212,871	17.3	19.9
\$100,000 to \$500,000	6	3	3.3	1.5	103	205	12.7	28.1	901,578	739,850	12.7	28.2	287,141	287,050	8.6	26.8
\$500,000 and over	4	2	2.2	0.9	290	290	35.8	35.8	3,151,600	3,151,600	44.4	44.4	1,883,260	1,883,260	60.6	60.6
CANNING AND PRESERVING, FISH.	102	95	100.0	100.0	2,721	2,766	100.0	100.0	16,980,400	7,656,425	100.0	100.0	4,954,201	2,336,916	100.0	100.0
Less than \$5,000	12	19	11.8	20.0	18	44	0.7	1.6	33,965	39,084	0.2	0.5	18,876	17,013	0.4	0.8
\$5,000 to \$20,000	21	29	20.6	30.5	72	223	2.6	8.1	234,122	358,630	1.4	4.7	113,658	138,761	2.3	5.9
\$20,000 to \$100,000	26	22	25.5	23.2	399	539	14.7	19.5	1,246,142	1,163,517	7.3	15.2	470,780	379,773	9.5	16.1
\$100,000 to \$500,000	33	21	32.4	22.1	1,238	1,900	45.5	70.9	7,399,047	3,700,130	43.6	48.3	2,507,937	1,804,469	50.6	77.2
\$500,000 to \$1,000,000	7	4	6.9	4.2	451	451	16.6	16.6	4,146,383	2,305,064	24.4	31.3	940,129	940,129	19.0	19.0
\$1,000,000 and over	3	2	2.9	0.9	543	543	20.0	20.0	3,920,741	3,920,741	23.1	23.1	902,821	902,821	18.2	18.2
CANNING AND PRESERVING, FRUITS AND VEGETABLES.	97	76	100.0	100.0	1,048	1,017	100.0	100.0	7,301,237	2,825,252	100.0	100.0	2,540,221	918,700	100.0	100.0
Less than \$5,000	5	9	5.2	11.8	5	27	0.5	2.7	13,574	23,034	0.2	0.8	9,101	7,112	0.4	0.8
\$5,000 to \$20,000	6	25	6.2	32.9	20	141	2.5	13.9	82,745	299,538	1.1	10.6	36,103	90,540	1.4	9.9
\$20,000 to \$100,000	67	35	69.1	46.1	533	406	50.9	39.9	3,540,183	1,131,280	48.5	40.0	1,003,618	368,174	43.1	40.1
\$100,000 to \$500,000	19	7	19.6	9.2	484	443	46.2	43.6	3,664,785	1,371,400	50.2	48.5	1,401,309	452,874	55.2	49.3
FLOUR-MILL AND GRISTMILL PRODUCTS.	118	148	100.0	100.0	144	217	100.0	100.0	5,442,728	4,425,824	100.0	100.0	733,556	466,644	100.0	100.0
Less than \$5,000	8	16	6.8	10.8	1	6	0.7	2.8	24,330	46,613	0.4	1.1	3,077	5,848	0.4	1.3
\$5,000 to \$20,000	43	80	36.4	54.1	22	76	15.3	35.0	576,695	857,371	10.6	19.4	89,225	114,120	12.2	24.5
\$20,000 to \$100,000	55	45	46.6	30.4	78	109	54.2	50.2	2,439,969	2,060,981	44.8	46.6	367,033	227,366	50.0	48.7
\$100,000 to \$500,000	12	7	10.2	4.7	43	26	29.9	12.0	2,401,734	1,460,909	44.1	33.0	274,221	119,310	37.4	25.6
FOUNDRY AND MACHINE-SHOP PRODUCTS.	86	91	100.0	100.0	3,908	2,405	100.0	100.0	15,885,994	4,691,369	100.0	100.0	0,412,441	2,498,470	100.0	100.0
Less than \$5,000	28	38	32.6	41.8	22	45	0.6	1.9	71,939	80,798	0.5	1.7	45,671	58,000	0.5	2.3
\$5,000 to \$20,000	20	27	23.3	29.7	56	128	1.4	5.3	182,136	250,672	1.1	5.3	113,478	177,649	1.2	7.1
\$20,000 to \$100,000	22	17	25.6	18.7	291	341	7.4	14.2	1,034,896	583,812	6.5	12.4	608,309	335,902	6.5	13.4
\$100,000 to \$500,000	10	6	11.6	6.6	614	1,891	15.7	78.6	2,283,234	1,098,516	14.4	23.4	1,360,208	1,926,319	14.5	77.1
\$500,000 and over	6	3	7.0	3.3	2,925	2,925	74.8	74.8	12,313,789	2,677,571	77.5	57.1	7,284,775	7,284,775	77.4	77.4
LUMBER AND TIMBER PRODUCTS.	627	842	100.0	100.0	9,704	13,448	100.0	100.0	28,515,271	22,397,865	100.0	100.0	18,045,815	12,233,214	100.0	100.0
Less than \$5,000	179	367	28.5	43.6	195	752	2.0	5.6	422,903	901,296	1.5	4.0	206,355	627,379	1.6	5.1
\$5,000 to \$20,000	215	289	34.3	34.3	950	2,209	9.7	16.4	2,292,001	3,007,904	8.0	13.4	1,477,942	1,979,356	8.2	16.2
\$20,000 to \$100,000	173	140	27.6	16.6	2,833	4,280	28.9	31.8	7,595,746	5,876,330	26.6	26.2	5,031,102	3,565,378	27.9	29.1
\$100,000 to \$500,000	51	41	8.1	4.9	3,578	5,207	36.5	46.2	11,058,778	8,151,234	38.8	36.4	6,400,531	6,061,101	35.5	49.6
\$500,000 and over	9	5	1.4	0.6	2,238	2,238	22.9	22.9	7,145,843	4,461,101	25.1	19.9	4,839,885	4,839,885	26.8	26.8
PAPER AND WOOD PULP.	39	38	100.0	100.0	13,058	10,033	100.0	100.0	93,916,628	40,179,744	100.0	100.0	39,246,040	14,721,777	100.0	100.0
\$20,000 to \$100,000	6	7	15.4	18.4	109	132	0.8	1.3	381,974	528,817	0.4	0.7	148,835	122,593	0.4	0.8
\$100,000 to \$500,000	6	12	15.4	31.6	394	3,136	3.0	31.3	1,797,002	3,046,923	1.9	7.6	770,564	3,701,590	2.0	25.1
\$500,000 to \$1,000,000	6	11	15.4	28.9	634	634	4.9	6.3	4,714,450	8,052,936	5.0	20.0	1,492,802	3,835,902	3.8	38.8
\$1,000,000 and over	21	8	53.8	21.1	11,921	6,765	91.3	67.4	87,023,202	28,791,008	92.7	71.7	36,833,839	10,897,594	93.9	74.0
SHIPBUILDING, WOODEN, INCLUDING BOAT BUILDING.	76	105	100.0	100.0	2,515	461	100.0	100.0	10,678,547	1,192,866	100.0	100.0	5,758,919	546,769	100.0	100.0
Less than \$5,000	33	76	43.4	72.4	15	50	0.6	10.8	77,662	131,021	0.7	11.0	47,253	86,413	0.8	15.8
\$5,000 to \$20,000	11	20	14.5	19.0	25	125	1.0	27.1	91,217	205,983	0.9	17.3	61,183	128,762	1.1	23.5
\$20,000 to \$100,000	7	7	9.2	8.6	104	728	4.1	62.0	296,238	785,862	2.8	71.7	145,507	733,594	2.5	60.6
\$100,000 to \$500,000	19	19	25.0	25.0	1,350	1,350	54.0	54.0	5,301,078	5,301,078	49.6	49.6	3,000,013	3,000,013	52.2	52.2
\$500,000 and over	6	6	7.9	7.9	1,012	1,012	40.2	40.2	4,012,352	4,012,352	46.0	46.0	2,498,963	2,498,963	43.4	43.4
WOOLEN AND WORSTED GOODS.	66	57	100.0	100.0	9,913	7,998	100.0	100.0	60,327,260	17,531,470	100.0	100.0	24,100,502	6,708,354	100.0	100.0
Less than \$20,000	6	5	9.1	8.8	20	32	0.2	0.4	44,123	40,046	0.1	0.2	25,951	16,781	0.1	0.3
\$20,000 to \$100,000	7	6	10.6	10.5	115	319	1.2	4.0	323,720	398,656	0.5	2.3	127,866	98,479	0.5	1.5
\$100,000 to \$500,000	9	40	13.6	70.2	658	7,047	6.6	95.6	2,663,256	9,188,600	4.4	52.4	1,124,631	6,692,004	4.7	98.3
\$500,000 to \$1,000,000	26	8	39.4	10.5	3,052	3,052	30.8	30.8	18,765,849	7,904,168	31.1	45.1	6,884,370	6,884,370	28.6	28.6
\$1,000,000 and over	18	18	27.3	27.3	6,068	6,068	61.2	61.2	38,530,312	38,530,312	63.9	63.9	15,937,684	15,937,684	66.1	66.1

1 Less than one-tenth of 1 per cent.

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

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

4 Includes "machine tools" and "textile machinery and parts."

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

6 Includes the group "\$5,000 to \$20,000."

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

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

MANUFACTURES—MAINE.

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

CITY AND VALUE OF PRODUCT. ¹	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT. ¹	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.
AUBURN.....	74	5,850	100.0	\$27,852,043	100.0	\$12,245,235	100.0	BIDDEFORD.....	49	4,460	100.0	\$20,634,401	100.0	\$9,582,501	100.0
Less than \$5,000.....	17	10	0.2	58,820	0.2	36,318	0.3	Less than \$5,000.....	14	8	0.2	37,345	0.2	22,290	0.2
\$5,000 to \$20,000.....	16	50	0.9	209,276	0.8	118,449	1.0	\$5,000 to \$20,000.....	15	36	0.8	175,840	0.9	75,877	0.8
\$20,000 to \$100,000.....	20	194	3.3	1,065,528	3.8	466,041	3.8	\$20,000 to \$100,000.....	12	69	1.5	427,531	2.1	191,826	2.0
\$100,000 to \$500,000.....	12	605	10.3	3,291,883	11.8	1,351,220	11.0	\$100,000 and over.....	8	4,356	97.5	19,993,085	96.9	9,292,508	97.0
\$1,000,000 and over.....	9	4,901	85.3	23,220,527	83.4	10,273,207	83.9	LEWISTON.....	109	6,566	100.0	20,763,387	100.0	13,116,737	100.0
AUGUSTA.....	44	2,343	100.0	11,980,239	100.0	5,352,581	100.0	Less than \$5,000.....	22	16	0.2	51,807	0.2	22,081	0.2
Less than \$5,000.....	10	7	0.3	21,777	0.2	12,944	0.2	\$5,000 to \$20,000.....	35	88	1.3	413,739	1.4	237,898	1.8
\$5,000 to \$20,000.....	19	62	2.6	238,989	2.0	113,163	2.1	\$20,000 to \$100,000.....	30	308	4.7	1,344,401	4.5	574,291	4.4
\$20,000 to \$100,000.....	6	56	2.4	233,100	1.9	116,262	2.2	\$100,000 to \$500,000.....	11	517	7.9	2,569,102	8.6	1,056,316	8.1
\$100,000 to \$500,000.....	4	429	18.3	1,502,096	12.5	773,217	14.4	\$500,000 to \$1,000,000.....	4	487	7.4	2,612,087	8.8	889,730	6.8
\$1,000,000 and over.....	5	1,789	76.4	9,084,277	83.3	4,337,395	81.0	\$1,000,000 and over.....	7	5,150	78.4	22,772,191	76.5	10,336,421	78.8
BANGOR.....	106	1,153	100.0	5,644,940	100.0	2,258,479	100.0	PORTLAND.....	308	5,489	100.0	29,167,965	100.0	13,577,522	100.0
Less than \$5,000.....	20	16	1.4	43,869	0.8	23,091	1.1	Less than \$5,000.....	57	51	0.9	137,306	0.5	91,911	0.7
\$5,000 to \$20,000.....	45	130	11.3	480,458	8.7	244,389	10.8	\$5,000 to \$20,000.....	109	354	6.5	1,189,043	4.1	628,093	4.6
\$20,000 to \$100,000.....	24	289	25.1	1,225,337	22.1	591,570	26.2	\$20,000 to \$100,000.....	85	872	15.9	3,598,378	12.0	1,783,832	13.1
\$100,000 to \$500,000.....	17	718	62.3	3,705,276	68.4	1,398,559	61.9	\$100,000 to \$500,000.....	40	1,707	31.1	8,763,418	30.0	3,718,323	27.4
\$1,000,000 and over.....	8	406	8.8	2,016,528	15.1	1,383,642	11.3	\$500,000 to \$1,000,000.....	12	1,305	23.8	8,672,744	29.7	4,072,395	30.0
BATH.....	38	5,312	100.0	19,377,323	100.0	12,238,086	100.0	\$1,000,000 and over.....	5	1,197	21.8	6,897,076	23.0	3,288,058	24.2
Less than \$5,000.....	8	4	0.1	19,885	0.1	8,655	0.1	WATERVILLE.....	49	2,432	100.0	9,966,528	100.0	4,521,568	100.0
\$5,000 to \$20,000.....	9	21	0.4	105,046	0.5	53,503	0.4	Less than \$5,000.....	16	11	0.5	46,718	0.5	28,712	0.6
\$20,000 to \$100,000.....	10	71	1.3	480,374	2.5	217,338	1.8	\$5,000 to \$20,000.....	9	21	0.9	38,541	0.9	40,645	0.9
\$100,000 to \$500,000.....	3	406	8.8	2,016,528	15.1	1,383,642	11.3	\$20,000 to \$100,000.....	16	220	9.0	681,132	6.8	272,604	6.0
\$1,000,000 and over.....	3	4,750	89.4	15,849,490	81.8	10,574,888	86.4	\$100,000 to \$500,000.....	4	248	10.2	912,017	9.2	387,545	8.6
								\$1,000,000 and over.....	4	1,932	79.4	8,239,220	82.7	3,792,087	83.0

¹ Excludes Sanford, to avoid disclosure of individual operations.² Includes the group "\$500,000 to \$1,000,000."

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

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi-vid-u-als. Cor-pora-tions. All oth-ers.			Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.				
All industries.	1919	1,550	894	551	88,051	6,215	78,042	3,794	7.0	88.7	4.3	\$456,821,783	\$20,278,873	\$410,003,137	\$17,539,773	6.4	89.8	3.8				
	1914	1,844	829	655	82,149	8,521	66,638	6,990	10.4	81.1	8.5	200,450,118	19,292,277	105,119,855	16,037,986	9.6	82.4	8.0				
	1909	1,923	861	702	79,955	9,570	61,340	9,036	12.0	76.7	11.3	176,020,393	18,904,839	136,156,275	20,968,279	10.7	77.3	11.9				
Boots and shoes, not including rubber boots and shoes.	1919	3	33	3	9,910	.....	9,354	1,565	.....	94.3	5.6	48,050,388	.....	45,311,436	12,747,952	.....	94.3	5.7
	1914	0	38	0	8,815	36	8,287	522	0.4	93.7	5.9	22,830,073	143,356	20,912,085	1,780,632	0.6	91.6	7.8				
Bread and other bakery products.	1919	134	9	37	809	509	212	88	62.9	26.2	10.9	7,092,735	4,585,628	1,832,448	674,659	64.7	25.8	9.5				
	1914	102	7	33	729	401	229	99	55.0	31.4	13.6	2,620,106	1,441,766	822,193	302,247	54.9	31.3	13.8				
Canning and preserving, fish.	1919	29	57	10	2,721	251	2,304	166	9.2	84.7	6.1	16,980,400	1,727,404	14,446,988	806,008	10.2	85.1	4.7				
	1914	34	42	19	2,796	283	2,304	179	10.2	83.3	6.5	7,650,425	630,005	6,640,716	385,044	8.2	86.7	5.0				
Canning and preserving, fruits and vegetables.	1919	15	56	26	1,048	98	736	214	9.4	70.2	20.4	7,301,237	667,817	5,188,791	1,447,629	9.1	71.0	19.8				
	1914	20	23	33	1,017	117	653	247	11.5	64.2	24.3	2,825,252	323,070	1,802,750	699,432	11.4	63.8	24.8				
Cotton goods.....	1919	.....	14	.....	11,763	.....	11,763	.....	100.0	.....	.....	56,563,825	.....	56,563,825	.....	.....	100.0	.....			
	1914	.....	15	.....	13,834	.....	13,834	.....	100.0	.....	.....	22,121,711	.....	22,121,711	.....	.....	100.0	.....			
Flour-mill and grist-mill products.	1919	52	33	33	144	50	60	25	34.7	47.9	17.4	5,442,728	1,650,232	2,751,484	1,041,012	30.3	50.6	19.1				
	1914	73	20	49	217	88	71	58	40.6	32.7	26.7	4,425,824	1,273,080	2,233,900	918,748	28.8	50.5	20.8				
Foundry and machine-shop products. ¹	1919	44	27	15	3,908	175	3,040	87	4.5	93.3	2.2	15,885,994	603,135	14,065,906	256,953	4.2	94.2	1.6				
	1914	49	30	12	2,405	163	2,197	45	6.8	91.4	1.9	4,691,369	273,849	4,319,284	98,236	5.8	92.1	2.1				
Lumber and timber products.	1919	372	104	151	9,704	2,315	6,097	1,382	23.6	62.3	14.1	28,515,271	6,228,857	18,304,314	3,982,100	21.8	64.2	14.0				
	1914	530	93	219	13,448	4,081	6,595	2,772	30.3	49.0	20.6	22,397,895	5,806,627	13,022,184	3,569,054	25.9	58.1	15.9				
Paper and wood pulp.	1919	1	35	3	13,058	.....	12,845	1,213	.....	98.4	1.6	93,916,628	.....	92,703,098	1,213,530	.....	98.7	1.3
	1914	1	32	5	10,033	.....	8,680	1,353	.....	83.5	13.5	40,179,744	.....	35,734,335	1,445,409	.....	88.9	11.1
Ship building, wooden, including boat building.	1919	37	27	12	2,515	180	2,306	20	7.2	91.7	1.2	10,078,547	730,378	9,814,563	133,606	6.8	91.9	1.3				
	1914	75	11	19	461	95	232	134	20.6	50.3	29.1	1,192,860	190,833	717,544	284,489	16.0	60.2	23.8				
Woolen and worsted goods.	1919	8	57	1	9,913	236	9,677	.....	2.4	97.6	.....	60,327,260	861,274	59,465,986	.....	1.4	98.6	.....			
	1914	3	50	4	7,998	13	7,748	237	0.2	96.9	3.0	17,531,470	25,075	10,994,767	511,628	0.1	99.9	2.9				

¹ Includes the group "Individuals."² Includes "machine tools" and "textile machinery and parts."³ Includes the group "All others."

MANUFACTURES—MAINE.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
Total for cities ¹	1919 1914	360 370	306 271	111 108	33,611 26,777	1,457 1,270	31,723 24,651	431 856	4.3 4.7	94.4 92.1	1.3 3.2	\$154,286,826 61,187,024	\$9,859,802 4,434,804	\$141,924,335 54,094,208	\$2,502,689 2,657,952	6.4 7.2	92.0 88.4	1.6 4.3				
AUBURN	1919 1914	29 44	30 30	15 10	5,850 4,811	129 132	5,653 4,460	68 229	2.2 2.7	96.6 92.5	1.2 4.8	27,852,043 13,839,004	1,607,868 1,008,421	25,889,254 11,783,206	354,921 1,047,977	5.8 7.3	93.0 85.1	1.3 7.6				
AUGUSTA	1919 1914	20 15	12 17	12 7	2,343 2,231	40 48	2,241 2,156	62 27	1.7 2.2	95.6 96.6	2.6 1.2	11,980,239 4,917,954	169,371 95,598	11,592,696 4,728,225	218,172 94,131	1.4 1.9	96.8 96.1	1.7 1.9				
BANGOR	1919 1914	47 62	41 41	18 19	1,153 1,200	159 245	940 872	54 83	13.8 20.4	81.5 72.7	4.7 6.9	5,544,940 3,557,390	622,892 774,648	4,597,394 2,520,980	324,054 261,702	11.2 21.8	82.9 70.9	5.9 7.4				
BATH	1919	16	15	7	5,312	69	5,189	54	1.3	97.7	1.0	19,377,323	440,390	18,348,138	588,795	2.3	94.7	3.0				
BIDDEFORD	1919 1914	30 40	13 10	6 15	4,469 5,054	83 129	4,372 4,894	14 41	1.9 2.6	97.8 96.6	0.3 0.8	20,634,401 9,536,381	495,010 261,931	20,036,148 9,163,940	103,243 110,510	2.4 2.7	97.1 96.1	0.5 1.2				
LEWISTON	1919 1914	60 58	34 24	15 16	6,566 6,222	404 221	6,121 5,733	41 268	6.2 3.6	93.2 92.1	0.6 4.3	29,763,387 10,619,045	1,921,111 496,186	27,613,293 9,577,511	228,983 545,348	6.5 4.7	92.8 90.2	0.8 5.1				
PORTLAND	1919 1914	130 127	144 132	34 37	5,486 5,197	480 415	4,874 4,631	132 201	8.7 8.0	88.8 88.1	2.4 3.9	29,167,965 14,704,879	4,130,879 1,500,201	24,386,989 12,623,292	650,097 581,386	14.2 10.2	83.6 85.8	2.2 4.0				
WATERTOWN	1919 1914	28 24	17 17	4 4	2,432 2,062	93 80	2,333 1,975	6 7	3.8 3.9	95.9 95.8	0.2 0.3	9,966,528 4,011,771	472,281 297,819	9,460,423 3,697,114	33,824 16,838	4.7 7.4	94.9 92.2	0.3 0.4				

¹ Excludes Sanford, to avoid disclosure of individual operations.

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. ¹	
			Total.		10,000 to 25,000.		25,000 to 100,000.		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 1914 1909	..... ..... .....	8 7 7	..... ..... .....	5 4 5	..... ..... .....	3 3 2	...............	...............	...............
Population ²	1920 1915 1910	768,014 762,787 742,371	204,230 175,127 166,433	26.6 23.0 22.4	77,189 59,600 81,615	10.1 7.8 11.0	127,041 115,527 84,818	16.5 15.1 11.4	563,784 587,660 575,938	73.4 77.0 77.6
Number of establishments.....	1919 1914 1909	2,995 3,378 3,546	777 749 675	25.9 22.2 19.0	254 233 321	8.5 6.9 9.1	523 510 354	17.5 15.3 10.0	2,218 2,629 2,871	74.1 77.8 81.0
Average number of wage earners.....	1919 1914 1909	88,651 82,149 79,955	33,611 26,777 25,632	37.9 32.6 32.1	20,406 14,158 13,942	23.0 17.2 17.4	13,205 12,619 11,690	14.9 15.4 14.6	55,040 55,372 54,323	62.1 67.4 67.9
Value of products.....	1919 1914 1909	\$456,821,783 200,450,118 176,029,393	\$154,286,826 61,187,024 51,466,847	33.8 30.5 29.2	\$89,810,534 32,305,710 29,041,106	19.7 16.1 16.5	\$64,476,292 28,881,314 22,425,741	14.1 14.4 12.7	\$302,534,957 139,263,094 124,562,546	66.2 69.5 70.8
Value added by manufacture.....	1919 1914 1909	202,253,260 82,795,209 78,928,169	72,893,134 25,748,617 23,393,234	36.0 31.1 29.6	43,940,396 12,896,847 12,251,413	21.7 15.5 15.5	28,952,738 12,881,770 11,141,821	14.3 15.6 14.1	129,360,126 57,046,592 55,534,935	64.0 68.9 70.4

¹ Includes Sanford, to avoid disclosure of individual operations.² 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.

MANUFACTURES—MAINE.

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TABLE 16.—PRINCIPAL INDUSTRIES IN PORTLAND (THE ONLY CITY IN THE STATE HAVING 50,000 INHABITANTS OR MORE), WITH PER CENT OF TOTAL FOR STATE: 1919.

INDUSTRY.	VALUE OF PRODUCTS.				INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase over 1914.			Amount, 1919.	Per cent of total for the state.	Increase over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
Foundry and machine-shop products.....	\$4,195,381	43.1	\$2,854,029	212.8	Boots and shoes, not including rubber	(1)	(1)	(1)	(1)
Canning and preserving, fish.....	2,047,731	12.1	(1)	.....	boots and shoes.....			
Bread and other bakery products.....	1,825,359	25.7	1,210,121	196.7	Boxes, wooden packing, except cigar boxes.....				
Lumber, planing-mill products, not in-					Canning and preserving, vegetables.....				
cluding planing mills connected with					Cars and general shop construction and				
sawmills.....	1,095,464	32.9	299,332	37.6	repairs by steam-railroad companies.....				
Confectionery and ice cream.....	1,026,082	50.5	333,870	48.2	Chewing gum.....				
Printing and publishing, newspapers and					Furniture.....				
periodicals.....	740,533	16.4	292,602	64.5	Gas, illuminating and heating.....				
Printing and publishing, book and job.....	681,484	57.1	293,055	62.9	Grease and tallow, soap stock.....				
Flavoring extracts.....	581,916	99.3	(1)	.....	Leather, tanned, curried, and finished.....			
Flour-mill and gristmill products.....	521,002	9.6	92,373	21.6	Perfumery and cosmetics.....				
					Shipbuilding, wooden, including boat				
					building.....				
					Tinware, not elsewhere specified.....				

¹ Figures can not be shown without disclosing individual operations.

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.....	10,040	7,447	5,634	547,028	487,211	459,599	100.0	100.0	100.0
Owned.....	2,997	3,767	4,070	452,864	430,688	431,099	82.8	90.2	93.8
Steam ¹	1,493	1,898	1,886	173,855	173,792	168,774	31.8	36.3	36.7
Engines.....	1,424	(2)	(2)	141,437	(2)	(2)	25.9	.....	.....
Turbines.....	69	(2)	(2)	32,418	(2)	(2)	5.9	.....	.....
Internal-combustion engines.....	400	440	370	4,481	4,532	3,933	0.8	0.9	0.9
Water.....	1,104	1,429	1,814	274,528	258,314	258,392	50.2	53.0	53.2
Water wheels and turbines.....	1,084	1,303	1,786	274,195	256,876	256,480	50.1	52.7	55.8
Water motors.....	20	36	28	333	1,438	1,912	0.1	0.3	0.4
Rented.....	7,043	3,680	1,564	94,164	47,523	28,500	17.2	9.8	6.2
Electric.....	7,043	3,680	1,564	92,749	46,344	27,203	17.0	9.5	5.9
Other.....				1,415	1,179	1,297	0.3	0.2	0.2
Electric.....	10,349	5,599	2,395	164,796	107,700	54,266	100.0	100.0	100.0
Rented.....	7,043	3,680	1,564	92,749	46,344	27,203	56.3	43.0	50.1
Generated by establishments reporting.....	3,306	1,919	831	72,047	61,356	27,063	43.7	57.0	49.9

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

² Not reported separately.

MANUFACTURES—MAINE.

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

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).				
All industries.....	1019.. 43,234	1,257,623	21,972	568,004	7,473	45,503
Per cent of increase ²	1914.. 79,024	1,014,213	9,034	31,376	(1)	9,497
	-45.3	24.0	143.2	1,734.1	(1)	379.4
Boots and shoes, not including rubber boots and shoes.....	1,350	10,922	380	11	9	175
Bread and other bakery products.....	3,496	1,137	1,485	152	135	5,422
Brick, sewer pipe, and drain tile.....	20	5,516			90	
Canning and preserving, fish.....	1,148	21,304	1	2,897	3,567	
Cars and general shop construction and repairs by steam-railroad companies.....	146	17,598		253		
Cotton goods.....	429	66,978				
Dyeing and finishing textiles, exclusive of that done in textile mills.....		12,766		154		350
Foundry and machine-shop products.....	1,342	4,599	4,718	4,546	386	6,088
Gas, illuminating and heating.....	3,861	48,341	11,628	15,142		
Glucose and starch.....	273	5,836			7	
Iron and steel, steel works and rolling mills.....		15,122		99		
Lime.....		31,687				
Marble and stone work.....	179	9,208	18	12	192	
Paper and wood pulp.....	8,779	763,348		492,509		
Pulp goods.....	1	102,258	22			
Shipbuilding, steel.....	33	7,559	16	26,063		193
Woolen goods.....	6,066	63,012			28	
Worsted goods.....	1,970	26,035		18,533	281	
All other industries.....	14,111	43,497	3,704	7,543	2,788	33,275
Total for cities ³	16,323	270,384	19,009	46,586	418	33,948
AUBURN.....	733	8,194	283	5	83	605
AUGUSTA.....	1,051	10,720		4,295	10	1,195
BANGOR.....	1,212	9,579	835	1,194	2	1,378
BATH.....	1,502	8,173	1,259	25,674	2	193
BIDDEFORD.....	2,441	26,740	2,042	1,498	31	588
LEWISTON.....	4,101	34,129	606	9,653	29	19,947
PORTLAND.....	3,761	61,882	13,397	4,059	165	9,436
WATERVILLE.....	322	110,967	587	203	96	606

¹ Included in figures for fuel oils.² A minus sign (—) denotes decrease.³ Excludes Sanford, to avoid disclosure of individual operations.

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 seven of these industries in Maine are here presented.

The textile industry is represented in Maine chiefly through the cotton-goods and the woolen and worsted goods industries, although considerable value of products was reported in 1919 by the cordage and twine, felt-goods, fur-felt hats, oilcloth, silk, wool-shoddy, wool-pulling, and dyeing and finishing establishments.

In 1919 the combined value of the manufactured products of the above subdivisions of the textile industry constituted 27 per cent of the total value of the production of all industries in the state and furnished employment to 22,843 of the 88,651 wage earners reported by the manufacturing establishments in Maine.

In 1914 the cotton-goods industry held fourth rank in Maine in the value of manufactured products, and woolen and worsted goods, fifth. The 1919 census reports reversed this order of relative importance and assigned second place to the woolen-goods and worsted-goods industries combined, and third place to the cotton-goods industry.

Cotton goods (Table 19).—The manufacture of cotton goods is one of the most important industries in Maine, representing in 1919, 12.4 per cent and in 1914, 11 per cent of the total value of products, and

furnishing employment to 13.3 and 16.8 per cent, respectively, of the total number of wage earners for all manufacturing industries in the state.

The cost of materials used in the cotton-goods industry shows an increase of 125.8 per cent in 1919 over that of 1914 and the value of products an increase of 155.7 per cent.

Raw cotton was the principal material used and comprised 84 per cent of the total cost of materials in 1919, as compared with 81.5 per cent in 1914, although the quantity was 8,126,127 pounds, or 9.5 per cent less in 1919 than that reported at the previous census.

The production of woven goods, in 1919, represented 87.1 per cent of the total value of products and, parallel with the decrease in quantity of raw cotton used, the production of woven goods, exclusive of bags and bagging, was 30,494,093 square yards, or 13.1 per cent, less in 1919 than in 1914.

Unbleached and bleached sheetings and muslins for many years have been the principal woven fabrics, representing 30.1 per cent of the total value of these fabrics in 1919. Measured in quantity of square yards, this group shows a constant decrease during the last 10 years, while twills and sateens show a steady increase in the number of square yards produced.

The yarns manufactured for sale in 1919 shows an increase of 56.4 per cent in quantity over 1914.

TABLE 19.—COTTON GOODS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$20,424,375	\$13,032,069	\$11,390,479
Cotton:			
Pounds.....	77,728,700	85,854,827	78,678,043
Cost.....	\$24,718,068	\$10,628,358	\$9,440,063
Cotton yarn, purchased:			
Pounds.....	238,751	1,225,331	1,260,512
Cost.....	\$140,391	\$326,202	\$305,638
Cotton waste, purchased:			
Pounds.....	3,489,561	5,004,762	4,218,459
Cost.....	\$648,926	\$465,747	\$304,700
Starch, cost.....	\$231,462	\$154,800	\$93,783
Chemicals and dyestuffs, cost.....	\$424,855	\$169,263	\$178,938
Fuel and rent of power, cost.....	\$732,905	\$431,415	\$341,762
All other materials, cost.....	\$2,527,138	\$807,058	\$725,595
PRODUCTS.			
Total value.....	\$56,563,825	\$22,121,711	\$21,932,225
Unbleached and bleached sheetings and muslins:			
Pounds.....	19,846,680	(¹)	(¹)
Square yards.....	79,182,901	105,715,187	136,448,937
Value.....	\$14,807,895	\$6,623,688	\$9,122,839
Twills and satens:			
Pounds.....	14,117,549	(¹)	(¹)
Square yards.....	40,382,934	29,006,658	27,617,061
Value.....	\$10,166,527	\$2,357,347	\$2,452,673
Dobby fabrics:			
Pounds.....	2,437,421	(¹)	(¹)
Square yards.....	9,854,434	6,670,409	(¹)
Value.....	\$2,582,708	\$655,003	(¹)
Bags and bagging:			
Pounds.....	(¹)	5,597,367	9,512,876
Value.....	\$1,001,874	\$807,266	\$764,110
Other woven goods:			
Pounds.....	23,528,228	(¹)	(¹)
Square yards.....	73,460,373	91,982,481	76,009,531
Value.....	\$20,710,657	\$9,475,028	\$8,344,797
Yarns for sale:			
Pounds.....	8,734,116	5,583,096	3,259,274
Value.....	\$6,633,266	\$1,772,193	\$957,011
Cotton waste for sale:			
Pounds.....	5,576,872	9,529,852	7,748,539
Value.....	\$577,372	\$379,392	\$251,179
All other products, value.....	\$83,526	\$51,794	\$39,616

¹ Figures not available

Woolen and worsted goods (Table 20).—Materials purchased for the production of woolen and worsted goods show a tendency toward increase in use of cotton, wool, shoddy, and waste. In 1919 the foreign wool, 41 per cent of the total quantity of wool purchased, showed an increase of 110.9 per cent over that purchased in 1914 and the domestic wool a decrease of eight-tenths of 1 per cent; for the same period there was an increase in quantity of cotton purchased of 8 per cent, shoddy 87.3 per cent, and waste 11.3 per cent.

The value of the products of the woolen and worsted goods industry represented 13.2 per cent in 1919 and 8.7 per cent in 1914 of the total value of manufactured products reported for the state.

Woven goods contributed, in 1919, 84.1 per cent to the value of products of this industry for the state, as compared with 82.7 per cent in 1914, there being an increase of 23.6 per cent in the number of square yards produced and an increase of 249.8 per cent in value.

The production of all-wool woolen suitings, dress goods, overcoatings, and cloakings predominated in this industry in 1919; the number of square yards

reported was 43 per cent of the total number of square yards of woven goods, and the value was 60 per cent of the total value of the same.

During the period 1914–1919 an increase of 384 per cent was shown in the number of square yards reported as wool and cotton mixed and a decrease of 31.1 per cent in that reported as cotton-warp woven goods.

There was an increase over 1914 of 356.4 per cent in the number of pounds of woolen yarn produced for sale, and the same period showed an increase in the amount received for contract work on materials furnished by others.

TABLE 20.—WOOLEN AND WORSTED GOODS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$36,226,758	\$10,823,116	\$11,120,480
Wool:			
Foreign (in condition purchased)—			
Pounds.....	4,661,739	2,210,081	3,530,557
Cost.....	\$4,172,971	\$631,002	\$1,278,255
Domestic (in condition purchased)—			
Pounds.....	6,609,166	6,752,924	9,575,075
Cost.....	\$7,187,870	\$2,518,091	\$3,585,232
Equivalent in scoured condition—			
Pounds.....	9,932,991	7,251,676	10,221,280
Cotton:			
Pounds.....	3,167,234	2,933,786	1,972,781
Cost.....	\$1,130,280	\$307,756	\$251,423
Animal hair:			
Pounds.....	2,273,069	3,800,538	2,657,327
Cost.....	\$1,362,135	\$604,714	\$502,814
Rags, clippings, etc.:			
Pounds.....	1,561,879	2,418,825	1,019,778
Cost.....	\$388,730	\$338,470	\$73,465
Recovered wool fiber (wool shoddy):			
Pounds.....	8,209,918	4,430,934	4,004,202
Cost.....	\$3,364,976	\$671,242	\$484,770
Waste and noils of wool, mohair, camel hair, etc.:			
Pounds.....	5,080,041	4,564,425	2,380,110
Cost.....	\$3,155,431	\$593,273	\$716,536
Yarns, purchased:			
Woolen and worsted—			
Pounds.....	112,753	176,581	947,343
Cost.....	\$208,186	\$126,916	\$768,778
Cotton—			
Pounds.....	2,769,882	3,442,361	2,440,258
Cost.....	\$2,234,248	\$1,113,711	\$813,080
All other—			
Pounds.....	211,836	11,831	28,062
Cost.....	\$374,454	\$25,705	\$28,658
Chemicals and dyestuffs, cost.....	\$1,462,351	\$515,751	\$509,175
Fuel and rent of power, cost.....	\$1,044,804	493,623	\$393,662
All other materials, cost.....	\$10,050,212	\$2,103,450	\$1,564,348
PRODUCTS.			
Total value.....	\$60,327,260	\$17,531,470	\$18,001,890
All-wool woven goods:			
Woolen suitings, dress goods, overcoatings, and cloakings—			
Square yards.....	20,271,891	13,806,070	12,401,175
Value.....	\$30,458,554	\$7,390,057	\$6,991,470
Wool and cotton mixed woven goods:			
Square yards.....	6,485,185	1,339,919	3,996,585
Value.....	\$6,049,333	\$164,004	\$1,919,118
Cotton-warp woven goods:			
Wool-filling suitings, dress goods, overcoatings, and cloakings—			
Square yards.....	3,362,205	4,861,954	2,244,167
Value.....	\$2,810,550	\$1,497,661	\$709,016
All other:			
Square yards.....	17,002,139	18,113,218	12,341,126
Value.....	\$11,413,330	\$5,149,907	\$4,119,989
Woolen yarn:			
Pounds.....	130,076	28,499	16,779
Value.....	\$144,609	\$18,527	\$12,181
All other yarns and tops:			
Pounds.....	1,279,140	1,988,035	1,559,581
Value.....	\$2,816,526	\$901,868	\$1,244,725
Waste and noils:			
Pounds.....	2,688,400	2,645,935	1,404,756
Value.....	\$422,908	\$241,499	\$258,912
Amount received for contract work.....	\$375,974	\$87,265	\$78,722
All other products, value.....	\$5,815,476	\$1,780,682	\$2,667,757

Machinery used in textile mills (Table 21).—This table shows a steady increase in the total number of active producing spindles in the four principal textile industries combined, from 1909 to 1919. During the period from 1914 to 1919 there was a decrease of less than 1 per cent in number of producing spindles in the cotton industry, a decrease of 2 per cent in the silk-goods industry, but an increase of 7.9 per cent in the woolen and worsted.

The increase between 1914 and 1919 of less than 1 per cent in the number of looms used is due to slight increases in the cotton and woolen and worsted industries.

TABLE 21.—MACHINERY USED IN TEXTILE MILLS: 1919, 1914, AND 1909.

KIND.	Cen- sus year.	Total.	Cotton manufac- tures.	Silk goods.	Woolen and worsted goods.	Knit goods.
Producing spindles.....	1919	1,359,873	1,091,991	4,872	263,010	.....
	1914	1,347,928	1,098,142	4,970	243,716	1,100
	1909	1,240,492	1,020,688	4,740	214,584	480
Looms.....	1919	133,851	29,122	1142	4,687	.....
	1914	33,631	28,972	126	4,533	.....
	1909	30,501	26,319	158	4,024	.....

¹ Includes 25 looms idle the entire year.

Paper and wood pulp (Table 22).—This table presents, for 1919, 1914, and 1909, statistics for the quantity and cost of materials used, the quantity and value of the principal products, and the character and capacity of equipment.

The statistics for the paper and wood pulp industry include establishments making both paper and pulp, those making paper only, and those making pulp only. In determining the cost of materials for the entire industry the cost of materials as reported by the three classes are combined. Similarly, the value of products for the industry as a whole is obtained by combining the totals for the three classes of establishments. There is, therefore, considerable duplication, as undoubtedly a large part of the wood pulp purchased is duplicated in the cost of pulp wood, while wood pulp produced for sale is again included to a considerable extent as a finished product in the value of paper manufactured.

Pulp wood, as at prior censuses, was the principal material used in 1919, constituting 45.4 per cent of the total cost of all materials. In addition to the various species of pulp wood shown separately in the table, the item "All other woods" includes hemlock, basswood, pine, beech, birch, maple, etc. The item "All other materials" includes cost of fuel and rent of power to the amount of \$7,988,255 and, in addition, the cost of mill supplies, chemicals, sizing, freight, etc.

Newspaper continues to be the principal product of the industry, representing more than 30 per cent of the total in 1919, as was the case at both of the preceding censuses.

TABLE 22.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$51,670,588	\$25,457,967	\$20,504,213
Pulp wood:			
Cords.....	1,279,852	941,204	903,962
Cost.....	\$24,795,023	\$8,442,359	\$7,084,338
Spruce, domestic—			
Cords.....	893,376	598,296	552,032
Cost.....	\$17,412,300	\$5,348,873	(¹)
Spruce, imported—			
Cords.....	141,164	128,374	166,500
Cost.....	\$3,043,785	\$1,408,693	(¹)
Poplar, domestic—			
Cords.....	113,812		
Cost.....	\$2,112,444	150,461	123,052
Poplar, imported—			
Cords.....	59,124	\$1,240,657	(¹)
Cost.....	\$1,023,636		
Balsam fir—			
Cords.....	41,939	(²)	(¹)
Cost.....	\$711,793	(²)	(¹)
All other woods, including slabs and other mill waste—			
Cords.....	30,437	64,073	62,378
Cost.....	\$491,695	\$444,136	(¹)
Wood pulp, purchased:			
Tons.....	151,850	173,238	167,126
Cost.....	\$7,709,012	\$4,704,299	\$4,637,964
Ground—			
Tons.....	110,890	110,466	98,553
Cost.....	\$4,071,910	\$2,061,975	\$1,831,737
Sulphite fiber—			
Tons.....	30,640	48,422	52,805
Cost.....	\$2,723,152	\$2,108,150	\$2,118,781
Sulphate fiber—			
Tons.....	5,358	(³)	(³)
Cost.....	\$534,252	(³)	(³)
All other fiber, including soda fiber and screenings—			
Tons.....	4,962	14,349	15,768
Cost.....	\$379,698	\$534,174	\$687,446
Rags, including linen, cotton, flax waste, and sweepings:			
Tons.....	1,799	2,768	4,400
Cost.....	\$246,314	\$150,353	\$167,316
Paper stock, including shavings, and old and waste paper:			
Tons.....	14,811	13,779	7,264
Cost.....	\$504,217	\$180,393	\$119,305
China clay:			
Tons.....	46,199	(¹)	(¹)
Cost.....	\$767,052	(¹)	(¹)
Bleaching powder:			
Tons.....	27,193	(¹)	(¹)
Cost.....	\$879,741	(¹)	(¹)
Sulphur:			
Tons.....	37,987	(⁴)	(⁴)
Cost.....	\$957,403	(⁴)	(⁴)
All other materials, cost.....	\$18,811,226	\$11,080,593	\$7,595,280
PRODUCTS.			
Total value.....	\$93,016,628	\$40,179,744	\$33,950,230
Newspaper, in rolls or sheets:			
Tons.....	424,706	336,020	313,125
Value.....	\$28,507,697	\$13,262,166	\$11,424,888
Wrapping paper, including bag paper:			
Tons.....	168,942	176,673	143,695
Value.....	\$21,252,911	\$9,598,230	\$8,079,299
Boards:			
Tons.....	24,284	27,018	22,099
Value.....	\$2,047,271	\$1,252,952	\$331,340
All other paper, including poster, novel, and tablet paper; book paper; fine paper; tissue paper; etc:			
Tons.....	162,602	118,821	104,516
Value.....	\$24,565,438	\$9,422,304	\$8,240,778
Wood pulp made for sale or for consumption in mills other than where produced:			
Tons.....	276,011	220,447	194,265
Value.....	\$16,793,685	\$6,614,092	\$5,370,504
Ground, including mechanical screenings—			
Tons.....	149,827	118,813	107,116
Value.....	\$5,143,283	\$2,057,000	\$1,822,734
Soda fiber—			
Tons.....	34,890	49,081	41,106
Value.....	\$3,200,404	\$2,016,331	\$1,748,294
Sulphite fiber—			
Bleached—			
Tons.....	49,985	15,679	
Value.....	\$5,398,456	\$1,132,479	
Unbleached—			
Tons.....	31,133	34,753	46,073
Value.....	\$2,230,952	\$1,395,491	\$1,799,476
All other chemical fiber—			
Tons.....	10,676	2,121	(¹)
Value.....	\$820,590	\$42,791	(¹)

¹ Not reported separately.

² Included in "all other woods."

³ Included in "all other fiber."

⁴ Included in "all other materials."

TABLE 22.—PAPER AND WOOD PULP: 1919, 1914, AND 1909—Con.

	1919	1914	1909
PRODUCTS—continued.			
All other products, value.....	\$749, 026		\$3, 921
Wood pulp produced, including that used in mills where manufactured, total tons.....	910, 704	698, 870	620, 705
Ground, including mechanical screenings, tons.....	475, 244	362, 817	324, 264
Soda fiber, tons.....	102, 901	92, 747	78, 940
Sulphite fiber—			
Bleached, tons.....	88, 350	42, 815	217, 501
Unbleached, tons.....	235, 308	193, 570	
All other chemical fiber, tons.....	14, 901	6, 921	
(1)			
EQUIPMENT.			
Paper machines:			
Total number.....	117	108	104
Yearly capacity, tons.....	821, 732	684, 830	634, 059
Fourdrinier—			
Number.....	94	88	84
Daily capacity, tons.....	2, 600	2, 082	1, 893
Cylinder—			
Number.....	23	20	20
Daily capacity, tons.....	217	197	174
Pulp equipment:			
Grinders, number.....	312	301	330
Digesters, total number.....	110	105	98
Soda.....	24	40	38
Sulphite.....	78	65	60
Sulphate.....	8		
Yearly capacity, tons.....	1, 024, 874	812, 215	807, 793
Ground.....	526, 023	440, 718	401, 005
Soda.....	122, 320	102, 000	99, 265
Sulphite.....	343, 771	269, 497	217, 438
Sulphate.....	32, 160		

¹ Not reported separately.

Boots and shoes (Tables 23 and 24).—Table 23 shows, by kinds, the number of pairs and value of footwear manufactured in the state for 1919, 1914, and 1909, and Table 24, shows for 1919 and 1914 this footwear by character of manufacture.

In 1919, compared with 1914, there was a decrease of 2,260,141 pairs, or 17.8 per cent, in the total number of pairs of boots and shoes, exclusive of slippers, etc., manufactured in the state. On the other hand, slippers, infants' shoes, etc., during this five-year period, increased 5,726,251 pairs, or 190.6 per cent.

In 1914 boots and shoes represented 80.9 per cent of the total manufactures, and slippers 19.1 per cent. The corresponding proportions, in 1919, were 54.5 per cent and 45.5 per cent, respectively.

TABLE 23.—BOOTS AND SHOES: 1919, 1914, AND 1909.

KIND.	NUMBER OF PAIRS AND VALUE.		
	1919	1914	1909
Aggregate value.....	\$48, 050, 388	\$22, 836, 073	\$15, 157, 827
Boots and shoes:			
Total number of pairs.....	10, 444, 825	12, 704, 906	9, 066, 454
Total value.....	\$36, 350, 508	\$19, 394, 189	
Men's—			
Number of pairs.....	3, 319, 890	4, 470, 245	4, 788, 134
Value.....	\$13, 384, 720	\$9, 175, 584	
Boys' and youths'—			
Number of pairs.....	1, 235, 043	572, 980	665, 270
Value.....	\$3, 305, 344	\$894, 927	
Women's—			
Number of pairs.....	5, 343, 009	4, 256, 166	2, 886, 923
Value.....	\$18, 977, 351	\$5, 718, 240	
Misses' and children's—			
Number of pairs.....	540, 883	3, 399, 575	728, 127
Value.....	\$683, 083	\$3, 605, 438	
Slippers, infants' shoes and slippers, and all other footwear:			
Number of pairs.....	8, 730, 562	3, 004, 311	208, 648
Value.....	\$11, 011, 571	\$2, 939, 299	
All other products, including amount received for work done for others, value	\$997, 309	\$502, 585	

¹ Total value only reported in 1909.

In the production, by method of manufacture of boots and shoes, there have been some changes during the last five years. In 1914, 44.8 per cent was "Welted," 44.7 per cent "McKay", and 10.5 per cent "Other methods" (turned, and wood or metal fastened), as compared with 49 per cent, 28.2 per cent, and 22.8 per cent, respectively, in 1919.

TABLE 24.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

KIND.	Cen- sus year.	NUMBER OF PAIRS.			
		Total.	Welted.	McKay.	Other methods.
Boots and shoes:					
Men's.....	1919	3, 319, 890	2, 758, 485	52, 250	509, 155
	1914	4, 470, 245	3, 745, 200	502, 972	228, 073
Boys' and youths'.....	1919	1, 235, 043	1, 051, 710	154, 923	28, 410
	1914	572, 980	194, 170	334, 560	44, 244
Women's.....	1919	5, 343, 009	1, 310, 138	2, 482, 206	1, 550, 665
	1914	4, 256, 166	991, 506	2, 363, 888	900, 772
Misses' and children's....	1919	540, 883		258, 883	288, 000
	1914	3, 399, 575	757, 265	2, 478, 030	163, 380
Slippers, infants' shoes and slippers, and all other foot- wear.	1919	8, 730, 562	851, 213	7, 571, 999	307, 350
	1914	3, 004, 311	(¹)	537, 424	2, 466, 887

¹ Included under "Other methods" to avoid disclosure of individual operations.

Lumber and timber products (Table 25).—This table shows the production of lumber, lath, and shingles for 1919, 1914, and 1909. The importance of this industry in Maine has been decreasing since 1909. The lumber cut reported for that year was the largest of record, and the 1919 cut compared with that for 1909 shows a decrease of 46.4 per cent.

White pine and spruce are still the leading woods and in 1919 these two species contributed 37.6 per cent and 35 per cent, respectively, of the total cut. Hemlock furnished 14.3 per cent, balsam fir 5.1 per cent, and birch 3.6 per cent. Other important woods were cedar, maple, beech, oak, and basswood.

In 1919 Maine ranked twenty-first among the states in the production of lumber; in 1914 seventeenth; and in 1909 nineteenth.

TABLE 25.—PRODUCTION OF LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY. ¹		
	1919	1914	1909
Lumber..... M feet b. m.	506, 116	992, 594	1, 111, 565
Lath..... thousands..	104, 223	(²)	337, 086
Shingles..... thousands..	188, 576	(²)	508, 131

¹ The output of custom mills is included in 1919 and 1909, but not in 1914.

² Not reported.

Canning and preserving (Table 26).—Of the total value of products for the canning industry as a whole, fish canning was by far the most important, forming 69.8 per cent of the total in 1919, as compared with 69.5 per cent in 1914. Fruits and vegetables represented 29.7 per cent of the total for both years, while the proportions for pickles, preserves, and sauces, was but four-tenths of 1 per cent in 1919 and eight-tenths of 1 per cent in 1914.

Of the canned vegetables, corn was the most important, forming 85.7 per cent of the value of such products in 1919 and 84.5 per cent in 1914. Comparing other items in the table for these two years, apples represented 52.3 per cent of canned fruits in 1919 as compared with 23.8 per cent in 1914; sardines, 92.3 per cent of canned fish and clams in 1919 and 91.8 per cent in 1914; and salt cod 72.4 per cent of salted fish in 1919 as compared with 43.4 per cent in 1914.

TABLE 26.—CANNING AND PRESERVING: 1919, 1914, AND 1909.

	1919	1914	1909
Total value ¹	\$24,550,574	\$10,742,738	\$7,688,833
Canning and preserving, fruits and vegetables.....	\$7,301,237	\$3,190,404	\$1,898,511
Canning and preserving, fish and clams.....	\$17,141,940	\$7,466,391	\$5,738,685
Pickles, preserves, and sauces.....	\$107,397	\$85,943	\$51,637
Canned vegetables:			
Cases.....	1,817,438	1,318,308	920,257
Value.....	\$5,504,832	\$2,413,142	\$1,545,452
Corn—			
Cases.....	1,545,877	1,101,333	792,185
Value.....	\$4,716,222	\$2,038,710	\$1,320,223
Beans—			
Cases.....	229,228	152,039	92,602
Value.....	\$649,942	\$236,585	\$151,470
All other—			
Cases.....	42,333	64,336	35,470
Value.....	\$138,668	\$137,841	\$73,753
Canned fruits:			
Cases.....	401,021	169,889	143,452
Value.....	\$1,710,699	\$320,435	\$230,096
Apples—			
Cases.....	240,801	55,124	75,540
Value.....	\$895,031	\$76,403	\$122,791
All other—			
Cases.....	154,220	114,765	67,912
Value.....	\$815,668	\$244,032	\$107,905
Fish and clams, value.....	\$16,117,004	\$7,466,391	\$5,738,685
Canned:			
Cases.....	3,863,917	4,793,431	.....
Value.....	\$13,679,972	\$6,299,042	\$4,812,739
Sardines—			
Cases (100—No. 1 cans).....	3,660,935	2,434,424	.....
Value.....	\$12,627,862	\$5,780,897	\$4,000,224
Clams—			
Cases.....	73,025	73,764	.....
Value.....	\$350,090	\$210,889	\$171,365
All other—			
Cases.....	129,057	85,243	.....
Value.....	\$702,020	\$307,296	\$32,160
Smoked fish:			
Pounds.....	6,345,027	5,406,605	8,814,981
Value.....	\$592,539	\$302,961	\$326,674
Finnan haddock—			
Pounds.....	1,063,492	1,055,243	975,682
Value.....	\$136,440	\$102,474	\$63,141
Herring—			
Pounds.....	5,278,935	3,797,262	7,592,993
Value.....	\$455,489	\$237,703	\$255,498
All other—			
Pounds.....	2,600	554,100	246,306
Value.....	\$610	\$22,784	\$8,035
Salted fish:			
Pounds.....	17,956,564	21,258,115	17,027,167
Value.....	\$1,844,493	\$804,388	\$599,272
Cod—			
Pounds.....	9,904,117	6,604,788	7,267,330
Value.....	\$1,334,989	\$348,741	\$333,621
Haddock—			
Pounds.....	1,440,134	738,700	992,935
Value.....	\$151,597	\$22,256	\$30,324
Herring—			
Pounds.....	768,425	173,500	216,400
Value.....	\$47,333	\$3,105	\$4,332
All other—			
Pounds.....	5,783,888	13,741,127	8,550,502
Value.....	\$310,574	\$430,286	\$230,995
Pickles, preserves and sauces, value.....	\$107,397	\$85,943	\$51,637
All other products, value.....	\$1,110,642	\$456,827	\$122,363

¹ In addition, canned vegetables, canned fruits, canned clams, and dried potatoes to the value of \$1,440,782 were reported by establishments in other industries in 1919 and \$325,226 in 1914.

² Reported 48 cans per case in 1914.

Printing and publishing (Table 27).—This table shows the number and aggregate circulation per issue of the different classes of newspapers and periodicals for the years 1919, 1914, and 1909.

The decrease in number is distributed among all classes of publications, but the decrease shown in circulation does not affect the daily and Sunday issues, these having increased. Weekly publications and certain kinds of monthly publications having a wide circulation, and for years centering in Augusta, decreased materially in number by removal or extinction. Consequently the circulation of this class reported for 1919 was much less than that given for 1914.

The only publications not printed in English were one weekly and two triweeklies, printed in French.

TABLE 27.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	80	113	129	4,022,491	4,316,630	4,261,879
Daily ¹	14	18	16	147,336	140,315	99,868
Weekly ²	59	79	90	115,155	179,109	199,745
Monthly ³	7	16	23	3,760,000	3,997,206	3,962,266

¹ Includes 2 Sunday newspapers in 1919 and 1909, and 3 in 1914.

² Includes 2 semiweekly and 3 triweekly publications in 1919; 5 semiweekly and 1 triweekly in 1914; and 2 semiweekly and 1 triweekly in 1909.

³ Includes 1 quarterly publication in 1919 and 1909, and 2 quarterly and 1 semi-monthly publications in 1914.

Laundries (Table 28).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 28, however, summarizes the statistics for such laundries in the state for 1919 and 1914.

TABLE 28.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1914-1919.
	1919	1914	
Number of establishments.....	81	92	.....
Persons engaged.....	1,144	1,097	4.3
Proprietors and firm members.....	81	101	-19.8
Salaried employees.....	70	66	.....
Wage earners (average number).....	993	930	6.8
Primary horsepower.....	1,577	1,741	-9.4
Capital.....	\$1,121,566	\$685,304	63.7
Salaries and wages.....	687,565	434,619	58.2
Salaries.....	80,482	53,956	49.2
Wages.....	607,083	380,663	59.5
Paid for contract work.....	6,392	2,201	190.4
Rent and taxes.....	33,967	27,233	24.7
Cost of materials.....	412,828	182,477	126.2
Amount received for work done.....	1,514,854	939,021	61.3

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

Dyeing and cleaning (Table 29).—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 for censuses 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 29.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	12
Persons engaged.....	126
Proprietors and firm members.....	10
Salaried employees.....	22
Wage earners (average number).....	94
Primary horsepower.....	112
Capital.....	\$131,883
Salaries and wages.....	111,621
Salaries.....	24,567
Wages.....	87,054
Paid for contract work.....	1,627
Rent and taxes.....	8,066
Cost of materials.....	43,905
Amount received for work done.....	241,671

Custom sawmills and gristmills (Tables 30 and 31).—Statistics for custom sawmills and custom gristmills 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 30 and 31, however, summarize the statistics for such 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 30.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	98	88	.....
Persons engaged.....	214	223	-4.0
Proprietors and firm members.....	112	100	12.0
Salaried employees.....	.....	4	.....
Wage earners (average number).....	102	119	-14.3
Primary horsepower.....	4,595	4,339	5.9
Capital.....	\$256,673	\$173,590	47.9
Salaries and wages.....	77,216	44,696	72.8
Salaries.....	.....	1,383	.....
Wages.....	77,216	43,313	78.3
Rent and taxes.....	4,164	2,386	74.5
Cost of materials.....	16,386	3,135	422.7
Value of products ²	161,564	102,802	57.2

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

² Amount received for work done.

TABLE 31.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	22	34	.....
Persons engaged.....	30	45	.....
Proprietors and firm members.....	23	35	.....
Salaried employees.....	1	.....	.....
Wage earners.....	6	10	.....
Primary horsepower.....	630	1,279	-50.7
Capital.....	\$122,027	\$49,623	145.9
Salaries and wages.....	5,326	3,903	33.4
Salaries.....	.....	300	.....
Wages.....	5,026	3,603	25.9
Rent and taxes.....	1,329	634	148.0
Cost of materials ²	250,530	197,687	31.3
Value of products ²	316,107	248,593	27.2

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

² Includes estimate of all grain ground.

GENERAL TABLES.

Table 32 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 Portland, and for the cities having from 10,000 to 50,000 inhabitants, for which comparable statistics are available, similar data for all industries combined.

Table 33 presents, for 1919, for the state as a whole and for Portland, 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 cities having from 10,000 to 50,000 inhabitants, except Sanford, figures for which could not be shown without disclosing individual operations.

MANUFACTURES—MAINE.

TABLE 32.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	2,995	88,651	547,028	\$94,225	\$254,569	\$456,822	Foundry and machine-shop products. ¹	1919	257	4,550	9,502	\$5,556	\$7,522	\$18,421
	1914	3,378	82,149	487,211	43,254	117,655	200,450		1914	189	2,874	5,539	1,785	2,643	5,799
	1909	3,546	79,955	459,599	37,632	97,101	176,029		1909	125	2,885	4,967	1,512	2,344	6,237
Awnings, tents, and sails.....	1919	17	40	22	43	120	215	Furniture.....	1919	10	292	1,346	263	628	1,289
	1914	24	60	20	32	91	173		1914	10	111	311	67	127	276
	1909	23	74	11	49	139	229		1909	13	215	554	116	168	368
Boots and shoes, including cut stock and findings.	1919	145	10,198	6,074	9,413	30,595	48,865	Gas, illuminating and heating.	1919	13	220	463	267	647	1,381
	1914	59	8,985	5,153	5,046	15,034	23,330		1914	17	220	490	152	292	769
	1909	56	6,626	3,810	3,210	9,941	15,509		1909	19	216	349	120	212	549
Boxes, paper and other, not elsewhere specified.	1919	15	443	409	278	530	1,240	Glucose and starch.....	1919	26	255	858	298	1,178	1,752
	1914	12	288	161	120	168	358		1914	51	114	1,550	56	485	820
	1909	10	280	131	92	125	304		1909	64	120	1,838	68	475	687
Bread and other bakery prod- ucts.	1919	180	809	690	835	3,984	7,093	Leather, tanned, curried, and finished.	1919	9	306	1,746	269	2,675	3,359
	1914	202	729	445	424	1,557	2,626		1914	10	358	1,995	182	2,061	2,410
	1909	180	586	253	303	1,428	2,235		1909	17	436	1,467	208	1,452	1,905
Brick, sewer pipe, and drain- tile.	1919	19	254	1,186	278	259	704	Lumber and timber products. ²	1919	712	11,492	68,942	10,943	15,128	30,389
	1914	37	467	1,277	308	316	741		1914	952	15,452	81,067	7,817	13,144	27,503
	1909	49	263	889	150	105	390		1909	1,065	15,086	95,363	7,103	10,930	26,125
Butter.....	1919	10	75	254	74	697	1,060	Marble and stone work.....	1919	130	1,041	6,108	1,118	602	2,328
	1914	17	90	450	55	1,239	1,425		1914	137	1,333	9,138	1,302	587	2,529
	1909	20	96	523	48	1,098	1,301		1909	142	2,381	7,785	1,532	490	2,565
Canning and preserving. ³	1919	217	3,846	10,619	2,875	16,980	24,551	Mattresses and spring beds, not elsewhere specified.	1919	6	52	157	31	139	226
	1914	194	3,913	6,267	1,263	7,404	10,743		1914	6	70	55	34	110	197
	1909	245	3,850	4,355	1,138	5,125	7,689		1909	10	72	69	30	94	148
Carriages and wagons, includ- ing repairs.	1919	58	131	491	149	584	902	Mineral and carbonated wa- ters.	1919	47	100	230	96	525	818
	1914	123	317	695	188	364	767		1914	53	102	245	53	183	328
	1909	143	388	836	214	356	852		1909	45	80	256	44	94	247
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	11	151	149	178	191	403	Paper and wood pulp.....	1919	39	13,058	291,223	16,508	54,671	93,917
	1914	11	176	97	105	99	224		1914	38	10,033	245,121	6,754	25,458	40,180
	1909	13	161	258	99	85	201		1909	45	8,647	223,787	5,267	20,504	33,950
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	16	1,721	2,466	2,738	1,756	4,744	Patent medicines and com- pounds and druggists' preparations.	1919	22	45	28	26	148	374
	1914	13	1,344	1,377	988	1,006	2,076		1914	30	113	67	42	202	468
	1909	18	1,200	953	763	1,199	2,048		1909	37	144	94	49	197	756
Clothing, men's, including shirts.	1919	25	816	233	470	2,019	3,020	Printing and publishing. ⁴	1919	175	1,509	1,943	1,293	2,401	5,932
	1914	27	1,047	290	438	1,201	2,173		1914	204	1,772	1,760	955	1,210	3,717
	1909	33	1,068	229	333	597	1,164		1909	195	1,651	1,565	779	1,102	3,438
Clothing, women's.....	1919	7	162	67	97	160	351	Shipbuilding, wooden, includ- ing boat building.	1919	76	2,515	4,070	3,368	4,920	10,679
	1914	7	315	48	104	229	472		1914	105	461	1,270	284	646	1,193
	1909	7	532	142	184	338	686		1909	155	706	1,783	369	657	1,523
Coffins, burial cases, and un- dertakers' goods.	1919	6	53	197	47	150	278	Slaughtering and meat pack- ing. ⁵	1919	26	143	605	157	1,861	2,344
	1914	8	51	190	29	46	112		1914	26	126	212	79	1,135	1,370
	1909	8	49	149	31	91	164		1909	20	107	213	58	785	957
Confectionery and ice cream ..	1919	87	313	573	244	1,265	2,033	Stoves and ranges.....	1919	4	165	224	179	131	479
	1914	66	277	338	113	637	980		1914	4	214	208	145	111	361
	1909	66	277	338	113	637	980		1909	4	190	208	113	98	329
Cooperage and wooden goods, not elsewhere specified.	1919	83	596	2,625	466	1,081	2,019	Tobacco, cigars.....	1919	52	196	4	153	261	555
	1914	74	476	2,272	244	559	1,022		1914	74	242	6	148	190	473
	1909	68	349	1,070	164	435	842		1909	77	252	.....	146	109	464
Copper, tin, and sheet-iron products. ⁶	1919	31	448	546	443	2,353	3,415	Tools, not elsewhere specified.	1919	10	50	197	46	97	203
	1914	26	288	455	193	891	1,602		1914	15	68	344	49	111	206
	1909	16	374	439	190	1,018	1,689		1909	10	50	301	32	55	134
Cotton goods.....	1919	14	11,763	71,702	11,428	29,424	56,564	Wood, turned and carved....	1919	54	1,283	5,349	1,037	1,702	3,647
	1914	15	13,834	64,404	5,775	13,033	22,122		1914	59	1,659	5,714	805	967	2,208
	1909	16	14,634	53,823	5,718	11,390	21,932		1909	62	1,287	4,525	572	899	1,870
Fertilizers.....	1919	10	174	616	150	3,077	4,055	Woolen and worsted goods....	1919	66	9,913	28,373	11,038	36,227	60,327
	1914	8	155	973	68	1,195	1,583		1914	57	7,998	23,839	4,072	10,823	17,531
	1909	5	95	323	36	431	597		1909	63	8,553	21,651	3,779	11,120	18,002
Flour-mill and gristmill prod- ucts.	1919	118	144	4,744	147	4,769	5,443	All other industries.....	1919	202	9,269	21,997	11,168	23,172	45,447
	1914	148	217	6,025	128	3,959	4,426		1914	270	5,299	16,453	2,852	8,142	15,248
	1909	173	225	7,720	101	4,027	4,507		1909	281	6,027	16,320	2,912	7,328	14,436

¹ Excludes statistics for 2 establishments to avoid disclosure of individual operations.² Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; "canning and preserving, oysters"; and "pickles, preserves, and sauces."³ Includes "tinware, not elsewhere specified" in all years, and "stamped and enameled ware" in 1914 and 1909.⁴ 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 and "steam fittings and steam and hot-water heating apparatus" in 1914 and 1909.⁵ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; "pulp wood" in all years; and "window and door screens" in 1914 and 1909.⁶ Includes "bookbinding and blank-book making."⁷ Includes "sausage, not made in slaughtering and meat-packing establishments."

MANUFACTURES—MAINE.

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TABLE 32.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
PORTLAND..... All industries.	1919	308	5,486	11,529	\$6,009	\$15,590	\$29,168	Foundry and machine-shop products. ²	1919	40	883	2,449	\$1,212	\$2,135	\$4,876
	1914	296	5,197	8,300	3,071	8,028	14,705		1914	42	626	1,366	411	1,021	1,787
	1909	271	4,902	7,849	2,508	6,009	11,950		1909	21	483	1,269	266	613	1,200
Boxes, paper and other, not elsewhere specified.	1919	3	126	28	56	74	176	Lumber and timber prod- ucts. ³	1919	6	340	1,721	330	589	1,095
	1914	3	84	40	34	39	90		1914	12	649	1,922	416	1,056	2,178
	1909								1909	11	607	1,590	365	920	1,838
Bread and other bakery products.	1919	36	224	113	328	1,269	1,825	Marble and stone work.....	1919	6	26	51	37	35	101
	1914	28	180	104	109	300	615		1914	4	20	10	16	9	31
	1909	27	136	42	71	373	531		1909	9	53	55	35	34	92
Canning and preserving ¹	1919	11	374	736	301	1,877	2,718	Mineral and carbonated wa- ters.	1919	4	32	38	27	203	278
	1914	10	237	311	114	892	1,193		1914	7	24	53	13	84	113
	1909	7	78	71	30	142	226								
Confectionery and ice cream..	1919	18	142	296	129	618	1,026	Printing and publishing ⁴	1919	37	373	623	365	594	1,541
	1914	14	102	214	67	480	692		1914	45	424	503	280	252	994
									1909	43	619	486	299	294	1,010
Copper, tin, and sheet-iron work.	1919	11	44	3	59	48	160	All other industries.....	1919	131	2,914	5,251	3,150	7,686	14,851
	1914	9	40	14	28	46	117		1914	117	2,728	3,543	1,571	3,413	6,460
	1909	9	124	94	51	166	246		1909	138	2,789	3,219	1,388	3,208	6,617
Flour-mill and gristmill prod- ucts.	1919	5	8	220	9	462	521								
	1914	5	23	220	12	376	429								
	1909	6	13	1,023	3	169	190								
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
AUBURN.....	1919	74	5,850	5,335	5,250	15,607	27,852	BIDDEFORD.....	1919	49	4,469	28,671	4,800	11,052	20,634
	1914	84	4,811	4,411	2,855	8,680	13,840		1914	65	5,054	20,703	2,188	5,611	9,536
	1909	83	3,452	3,445	1,748	5,790	8,843		1909	43	5,076	17,038	1,903	4,897	9,012
AUGUSTA.....	1919	44	2,343	8,193	2,018	6,627	11,980	LEWISTON.....	1919	109	6,566	25,450	6,437	16,647	20,763
	1914	39	2,231	9,839	1,071	2,980	4,018		1914	98	6,222	21,879	2,920	6,020	10,619
	1909	40	2,275	5,350	1,159	2,484	4,662		1909	83	6,788	19,438	2,741	5,275	10,475
BANGOR.....	1919	106	1,153	2,819	1,075	3,286	5,545	WATERVILLE.....	1919	49	2,432	9,075	2,350	5,445	9,967
	1914	122	1,200	2,355	734	1,952	3,557		1914	45	2,062	5,319	1,037	2,161	4,012
	1909	122	1,327	2,441	735	1,847	3,346		1909	33	1,812	3,184	805	1,771	3,179

¹ Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces" in all years; and "canning and preserv-
ing, oysters," in 1914 and 1909.

² Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, welding"; and "structural ironwork, not made in steel works or
rolling mills," in all years; and "plumbers' supplies, not elsewhere specified," and "steam fittings and steam and hot-water heating apparatus" in 1914 and 1909.

³ Includes "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "boxes, wooden packing, except cigar boxes," and
"window and door screens" in 1914 and 1909.

⁴ Includes "bookbinding and blank-book making."

MANUFACTURES—MAINE.

TABLE 33.—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.

	2,995	99,312	2,745	3,230	2,499	2,187	38,651	Se 98,407	Mh 78,696	(*)	(*)	(*)	(*)	(*)	Dollars.
1 All industries.....	2,995	99,312	2,745	3,230	2,499	2,187	38,651	Se 98,407	Mh 78,696	(*)	(*)	(*)	(*)	(*)	419,158,006
2 Artificial stone products.....	9	37	9	1	1	6	27	My 44	Ja 20	43	43	45	45	45	64,757
3 Automobile bodies and parts.....	6	56	3	6	1	6	40	Au 48	Ja 28	45	45	45	45	45	47,981
4 Automobile repairing.....	161	605	180	29	49	37	400	Jy 510	Ja 286	425	421	4	4	4	1,005,944
5 Awnings, tents, and sails.....	17	61	17	2	2	2	40	My 45	No 35	45	36	9	9	9	101,329
6 Baskets, and rattan and willow ware.....	3	9	4	1	1	1	5	Oc 7	Mh 4	7	7	7	7	7	7,596
7 Bookbinding and blank-book making.....	9	84	13	5	1	1	65	De 70	Mh 60	71	35	35	1	1	87,537
8 Boot and shoe findings.....	6	317	1	17	7	13	279	De 424	Ja 211	306	249	117	117	117	955,503
9 Boots and shoes, not including rubber boots and shoes.....	39	10,965	14	344	209	479	9,919			11,954	7,361	4,519	44	30	23,752,877
10 Regular factory products.....	33	10,806	9	335	204	475	9,783	De 11,706	My 8,395	11,791	7,273	4,444	44	30	23,521,870
11 Moccasins.....	6	159	5	9	5	4	136	Oc 173	Fe 85	163	88	75			231,007
12 Boxes, paper and other, not elsewhere specified.....	15	491	8	28	12	12	443			511	170	338		3	844,287
13 Set-up paper boxes.....	8	273	7	14	6	6	246	De 275	Ja 190	265	52	210		3	233,500
14 All other.....	7	218	1	14	6	6	197	De 239	Jy 153	243	118	128			610,697
15 Boxes, wooden packing, except cigar boxes.....	29	1,033	20	46	23	26	918	De 1,198	My 724	1,213	1,152	58	3		2,624,794
16 Brass and bronze products.....	5	27	6	1	1	1	19	De 24	Ja 15	25	25				88,033
17 Bread and other bakery products.....	180	1,145	208	27	51	50	839	Oc 875	Fe 728	892	576	302	10	4	2,516,303
18 Brick, sewer pipe, and drain tile.....	19	300	12	20	9	5	254	Au 419	Ja 108	290	290				1,188,857
19 Brooms, from broom corn.....	4	14	4	2	1	1	7	Ja 4	Mh 6	6	5	1			28,084
20 Brushes.....	3	54	4	1	2	2	47	My 55	De 41	40	20	20			67,957
21 Butter.....	10	97	7	5	3	7	75	Jy 79	Ja 72	73	72	1			407,458
22 Canning and preserving, fish.....	102	3,066	65	165	50	65	2,721	Se 5,592	Fe 850	4,973	2,178	2,740	25	30	17,199,422
23 Canning and preserving, fruits and vegetables.....	97	1,352	85	150	24	45	1,048			4,371	2,706	1,692	47	26	4,202,870
24 Canned vegetables.....	71	1,029	64	127	20	36	782	Se 4,397	Fe 46	3,560	2,339	1,150	45	26	3,470,194
25 Canned fruits.....	26	323	21	23	4	9	266	Se 749	Je 16	811	367	442	2		732,085
26 Canning and preserving, oysters.....	13	91	14	7	1	1	69	My 159	Ja 0	184	65	119			162,507
27 Carpets, rag.....	3	34	1	1	1	1	31	De 64	My 21	67	52	11	4		61,834
28 Carriages and wagons, including repairs.....	58	211	65	8	2	4	131			140	139	1			563,219
29 Carriages and wagons.....	43	175	47	8	3	4	114	Jy 120	Ja 178	125	124	1			523,623
30 Repair work only.....	15	36	18	1	1	1	17	Fe 18	Ja 16	15	15				30,566
31 Cars and general shop construction and repairs by electric-railroad companies.....	11	166		11	3	1	151	Ja 156	De 145	145	145				569,384
32 Cars and general shop construction and repairs by steam-railroad companies.....	16	1,829		47	45	16	1,721	De 1,808	Ja 1,634	1,808	1,800	8			3,192,350
33 Cleansing and polishing preparations.....	7	7	6				1	(*) 1	(*) 1	1	1				7,491
34 Clothing, men's.....	14	309	14	10	10	5	270	De 318	Ja 235	334	68	266			668,309
35 Clothing, women's.....	7	190	3	16	4	5	162	No 180	Ap 144	183	11	172			216,078
36 Coffee, roasting and grinding.....	5	25	3	6	1	1	15	(*) 15	(*) 15	15	7	8			95,526
37 Coffins, burial cases, and undertakers' goods.....	6	77	15	5	3	1	53	Mh 56	Ja 50	55	52	3			271,498
38 Confectionery and ice cream.....	87	480	86	34	22	25	313			362	172	188	2		1,062,844
39 Confectionery.....	55	319	54	22	12	16	215	Oc 250	Ja 195	251	95	154	2		553,970
40 Ice cream.....	32	161	32	12	10	9	98	Jy 141	Fe 61	111	77	34			508,874
41 Cooperage.....	69	201	72	7	2	2	120	Oc 162	Je 82	178	175	3			727,563
42 Copper, tin, and sheet-iron work.....	23	112	31	4	3	6	68	No 78	Ja 58	78	77		1		119,852
43 Cotton goods.....	14	11,951	89	65	34	11,763	De 13,511	Mh 6,661	13,522	7,034	6,378	63	47		54,738,225
44 Druggists' preparations.....	3	19	3		1	15	(*) 15	(*) 15	15	5	10				83,322
45 Fertilizers.....	10	243	7	18	28	16	174	Ja 261	No 121	170	167	3			3,347,807
46 Flavoring extracts.....	10	47	5	6	1	5	30	Au 38	Ja 23	35	10	24	1		265,942
47 Flour-mill and gristmill products.....	118	299	114	25	6	10	144	De 156	Au 134	169	154	15			2,706,040
48 Food preparations, not elsewhere specified.....	7	18	5	1			12	No 33	Ja 4	35	9	25	1		12,868
49 Foundry and machine-shop products.....	73	2,468	67	98	68	64	2,171			2,270	2,234	35	1		8,152,795
50 Boiler shops and foundries.....	8	245	3	21	6	3	212	De 293	Fe 197	291	288	3			649,361
51 Machine shops.....	51	1,002	60	22	15	24	881	Ja 930	De 748	955	948	7			2,627,187
52 Machine shop and foundry combined.....	14	1,221	4	55	47	37	1,078	Ja 1,198	No 989	1,024	998	25	1		4,876,247
53 Furniture.....	10	378	9	19	23	35	292			365	338	27			1,521,046
54 Wood, other than rattan and willow.....	7	333	8	14	20	35	256	De 327	Ja 129	329	302	27			1,492,455
55 Store and office fixtures.....	3	45	1	5	3		36	Ap 38	Fe 34	36	36				59,211
56 Gas, illuminating and heating.....	13	309		32	33	24	220	No 245	Jy 207	218	214	3	1		4,431,373
57 Glucose and starch.....	26	297	28	9	3	2	255	Ap 547	Au 67	666	612	49	5		931,298
58 Hair work.....	4	22	5	1	1	1	15	(*) 15	(*) 15	16	2	14			6,735
59 Hand stamps.....	3	7	2				5	(*) 5	(*) 5	5	4	1			5,144
60 Jewelry.....	3	10	3				6	(*) 6	(*) 6	7	7				10,786
61 Leather, tanned, curried, and finished.....	9	337	2	21	3	5	306	De 374	My 270	376	303	13			2,607,111
62 Liquors, malt.....	3	5	3				2	Ap 3	Oc 1	3	3				10,142
63 Lumber and timber products.....	627	11,066	694	280	206	92	9,784	No 11,423	Jy 8,278	13,065	13,548	112	4	1	29,743,391
64 Lumber, planing-mill products, not including planing mills connected with sawmills.....	56	918	58	40	25	15	780	No 909	Mh 566	806	777	27	1	1	3,658,153
65 Machine tools.....	3	8	3				5	(*) 5	(*) 5	5	5				15,697
66 Marble and stone work.....	130	1,259	146	37	18	17	1,041			1,294	1,290	2	2		1,991,005
67 Monuments and tombstones.....	95	300	112	7	7	6	168	Jy 191	Ja 109	193	189	2	2		533,707
68 All other.....	35	959	34	30	11	11	873	Je 124	Fe 374	1,101	1,101				1,457,298

* 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—MAINE.

TABLE 33.—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	Mattresses and spring beds, not else- where specified.	6	63	5	4	2	52	Jy	61	Ja	42	51	30	21	Dollars. 161,435
2	Mineral and carbonated waters.	47	178	50	16	5	7	100	Au	145	Ja	60	97	93	408,030
3	Minerals and earths, ground or other- wise treated.	4	85	9				76	My	88	Ja	62	62	62	80,483
4	Oil, vegetable and animal.	3	15	1	5			9	Se	22	Ja	0	22	22	85,998
5	Optical goods.	4	20	3	1	2	14	(*)	14	(*)	14	15	14	1	24,485
6	Paper and wood pulp.	39	14,373	10	329	670	306	13,058	De	770	My	618	13,462	12,776	130,702,071
7	Paper exclusively.	7	794	1	33	39	22	699	Oc	1,541	Ja	1,261	801	715	4,802,702
8	Pulp exclusively.	14	1,470	9	42	33	17	1,369	Se	11,410	Ap	10,515	1,462	1,458	11,896,125
9	Paper and pulp.	18	12,109	254	598	267	10,990	10,990					11,199	10,603	114,003,244
10	Patent medicines and compounds.	19	63	17	5	4	7	30	No	35	Fe	22	39	17	227,633
11	Patent and proprietary medicines.	13	55	12	5	4	6	28	Au	4	Ja	1	34	14	217,277
12	Patent and proprietary com- pounds, not elsewhere specified.	6	8	5		1	2	2					5	3	10,356
13	Photo-engraving.	3	13	5			8	Jy	18	Ja	2	16	4	12	15,734
14	Pickles, preserves, and sauces.	5	16	3	4	1	8	Ja	9	No	6	8	5	3	29,924
15	Printing and publishing, book and job.	97	557	96	44	11	26	380	De	407	Fe	362	418	280	971,024
16	Job printing.	94	540	93	44	8	23	372	(*)	8	(*)	8	409	276	921,060
17	All other.	3	17	3	3	3	3	(*)	(*)	(*)	(*)	9	4	3	50,564
18	Printing and publishing, newspapers and periodicals.	69	1,510	39	83	110	124	1,154				1,182	657	517	2,792,096
19	Printing and publishing.	9	822	1	44	60	58	659	Mh	714	Au	563	681	336	1,707,539
20	Printing, publishing, and job printing.	57	684	36	37	50	66	495	Fe	508	Oc	482	498	319	1,682,307
21	Publishing without printing.	3	4	2	2				My	9	No	7	9	9	2,250
22	Saddlery and harness.	9	17	9			8	8	Au	24	Ap	17	22	22	24,644
23	Sausage, not made in slaughtering and meat-packing establishments.	9	36	5	6	3	2	20							75,336
24	Shipbuilding, steel.	6	4,804	5	141	101	72	4,485	Mh	5,125	Oc	3,946	4,499	4,464	9,270,448
25	Shipbuilding, wooden, including boat building.	76	2,742	61	99	32	35	2,515					2,642	2,633	6,537,165
26	New vessels.	38	2,256	22	82	23	24	2,105	Fe	2,007	De	1,208	2,138	2,132	5,673,179
27	Small boats and repair work.	33	474	33	17	9	11	404	My	623	Oc	189	498	495	845,501
28	Masts, spars, oars, and rigging.	5	12	6			6	6	Ja	7	Se	8	6	6	18,485
29	Shirts.	11	631	12	19	24	30	546	De	606	Ja	496	606	120	1,178,043
30	Slaughtering and meat packing.	17	156	17	8	7	1	123	De	134	Mh	116	133	128	608,214
31	Sporting and athletic goods.	5	37	1	1	2	26	No	38	Je	18	38	34	4	70,235
32	Stoves and ranges.	4	198	1	9	15	8	165	De	187	Jy	125	180	182	662,688
33	Textile machinery and parts.	10	1,871	8	59	34	38	1,732	De	1,904	Ja	1,605	1,904	1,850	3,014,700
34	Tinware, not elsewhere specified.	8	443	3	7	32	21	380	Au	577	Ja	196	534	362	2,887,010
35	Tobacco, cigars.	52	236	59	6	3	2	166	De	222	Ja	130	233	172	220,989
36	Tools, not elsewhere specified.	10	66	9	3	1	3	50	My	57	Ja	41	54	51	245,145
37	Vinegar and cider.	47	72	51	2	1	2	18					44	41	127,267
38	Vinegar.	13	30	15	2	1	2	10	Oc	23	Ap	6	14	11	94,248
39	Cider.	34	42	36			6	6	Oc	29	Ja	0	30	30	33,019
40	Wood, turned and carved.	54	1,442	36	84	12	27	1,283	Ap	1,395	Se	1,191	1,371	1,195	3,674,144
41	Wooden goods, not elsewhere specified.	14	524	7	25	9	7	476	Ap	565	Jy	374	546	366	1,664,972
42	Wooden goods.	59	7,387	10	274	108	80	6,915	De	8,168	Fe	4,693	8,008	5,388	33,863,497
43	Worsted goods.	7	3,092	57	21	16	16	2,998	De	3,415	Je	2,621	3,415	1,967	15,845,398
44	All other industries*.	146	5,499	92	250	321	229	4,607							25,945,621

*All other industries embrace—
Agricultural implements. 2
Babbitt metal and solder. 1
Bags, paper, exclusive of those made
in paper mills. 3
Belting, leather. 1
Billiard tables and accessories. 1
Blacking, stains, and dressings. 2
Bluing. 1
Boot and shoe cut stock. 2
Boots and shoes, rubber. 1
Buttons. 2
Carriage and wagon materials. 2

Cash registers and calculating ma-
chines. 1
Cement. 2
Chemicals. 2
Chewing gum. 2
Clothing, horse. 1
Condensed milk. 1
Cordage and twine. 1
Cordials and flavoring sirups. 1
Cutlery and edge tools, axes and
hatchets. 5
Dental goods. 2
Dyeing and finishing textiles, exclu-
sive of that done in textile mills. 1

Electrical machinery, apparatus, and
supplies. 1
Engines, steam, gas, and water. 3
Engraving and diesinking. 1
Engraving, steel and copper plate,
including plate printing. 1
Envelopes. 1
Fancy articles, wood novelties. 1
Felt goods. 2
Files. 1
Fireworks. 1
Fur goods. 5
Furnishing goods, men's. 1
Furs, dressed. 1

Galvanizing. 1
Glass, cutting, staining, and orna-
menting. 2
Gloves and mittens, cloth, not includ-
ing gloves made in textile mills. 2
Grease and tallow, not including
lubricating greases. 4
Hammocks. 1
Hardware. 2
Hats, fur-felt. 1
House-furnishing goods, not elsewhere
specified. 2
Ice, manufactured. 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).

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. 18,907	Dollars. 1,827	Dollars. 31,127	Dollars. 1,625	Dollars. 4,104	Dollars. 137,254	Dollars. 2,144	Dollars. 225,900	Dollars. 80,502	157						157	1
22,030	10,151	95,549	14,370	12,554	24,054	513,572	10,938	817,972	293,402	230		20		8	202	1
29,236	2,737	86,936	4,388	1,902	12,865	67,555	11,753	265,759	186,451	654		10		14	510	2
5,260		17,033			283	504	31,796	2,077	73,325	117		80		37		4
2,080	1,210	16,618			1,328	232	34,735	493	74,778	8						5
2,168,768	1,548,411	10,507,569	152,056	187,234	0,368,006	46,082,333	7,988,255	93,916,028	39,246,040	201,223	45,655	12,348			202,302	30,918
161,654	86,347	753,301			323,639	3,308,803	305,267	5,347,804	1,673,744	11,083	4,022				6,718	41,433
202,047	78,508	1,616,237	1,215	159,296	579,817	5,561,807	678,428	9,169,070	2,928,775	55,111	3,600	1,353			50,060	1,125
1,805,067	1,383,556	14,137,941	150,841	27,938	5,464,550	37,761,663	7,004,570	79,409,754	34,643,521	225,020	38,033	10,995			145,524	30,477
23,236	8,873	19,030		4,175	7,551	112,103	1,508	312,342	108,641	27						27
23,236	8,798	19,305		4,115	7,458	108,724	1,473	302,007	191,810	27						27
	75	625		60		3,379	125	10,335	6,831							11
		0,072		558	47	10,885	650	27,932	10,388	6						13
2,133	500	6,197		917	674	90,032	2,455	107,397	14,910	85		50		5	30	14
83,481	33,079	344,755	17,827	20,341	10,804	406,854	17,703	1,103,897	770,280	655		4		37	1	15
83,481	24,978	334,977	10,012	25,082	10,051	395,061	17,263	1,147,155	734,201	653		4		37	1	16
	8,101	9,778	7,815	659	153	10,103	600	46,742	36,070	2						17
191,189	227,346	900,908	110,418	44,402	123,026	1,828,510	52,402	4,561,473	2,680,495	1,242	320			16	7	207
106,955	143,351	480,811		20,486	80,404	1,405,936	3,233,334	1,738,796	936,170	443	260				7	383
82,934	83,995	420,097	108,835	23,731	30,017	300,211	28,860	1,320,241	936,170	590	60			16		205
																2
1,300			1,583	245	5	2,309		7,898	5,529	2				2		21
		9,992		2,400	380	20,073	448	49,621	28,200							22
11,676	2,763	23,950		2,074	642	206,100	7,387	300,897	87,350	280	75					23
477,953	245,651	6,402,134	36,489	7,657	219,256	4,734,651	188,561	14,003,706	9,080,494	4,326	50				4,270	24
424,532	77,001	3,397,889	20,103	13,712	215,890	4,842,748	70,880	10,678,547	5,758,919	4,070	859			96	8	3,107
369,975	60,487	2,813,400	25,455	4,590	103,723	4,517,612	54,489	9,449,309	4,877,208	3,325	479			39	8	2,709
54,557	16,514	570,048	3,048	8,936	52,072	310,193	21,441	1,203,806	860,202	714	380			57		277
		7,841		186	95	8,943	950	25,342	15,449	31						31
67,430	50,702	328,745	222	2,592	11,486	1,539,411	11,567	2,211,804	660,826	157					20	137
32,525	11,226	132,943	1,494	5,640	0,927	1,034,788	12,380	2,042,930	395,492	325	45			4		276
4,436	3,642	29,339	300	283	363	27,550	1,160	80,108	67,658	90	12			8		70
46,720	24,896	178,902		4,736	14,898	118,034	19,037	479,479	348,408	224	200					24
218,631	100,920	2,033,078		7,314	145,952	2,551,024	65,163	6,134,677	3,518,460	3,324	265	1,072			203	1,784
27,471	63,453	353,663		4,529	139,530	2,203,920	32,235	3,105,349	869,194	471	260	125			10	76
5,981	2,191	153,417		8,423	55,671	257,993	2,995	555,280	294,322	4						4
7,358	3,066	40,490		1,078	6,257	88,075	8,473	202,663	105,515	197	15			6	57	119
1,400	2,126	11,079	52	803	2,248	58,788	2,284	143,302	82,230	386	69			190	71	56
1,400		0,421			409	48,838	1,094	92,264	42,332	113	25			41	22	25
		4,658	52		1,770	0,950	1,160	51,038	39,808	273	44			149	49	31
184,346	37,133	1,030,564	65,351	2,803	75,854	1,681,589	20,759	3,647,106	1,944,818	5,349	3,898			68	997	686
51,478	16,033	350,392		1,374	19,421	666,317	7,420	1,300,557	687,811	2,358	1,765			33	154	406
1,210,609	244,118	7,926,318	176,453	10,073	2,432,674	25,014,080	701,551	42,441,583	10,725,952	21,941	6,380			197	10,063	5,351
2,5,635	47,194	3,111,432	189,975	7,958	1,191,542	10,167,784	343,393	17,885,677	7,374,550	6,432	1,590				1,405	3,437
901,946	854,180	4,672,644	59,252	93,355	1,223,933	10,820,397	932,305	30,533,103	12,780,401	10,524	5,384			48	2,840	8,252

Iron and steel, steel works and rolling mills.
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.
Iron and steel, welding.
Knit goods.
Lapidary work.
Lasts.
Lime.
Looking-glass and picture frames.
Millinery and lace goods, embroideries.
Models and patterns, not including paper patterns.

Mucilage, paste, and other adhesives, not elsewhere specified.
Musical instruments and materials, not elsewhere specified.
Musical instruments, pianos.
Nets and seines.
Oilcloth and linoleum, floor.
Oilcloth, enameled.
Paints.
Paper goods, not elsewhere specified.
Paving materials.
Perfumery and cosmetics.
Plated ware, hollow ware.

Plumbers' supplies, not elsewhere specified.
Pocketbooks.
Pulp goods.
Refrigerators.
Rules, ivory and wood.
Sand and emery paper and cloth.
Saws.
Signs and advertising novelties.
Silk goods.
Springs, steel, automobile.
Steam packing.
Stencils and brands.
Stereotyping and electrotyping.

Structural ironwork, not made in steel works or rolling mills.
Surgical appliances.
Toys and games.
Trunks and valises.
Type founding.
Upholstering materials, excelsior.
Varnishes.
Vault lights and ventilators.
Window and door screens.
Wirework, not elsewhere specified.
Wool pulling.
Wool shoddy.

³ Same number reported for one or more other months.

⁴ None reported for one or more other months.

⁵ Same number reported throughout the year.

MANUFACTURES—MAINE.

TABLE 33.—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.

																Dollars.
1	PORTLAND—All industries.....	308	6,710	206	408	286	324	5,480	Jy 5,756	Mh 5,147	6,538	4,634	1,807	24	13	22,194,281
2	Automobile bodies and parts.....	3	37	4	1	4	28	28	Au ^s 35	Fe 20	31	31	.....	.....	.....	15,341
3	Automobile repairing.....	18	133	10	10	3	15	95	Je 108	De 84	94	93	1	.....	.....	202,461
4	Awnings, tents, and sails.....	3	15	3	1	2	9	9	No 11	Ap ^s 8	9	8	1	.....	.....	40,073
5	Bookbinding and blank-book making.....	5	48	0	2	.....	1	39	De 42	Je ^s 37	42	20	21	1	.....	45,801
6	Boxes, paper and other, not elsewhere specified.....	3	135	7	.....	2	126	De 145	Ja 111	146	23	121	.....	2	.....	129,168
7	Bread and other bakery products.....	36	307	30	13	25	9	224	Au 236	Ja 201	236	160	72	1	3	530,378
8	Canning and preserving, fish.....	8	315	1	21	1	11	281	Je 386	Oc 215	318	175	143	.....	.....	1,582,253
9	Confectionery and ice cream.....	18	203	14	21	9	17	142	.....	.....	162	82	80	.....	.....	630,591
10	Confectionery.....	15	151	14	13	3	11	110	Oc 146	Jy 85	132	54	78	.....	.....	348,996
11	Ice cream.....	3	52	8	0	0	6	32	Jy 45	Fe 19	30	28	2	.....	.....	281,595
12	Copper, tin, and sheet-iron work.....	11	70	16	4	1	5	44	Se ^s 52	Ja 34	53	52	.....	1	.....	71,166
13	Flavoring extracts.....	7	44	2	6	1	5	30	Au 39	Ja 25	34	9	24	1	.....	264,222
14	Flour-mill and gristmill products.....	5	17	2	4	2	1	8	(^t) 8	(^t) 8	8	8	.....	.....	.....	243,905
15	Food preparations, not elsewhere specified.....	3	6	2	.....	.....	4	4	Je ^s 5	Ja ^s 3	4	2	1	1	.....	4,130
16	Foundry and machine-shop products.....	18	871	15	46	37	36	737	Ja 893	De 510	710	706	3	1	.....	3,006,169
17	Liquors, malt.....	3	5	3	.....	.....	2	2	Ap ^s 3	Oc ^s 1	3	3	.....	.....	.....	10,142
18	Lumber, planing-mill products, not including planing mills connected with sawmills.....	6	376	15	13	8	8	340	Jy 423	Mh 181	330	313	15	1	1	1,113,963
19	Marble and stone work.....	6	32	4	1	.....	1	26	Jy ^s 30	Ja 17	26	26	.....	.....	.....	43,917
20	Mineral and carbonated waters.....	4	42	2	4	1	3	32	Au 46	Ja 23	25	24	1	.....	.....	82,727
21	Patent and proprietary medicines.....	3	18	6	.....	.....	12	12	Ap 14	De 10	12	6	6	.....	.....	14,977
22	Printing and publishing, book and job.....	29	287	25	26	10	19	207	.....	.....	222	153	64	5	.....	418,302
23	Job printing.....	26	270	22	26	7	16	199	De 214	Fe ^s 193	213	149	61	3	.....	367,738
24	All other.....	3	17	3	3	3	3	8	(^t) 8	(^t) 8	9	4	3	2	.....	50,564
25	Printing and publishing, newspapers and periodicals.....	3	232	1	19	46	39	127	Se ^s 131	Fe ^s 121	130	96	33	1	.....	510,098
26	Tobacco, cigars.....	5	24	6	.....	.....	18	18	De 42	Mh 7	42	32	10	.....	.....	35,316
27	All other industries *.....	111	3,493	52	204	134	148	2,955	.....	.....	3,901	2,612	1,271	11	7	13,202,121

*All other industries embrace—	Buttons.....	2	Cash registers and calculating machines.....	1	Electrical machinery, apparatus, and supplies.....	1
Artificial stone products.....	Canning and preserving, vegetables.....	2	Chewing gum.....	1	Engines, steam, gas, and water.....	1
Babbitt metal and solder.....	Carpets, rag.....	2	Cleaning and polishing preparations.....	2	Engraving and diesinking.....	1
Bags, paper, exclusive of those made in paper mills.....	Carriage and wagon materials.....	1	Clothing, men's.....	3	Engraving, steel and copper plate, including plate printing.....	1
Billiard tables and accessories.....	Carriages and wagons, including repairs.....	2	Clothing, women's.....	6	Fur goods.....	1
Blacking, stains, and dressings.....	Cars and general shop construction and repairs by electric-railroad companies.....	1	Coffee, roasting and grinding.....	2	Furniture.....	5
Boots and shoes, not including rubber boots and shoes.....	Cars and general shop construction and repairs by steam-railroad companies.....	1	Coffins, burial cases, and undertakers' goods.....	1	Gas, illuminating and heating.....	1
Boxes, wooden packing, except cigar boxes.....	.....	2	Cooperage.....	2	Glass, cutting, staining, and ornamenting.....	2
Brass and bronze products.....	.....	1	Cordials and flavoring sirups.....	1	Grease and tallow, soap stock.....	2
Brick, sewer pipe, and drain tile.....	.....	3	Druggists' preparations.....	1	.....	.....

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

1	AUBURN.....	74	6,658	58	223	184	343	5,850	De 7,248	Jy 4,691	7,204	4,655	2,605	4	.....	16,143,506
2	AUGUSTA.....	44	2,552	47	74	31	57	2,343	De 2,486	Ap 2,188	2,699	1,751	915	24	9	7,715,103
3	BANGOR.....	106	1,455	82	82	79	59	1,153	No 1,233	Ja 1,067	1,293	1,020	272	1	.....	5,389,581
4	BATH.....	38	5,752	32	183	116	109	5,312	Mh 6,025	Oc 4,685	5,403	5,296	87	19	1	12,092,906
5	BIDDEFORD.....	49	4,694	44	72	56	53	4,469	De 5,501	Mh 1,788	5,512	3,934	1,562	8	8	18,714,699
6	LEWISTON.....	109	6,987	91	113	108	109	6,566	De 7,125	Mh 5,853	7,120	3,744	3,361	11	10	25,384,662
7	WATERTOWN.....	49	2,609	36	63	50	28	2,432	De 2,577	Ja 2,350	2,739	1,784	912	24	19	10,320,144

* 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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[illegible]

<i>Dollars.</i> 1,285,701	<i>Dollars.</i> 557,953	<i>Dollars.</i> 6,008,907	<i>Dollars.</i> 59,213	<i>Dollars.</i> 232,240	<i>Dollars.</i> 921,353	<i>Dollars.</i> 14,888,938	<i>Dollars.</i> 701,505	<i>Dollars.</i> 20,167,965	<i>Dollars.</i> 13,577,522	11,520	4,004	205	21	7,299	1,875
6,248	1,774	32,179		3,038	182	19,208	1,311	68,347	47,828	44				44	
17,291	14,339	116,005		11,335	3,465	110,220	6,241	302,922	186,452	75			2	73	
1,348		13,808		1,020	243	24,434	388	61,425	36,603	5				5	
4,662	600	26,977	103	2,075	148	70,933	445	112,599	41,191	15				15	
9,779	1,702	56,110		1,632	1,328	72,008	1,841	176,352	102,443	28				28	
39,725	23,107	327,693		11,749	17,466	1,241,855	27,284	1,825,359	556,220	113				113	
89,666	18,961	240,463		8,628	37,027	1,478,642	20,081	2,047,731	549,008	296				212	
50,380	13,333	128,830		23,201	51,767	604,946	13,255	1,026,682	407,881	50	204	130		246	
23,135	7,563	82,359		11,250	27,869	238,814	8,451	449,434	210,210	150	50			100	
27,245	5,770	46,471		12,041	23,908	306,132	4,804	559,598	188,662	146				146	
7,844	2,358	59,456	280	3,209	745	47,049	839	159,861	111,382	3				3	
32,200	5,419	20,849		1,142	42,499	311,853	907	581,916	290,156	10				10	
8,125	1,900	9,436		4,824	2,171	458,752	3,663	521,002	58,587	220				220	
		2,825		1,324	85	12,838	782	20,448	6,828	7				7	
199,450	70,266	1,026,050	6,632	8,040	189,352	1,781,686	59,449	4,195,381	2,354,240	2,246	100			2,146	
		1,800		320	2,231	1,642	128	5,695	4,025						
60,857	23,482	339,309		16,451	13,957	573,009	15,300	1,095,464	506,249	1,721	1,320			401	91
2,600	1,000	37,203		2,220	601	32,075	2,101	100,566	65,730	51				51	
4,980	2,939	27,118	14,370	3,534	8,778	197,562	5,359	278,091	75,170	38				38	
		7,718		1,000	556	31,693	166	56,980	25,181	2				2	
48,701	26,900	201,338	14,637	14,451	3,934	224,784	7,978	681,484	448,722	286				286	
48,701	18,799	191,560	6,822	13,792	3,781	214,621	7,478	434,742	412,643	284				284	
	8,101	9,778	7,815	659	153	10,163	500	46,742	36,079	2				2	
49,563	65,178	136,229		12,386	3,896	272,562	16,993	746,533	450,975	322	260			62	205
		21,325		1,042	8,503	40,848	318	76,389	35,223	2				2	
671,276	284,107	3,170,120	23,791	60,407	532,329	7,278,270	516,739	15,027,428	7,232,419	5,499	2,070	75	19	3,335	1,579

Hair work	2	Models and patterns, not including	1	Sausage, not made in slaughtering	1	Stoves and ranges	1
Hand stamps	1	paper patterns	1	and meat-packing establishments ..	1	Structural ironwork, not made in steel	1
Hardware, locks	1	Musical instruments and materials,	1	Saws	1	works or rolling mills	1
Hats, fur-felt	1	not elsewhere specified	1	Shipbuilding, steel, repair work ..	1	Tinware, not elsewhere specified ..	3
House-furnishing goods, not elsewhere		Oils, animal	1	Shipbuilding, wooden, including boat	1	Toys and games	1
specified	2	Optical goods	1	building	2	Trunks and valises	1
Ice, manufactured	2	Paints	1	Shirts	1	Varnishes	1
Iron and steel, welding	1	Perfumery and cosmetics	4	Signs and advertising novelties ..	2	Vinegar	1
Jewelry	1	Photo-engraving	1	Slaughtering and meat packing ..	1	Woden goods, not elsewhere speci-	2
Leather, tanned, curried and finished	1	Pickles and sauces	1	Steam packing	1	fied	
Looking-glass and picture frames ..	1	Plated ware, hollow ware	1				
Mattresses and spring beds, not else-		Pocketbooks	1				
where specified	4						

713, 375	733, 801	5, 249, 074	4, 848	25, 451	1, 069, 989	15, 450, 584	147, 224	27, 852, 043	12, 245, 235	5, 335	944	31	15	800	3, 545	5
277, 778	198, 731	2, 017, 777	804	281, 595	1, 622, 086	6, 468, 924	158, 334	11, 980, 239	5, 352, 981	8, 193	750	-----	-----	6, 180	1, 283	700
208, 174	134, 070	1, 074, 606	2, 292	41, 350	125, 415	3, 100, 751	125, 710	5, 544, 940	2, 268, 470	2, 819	1, 418	-----	25	217	1, 169	126
701, 913	342, 342	7, 504, 941	47, 244	15, 918	787, 188	6, 804, 801	244, 876	19, 377, 323	12, 388, 086	6, 436	730	-----	-----	-----	6, 706	75
235, 161	120, 940	4, 790, 009	480, 081	13, 854	1, 141, 166	10, 763, 600	288, 201	20, 634, 401	9, 582, 501	28, 671	7, 295	11, 125	38	7, 463	2, 750	7, 826
435, 844	231, 023	6, 497, 434	102, 814	41, 937	1, 872, 948	16, 163, 314	483, 336	29, 733, 387	13, 118, 737	25, 450	3, 690	-----	-----	19, 349	2, 302	4, 723
274, 360	200, 342	2, 350, 408	2, 703	5, 618	231, 847	5, 233, 610	211, 819	9, 966, 528	4, 521, 593	9, 075	183	-----	100	6, 200	2, 722	1, 370

⁴ Same number reported throughout the year.

* Excludes Sanford, to avoid disclosure of individual operations.

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

MARYLAND

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

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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 \$300, 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 bulletin 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 comparison 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 continuous operation. This total, however, is shown for the different states, 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.

MARYLAND.

GENERAL STATISTICS.

General character of the state.—Maryland has a gross area of 12,327 square miles, of which 9,941 represent land surface. The inhabitants of the state in 1900 numbered 1,188,044; in 1910, 1,295,346; and in 1920, 1,449,661. The number of inhabitants per square mile in 1910 was 130.3, the corresponding figure for 1920 being 145.8.

In 1920 there were five cities in the state—Annapolis, Baltimore, Cumberland, Frederick, and Hagerstown—having more than 10,000 inhabitants. The combined population of these five cities in that year was 814,007, which formed 56.2 per cent of the total for Maryland, and in 1919 these cities reported 82.3 per cent of the value of the state's manufactured products.

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 change 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 shown, however, in the 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 large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for 1919 with those of prior censuses. Although Baltimore is an independent city and not a part of any county, it is included in this table in order to show the complete statistics for the state. This city alone reported 69.7 per cent of the average number of wage earners, and 77.6 per cent of the total value of products for the state.

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 in many instances would change materially if based upon the average number of wage earners or 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 32.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 1,000 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).—General increases are shown from 1914 to 1919 in practically all of the details for the cities included in this table. Statistics for Annapolis were not shown separately until 1919 and therefore comparative figures are not available.

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. This table also includes selected industries showing a large proportion of female wage earners. The five cities combined reported 76.2 per cent of all wage earners employed during 1919.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Maryland. In that year 13.1 per cent of the wage earners were included in the group "48 and under," as against 49.6 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 34.2 per cent of the total wage earners, as compared with 8.8 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, 95.3 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed 32.8 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 4.7 per cent of the total number of manufacturing establishments in the state, but reported 67.2 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. This table, therefore, gives combined figures for these two groups for all items for 1909, and in the case of 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 preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 24.5 per cent of the number of establishments in the state in 1919, they reported 79 per cent of the average number of wage earners and 80.9 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 42,476, or 62.1 per cent, and the value of products, \$442,550,892, or 167.1 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 five cities in 1919 represented 62.6 per cent of the total in the state. They reported in that year 76.2 per cent of the average number of wage earners and 82.3 per cent of the total value of products.

Principal industries in the city of Baltimore, with per cent of total for state (Table 16).—This table includes all industries in Baltimore city having products of \$1,000,000 and over, the figures being given for those which can be shown without disclosing the operations of individual establishments.

It is deemed of first importance to present the statistics of the state as a whole for all industries which can be shown without disclosing the operations of individual establishments. In so doing it sometimes happens that quite important industries can not be shown in the city, since to do so might disclose the operations of establishments located outside by the simple deductions of the totals shown for the industry in the city from those given in the detailed state table.

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 143,015 horsepower, or 54.2 per cent. This increase, however, is chiefly due to the gain of 111,365 horsepower, or 254.3 per cent, in rented power. The owned power increased 31,650 horsepower, or 14.4 per cent, during the five-year period.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by 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. There was a decided increase in the quantities of each of the several kinds of fuel used in 1919, as compared with 1914, except in anthracite coal, which decreased 48.9 per cent.

MANUFACTURES—MARYLAND.

5

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.....	4,937	4,797	4,837	3,852	3,880	2.9	-0.8	25.6	-0.9
Persons engaged.....	165,875	131,391	125,489	107,303	(?)	26.2	4.7	16.9	.....
Proprietors and firm members.....	5,120	5,005	5,376	4,505	(?)	2.5	-0.9	19.3	.....
Salaried employees.....	20,404	14,801	12,192	8,624	6,741	37.0	21.4	41.4	27.9
Wage earners (average number).....	140,342	111,685	107,921	94,174	94,170	25.8	3.4	14.6	(?)
Primary horsepower.....	406,768	263,753	218,244	165,449	132,062	54.2	20.8	31.9	25.3
Capital.....	\$610,606,983	\$293,210,025	\$251,226,828	\$201,877,966	\$149,155,313	111.3	16.7	24.4	35.3
Salaries and wages.....	189,870,652	71,801,109	59,052,718	44,988,240	39,259,517	164.4	21.6	31.3	14.6
Rent and taxes.....	42,004,007	18,008,770	13,610,839	8,843,996	6,845,088	133.2	32.2	51.0	29.2
Wages.....	147,806,645	53,792,339	45,435,829	36,144,244	32,414,429	174.9	18.4	25.7	11.5
Paid for contract work.....	8,150,474	3,223,268	3,278,207	2,543,602	(?)	152.9	-1.7	28.9	.....
Rent and taxes.....	24,092,617	11,476,901	8,783,915	4,203,099	(?)	109.1	30.7	.....	.....
Cost of materials.....	549,347,379	238,671,973	199,048,906	150,024,066	129,854,412	129.9	20.1	32.7	16.6
Value of products.....	873,944,774	377,749,078	315,669,150	243,876,996	211,070,143	131.4	19.7	29.7	15.3
Value added by manufacture ²	324,597,395	138,777,105	116,620,245	93,851,930	81,721,731	133.9	19.0	24.9	14.2

¹ A minus sign (—) denotes decrease.

² Figures not available

³ Less than one-tenth of 1 per cent.

⁴ Exclusive of internal revenue.

⁵ Value of products less cost of materials.

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 horsepower.
		Average number.	Wages.					
The state.....	4,937	140,342	\$147,806,645	\$24,002,017	\$549,347,379	\$873,944,774	\$324,597,395	406,768
Allegany.....	144	5,900	7,228,503	563,523	14,073,886	25,512,139	11,438,253	30,013
Anne Arundel.....	53	1,863	2,070,996	128,052	3,677,061	6,945,472	3,398,411	3,560
Baltimore.....	117	13,391	18,328,771	748,843	38,701,507	62,865,555	24,164,048	109,896
Baltimore city ¹	2,797	97,814	103,129,096	21,025,144	427,755,804	677,878,492	250,122,688	184,885
Calvert.....	17	222	256,665	17,423	361,971	739,617	377,040	320
Caroline.....	110	789	342,138	20,948	2,044,382	2,644,386	600,004	2,660
Carroll.....	135	1,418	1,395,997	205,379	6,820,143	9,920,336	3,190,193	6,541
Cecil.....	87	1,281	1,354,322	96,906	4,315,116	6,715,764	2,400,648	6,656
Charles.....	29	116	72,596	1,875	182,996	314,612	131,616	553
Dorchester.....	116	1,530	690,950	59,308	3,967,988	5,449,236	1,491,248	3,201
Frederick.....	193	2,723	2,385,116	190,713	9,189,866	14,042,972	4,853,106	8,268
Garrett.....	58	305	208,961	23,865	555,672	1,266,767	711,095	2,138
Harford.....	107	1,085	699,204	73,000	2,257,958	3,693,374	1,435,416	4,891
Howard.....	20	782	667,580	204,994	6,039,274	8,315,802	2,276,528	5,051
Kent.....	45	294	147,047	13,119	807,542	1,234,439	366,897	1,548
Montgomery.....	66	174	185,330	10,092	1,024,448	1,432,354	407,906	1,739
Prince Georges.....	67	204	449,037	10,818	640,515	1,105,412	464,897	740
Queen Annes.....	44	346	169,053	9,724	703,751	1,156,655	452,904	1,102
St. Marys.....	45	125	62,854	2,011	225,616	366,685	141,069	797
Somerset.....	98	936	441,540	18,461	1,787,670	2,494,320	706,650	3,828
Talbot.....	91	964	487,843	69,707	1,904,659	3,047,645	1,142,986	2,927
Washington.....	191	5,090	5,027,208	394,268	15,877,719	25,886,361	10,188,642	16,871
Wicomico.....	143	2,044	1,465,037	87,331	5,011,582	8,314,262	3,302,680	6,308
Worcester.....	104	797	504,725	25,355	1,670,253	2,622,117	951,864	3,269

¹ An independent city, included to complete the statistics for the state.

MANUFACTURES—MARYLAND.

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).	Per cent. distribution.	Amount (expressed in thousands).	Per cent. distribution.			Average number.	Per cent. distribution.	Amount (expressed in thousands).	Per cent. distribution.	Amount (expressed in thousands).	Per cent. distribution.
All industries.....	4,937	140,342	100.0	\$873,945	100.0	\$324,597	100.0	Coffee and spice, roasting and grinding.....	15	203	0.1	\$5,884	0.7	\$1,193	0.4
Shipbuilding, steel.....	4	17,212	12.3	60,844	7.0	32,554	10.0	Chemicals.....	8	797	0.6	5,277	0.6	2,079	0.6
Clothing, men's.....	284	9,256	6.6	60,414	6.9	29,405	9.1	Brass, bronze, and copper products.....	20	926	0.7	5,058	0.6	2,062	0.6
Slaughtering and meat packing.....	47	1,563	1.1	41,439	4.8	7,919	2.4	Automobile repairing.....	212	1,101	0.8	4,874	0.6	2,505	0.8
Fertilizers.....	45	3,102	2.2	37,014	4.2	12,319	3.8	Hats, straw.....	7	1,355	1.0	4,719	0.5	2,744	0.8
Canning and preserving, fruits and vegetables.....	406	7,645	5.4	28,422	3.3	7,761	2.4	Boots and shoes.....	13	986	0.7	5,277	0.6	1,555	0.5
Tinware, not elsewhere specified.....	28	4,233	3.0	25,454	2.9	6,654	2.0	Lumber and timber products.....	393	1,844	1.3	4,624	0.5	2,985	0.9
Cars and general shop construction and repairs by steam-railroad companies.....	17	8,363	6.0	22,837	2.6	13,339	4.1	Glass.....	8	1,755	1.3	4,032	0.5	2,983	0.9
Bread and other bakery products.....	424	2,381	1.7	20,494	2.3	7,506	2.3	Structural ironwork, not made in steel works or rolling mills.....	12	623	0.4	3,808	0.4	2,015	0.6
Iron and steel, steel works and rolling mills.....	5	4,944	3.5	19,884	2.3	4,864	1.5	Brushes.....	9	771	0.5	3,509	0.4	1,615	0.5
Flour-mill and gristmill products.....	247	478	0.3	19,004	2.2	2,647	0.8	Paints.....	14	258	0.2	3,377	0.4	983	0.3
Cotton goods.....	14	3,416	2.4	18,455	2.1	7,027	2.2	Brick and tile, terra-cotta, and fire-clay products.....	30	1,207	0.9	3,207	0.4	2,095	0.6
Confectionery and ice cream.....	170	3,008	2.1	17,995	2.1	6,659	2.1	Bags, other than paper, not including bags made in textile mills.....	12	183	0.1	3,133	0.4	407	0.1
Foundry and machine-shop products.....	133	4,081	2.9	15,721	1.8	10,161	3.1	Lithographing.....	6	542	0.4	3,124	0.4	1,859	0.6
Furnishing goods, men's.....	23	4,075	2.9	14,596	1.7	6,299	1.9	Oil, not elsewhere specified.....	6	118	0.1	3,123	0.4	781	0.2
Clothing, women's.....	125	2,822	2.0	13,884	1.6	6,126	1.9	Umbrellas and canes.....	8	377	0.3	2,730	0.3	927	0.3
Stamped and enameled ware, not elsewhere specified.....	7	3,486	2.5	13,075	1.5	6,354	2.0	Ice, manufactured.....	61	632	0.5	2,717	0.3	1,741	0.5
Shirts.....	47	2,486	1.8	12,175	1.4	3,976	1.2	Knit goods.....	7	749	0.5	2,687	0.3	915	0.3
Printing and publishing, book and job.....	210	2,243	1.6	10,691	1.2	6,625	2.0	Copper, tin, and sheet-iron work.....	73	444	0.3	2,107	0.2	1,161	0.4
Paper and wood pulp.....	10	1,408	1.0	9,917	1.1	3,101	1.0	Marble and stone work.....	83	563	0.4	1,968	0.2	1,165	0.4
Printing and publishing, newspapers and periodicals.....	142	1,397	1.0	9,364	1.1	5,861	1.8	Cars and general shop construction and repairs by electric-railroad companies.....	6	927	0.7	1,904	0.2	1,258	0.4
Food preparations, not elsewhere specified.....	33	421	0.3	9,141	1.0	2,256	0.7	Sausage, not made in slaughtering and meat-packing establishments.....	25	101	0.1	1,789	0.2	361	0.1
Patent medicines and compounds.....	55	699	0.5	8,878	1.0	4,092	1.3	Mineral and soda waters.....	63	223	0.2	1,785	0.2	827	0.3
Tobacco, cigars and cigarettes.....	146	2,548	1.8	8,190	0.9	4,640	1.4	Condensed milk.....	5	79	0.1	1,584	0.2	303	0.1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	65	1,170	0.8	7,509	0.9	3,093	1.0	Mattresses and spring beds, not elsewhere specified.....	20	243	0.2	1,574	0.2	767	0.2
Furniture.....	47	1,645	1.2	6,828	0.8	3,837	1.2	Woolen goods.....	3	207	0.1	1,541	0.2	657	0.2
Boxes, wooden packing, except cigar boxes.....	39	1,972	1.4	6,504	0.7	2,854	0.9	Silk goods.....	6	839	0.6	1,534	0.2	826	0.3
Shipbuilding, wooden, including boat building.....	38	1,872	1.3	6,466	0.7	3,755	1.2	Paving materials.....	31	693	0.5	1,483	0.2	1,042	0.3
Gas, illuminating and heating.....	16	875	0.6	6,448	0.7	3,590	1.1	Cooperage.....	20	173	0.1	1,414	0.2	817	0.3
Druggists' preparations.....	13	696	0.5	6,407	0.7	3,045	0.9	Gas machines and gas and water meters.....	4	255	0.2	1,350	0.2	874	0.3
Liquors, malt.....	8	597	0.4	6,374	0.7	4,801	1.5	Stoves and hot-air furnaces.....	6	320	0.2	1,251	0.1	703	0.2
Leather, tanned, curried, and finished.....	7	517	0.4	6,263	0.7	1,907	0.6	Baking powders and yeast.....	7	169	0.1	1,196	0.1	437	0.1
Boxes, paper and other, not elsewhere specified.....	23	1,808	1.4	6,234	0.7	2,828	0.9	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	12	41	(1)	1,139	0.1	131	(1)
								Pickles, preserves, and sauces.....	26	123	0.1	1,093	0.1	324	0.1
								Lime.....	36	468	0.3	1,049	0.1	498	0.2
								Automobile bodies and parts.....	35	233	0.2	1,034	0.1	597	0.2
								All other industries.....	742	17,257	12.3	219,684	25.1	52,450	16.2

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 17 having products in excess of some for which figures are shown in the table. These industries are as follows: "Ammunition"; "Babbitt metal and solder"; "bags, paper, exclusive of those made in paper mills"; "cars, steam-railroad, not including operations of railroad companies"; "cement"; "coke, not including gas-house coke"; "cordage and twine"; "cordials and flavoring sirups"; "drug grinding"; "engines, steam, gas, and water"; "iron and steel, blast furnaces"; "iron and steel, cast-iron pipe"; "liquors, distilled"; "musical instruments, pianos"; "petroleum, refining"; "smelting and refining, copper"; and "tobacco, smoking, and snuff."

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	165,875	125,616	40,259	75.7	24.3	Clerks and other subordinate salaried employees.....	1919	14,649	10,161	4,488	69.4	30.6
	1914	131,391	95,856	35,535	72.6	27.4		1914	11,342	8,861	2,481	78.1	21.9
	1909	125,489	91,239	34,250	72.7	27.3		1909	8,994	7,345	1,649	81.7	18.3
Proprietors and officials.....	1919	10,854	10,478	406	96.3	3.7	Wage earners (average number).....	1919	140,342	104,977	35,365	74.8	25.2
	1914	8,464	8,191	273	96.8	3.2		1914	111,585	78,304	33,281	70.2	29.8
	1909	8,574	8,321	253	97.0	3.0		1909	107,921	75,573	32,348	70.0	30.0
Proprietors and firm members.....	1919	5,129	4,993	136	97.3	2.7	16 years of age and over.....	1919	138,173	103,818	34,355	75.1	24.9
	1914	5,005	4,834	171	96.6	3.4		1914	107,911	76,262	31,649	70.7	29.3
	1909	5,376	5,220	156	97.1	2.9		1909	101,378	72,416	28,967	71.4	28.6
Salaried officers of corporations.....	1919	1,875	1,820	55	97.1	2.9	Under 16 years of age.....	1919	2,169	1,159	1,010	53.4	46.6
	1914	1,508	1,471	37	97.5	2.5		1914	3,674	2,042	1,632	55.6	44.4
	1909	1,317	1,294	23	98.3	1.7		1909	6,548	3,157	3,391	48.2	51.8
Superintendents and managers.....	1919	3,880	3,665	215	94.5	5.5							
	1914	1,951	1,886	65	93.7	3.3							
	1909	1,881	1,807	74	96.1	3.9							

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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 (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.		Cen- sus year.	Wage earners (aver- age 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	140,342	74.0	24.5	1.5	Glass.....	1919	1,755	83.3	14.5	2.2		
	1914	111,585	68.3	28.4	3.3		1914	1,184	81.3	6.8	11.8		
	1909	107,921	67.1	26.8	6.1	Hats, straw.....	1919	1,385	35.8	63.1	1.1		
Automobile repairing.	1919	1,101	99.5	0.3	0.3		1914	2,173	37.0	58.0	4.9		
	1914	95	98.9	.....	1.1	Iron and steel, steel works and rolling mills ²	1919	4,944	98.4	1.6	.....	
Boxes, paper and other, not elsewhere speci- fied.....	1919	1,898	48.8	41.5	9.6	Lumber and timber products.....	1919	1,844	99.2	0.1	0.7		
	1914	905	38.7	52.3	9.1		1914	2,016	99.9	.....	0.1	
Boxes, wooden packing, except cigar boxes..	1919	1,972	84.7	10.9	4.5	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.....	1919	1,179	95.2	4.0	0.8		
	1914	1,883	90.3	3.7	6.1		1914	1,517	98.4	.....	1.6	
Bread and other bakery products.....	1919	2,381	75.2	24.2	0.6	Paper and wood pulp.....	1919	1,408	93.3	6.7	.....	
	1914	2,038	84.0	12.9	3.2		1914	1,586	90.5	9.3	0.1		
Brick and tile, terra-cotta, and fire-clay products.....	1919	1,207	97.8	.....	2.2	Printing and publishing, book and job.....	1919	2,243	77.6	20.6	1.8	
	1914	1,721	98.5	.....	1.5		1914	2,284	83.1	14.9	2.0	
Canning and preserving, fruits and vege- tables.....	1919	7,645	39.0	50.3	1.7	Printing and publishing, newspapers and periodicals.....	1919	1,397	90.5	7.7	1.9		
	1914	8,354	34.2	59.4	6.4		1914	1,130	89.0	7.5	3.5		
Cars and general shop construction and re- pairs by steam-railroad companies.....	1919	8,363	98.0	2.0	.....	Shipbuilding, steel.....	1919	17,212	100.0	(*)	.....	
	1914	6,969	99.5	0.4	0.1		1914	2,039	99.4	0.3	0.3		
Clothing, men's.....	1919	9,256	53.2	45.5	1.4	Shipbuilding, wooden, including boat build- ing.....	1919	1,872	99.8	.....	0.2	
	1914	12,909	47.0	50.3	2.6		1914	429	99.8	.....	0.2	
Clothing, women's.....	1919	2,822	19.5	70.8	0.7	Shirts.....	1919	2,486	12.1	85.4	2.5		
	1914	3,026	26.1	73.0	0.9		1914	5,153	16.1	70.9	4.0		
Confectionery and ice cream ¹	1919	3,008	40.7	56.8	2.5	Slaughtering and meat packing.....	1919	1,563	88.4	11.2	0.4		
	1914	1,707	46.4	44.5	9.1		1914	1,221	99.1	0.6	0.3		
Cotton goods.....	1919	3,416	50.1	48.7	1.2	Stamped and enameled ware, not elsewhere specified.....	1919	3,486	79.2	17.4	3.4		
	1914	3,424	50.1	43.0	6.9		1914	4,155	72.0	17.0	10.1		
Fertilizers.....	1919	3,102	98.6	1.4	.....	Tinware, not elsewhere specified.....	1919	4,233	65.8	30.8	3.5	
	1914	1,991	99.5	0.5	.....		1914	3,072	80.3	15.8	3.9	
Foundry and machine-shop products ²	1919	4,138	94.6	5.3	0.1	Tobacco, cigars and cigarettes.....	1919	2,548	25.9	74.1	(*)		
	1914	2,668	90.6	0.2	0.2		1914	3,212	32.7	66.6	0.7		
Furnishing goods, men's.....	1919	4,075	10.2	84.1	5.6	All other industries.....	1919	34,758	79.3	18.6	2.0		
	1914	561	19.4	75.6	5.0		1914	30,569	80.5	10.6	3.0		
Furniture.....	1919	1,645	94.5	3.5	1.9								
	1914	1,998	98.9	0.6	0.6								

¹ Includes "chewing gum" in 1914.

² Includes "iron and steel, welding."

³ Not shown separately in 1914.

⁴ 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
Annapolis.....	95			78			16			1			\$369,114		
Baltimore.....	97,814	73,769	71,441	68,006	45,503	44,258	27,267	25,733	22,875	1,641	2,533	4,311	677,878,492	\$215,171,530	\$186,977,710
Cumberland.....	3,753	2,817	1,930	3,181	2,416	1,578	498	278	225	74	123	133	15,842,310	7,112,600	4,534,677
Frederick.....	1,308	1,146	1,026	1,025	851	762	281	278	166	2	14	98	7,141,204	3,167,237	2,010,943
Hagerstown.....	4,029	3,574	1,718	3,149	2,737	978	814	754	625	66	83	115	17,662,575	7,412,397	3,197,212

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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.....	140,053	106,837	85,070	87.2	79.5	71.3	July.....	137,456	107,202	105,116	85.6	79.7	78.9
February.....	135,797	106,899	97,225	84.6	79.5	73.0	August.....	144,217	123,844	124,505	89.8	82.1	83.4
March.....	131,774	108,456	99,541	82.1	80.7	74.7	September.....	160,313	134,437	133,268	99.8	100.0	100.0
April.....	129,128	110,167	100,753	80.4	81.9	75.6	October.....	160,587	118,633	118,475	100.0	88.2	88.9
May.....	130,161	110,968	103,000	81.1	82.5	77.3	November.....	141,261	101,335	106,932	88.0	75.4	80.2
June.....	133,609	110,879	105,652	83.2	82.5	79.3	December.....	139,768	99,963	105,514	87.0	73.9	79.2

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.....	140,342	140,053	135,797	131,774	129,128	130,161	133,609	137,456	144,217	160,313	160,587	141,261	139,768	80.4
Males.....	104,977	107,870	104,116	101,565	99,879	101,920	104,280	109,517	112,313	124,505	124,505	105,022	104,876	88.4
Females.....	35,365	32,183	31,681	30,200	29,266	30,282	31,680	33,176	34,700	48,000	52,073	35,939	34,892	57.4
Automobile repairing.....	1,101	895	1,020	1,029	1,050	1,067	1,075	1,151	1,136	1,148	1,171	1,169	1,169	82.8
Boxes, paper and other, not elsewhere specified.....	1,898	2,070	1,649	1,672	1,681	1,619	1,630	1,620	1,814	2,279	2,458	2,334	1,201	62.6
Boxes, wooden packing, except cigar boxes.....	1,972	2,037	1,929	1,897	1,961	2,012	1,996	2,157	2,056	1,862	1,886	1,889	1,889	86.3
Bread and other bakery products.....	2,381	2,240	2,238	2,239	2,286	2,307	2,396	2,396	2,386	2,506	2,531	2,530	2,547	87.9
Brick and tile, terra-cotta, and fire-clay products.....	1,207	843	981	978	1,034	1,270	1,275	1,275	1,400	1,370	1,383	1,343	1,232	67.4
Canning and preserving, fruits and vegetables.....	7,645	1,360	1,420	1,590	2,010	2,341	5,672	5,390	13,393	26,827	25,519	3,765	1,933	5.1
Cars and general shop construction and repairs by steam-railroad companies.....	8,363	8,667	8,803	8,154	8,169	8,132	7,969	8,247	8,384	8,393	8,519	8,515	8,404	90.5
Clothing, men's.....	9,256	8,940	8,668	8,582	8,609	8,619	8,762	9,117	9,295	9,597	9,895	10,207	10,881	78.2
Clothing, women's.....	2,822	2,445	2,492	2,626	2,628	2,627	2,832	2,895	3,020	3,114	3,106	3,081	3,048	78.5
Confectionery and ice cream.....	3,008	2,656	2,748	2,877	2,888	2,896	2,665	2,668	3,339	3,404	3,770	3,727	3,727	67.9
Cotton goods.....	3,416	3,579	3,621	3,449	3,363	3,332	3,310	3,379	3,388	3,408	3,370	3,367	3,436	81.4
Fertilizers.....	3,102	3,032	3,176	3,701	3,647	3,243	2,924	2,817	3,087	3,218	2,863	2,068	2,548	72.1
Foundry and machine-shop products.....	4,081	4,984	3,994	3,915	3,926	3,959	5,858	4,029	3,953	3,915	3,993	4,153	4,319	76.9
Furnishing goods, men's.....	4,075	4,196	4,190	4,146	4,074	4,068	4,083	3,980	3,975	3,923	4,019	4,004	4,242	92.5
Furniture.....	1,645	1,453	1,455	1,527	1,582	1,595	1,617	1,655	1,654	1,686	1,799	1,834	1,883	78.4
Glass.....	1,755	1,609	1,656	1,713	1,806	1,784	1,875	1,749	1,852	1,833	1,873	1,943	1,902	84.7
Hats, straw.....	1,385	1,312	1,370	1,460	1,439	1,451	1,423	1,436	1,274	1,450	1,358	1,418	1,420	64.4
Iron and steel, steel works and rolling mills.....	4,944	5,584	5,725	5,283	4,283	4,021	4,236	4,786	4,813	4,893	5,225	5,266	5,243	70.2
Lumber and timber products.....	1,844	1,702	1,715	1,882	1,804	1,704	1,563	1,481	1,460	1,564	2,098	2,451	2,714	53.4
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1,179	1,050	1,063	1,075	1,113	1,160	1,222	1,202	1,225	1,255	1,255	1,270	1,258	82.7
Paper and wood pulp.....	1,408	1,586	1,626	1,685	1,682	1,462	1,588	1,688	1,625	1,716	1,807	1,788	1,730	84.3
Printing and publishing, book and job.....	2,243	2,221	2,191	2,202	2,183	2,183	2,203	2,240	2,261	2,278	2,351	2,411	2,411	90.5
Printing and publishing, newspapers and periodicals.....	1,397	1,361	1,384	1,378	1,386	1,390	1,395	1,405	1,402	1,409	1,415	1,417	1,422	95.7
Shipbuilding, steel.....	17,212	16,800	17,315	17,975	18,178	17,714	17,545	18,104	16,187	16,413	16,068	17,347	16,358	87.7
Shipbuilding, wooden, including boat building.....	1,872	2,610	2,598	2,457	1,782	1,682	1,574	1,574	1,519	1,593	1,529	1,529	1,743	57.4
Shirts.....	2,436	1,969	1,956	2,006	1,853	1,855	1,865	2,781	2,842	2,835	3,155	3,298	3,357	55.6
Slaughtering and meat packing.....	1,563	1,497	1,462	1,475	1,485	1,507	1,518	1,545	1,575	1,584	1,670	1,703	1,735	84.3
Stamped and enameled ware, not elsewhere specified.....	3,486	2,033	3,201	3,567	3,431	3,308	3,278	3,337	3,473	3,696	3,733	3,871	4,004	73.3
Tinware, not elsewhere specified.....	4,233	3,540	3,706	3,697	3,819	4,104	4,783	5,306	5,355	4,700	4,094	3,864	3,732	66.2
Tobacco, cigars and cigarettes.....	2,548	2,769	2,855	2,653	2,670	2,288	2,100	2,098	2,364	2,568	2,626	2,774	2,827	73.3
All other industries.....	34,815	41,907	38,590	33,976	32,026	32,930	33,662	34,401	34,053	33,952	33,793	34,402	34,089	76.4
Industries showing large proportions of females.														
Boxes, paper and other, not elsewhere specified.....	800	948	788	847	791	804	729	756	806	1,081	1,072	1,085	973	67.2
Bread and other bakery products.....	579	670	567	559	552	549	581	585	585	607	602	595	596	90.4
Canning and preserving, fruits and vegetables.....	4,568	4,000	3,996	3,800	1,037	1,742	2,067	3,349	4,307	16,383	19,875	2,388	1,022	3.0
Clothing, men's.....	4,308	4,055	3,947	3,904	3,889	3,937	4,053	4,230	4,326	4,326	4,714	4,837	5,211	74.6
Clothing, women's.....	2,270	2,009	2,029	2,085	2,104	2,082	2,273	2,267	2,365	2,460	2,487	2,498	2,551	78.8
Confectionery and ice cream.....	1,763	1,669	1,630	1,709	1,671	1,634	1,326	1,812	1,432	1,916	2,057	2,454	2,446	53.5
Cotton goods.....	1,690	1,833	1,830	1,689	1,662	1,622	1,610	1,657	1,640	1,666	1,642	1,636	1,667	87.8
Furnishing goods, men's.....	3,629	3,740	3,776	3,748	3,695	3,641	3,536	3,493	3,465	3,546	3,540	3,536	3,763	91.5
Hats, straw.....	885	851	896	864	943	944	913	749	766	916	856	920	920	77.1
Shirts.....	2,166	1,748	1,742	1,788	1,679	1,678	1,653	2,404	2,437	2,414	2,715	2,846	2,888	57.2
Stamped and enameled ware, not elsewhere specified.....	689	672	693	816	740	663	608	647	693	718	604	718	706	70.1
Tinware, not elsewhere specified.....	1,333	1,106	1,147	1,139	1,152	1,284	1,576	1,727	1,661	1,533	1,340	1,227	1,104	63.9
Tobacco, cigars and cigarettes.....	1,888	2,083	2,167	1,999	2,007	1,657	1,490	1,493	1,746	1,885	1,945	2,074	2,110	68.8
Total for cities.....	106,999	113,353	108,770	104,212	101,474	102,388	103,310	106,845	107,620	110,127	109,176	108,601	108,112	89.5
Males.....	77,229	83,839	78,651	76,518	74,293	75,713	75,352	77,596	76,051	77,325	77,194	76,704	76,704	88.6
Females.....	29,770	29,514	29,119	27,694	27,181	27,675	27,958	29,249	31,569	32,815	31,851	31,407	31,408	83.3
ANNAPOLIS.....	95	77	80	80	125	84	97	88	117	120	114	80	78	61.6
Males.....	79	69	72	72	99	76	89	79	90	84	78	71	69	69.7
Females.....	16	8	8	8	26	8	8	9	27	36	36	9	9	22.2
BALTIMORE.....	97,814	104,473	100,338	95,769	92,846	93,845	94,539	97,505	97,565	99,093	99,394	99,023	98,478	88.9
Males.....	69,703	76,569	72,728	69,585	67,159	67,685	68,124	69,918	67,916	69,329	69,275	69,032	68,846	87.7
Females.....	28,111	27,904	27,610	26,184	25,687	26,160	26,415	27,587	29,649	30,664	30,119	29,721	29,632	83.8
CUMBERLAND.....	3,753	3,497	3,521	3,373	3,546	3,468	3,548	4,007	4,031	4,082	4,111	4,014	4,038	80.8
Males.....	3,233	3,029	2,870	2,879	3,053	2,978	3,047	3,436	3,465	3,535	3,572	3,471	3,461	80.3
Females.....	520	468	461	494	493	490	501	571	566	547	539	543	577	78.2
FREDERICK.....	1,308	1,198	1,190	1,206	1,192	1,172	1,196	1,241	1,251	1,261	1,314	1,183	1,263	66.6
Males.....	1,027	951	962	962	970	955	980	1,013	1,013	1,024	1,024	989	1,015	72.6
Females.....	281	247	227	244	222	217	216	228	238	237	290	244	268	43.0
HAGERSTOWN.....	4,029	4,108	3,832	3,784	3,765	3,819	3,930	4,004	4,156	4,171	4,243	4,301	4,235	87.5
Males.....	3,187	3,221	3,019	3,020	3,012	3,019	3,112	3,150	3,286	3,305	3,376	3,411	3,313	88.3
Females.....	842	887	813	764	753	800	818	854	870	866	867	890	922	81.7

MANUFACTURES—MARYLAND.

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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.

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	140,342	36,500	5,868	27,201	25,444	9,648	23,321	10,398	1,893
	1914	111,585	(²)	(²)	14,583	20,508	18,238	20,142	29,942	8,172
	1909	107,921	(²)	(²)	6,166	13,229	16,274	21,001	41,574	9,077
Automobile repairing.....	1919	1,101	22	12	234	152	497	10	156	9
	1914	95	(²)	(²)	33		31	3	28	
Boxes, paper and other, not elsewhere specified.....	1919	1,898	29	10	387	1,437	16	13		
	1914	905				91	188	270	347	
Boxes, wooden packing, except cigar boxes.....	1919	1,072	53	17	120	76	572	1,113	12	
	1914	1,883					145	919	819	
Bread and other bakery products.....	1919	2,381	(²) 38	(²) 280	454	561	786	56	103	37
	1914	2,038	(²)	(²)	103	19	226	55	1,337	298
Brick and tile, terra-cotta, and fire-clay products.....	1919	1,207	(²) 51	(²)	432	28	40	149	507	
	1914	1,721	(²)	(²)	408	167	158	196	792	
Canning and preserving, fruits and vegetables.....	1919	7,645	1,084	110	626	692	376	1,602	3,022	133
	1914	8,354	(²)	(²)	1,354	272	131	517	5,489	591
Cars and general shop construction and repairs by steam-railroad companies.....	1919	8,363	(²)	(²)	3,653		14	4,696		
	1914	5,099	(²)	(²)	2,499		527	102	404	2,437
Clothing, men's.....	1919	9,256	7,273	805	632	428	42	76		
	1914	12,009	(²)	(²)	1,108	5,878	5,024	508	209	122
Clothing, women's.....	1919	2,822	1,112	266	412	1,030	2			
	1914	3,026	(²)	(²)	611	1,804	397	154		
Confectionery and ice cream.....	1919	3,008	(²) 69	(²) 10	92	1,154	411	776	247	249
	1914	1,707	(²)	(²)	81	105	147	432	847	95
Cotton goods.....	1919	3,416		325	2,183	80	352	476		
	1914	3,424						820	2,004	
Fertilizers.....	1919	3,102	21		42	28	635	1,130	1,240	
	1914	1,991	(²)	(²)	73	40	109	121	1,033	15
Foundry and machine-shop products.....	1919	4,138	484	435	1,035	590	624	236	134	
	1914	2,068	(²)	(²)	605	462	669	456	416	
Furnishing goods, men's.....	1919	4,075	45	1,322	652	2,056				
	1914	561	(²)	(²)	201	390				
Furniture.....	1919	1,045	(²) 67	(²) 41	82	407	156	650	233	
	1914	1,998	(²)	(²)	26	180	607	792	393	
Glass.....	1919	1,755	(²) 91	(²) 91	933	216	424			
	1914	1,184	(²)	(²)	140	937	107			
Hats, straw.....	1919	1,385	8	105	60	963	219	1,642	631	
	1914	2,173								
Iron and steel, steel works and rolling mills.....	1919	4,944	3,896	34				283	731	
Lumber and timber products.....	1919	1,844	113	208	73	347	53	312	738	
	1914	2,616	(²)	(²)	61	121	132	640	1,652	10
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	1,170	37		14	171	613	337	7	
	1914	1,517	(²)	(²)	113	176	632	171	425	
Paper and wood pulp.....	1919	1,408			804		51		356	544
	1914	1,680								1,179
Printing and publishing, book and job.....	1919	2,243	311	(²) 9	1,720	185	7	1	4	
	1914	2,284	(²)	(²)	1,140	906	215	20	3	
Printing and publishing, newspapers and periodicals.....	1919	1,397	(²) 34	(²) 610	651	57	29	10	6	
	1914	1,136	(²)	(²)	874	33	96	70	59	4
Shipbuilding, steel.....	1919	17,212	17,212	(²)	184	1,378	477			
	1914	2,039	(²)	(²)						
Shipbuilding, wooden, including boat building.....	1919	1,872	1,403	(²)	251	80	84	10	44	
	1914	420	(²)	(²)	1		201	91	136	
Shirts.....	1919	2,486	834	(²) 29	1,055	337	4	227		
	1914	5,153	(²)	(²)	313	2,066	1,768	653	63	200
Slaughtering and meat packing.....	1919	1,503	203	(²)	559	7	101	266	417	10
	1914	1,221	(²)	(²)	11	6	98	224	879	3
Stamped and enameled ware, not elsewhere specified.....	1919	3,480	(²)	(²)	3	3,153	282	16	55	
	1914	4,155	(²)	(²)		1,460	1,340	266	1,086	
Stoneware, not elsewhere specified.....	1919	4,233	93	(²)	72	580	514	2,974		
	1914	3,072	(²)	(²)	5	38	53	1,427	1,549	
Tobacco, cigars and cigarettes.....	1919	2,548	227	(²) 11	140	1,326	179	665		1
	1914	3,212	(²)	(²)	438	610	517	1,634	12	
All other industries.....	1919	34,758	1,750	1,126	9,158	9,273	2,636	7,219	2,676	911
	1914	30,559	(²)	(²)	4,078	3,339	4,192	7,920	7,873	3,157

¹ Includes 48 and under for 1914 and 1909.
² Corresponding figures not available.

³ Includes "chewing gum" in 1914.
⁴ Includes "iron and steel, welding."

⁵ Not shown separately in 1914.

MANUFACTURES—MARYLAND.

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.
Total for cities.....	1919	106,999	22,180	5,080	23,642	23,002	7,802	19,187	5,402	704
	1914	81,306	(²)	(²)	12,206	17,180	16,347	14,744	17,076	3,753
ANNAPOLIS.....	1919	95	1	.....	22	.....	29	3	11	29
BALTIMORE.....	1919	97,814	21,953	5,075	22,669	21,473	7,204	15,085	3,790	585
	1914	73,769	(²)	(²)	11,565	16,677	15,714	12,462	15,591	1,770
CUMBERLAND.....	1919	3,753	200	2	458	242	174	1,782	872	23
	1914	2,817	(²)	(²)	419	409	277	126	553	1,033
FREDERICK.....	1919	1,308	1	.....	46	71	168	745	242	35
	1914	1,146	(²)	(²)	10	.....	52	764	256	64
HAGERSTOWN.....	1919	4,029	25	3	447	1,216	227	1,572	487	52
	1914	3,574	(²)	(²)	212	94	304	1,402	676	880

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

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Estab-lish-ments	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.	
			Estab-lish-ments.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.
All industries.....	4,937	140,342	636	2,351	5,221	1,062	11,880	464	14,879	194	14,004	143	22,375	47	15,005	25	16,968	15	40,010
Automobile repairing.....	212	1,101	19	147	322	36	401	9	304	1	74								
Boxes, paper and other, not elsewhere specified.....	23	1,898	1	2	3	8	125	7	228	2	137	2	316					1	1,089
Boxes, wooden packing, except cigar boxes.....	39	1,972		3	11	8	86	16	578	6	422	6	875						
Bread and other bakery products.....	424	2,381	97	265	490	50	485	0	157	2	139	1	106	3	1,004				
Brick and tile, terra-cotta, and fire-clay products.....	30	1,207		6	30	9	118	8	258	5	411	2	390						
Canning and preserving, fruits and vegetables. Cars and general shop construction and repairs by steam-railroad companies.....	403	7,645	2	124	449	185	2,031	64	2,035	21	1,416	9	1,427	1	287				
Clothing, men's.....	17	8,363				1	14	2	66	2	128	4	613	2	752	3	1,877	3	4,913
Clothing, women's.....	284	9,256	19	110	314	91	1,046	39	1,159	11	830	10	1,356			3	2,392	1	2,159
Confectionery and ice cream.....	125	2,822	11	31	76	37	421	31	942	12	805	3	518						
	170	3,008	32	93	167	25	266	8	297	4	297	0	907	1	456	1	618		
Cotton goods.....	14	3,416		1	5	1	6	3	118	2	164	3	494	2	538	1	654	1	1,437
Fertilizers.....	45	3,102		16	37	10	128	5	173	6	438	3	498	4	1,205	1	623		
Foundry and machine-shop products.....	133	4,081	15	41	97	37	437	21	695	12	878	5	704	1	552	1	918		
Furnishing goods, men's.....	29	4,075		6	23	9	134	6	203	3	202	2	417	1	373			2	2,723
Furniture.....	47	1,645	2	11	28	11	125	8	287	11	717	4	488						
Glass.....	8	1,755				1	14			2	183	2	364	2	625	1	569		
Hats, straw.....	7	1,385				1	8		47	1	60	2	324	1	369	1	577		
Iron and steel, steel works and rolling mills.....	5	4,944						1	34	1	85			1	283	1	646	1	3,896
Lumber and timber products.....	393	1,844	14	289	502	78	748	9	258	1	80	2	256						
Lumber, planing-mill products, not including planing mills connected with sawmills.....	65	1,179	3	22	61	25	344	10	353	4	286	1	135						
Paper and wood pulp.....	10	1,408		2	4			5	140			2	400			1	864		
Printing and publishing, book and job.....	210	2,243	46	91	208	47	518	16	512	7	506	2	240	1	259				
Printing and publishing, newspapers and periodicals.....	142	1,397	43	81	180	11	109	3	73			1	115	3	920				
Shipbuilding, steel.....	4	17,212												1	268	1	885	2	16,059
Shipbuilding, wooden, including boat building.....	38	1,872	4	12	22	5	53	9	332	1	98	5	836	2	531				
Shirts.....	47	2,486		8	29	15	195	13	421	7	535	2	275			2	1,031		
Slaughtering and meat packing.....	47	1,563	2	25	60	7	81	4	139	2	138	6	855	1	290				
Stamped and enameled ware, not elsewhere specified.....	7	3,486		1	2	2	28			1	55	1	250			1	963	1	2,183
Tinware, not elsewhere specified.....	28	4,233		6	15	4	46	5	167	4	286	3	407	3	1,132	2	1,137	1	1,043
Tobacco, cigars and cigarettes.....	146	2,548	49	63	113	13	118	11	336	3	212	3	474	4	1,245				
All other industries.....	1,782	34,815	277	895	1,973	335	3,795	144	4,517	60	4,362	51	8,335	13	4,116	5	3,214	2	4,563
Total for cities.....	3,093	106,999	444	1,306	3,070	666	7,576	323	10,317	160	11,552	123	19,316	37	12,869	21	14,213	13	28,086
ANNAPOLIS.....	15	95	2	7	18	6	77												
BALTIMORE.....	2,797	97,814	422	1,170	2,710	585	6,615	300	9,669	143	10,259	113	17,705	33	11,592	20	13,567	11	25,697
CUMBERLAND.....	82	3,753	3	42	133	18	212	8	207	6	494	2	397	1	294			1	1,370
FREDERICK.....	77	1,308	9	35	68	23	294	4	106	3	190	2	335	1	315				
HAGERSTOWN.....	122	4,029	8	52	141	34	378	11	335	8	609	6	879	2	698			1	1,019

MANUFACTURES—MARYLAND.

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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.....	4,937	4,797	4,837	140,342	111,585	107,921	\$878,944,774	\$377,749,078	\$315,669,150	\$324,597,895	\$138,777,105	\$116,620,245
Less than \$5,000.....	1,122	1,671	1,689	941	2,623	3,040	2,706,913	4,202,520	4,227,777	1,631,219	2,571,279	2,547,434
\$5,000 to \$20,000.....	1,603	1,646	1,767	5,480	8,905	11,346	17,389,308	10,707,959	17,825,972	8,972,817	8,539,767	8,899,931
\$20,000 to \$100,000.....	1,273	969	899	14,020	18,296	18,344	57,906,410	44,122,614	38,980,483	25,632,790	19,827,983	17,364,553
\$100,000 to \$500,000.....	675	377	441	29,008	43,569	40,859	148,743,829	81,271,910	130,048,877	63,006,491	56,097,430	53,355,069
\$500,000 to \$1,000,000.....	123	69	41	14,772	38,192	28,332	86,730,231	40,489,624	124,586,041	36,788,292	51,740,646	34,453,258
\$1,000,000 and over.....	141	65		76,049			560,618,083	181,954,451		188,567,777		
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.....	22.7	34.8	34.9	0.7	2.4	2.8	0.3	1.1	1.3	0.5	1.8	2.2
\$5,000 to \$20,000.....	32.5	34.3	36.5	3.9	8.0	10.5	2.0	4.4	5.6	2.8	6.2	7.0
\$20,000 to \$100,000.....	25.8	20.2	18.6	10.0	16.4	17.0	6.6	11.7	12.3	7.9	14.3	14.9
\$100,000 to \$500,000.....	13.7	7.9	9.1	20.7	39.0	43.4	17.0	21.5	41.2	19.4	40.4	45.8
\$500,000 to \$1,000,000.....	2.5	1.4		10.5			9.9	13.1		11.3		
\$1,000,000 and over.....	2.9	1.4	0.8	54.2	34.2	26.3	61.1	48.2	39.5	58.1	37.3	29.5

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	Per cent distribution.	1919	1914	Per cent distribution.	1919	1914	Per cent distribution.	1919	1914	Per cent distribution.
BREAD AND OTHER BAKERY PRODUCTS.....	424	523	100.0	100.0	2,381	2,038	100.0	100.0	\$20,494,018	\$8,097,586	100.0	100.0
Less than \$5,000.....	53	206	12.5	39.4	15	122	0.6	6.0	169,175	614,190	0.8	7.6
\$5,000 to \$20,000.....	244	265	57.5	50.7	264	637	11.1	31.3	2,652,808	2,423,995	12.9	29.9
\$20,000 to \$100,000.....	102	46	24.1	8.8	515	400	21.6	22.9	4,232,434	1,600,473	20.7	20.5
\$100,000 to \$1,000,000.....	20	16	4.7	1.1	393	813	16.5	39.9	3,887,147	3,308,028	19.0	42.0
\$1,000,000 and over.....	5		1.2		1,104		50.1		9,552,464		46.6	
CANNING AND PRESERVING, FRUITS AND VEGETABLES.....	406	423	100.0	100.0	7,645	8,354	100.0	100.0	28,421,544	17,499,730	100.0	100.0
Less than \$5,000.....	44	58	10.8	13.7	138	193	1.8	2.3	127,033	178,493	0.4	1.0
\$5,000 to \$20,000.....	154	200	37.9	47.3	1,033	1,565	13.5	18.7	1,888,925	2,430,557	6.5	13.9
\$20,000 to \$100,000.....	139	135	34.2	31.0	2,009	2,015	27.1	31.3	6,123,600	5,327,491	21.5	30.4
\$100,000 to \$500,000.....	62	23	15.3	5.4	3,013	3,981	39.4	47.7	12,876,292	4,395,483	45.3	25.1
\$500,000 and over.....	7	7	1.7	1.7	1,302		18.2		7,435,694	5,167,706	26.2	29.5
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	17	20	100.0	100.0	8,363	5,969	100.0	100.0	22,837,066	13,229,352	100.0	100.0
\$5,000 to \$20,000.....	4	7	23.5	15.0	145	138	1.7	2.3	235,890	105,029	1.0	1.5
\$20,000 to \$100,000.....	6	3	35.3	35.0	1,028	1,654	12.3	27.7	2,280,193	2,146,723	10.0	16.2
\$100,000 to \$1,000,000.....	7	3	41.2	15.0	7,190	4,079	86.0	68.3	20,320,983	10,805,299	89.0	81.7
\$1,000,000 and over.....												
CLOTHING, MEN'S.....	284	253	100.0	100.0	9,256	12,909	100.0	100.0	60,414,498	28,969,838	100.0	100.0
Less than \$5,000.....	28	77	9.9	30.4	62	322	0.7	2.5	69,027	197,418	0.1	0.7
\$5,000 to \$20,000.....	95	83	33.5	32.8	625	959	6.8	7.4	1,043,947	731,222	1.7	2.5
\$20,000 to \$100,000.....	65	51	22.0	20.2	946	585	10.2	4.5	2,771,420	2,538,658	4.6	8.8
\$100,000 to \$500,000.....	78	30	26.8	11.9	1,695	2,463	18.3	19.1	17,582,000	6,184,770	29.1	21.3
\$500,000 to \$1,000,000.....	10	5	3.5	2.0	651		7.0		6,666,381	3,782,040	11.0	13.0
\$1,000,000 and over.....	10	7	3.5	2.8	5,277	8,580	57.0	68.5	32,281,723	15,565,730	53.4	53.7
CLOTHING, WOMEN'S.....	125	90	100.0	100.0	2,822	3,026	100.0	100.0	13,884,281	6,015,195	100.0	100.0
Less than \$5,000.....	13	6	10.4	6.7	17	31	0.6	1.0	33,528	17,570	0.2	0.3
\$5,000 to \$20,000.....	21	22	10.8	24.4	97	194	3.4	6.4	244,404	256,907	1.8	4.3
\$20,000 to \$100,000.....	47	42	37.6	46.7	552	982	19.6	32.5	2,717,450	2,117,305	19.6	35.2
\$100,000 to \$500,000.....	40	20	32.0	22.2	1,591	1,810	58.4	60.1	8,067,277	3,623,353	58.1	60.2
\$500,000 to \$1,000,000.....	4		3.2		565		20.0		2,821,622		20.3	
CONFECTIONERY AND ICE CREAM.....	170	127	100.0	100.0	3,008	1,707	100.0	100.0	17,995,081	4,842,524	100.0	100.0
Less than \$5,000.....	44	50	25.9	39.4	17	34	0.6	2.0	95,026	130,525	0.5	2.7
\$5,000 to \$20,000.....	68	45	40.0	35.4	114	135	3.8	7.9	600,952	433,821	3.7	9.0
\$20,000 to \$100,000.....	34	19	20.0	15.0	273	202	0.1	15.3	1,458,320	779,193	8.1	16.1
\$100,000 to \$500,000.....	16	13	9.4	10.2	715	1,270	23.8	74.8	4,265,089	3,408,985	23.7	72.3
\$500,000 and over.....	8		4.7		1,889		62.8		11,615,694		64.0	
COTTON GOODS.....	14	13	100.0	100.0	3,416	3,421	100.0	100.0	18,454,957	6,790,935	100.0	100.0
\$20,000 to \$500,000.....	6	13	42.9	100.0	206	23,424	6.0	100.0	1,242,877	6,790,935	6.7	100.0
\$500,000 to \$1,000,000.....	4		28.6		557		16.3		2,838,736		15.4	
\$1,000,000 and over.....	4		28.6		2,653		77.7		14,373,344		77.9	

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

² Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

³ Includes the group "\$500,000 to \$1,000,000."

⁴ Includes "chewing gum" in 1914.

MANUFACTURES—MARYLAND.

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

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
FERTILIZERS.	45	48	100.0	100.0	3,102	1,991	100.0	100.0	\$37,014,097	\$13,986,704	100.0	100.0	\$12,319,379	\$4,019,102	100.0	100.0
Less than \$5,000.	19	5	20.0	10.4	119	5	0.6	0.3	190,146	16,761	0.3	0.1	28,614	4,088	0.2	0.1
\$5,000 to \$20,000.	9	12	20.0	25.0	36	37	1.2	1.9	439,929	133,100	1.2	1.0	99,053	43,801	0.8	1.1
\$20,000 to \$100,000.	10	8	22.2	16.7	185	148	6.0	7.4	2,275,925	1,197,864	6.1	8.6	468,078	304,624	3.8	7.6
\$100,000 to \$500,000.	5	8	11.1	16.7	214	185	6.9	52.3	3,840,354	1,466,946	10.4	10.5	1,123,972	1,084,540	9.2	49.4
\$500,000 to \$1,000,000.	12	3	26.7	6.2	2,648	700	85.4	38.2	30,358,743	6,062,769	82.0	36.2	10,594,662	1,682,051	88.0	41.9
\$1,000,000 and over.																
FLOUR-MILL AND GRISTMILL PRODUCTS.	247	247	100.0	100.0	478	473	100.0	100.0	19,004,169	8,163,869	100.0	100.0	2,646,698	1,245,309	100.0	100.0
Less than \$5,000.	36	57	14.6	23.1	1	16	0.2	3.4	97,634	168,098	0.5	2.1	19,395	47,330	0.7	3.8
\$5,000 to \$20,000.	79	111	32.0	44.9	31	103	6.5	21.8	955,511	1,208,918	5.0	14.8	172,152	267,419	6.5	21.5
\$20,000 to \$100,000.	104	66	42.1	26.7	106	178	34.7	37.6	4,243,270	2,720,867	22.3	33.3	718,894	448,121	27.2	36.0
\$100,000 to \$500,000.	21	13	8.5	5.3	116	176	24.3	37.2	4,321,237	4,065,086	22.7	49.8	465,436	482,439	17.6	38.7
\$500,000 and over.	7		2.8		164		34.3		9,386,517		49.4		1,270,821		48.0	
FOUNDRY AND MACHINE-SHOP PRODUCTS.	146	128	100.0	100.0	4,138	2,668	100.0	100.0	16,045,959	6,615,128	100.0	100.0	10,389,028	3,409,955	100.0	100.0
Less than \$5,000.	33	32	22.6	25.0	18	47	0.4	1.8	82,255	70,551	0.5	1.2	60,938	59,654	0.6	1.7
\$5,000 to \$20,000.	35	43	24.0	33.6	124	225	3.0	8.4	398,055	443,828	2.5	6.7	297,618	294,715	2.9	8.0
\$20,000 to \$100,000.	43	39	29.5	30.5	585	927	14.1	34.7	2,204,496	1,753,792	13.7	26.5	1,349,980	1,119,680	13.0	32.8
\$100,000 to \$500,000.	28	14	19.2	10.9	1,498	1,469	36.2	55.1	5,949,012	4,340,957	37.1	65.6	3,821,156	1,935,900	36.8	56.8
\$500,000 to \$1,000,000.	3		2.1		640		15.5		1,908,705		11.9		1,309,789		12.6	
\$1,000,000 and over.	4		2.7		1,273		30.8		5,505,436		34.3		3,549,547		34.2	
FURNISHING GOODS, MEN'S.	29	15	100.0	100.0	4,075	561	100.0	100.0	14,595,923	1,142,429	100.0	100.0	6,299,002	530,979	100.0	100.0
Less than \$5,000.	3	5	10.3	33.3	33	20	0.8	3.6	26,660	37,509	0.2	3.3	14,168	17,013	0.2	3.2
\$5,000 to \$20,000.	10	6	34.5	40.0	150	156	3.7	27.8	545,044	349,550	3.7	30.6	201,022	175,662	3.2	33.1
\$20,000 to \$100,000.	11	4	37.9	26.7	379	385	9.3	68.6	2,300,048	755,370	15.8	66.1	875,290	338,404	13.9	63.7
\$100,000 to \$500,000.	5		17.2		3,513		86.2		11,724,165		80.3		5,208,522		82.7	
\$500,000 and over.																
PRINTING AND PUBLISHING, BOOK AND JOB.	210	197	100.0	100.0	2,243	2,284	100.0	100.0	10,690,650	5,546,639	100.0	100.0	6,625,093	3,532,894	100.0	100.0
Less than \$5,000.	74	81	35.2	41.1	34	82	1.5	3.6	168,309	182,680	1.6	3.3	107,884	127,709	1.6	3.6
\$5,000 to \$20,000.	59	62	28.1	31.5	188	329	8.4	14.4	678,447	636,476	6.3	11.5	439,429	443,603	6.6	12.6
\$20,000 to \$100,000.	52	44	24.8	22.3	610	882	27.2	38.6	2,431,176	2,613,949	22.7	47.1	1,512,006	1,810,413	22.8	51.2
\$100,000 to \$500,000.	19	10	9.0	5.1	724	991	32.3	43.4	3,240,048	2,113,534	30.3	38.1	2,108,928	1,151,169	31.8	32.6
\$500,000 and over.	6		2.9		687		30.6		4,172,670		39.0		2,456,846		37.1	
SHIRTS.	47	48	100.0	100.0	2,486	5,153	100.0	100.0	12,174,683	10,048,037	100.0	100.0	3,975,611	4,467,237	100.0	100.0
Less than \$5,000.	4	17	8.5	35.4	15	158	0.6	3.1	9,799	47,831	0.1	0.5	8,188	39,291	0.2	0.9
\$5,000 to \$20,000.	9	17	19.1	35.4	114	340	4.6	6.6	96,381	163,141	0.8	1.6	65,064	107,132	1.6	2.4
\$20,000 to \$100,000.	19	4	40.4	8.3	504	169	20.3	3.3	850,207	196,885	7.0	2.0	406,053	94,108	10.2	2.1
\$100,000 to \$500,000.	11	7	23.4	14.6	803	1,129	24.3	21.9	3,224,883	1,890,374	26.5	18.8	907,639	744,547	22.8	16.7
\$500,000 and over.	4	3	8.5	6.2	1,250	3,357	50.3	65.1	7,993,413	7,749,806	65.7	77.1	2,588,667	3,482,169	65.1	77.9
SLAUGHTERING AND MEAT PACKING.	47	46	100.0	100.0	1,563	1,221	100.0	100.0	41,439,448	16,607,367	100.0	100.0	7,919,215	2,840,398	100.0	100.0
Less than \$20,000.	19	7	40.4	15.2	37	7	2.4	0.6	850,295	93,866	2.1	0.6	129,075	19,629	1.6	0.7
\$20,000 to \$100,000.	12	9	25.5	19.6	59	440	8.8	36.0	2,319,171	2,224,814	5.6	13.4	231,705	92,492	2.9	3.3
\$100,000 to \$500,000.	5	5	10.6	10.9	131		8.4		3,598,707	3,384,912	8.7	20.3	400,989	697,126	5.2	24.5
\$500,000 to \$1,000,000.	11	6	23.4	13.0	1,336	701	85.5	57.4	34,671,275	9,982,077	83.7	60.1	7,148,386	2,031,151	90.3	71.5
TINWARE, NOT ELSEWHERE SPECIFIED.	28	26	100.0	100.0	4,233	3,072	100.0	100.0	25,453,533	11,732,273	100.0	100.0	6,653,588	2,911,915	100.0	100.0
Less than \$20,000.	6	5	21.4	19.2	15	23	0.4	0.7	72,630	40,414	0.3	0.4	31,802	26,463	0.5	0.9
\$20,000 to \$100,000.	5	8	17.9	30.8	81	95	1.9	3.1	246,911	354,576	1.0	3.0	119,416	108,726	1.8	3.7
\$100,000 to \$500,000.	8	8	28.6	30.8	448	407	10.6	13.2	1,933,196	1,655,654	7.8	14.1	651,264	474,070	9.8	16.3
\$500,000 and over.	9	5	32.1	19.2	3,689	2,547	87.1	82.9	23,150,796	9,675,629	91.0	82.5	5,851,106	2,302,656	87.9	79.1

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

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

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

* Includes "iron and steel, welding."

* Includes the group "\$5,000 to \$20,000."

MANUFACTURES—MARYLAND.

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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.
ANNAPOLIS.....	15	95	100.0	\$369,114	100.0	\$185,727	100.0	FREDERICK.....	77	1,308	100.0	\$7,141,204	100.0	\$2,258,567	100.0
Less than \$20,000.....	7	10	10.5	39,608	10.7	20,541	11.1	Less than \$5,000.....	18	6	0.5	33,025	0.5	19,572	0.9
\$20,000 to \$100,000.....	8	85	89.5	329,506	89.3	165,186	88.9	\$5,000 to \$20,000.....	22	68	5.2	230,874	3.2	101,512	4.5
BAITMORE.....	2,707	97,814	100.0	677,878,492	100.0	250,122,688	100.0	\$20,000 to \$100,000.....	21	241	18.4	941,119	13.2	432,158	19.1
Less than \$5,000.....	521	304	0.3	1,203,406	0.2	818,543	0.3	\$100,000 to \$500,000.....	12	420	32.8	2,031,005	28.4	815,700	36.1
\$5,000 to \$20,000.....	832	2,205	2.3	9,037,015	1.3	5,225,837	2.1	\$500,000 and over.....	4	504	43.1	3,005,181	54.7	889,526	39.4
\$20,000 to \$100,000.....	736	7,723	7.9	34,640,909	5.1	17,230,221	6.9	HAGERSTOWN.....	122	4,029	100.0	17,662,575	100.0	7,261,153	100.0
\$100,000 to \$500,000.....	496	20,193	20.6	111,684,298	16.5	48,969,951	19.6	Less than \$5,000.....	16	10	0.2	30,092	0.2	28,190	0.4
\$500,000 to \$1,000,000.....	98	12,095	12.4	68,660,460	10.1	31,129,108	12.4	\$5,000 to \$20,000.....	36	133	3.3	886,688	2.2	209,397	2.9
\$1,000,000 and over.....	114	55,204	56.4	452,650,335	66.8	146,745,938	58.7	\$20,000 to \$100,000.....	41	471	11.7	2,039,172	11.5	855,005	11.8
CUMBERLAND.....	82	3,753	100.0	15,842,210	100.0	7,549,881	100.0	\$100,000 to \$500,000.....	21	1,254	31.1	4,014,765	27.8	2,036,621	28.0
Less than \$5,000.....	12	16	0.4	33,051	0.2	23,454	0.3	\$500,000 and over.....	8	2,161	53.6	10,282,858	58.2	4,131,940	56.9
\$5,000 to \$20,000.....	24	96	2.6	278,322	1.8	167,443	2.2								
\$20,000 to \$100,000.....	25	234	6.2	1,032,871	6.5	445,428	5.9								
\$100,000 to \$500,000.....	15	1,118	29.8	3,360,048	21.3	1,872,922	24.8								
\$500,000 and over.....	6	2,289	61.0	11,131,318	70.3	5,040,634	66.8								

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

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.							
All industries.....	1919	2,663	1,200	1,065	140,342	14,395	110,856	15,091	10.3	70.0	10.8	\$873,944,774	\$81,391,812	\$707,408,302	\$85,144,660	9.3	80.9	9.7				
	1914	2,870	1,004	914	111,585	15,831	68,380	27,374	14.2	61.3	24.5	377,740,078	44,428,028	264,857,410	68,463,640	11.8	70.1	18.1				
	1909	2,917	873	1,047	107,921	16,826	59,676	31,419	15.6	55.3	20.1	315,660,150	41,622,912	207,102,289	67,043,949	13.2	65.6	21.2				
Bread and other bakery products.	1919	380	13	31	2,381	1,046	1,214	121	43.9	51.0	5.1	20,494,018	10,280,028	9,303,512	910,478	50.2	45.4	4.4				
	1914	484	9	30	2,038	1,161	747	130	57.0	36.7	6.4	8,007,580	4,684,853	3,006,478	406,255	57.9	37.1	5.0				
Canning and preserving, fruits and vegetables.	1919	188	57	161	7,645	2,046	2,855	2,744	26.8	37.3	35.9	28,421,544	6,001,850	13,787,717	8,631,071	21.1	48.5	30.4				
	1914	230	58	135	8,354	2,287	3,700	2,307	27.4	45.0	27.6	17,499,730	4,137,017	8,907,540	4,365,173	23.6	51.4	24.9				
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	17	.....	8,363	.....	8,363	.....	100.0	.....	.....	22,837,066	.....	22,837,066	.....	100.0	.....	.....		
	1914	.....	20	.....	5,909	.....	5,909	.....	100.0	.....	.....	13,229,352	.....	13,229,352	.....	100.0	.....	.....		
Clothing, men's.....	1919	156	29	99	9,259	1,800	5,919	2,437	19.4	54.2	26.3	60,414,498	10,472,870	20,041,802	20,899,766	17.3	48.1	34.6				
	1914	170	10	73	12,909	1,565	2,793	8,551	12.1	21.6	66.2	28,999,838	3,742,176	3,431,114	21,820,548	12.9	11.8	75.3				
Clothing, women's.....	1919	56	24	45	2,822	618	1,187	1,017	21.9	42.1	36.0	13,884,281	3,422,573	5,288,834	5,172,874	24.7	38.1	37.3				
	1914	45	13	32	3,020	813	975	1,538	26.9	22.3	50.8	6,015,105	1,656,204	1,250,095	3,108,896	27.5	20.8	51.7				
Confectionery and ice cream. ¹	1919	105	29	36	3,008	500	2,283	216	16.9	75.9	7.2	17,995,081	3,177,877	13,809,025	1,008,179	17.7	76.7	5.6				
	1914	73	24	30	1,707	324	1,207	176	19.0	70.7	10.3	4,842,524	973,727	3,353,839	514,958	20.1	69.3	10.6				
Fertilizers.....	1919	6	32	7	3,102	50	3,008	44	1.6	97.0	1.4	37,014,097	480,472	36,104,218	429,407	1.3	97.5	1.2				
	1914	9	29	10	1,991	83	1,847	61	4.2	92.8	3.1	13,986,704	400,025	13,162,182	415,497	2.9	94.1	3.0				
Flour-mill and gristmill products.	1919	164	30	53	478	148	230	100	31.0	48.1	20.9	19,004,169	3,970,188	10,402,781	4,631,200	20.9	54.7	24.4				
	1914	174	32	41	473	211	192	70	44.6	40.6	14.8	8,103,809	3,684,638	3,541,657	937,574	45.1	43.4	11.5				
Foundry and machine-shop products. ²	1919	50	62	25	4,138	416	3,501	221	10.1	84.6	5.3	10,045,650	1,442,247	13,836,331	767,381	9.0	86.2	4.8				
	1914	49	52	27	2,668	360	2,062	246	13.5	77.3	9.2	0,615,128	875,652	4,984,229	755,247	13.2	75.3	11.4				
Furnishing goods, men's...	1919	4	14	11	4,075	102	3,431	542	2.5	84.2	13.3	14,595,923	340,188	11,229,070	3,026,665	2.3	76.9	20.7				
	1914	7	3	5	561	31	287	243	5.5	51.2	43.3	1,142,429	87,495	403,919	591,015	7.7	40.6	51.7				
Printing and publishing, book and job.	1919	102	68	40	2,243	200	1,807	227	9.3	80.6	10.1	10,090,650	835,615	8,760,877	1,094,158	7.8	81.9	10.2				
	1914	105	60	32	2,284	302	1,547	435	13.2	67.7	19.0	5,546,639	713,211	3,652,692	1,180,736	12.9	65.9	21.3				
Shirts.....	1919	16	15	16	2,486	501	1,635	350	20.2	65.8	14.1	12,174,683	1,706,777	8,694,291	1,773,615	14.0	71.4	14.6				
	1914	23	7	18	5,153	455	4,102	596	8.8	11.6	79.6	10,048,037	430,844	795,532	8,821,661	4.3	7.9	87.8				
Slaughtering and meat packing.	1919	24	13	10	1,503	241	1,237	85	15.4	79.1	5.4	41,439,448	6,394,163	32,295,912	2,749,383	15.4	77.9	6.6				
	1914	24	11	11	1,221	387	764	80	31.7	61.8	6.0	16,607,367	5,946,977	8,980,267	1,671,133	35.8	54.1	10.1				
Tinware, not elsewhere specified.	1919	6	18	4	4,233	130	3,967	141	3.1	93.6	3.3	25,453,533	341,886	24,253,827	857,520	1.3	95.3	3.4				
	1914	5	16	6	3,072	41	2,497	534	1.3	81.3	17.4	11,732,273	125,328	10,178,212	1,428,733	1.1	86.8	12.2				
Total for cities.....	1919	1,645	875	573	106,999	10,250	85,870	10,861	9.6	80.3	10.2	718,893,595	65,479,914	584,058,023	69,354,758	9.1	81.2	9.6				
	1914	1,045	615	486	81,306	10,198	47,423	23,685	12.6	55.3	29.1	232,863,773	29,272,217	142,638,659	61,052,897	12.6	61.2	26.2				
ANNAPOLIS.....	1919	9	3	3	65	42	47	6	44.2	40.5	6.3	369,114	199,001	150,863	12,360	54.2	42.5	3.3				
BALTIMORE.....	1919	1,497	782	518	97,814	9,218	78,565	10,031	9.4	80.3	10.3	677,878,492	60,613,477	553,441,356	63,823,659	8.9	81.6	9.4				
	1914	1,535	531	486	77,769	9,307	42,135	22,327	12.6	57.1	30.3	215,171,530	26,148,884	130,970,044	58,048,602	12.2	60.9	27.0				
CUMBERLAND.....	1919	31	35	10	3,753	163	3,481	109	4.3	92.8	2.9	15,842,210	719,603	14,581,485	541,122	4.5	92.0	3.4				
	1914	30	30	14	2,817	139	2,272	406	4.9	80.7	14.4	7,112,609	503,018	5,089,094	1,519,597	7.1	71.6	21.4				
FREDERICK.....	1919	42	18	17	1,308	122	1,020	166	9.3	78.0	12.7	7,141,204	886,016	4,878,361	1,676,828	12.4	64.1	23.5				
	1914	29	14	14	1,146	102	844	200	8.9	73.6	17.5	3,167,237	1,143,152	1,622,427	401,658	36.1	51.2	12.7				
HAGERSTOWN.....	1919	66	37	19	4,029	714	2,760	549	17.7	68.7	13.6	17,662,575	3,060,918	11,300,858	3,300,709	17.3	64.0	18.7				
	1914	51	40	22	3,574	650	2,172	752	18.2	60.8	21.0	7,412,397	1,481,263	4,848,094	1,083,040	20.0	65.4	14.6				

MANUFACTURES—MARYLAND.

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

	Census 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 aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.
Number of places.....	1919 1914 1909	..... ..... .....	5 4 4	..... ..... .....	2 2 3	..... ..... .....	2 1 1	..... ..... .....	1 1 1	...............	...............	...............
Population ¹	1920 1915 1910	1, 440, 661 1, 341, 075 1, 295, 346	814, 007 640, 317 607, 242	56.2 47.7 46.9	22, 280 35, 673 48, 757	1.5 2.7 3.8	57, 901 25, 054	4.0 1.9	733, 826 579, 590 558, 485	50.6 43.2 43.1	635, 654 700, 758 688, 104	43.8 52.3 53.1
Number of establishments.....	1919 1914 1909	4, 937 4, 797 4, 837	3, 093 2, 746 2, 704	62.6 57.2 55.9	92 170 202	1.9 3.5 4.2	204 74	4.1 1.5	2, 797 2, 502 2, 502	56.7 52.1 51.7	1, 844 2, 051 2, 133	37.4 42.8 44.1
Average number of wage earners.....	1919 1914 1909	140, 342 111, 585 107, 921	106, 999 81, 306 76, 124	76.2 72.9 70.5	1, 403 4, 720 4, 680	1.0 4.2 4.3	7, 782 2, 817	5.5 2.5	97, 814 73, 769 71, 444	69.7 66.1 66.2	33, 343 30, 279 31, 797	23.8 27.1 29.5
Value of products.....	1919 1914 1909	\$873, 944, 774 377, 749, 078 315, 669, 150	\$718, 893, 595 232, 863, 773 197, 619, 672	82.3 61.6 62.6	\$7, 510, 318 10, 579, 034 10, 642, 262	0.9 2.8 3.4	\$33, 504, 785 7, 112, 609	3.8 1.9	\$677, 878, 492 215, 171, 530 186, 977, 710	77.6 57.0 59.2	\$155, 051, 179 144, 885, 305 118, 049, 178	17.7 33.4 37.4
Value added by manufacture.....	1919 1914 1909	324, 597, 395 138, 777, 105 116, 620, 245	267, 378, 016 101, 905, 382 84, 047, 316	82.4 73.4 72.1	2, 444, 294 4, 147, 725 4, 093, 489	0.8 3.0 3.5	14, 811, 034 3, 119, 346	4.6 2.2	250, 122, 688 94, 638, 311 79, 953, 827	77.1 68.2 68.6	57, 219, 379 36, 871, 723 32, 572, 929	17.6 26.6 27.9

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 BALTIMORE (THE ONLY CITY IN THE STATE HAVING 50,000 INHABITANTS OR MORE), WITH PER CENT OF TOTAL FOR STATE: 1919.

INDUSTRY.	VALUE OF PRODUCTS.				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.
Clothing, men's.....	\$59,838,256	99.0	(²)	.....	Boxes, wooden packing, except cigar boxes.	\$3,850,830	59.2	\$1,320,984	52.8
Slaughtering and meat packing.....	40,470,781	97.7	\$31,408,499	349.2	Structural ironwork, not made in steel			(²)	.....
Fertilizers.....	32,292,525	87.2	26,091,847	420.8	works or rolling mills.....	3,808,486	100.0	(²)	.....
Tinware, not elsewhere specified.....	21,959,596	98.1	(²)	.....	Glass.....	3,351,101	83.2	(²)	.....
Bread and other bakery products.....	17,599,524	85.9	10,993,079	166.4	Automobile repairing.....	3,351,452	68.8	3,206,219	2,207.6
Confectionery and ice cream.....	16,967,166	91.3	\$12,415,247	272.8	Bags, other than paper, not including bags			(²)	.....
Cars and general shop construction and					made in textile mills.....	3,132,886	100.0	(²)	.....
repairs by steam-railroad companies.....	14,420,844	63.1	4,381,933	43.6	Lithographing.....	3,123,735	100.0	2,058,348	193.2
Furnishing goods, men's.....	13,961,385	95.7	12,818,956	1,122.1	Oil, not elsewhere specified.....	3,123,209	100.0	(²)	.....
Stamped and enameled ware, not else-			(²)	.....	Umbrellas and canes.....	2,729,891	100.0	1,128,017	70.4
where specified.....	13,075,233	100.0	(²)	.....	Ice, manufactured.....	1,903,300	70.0	903,582	90.4
Clothing, women's.....	13,061,400	94.1	(²)	.....	Brick and tile, terra-cotta, and fire-clay			(²)	.....
Cotton goods.....	12,849,731	69.6	(²)	.....	products.....	1,874,067	58.4	(²)	.....
Foundry and machine-shop products.....	11,800,634	70.9	6,996,707	145.5	Copper, tin, and sheet-iron work.....	1,842,264	87.4	846,148	84.9
Canning and preserving, fruits and vege-					Sausage, not made in slaughtering and			(²)	.....
tables.....	11,677,088	41.1	4,180,651	55.8	meat-packing establishments.....	1,724,833	96.4	1,232,232	250.1
Shirts.....	10,506,819	86.8	944,586	9.8	Marble and stone work.....	1,531,809	77.9	236,739	17.7
Printing and publishing, book and job.....	10,393,510	96.7	4,957,368	92.2	Gas machines and gas and water meters.....	1,350,132	100.0	(²)	.....
Food preparations, not elsewhere specified.....	8,845,786	96.8	6,018,657	212.9	Cooperage.....	1,295,051	91.6	989,051	323.2
Patent medicines and compounds.....	8,616,075	97.1	5,714,114	196.9	Mineral and soda waters.....	1,233,485	69.1	802,514	186.2
Printing and publishing, newspapers and					Poultry, killing and dressing, not done in			(²)	.....
periodicals.....	8,282,313	88.5	4,825,536	139.6	slaughtering and meat-packing estab-			(²)	.....
Tobacco, cigars and cigarettes.....	7,458,851	91.1	2,426,165	48.2	lishments.....	1,139,455	100.0	(²)	.....
Druggists' preparations, and perfumery					Ammunition.....			(²)	.....
and cosmetics.....	6,819,667	98.4	3,844,398	129.2	Brass, bronze, and copper products.....			(²)	.....
Boxes, paper and other, not elsewhere			(²)	.....	Cars, steam-railroad, not including opera-			(²)	.....
specified.....	6,156,873	98.8	(²)	.....	tions of railroad companies.....			(²)	.....
Coffee and spice, roasting and grinding....	5,834,333	100.0	1,490,995	33.9	Chemicals.....	(²)	(²)	(²)	(²)
Furniture.....	5,157,784	75.5	2,425,666	88.8	Gas, illuminating and heating.....			(²)	.....
Hats, straw.....	4,719,150	100.0	-106,889	-2.2	Liquors, distilled.....			(²)	.....
Lumber, planing-mill products, not in-					Liquors, malt.....			(²)	.....
cluding planing mills connected with					Petroleum, refining.....			(²)	.....
sawmills.....	4,516,442	60.1	2,009,652	80.2	Shipbuilding, steel.....			(²)	.....
Shipbuilding, wooden, including boat					Smelting and refining, copper.....			(²)	.....
building.....	4,011,866	62.0	3,662,011	1,046.7	Tobacco, smoking.....			(²)	.....

¹ A minus sign (—) denotes decrease.

² Figures can not be shown without disclosing individual operations.

³ Includes "chewing gum" in 1914.

⁴ Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."

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.....	18,730	9,199	6,470	406,788	263,753	218,244	100.0	100.0	100.0
Owned.....	3,076	3,346	3,523	251,606	210,956	200,205	61.9	83.4	91.7
Steam.....	2,287	2,574	2,603	177,106	190,199	182,395	43.5	74.4	83.6
Engines.....	2,101	(2)	(2)	149,756	(2)	(2)	36.8	.....	.....
Turbines.....	96	(2)	(2)	27,350	(2)	(2)	6.7	.....	.....
Internal-combustion engines.....	567	522	504	65,493	13,822	5,736	16.1	5.2	2.6
Water.....	222	250	326	9,007	9,935	12,074	2.2	3.8	5.5
Water wheels and turbines.....	222	244	309	9,007	9,873	11,953	2.2	3.7	5.5
Water motors.....	.....	6	17	.....	62	121	.....	(3)	0.1
Rented.....	15,654	5,853	2,947	155,162	43,797	18,039	38.1	16.6	8.3
Electric.....	15,654	5,853	2,947	155,031	42,243	17,108	38.1	16.0	7.8
Other.....	.....	.....	.....	131	1,554	931	(2)	0.6	0.4
Electric.....	20,079	10,137	5,024	313,811	117,707	44,921	100.0	100.0	100.0
Rented.....	15,654	5,853	2,947	155,031	42,243	17,108	49.4	35.9	38.1
Generated by establishments reporting.....	5,325	4,284	2,077	158,780	75,464	27,813	50.6	64.1	61.9

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 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).				
All industries.....	65,239	2,020,167	436,764	1,086,424	33,204	1,270,991
Per cent of increase ²	127,508 -48.9	1,425,508 41.7	320,133 36.4	622,694 79.8	(1) (1)	1,102,357 15.3
Baking powders and yeast.....	64	7,797	.....	.....	.....	916
Boxes, paper and other, not elsewhere specified.....	158	5,001	.....	6,300	5	1,260
Brass, bronze, and copper products.....	3,358	3,673	1,256	15,528	70	4,752
Bread and other bakery products.....	8,931	10,186	403	133	413	17,328
Brick and tile, terra-cotta, and fire-clay products.....	178	88,526	.....	156	13	.....
Canning and preserving, fruits and vegetables.....	1,194	37,502	.....	291	2,219	207
Cars and general shop construction and repairs by steam-railroad companies.....	.....	108,591	1,489	25,523	6	6,882
Chemicals.....	66,705	66,705	42	15,003	.....	7,200
Clothing, men's.....	1,326	9,223	.....	18	53	20,400
Confectionery and ice cream.....	2,723	9,830	136	212	714	134,967
Cotton goods.....	30	21,402	.....	.....	60	.....
Fertilizers.....	190	27,204	75	3,151	157	.....
Flour-mill and gristmill products.....	1,893	10,683	.....	2,156	1,035	439
Food preparations, not elsewhere specified.....	338	5,100	.....	2	20	1,028
Foundry and machine-shop products.....	2,486	12,752	13,564	7,215	291	12,702
Furniture.....	415	8,160	.....	3	1	1,599
Gas, illuminating and heating.....	4,218	52,898	.....	10,084	.....	.....
Glass.....	32	35,407	1,440	40,045	102	20,550
Ice, manufactured.....	6,650	84,691	.....	4,630	274	4,000
Iron and steel, steel works and rolling mills.....	157	107,625	3,713	529,811	250	835,590
Leather, tanned, curried, and finished.....	2	13,577	.....	.....	.....	.....
Lime.....	3,359	5,442	15,918	32	247	.....
Liquors, malt.....	2,058	24,668	.....	.....	290	.....
Paints.....	13	9,048	.....	.....	35	138
Paper and wood pulp.....	.....	171,970	.....	.....	55	.....
Paving materials.....	.....	10,967	.....	119	150	.....
Petroleum, refining.....	3,277	54,262	30,548	287,463	20,405	.....
Pottery.....	468	8,811	.....	.....	.....	.....
Shipbuilding, steel.....	5,338	33,676	3,314	10,060	1,200	320
Slaughtering and meat packing.....	3,772	48,461	.....	12	21	299
Stamped and enameled ware, not elsewhere specified.....	44	20,918	1,469	9,430	10	17,439
All other industries.....	12,558	899,532	354,397	95,029	5,048	183,046
Total for cities.....	47,832	937,779	74,818	530,906	28,730	439,236
ANNAPOLIS.....	110	7,073	6	.....	1	.....
BALTIMORE.....	43,413	702,258	68,658	509,589	28,218	401,025
CUMBERLAND.....	39	83,520	1,548	15,955	453	35,503
FREDERICK.....	1,490	18,143	3,824	2,267	20	145
HAGERSTOWN.....	2,780	41,785	782	12,185	47	2,563

¹ Included in figures for fuel oils.

² A minus sign (—) denotes decrease.

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 seven of these industries are here presented.

Shipbuilding, including boat building (Tables 19 and 20).—This industry includes the building and repairing of steel and wooden vessels, as well as small craft, and the manufacture of masts, spars, oars, and rigging. Comparisons of the 1919 figures for this industry, unlike those for any other for which totals are presented, are made with those of the special census for shipbuilding, 1916. The number and tonnage of all vessels launched in 1919 and 1916 are shown, by classes, in the following table:

TABLE 19.—SHIPBUILDING, INCLUDING BOAT BUILDING—NUMBER AND TONNAGE: 1919 AND 1916.

	1919		1916	
	Num-ber.	Gross ton-nage.	Num-ber.	Gross ton-nage.
Vessels, 5 gross tons and over, launched during the year.....	104	153,795	66	57,767
Steel.....	26	131,012	17	45,833
Steam.....	24	126,829	12	32,788
Motor.....	2	4,183	5	13,045
Unrigged.....	2	4,183	5	13,045
Wooden.....	78	22,783	49	11,934
Steam.....	9	3,071	1	73
Motor.....	9	166	13	502
Sail, with auxiliary power.....	2	2,147	2	1,350
Sail, without auxiliary power.....	2	2,147	1	75
Unrigged.....	58	17,399	32	9,834
Power boats, less than 5 gross tons.....	28	.....	51	.....

The increase in iron and steel tonnage from 1916 to 1919 was far in excess of the increase in wooden tonnage during the same period, the increases being 185.8 and 90.9 per cent, respectively.

Twenty-four of the 26 steel vessels launched in 1919 were propelled by steam. Ten were designed for freight service, 11 for oil tankers, 1 for towing, and 2 for mine sweepers. Sixteen of these vessels were launched at Sparrows Point and 10 at Baltimore.

The value of work upon vessels of all kinds during 1919 and 1916 is shown in the following table:

TABLE 20.—SHIPBUILDING, INCLUDING BOAT BUILDING—VALUE: 1919 AND 1916.

	1919	1916
Total value of work.....	\$67,309,914	\$12,205,557
Work done during the year on new vessels, 5 gross tons and over.....	53,323,374	8,934,761
Steel.....	49,329,800	8,380,836
Wood.....	3,993,568	553,925
Boats of less than 5 tons.....	13,003	41,054
Power boats of all kinds.....	10,758	26,575
Sailboats, rowboats, etc.....	2,250	14,479
Repair work.....	12,279,775	3,046,777
Steel.....	10,485,795	2,462,550
Wood.....	1,793,980	584,218
All other products.....	1,693,762	182,065

Of the 78 wooden vessels launched during 1919, 58 were unrigged, mostly used as lighters.

Slaughtering and meat packing (Table 21).—This table presents for the census years 1919, 1914, and 1909 the kind, number, and cost of animals slaughtered, the cost of all other materials, which includes poultry, dressed meats purchased for curing, cottonseed oil for making lard compounds and substitutes, curing materials, seasoning, refrigeration, materials for making ice, containers, fuel, rent of power, mill supplies, contract work, and freight; and the kind, quantity, and value of the principal products that can be shown without disclosing individual operations. The value of the products that can not be shown separately and minor and auxiliary specified products are grouped under "All other products," and include beef, pickled and other cured, canned goods, lard, oleo and other oils, canned sausage, grease, soap stock, oleo stearin, casings, hoofs, horns, horntips, strips, and waste, glue, skins (other than cattle, calf, and sheep), hog and cattle hair, and ice.

The number of animals slaughtered indicates the growth of the industry; the number in 1919 was 847,703 and in 1914, 734,220, an increase of 113,483, or 15.5 per cent. This increase was in all classes.

The cost of materials and value of products increased in a much greater ratio and was largely due to inflated values on account of the World War. The cost of all materials increased \$19,753,264, or 143.5 per cent, and the cost of animals slaughtered increased \$14,819,687, or 135.3 per cent. The total value of products increased \$24,832,081, or 149.5 per cent. All classes of products increased in value, but there was a production decrease in pork, pickled and other cured, of 2,933,774 pounds, sausage of 2,571,692 pounds, lard of 1,200,910 pounds, and tallow and oleo stock of 211,421 pounds. The manufacture of lard compounds and substitutes increased 2,493,029 pounds, which more than offset the decrease in lard, and indicated the increasing popularity of this product's use for culinary purposes in this state.

TABLE 21.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$33,520,233	\$13,706,969	\$11,282,938
Animals slaughtered, cost.....	\$25,775,352	\$10,955,655	\$8,063,801
Beefes—			
Number.....	75,469	44,738	36,251
Cost.....	\$8,337,572	\$3,250,400	\$1,966,380
Calves—			
Number.....	60,530	26,278	23,137
Cost.....	\$1,395,074	\$276,447	\$205,270
Sheep and lambs—			
Number.....	57,266	40,578	19,173
Cost.....	\$593,403	\$213,175	\$88,282
Hogs—			
Number.....	654,438	622,626	554,761
Cost.....	\$15,089,303	\$7,215,043	\$5,803,872
All other materials, cost.....	\$7,744,881	\$2,811,304	\$3,219,134

TABLE 21.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909—Continued.

PRODUCTS.	1919	1914	1909
Total value.....	\$11,430,448	\$16,607,367	\$13,304,102
Fresh meat, value.....	\$16,419,798	\$5,913,753	\$3,817,302
Beef—			
Pounds.....	36,458,212	23,144,790	19,979,567
Value.....	\$7,532,750	\$2,836,331	\$1,758,714
Veal—			
Pounds.....	4,434,770	1,612,205	1,482,710
Value.....	\$1,062,417	\$225,152	\$177,732
Mutton and lamb—			
Pounds.....	1,932,040	1,541,215	630,720
Value.....	\$503,503	\$217,216	\$77,541
Pork—			
Pounds.....	21,406,406	16,172,217	13,168,197
Value.....	\$6,521,137	\$2,362,933	\$1,702,932
Edible offal and other fresh meat—			
Pounds.....	8,639,216	3,816,685	261,515
Value.....	\$799,991	\$272,121	\$40,473
Pork, pickled and other cured:			
Pounds.....	33,222,353	39,150,127	28,231,007
Value.....	\$11,340,198	\$5,501,956	\$3,618,005
Sausage:			
Pounds.....	8,095,159	10,666,851	11,713,817
Value.....	\$1,944,920	\$1,338,165	\$1,086,901
Meat puddings, scrapple, headcheese, etc.:			
Pounds.....	2,170,550	1,011,907	(1)
Value.....	\$405,681	\$106,431	(1)
Lard:			
Pounds.....	9,341,568	10,542,478	9,577,942
Value.....	\$2,667,575	\$1,219,403	\$1,162,407
Lard compounds and substitutes:			
Pounds.....	9,785,576	7,292,547	(1)
Value.....	\$2,368,019	\$927,305	(1)
Tallow and oleo stock:			
Pounds.....	3,330,154	3,841,675	1,469,135
Value.....	\$480,354	\$230,794	\$89,077
Fertilizers and fertilizer materials:			
Tons.....	14,385	6,368	21,827
Value.....	\$553,145	\$150,745	\$308,965
Hides, cattle and calf:			
Number.....	135,875	71,016	58,891
Pounds.....	4,651,767	2,806,530	2,755,685
Value.....	\$1,772,537	\$493,931	\$349,077
Sheep pelts:			
Number.....	56,951	40,578	19,173
Value.....	\$146,224	\$17,910	\$10,963
All other products, value.....	\$3,339,797	\$1,006,845	\$2,824,445

¹ Not reported separately.

Fertilizers (Table 22).—This table shows the quantities and values of the chief products of the fertilizer industry in Maryland in 1919, 1914, and 1909. Measured by value of products, the state ranked second among the states in all three years, Georgia ranking first. A progressive increase is shown for both quantity production and values, with an increase in average ton value from \$15 in 1909 and 1914 to \$29 in 1919.

TABLE 22.—FERTILIZERS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value of products.....	\$37,014,097	\$13,986,704	\$9,072,786
Fertilizers:			
Tons (2,000 pounds).....	1,209,426	875,669	608,699
Value.....	\$34,997,060	\$13,482,931	\$8,983,205
Complete and ammoniated fertilizers—			
Tons.....	485,854	516,856	318,542
Value.....	\$20,928,801	\$10,010,781	\$6,015,143
Superphosphates and concentrated phosphates—			
Tons.....	635,856	222,401	184,524
Value.....	\$10,061,824	\$1,790,875	\$1,838,959
Other fertilizers—			
Tons.....	87,716	136,412	105,633
Value.....	\$3,406,432	\$1,681,275	\$1,129,163
All other products, value.....	\$2,017,037	\$503,773	\$689,521

Canning and preserving (Table 23).—The quantity and value of the various products of this industry for 1919, 1914, and 1909 are given in the following

table. The case consists of 24 standard-size No. 2 cans for beans, corn, peas, blackberries, gooseberries, strawberries, and cherries, and No. 3 cans for all others except tomato pulp, for which No. 10 cans were used.

TABLE 23.—CANNING AND PRESERVING: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$30,566,097	\$18,028,779	\$13,709,449
Canning and preserving, fruits and vegetables.....	\$28,421,544	\$16,448,869	\$12,393,005
Canning and preserving, fish and oysters.....	\$1,051,695	\$1,194,518	\$988,831
Pickles, preserves, and sauces.....	\$1,092,858	\$385,392	\$326,713
Canned vegetables.....	\$20,951,330	\$14,504,612	\$10,779,540
Tomatoes:			
Cases.....	2,975,567	6,564,314	5,747,477
Value.....	\$10,059,221	\$9,710,462	\$7,674,900
Corn:			
Cases.....	2,342,350	1,482,093	772,828
Value.....	\$5,448,073	\$1,939,295	\$1,030,905
Beans:			
Cases.....	757,203	616,196	611,287
Value.....	\$1,774,344	\$860,117	\$778,732
Peas:			
Cases.....	616,440	545,022	381,894
Value.....	\$1,606,504	\$853,570	\$610,981
Spinach:			
Cases.....	226,180	275,841	110,882
Value.....	\$606,778	\$498,651	\$188,852
Sweet potatoes:			
Cases.....	167,274	126,259	136,252
Value.....	\$544,394	\$205,261	\$206,919
Tomato pulp:			
Cases.....	39,566	(2)	(2)
Value.....	\$210,751	(2)	(2)
Tomato paste:			
Cases.....	33,928	(2)	(2)
Value.....	\$123,394	(2)	(2)
Succotash:			
Cases.....	47,260	(2)	(2)
Value.....	\$109,635	(2)	(2)
All other:			
Cases.....	83,101	267,902	156,852
Value.....	\$288,236	\$467,256	\$270,191
Canned fruits.....	\$4,832,365	\$1,269,999	\$1,095,014
Peaches:			
Cases.....	223,372	194,760	80,489
Value.....	\$1,316,663	\$310,021	\$158,830
Pineapples:			
Cases.....	149,931	65,830	67,695
Value.....	\$1,308,354	\$237,320	\$252,384
Pears:			
Cases.....	163,825	121,859	67,427
Value.....	\$777,105	\$221,395	\$111,949
Strawberries:			
Cases.....	57,133	63,662	106,724
Value.....	\$602,352	\$187,321	\$228,890
Apples:			
Cases.....	98,806	83,567	111,347
Value.....	\$318,205	\$125,578	\$108,453
Blackberries:			
Cases.....	44,552	28,115	29,884
Value.....	\$220,197	\$15,174	\$39,316
Raspberries:			
Cases.....	25,321	9,716	14,052
Value.....	\$203,893	\$17,006	\$25,619
Cherries:			
Cases.....	5,346	25,383	10,092
Value.....	\$14,006	\$18,246	\$18,204
Gooseberries:			
Cases.....	8,078	42,617	53,513
Value.....	\$32,582	\$55,372	\$77,987
All other:			
Cases.....	2,807	8,690	9,017
Value.....	\$10,008	\$12,666	\$13,398
Pickles, preserves, and sauces, value.....	\$1,092,858	\$385,392	\$326,713
Canned oysters, value.....	\$670,796	\$1,088,744	\$761,198
Canned, smoked, and salted fish, clams, and crabs, value.....	\$316,886	\$105,774	\$227,633
All other products, value.....	\$2,701,862	\$674,258	\$519,351

¹ Does not include 195,201 cases of canned vegetables valued at \$588,773, canned fruits, 81,081 cases valued at \$542,207, canned oysters, 273,773 cases, to the value of \$1,184,084, and pickles, preserves, and sauces to the value of \$94,928, in 1919; 195,001 cases of vegetables, valued at \$305,984, 51,781 cases of canned fruits valued at \$125,137, 28,189 cases of canned oysters valued at \$88,347, and pickles, preserves, and sauces valued at \$50,745, in 1914, reported by establishments engaged in other industries.

² Included in "All other" in 1914 and 1909.

Flour-mill and gristmill products (Table 24).—This table shows the kinds, quantities, and values of the different products of this industry for 1919, 1914, and 1909.

TABLE 24.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$19,004,169	\$8,163,899	\$9,267,903
Wheat flour:			
Barrels.....	1,282,219	1,105,577	1,130,165
Value.....	\$13,107,473	\$5,152,538	\$6,037,871
Rye flour:			
Barrels.....	835	2,211	5,296
Value.....	\$5,231	\$8,820	\$23,304
Buckwheat flour:			
Barrels.....	1,632,083	1,564,878	2,558,744
Value.....	\$91,642	\$50,783	\$69,279
Corn meal and corn flour:			
Barrels.....	128,005	170,431	230,332
Value.....	\$1,019,061	\$605,583	\$741,075
Hominy and grits:			
Pounds.....	326,350	2,464,035	2,289,817
Value.....	\$14,820	\$16,961	\$38,966
Bran and middlings:			
Tons.....	50,633	49,202	
Value.....	\$2,606,699	\$1,315,693	\$1,804
Feed and offal:			
Tons.....	16,876	32,947	\$2,174,260
Value.....	\$1,035,674	\$973,570	
All other products, value.....	\$1,120,589	\$9,921	\$123,148

Cotton goods (Table 25).—The principal statistics relating to the cotton-goods industry are presented for the census years 1919, 1914, and 1909.

The quantity of domestic cotton consumed in 1919 increased 14.7 per cent as compared with 1914 and 6.3 per cent as compared with 1909. The consumption of cotton for census years reached its peak in 1899, when it amounted to 39,901,955 pounds.

During the past 20 years the yardage of woven goods has shown a steady decrease, the production having been 33,910,582 square yards in 1899, 22,801,376 square yards in 1904, 21,428,788 square yards in 1909, 17,940,482 square yards in 1914, and 17,915,469 square yards in 1919.

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

	1919	1914	1909
MATERIALS.			
Total cost.....	\$11,427,557	\$4,452,325	\$4,011,741
Domestic cotton:			
Pounds.....	29,196,868	25,444,796	27,460,792
Cost.....	\$8,987,212	\$2,979,256	\$3,230,428
Cotton yarn, purchased:			
Pounds.....	2,706,157	4,746,710	2,254,334
Cost.....	\$1,562,846	\$806,266	\$414,199
Fuel and rent of power, cost.....	\$288,336	\$130,058	\$86,911
All other materials, cost.....	\$639,163	\$536,745	\$280,203
PRODUCTS.			
Total value.....	\$18,454,957	\$6,790,935	\$5,522,293
Duck:			
Pounds.....	17,122,700	(¹)	(¹)
Square yards.....	13,818,116	13,212,532	13,872,294
Value.....	\$10,405,023	\$3,846,524	\$3,478,113
Other woven goods:			
Pounds.....	4,777,844	(¹)	(¹)
Square yards.....	4,097,353	4,727,950	7,556,404
Value.....	\$3,726,519	\$802,760	\$958,335
All other products, value.....	\$1,323,415	\$2,141,651	\$1,085,845

¹ Figures not available.

Duck continues to be the outstanding product of the industry. It constituted 77.1 per cent of the yardage of woven goods in 1919, 73.6 per cent in 1914, 64.7 per cent in 1909, 62.1 per cent in 1904, and 74.1 per cent in 1899.

Printing and publishing (Table 26).—This table gives the number and aggregate circulation per issue of the newspapers and periodicals published in Maryland as reported at the censuses of 1919, 1914, and 1909.

The gain in aggregate circulation of all publications between 1914 and 1919 was 133,003, or 14.2 per cent. The greatest gain for the five-year period from 1914 to 1919 was in the circulation of weekly publications. True to the record in many other states the number of weekly publications decreased considerably, but, notwithstanding this, the aggregate circulation per issue increased 44,328, or 27.5 per cent, due principally to the increases in circulation of race, manufacturing, and religious papers.

Of the daily circulation, 264,727, or 60.4 per cent, was reported by the 11 afternoon newspapers, a gain of 62,667, or 31 per cent, for the five-year period from 1914 to 1919. The increase in Sunday newspaper circulation for the same period was 73,379, or 27.6 per cent.

Of foreign-language publications there were 5 with a circulation of 11,900. Three were weeklies—1 in Bohemian, 1 in German, and 1 in Polish; there was 1 semimonthly in Yiddish and 1 monthly publication printed in English, French, German, and Spanish.

TABLE 26.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	175	182	163	1,071,367	938,364	800,550
Daily.....	18	19	18	438,635	400,680	310,870
Sunday.....	3	4	5	339,196	265,817	182,582
Semiweekly ¹	3	3	3	14,149	12,862	18,075
Weekly.....	104	125	120	205,373	161,045	185,554
Monthly ²	28	18	13	53,579	89,670	100,069
Quarterly ³	19	13	4	20,435	8,290	3,400

¹ Includes in 1919, 1914, and 1909, 1 triweekly.

² Includes in 1919, 3, and in 1914, 2 semimonthlies.

³ Includes in 1919, 8 bimonthlies; in 1914, 1 bimonthly and 1 "All other"; and in 1909, 2 semimonthlies.

Power laundries (Table 27).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 27, however, summarizes the statistics for such laundries in the state of Maryland for 1919 and 1914.

TABLE 27.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Percent of increase, ¹ 1914-1919.
	1919	1914	
Number of establishments.....	46	54	.....
Persons engaged.....	1,888	1,921	-1.7
Proprietors and firm members.....	39	62	.....
Salaried employees.....	230	144	59.7
Wage earners (average number).....	1,619	1,715	-5.6
Primary horsepower.....	2,341	2,211	5.9
Capital.....	\$1,519,051	\$1,164,371	30.5
Salaries and wages.....	1,254,957	607,907	79.8
Salaries.....	286,507	104,175	175.0
Wages.....	968,450	503,792	63.1
Paid for contract work.....	1,514	.....	.....
Rent and taxes.....	47,920	43,389	10.4
Cost of materials.....	690,733	259,456	166.2
Amount received for work done.....	2,640,686	1,391,902	89.7

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

Dyeing and cleaning (Table 28).—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 for censuses 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 hand trades, household industries, etc.

TABLE 28.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	9
Persons engaged.....	598
Proprietors and firm members.....	7
Salaried employees.....	150
Wage earners (average number).....	441
Primary horsepower.....	721
Capital.....	\$1,072,586
Salaries and wages.....	402,764
Salaries.....	153,003
Wages.....	249,761
Paid for contract work.....	0,134
Rent and taxes.....	62,855
Cost of materials.....	154,711
Amount received for work done.....	1,011,843

Custom gristmills and custom sawmills (Tables 29 and 30).—Statistics for custom gristmills and custom sawmills 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 29 and 30 summarize the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled, and for the sawmills the amount charged for the work performed.

TABLE 29.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Percent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	66	114	-42.1
Persons engaged.....	86	148	-41.9
Proprietors and firm members.....	71	129	-45.0
Salaried employees.....	.....	1	.....
Wage earners (average number).....	15	18	.....
Primary horsepower.....	1,330	2,123	-37.4
Capital.....	\$179,805	\$181,625	-1.0
Salaries and wages.....	10,422	5,722	82.1
Salaries.....	.....	250	.....
Wages.....	10,422	5,472	90.5
Rent and taxes.....	2,291	4,285	-46.5
Cost of materials ²	465,896	309,939	16.5
Value of products ¹	556,547	484,793	14.8

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

² Includes estimate of all grain ground.

TABLE 30.—CUSTOM SAWMILLS: 1919 AND 1909..

	NUMBER OR AMOUNT.		Percent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	131	126	4.0
Persons engaged.....	222	435	-49.0
Proprietors and firm members.....	147	158	-7.0
Salaried employees.....	.....	1	.....
Wage earners (average number).....	75	275	-72.8
Primary horsepower.....	2,363	2,492	-5.6
Capital.....	\$142,679	\$106,099	-27.3
Salaries and wages.....	51,725	69,779	-25.0
Salaries.....	.....	100	.....
Wages.....	51,725	69,679	-25.8
Rent and taxes.....	980	1,025	-4.4
Cost of materials.....	12,278	2,157	469.2
Amount received for work done.....	130,586	173,450	-24.7

¹ A minus sign (-) denotes decrease.

GENERAL TABLES.

Table 31 gives for 1919, 1914, and 1909 for selected industries in the state and in Baltimore the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products; and for Cumberland, Frederick, and Hagerstown, similar data for all industries combined.

Table 32 presents for 1919 for the state as a whole and for Baltimore statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments; and for Annapolis, Cumberland, Frederick, and Hagerstown, similar data for all industries combined.

MANUFACTURES—MARYLAND.

TABLE 31.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Cen- sus year.	Number of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Number of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.	
																Expressed in thousands.	Expressed in thousands.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.																
All industries.....	1919	4,937	140,342	406,768	\$147,867	\$540,347	\$873,945	Foundry and machine-shop products. ¹	1919	391	7,183	15,733	\$9,188	\$12,619	\$31,581	
	1914	4,797	111,585	263,753	53,792	238,972	377,749			1914	179	4,423	8,477	2,729	5,122	10,659
	1909	4,837	107,921	218,244	45,436	199,049	315,669			1909	157	4,798	6,785	2,751	5,956	11,978
Automobile bodies and parts.	1919	35	233	422	279	438	1,034	Furnishing goods, men's.....	1919	29	4,075	1,642	2,288	8,297	14,566	
	1914	10	54	83	35	62	210			1914	15	561	94	192	611	1,142
	1909									1909	26	436	53	155	494	895
Boots and shoes.....	1919	13	986	582	794	3,107	4,662	Furniture.....	1919	47	1,645	3,358	1,547	2,990	6,828	
	1914	7	595	242	278	824	1,447			1914	45	1,998	2,892	1,012	1,823	3,784
	1909	14	594	252	239	912	1,431			1909	48	1,856	2,876	835	1,601	3,350
Boxes, paper and other, not elsewhere specified.	1919	23	1,898	2,099	1,430	3,406	0,234	Gas, illuminating and heat- ing.	1919	16	875	2,831	1,272	2,858	6,448	
	1914	21	905	611	292	625	1,279			1914	18	1,234	1,077	398	1,405	4,157
	1909	17	684	365	183	395	553			1909	18	476	1,555	220	629	3,223
Brass, bronze, and copper products.	1919	20	926	7,362	1,039	2,996	5,058	Glass.....	1919	8	1,755	1,848	1,043	1,039	4,032	
	1914	15	392	2,078	243	753	1,173			1914	6	1,184	1,030	783	400	1,501
	1909	17	219	243	98	432	748			1909	7	1,052	427	505	237	1,038
Bread and other bakery products.	1919	424	2,381	2,356	2,368	12,898	20,494	Hats, straw.....	1919	7	1,385	1,186	1,030	1,975	4,719	
	1914	523	2,038	2,220	1,027	4,630	8,098			1914	7	2,173	1,307	1,040	2,392	4,826
	1909	516	1,962	1,212	893	4,363	6,868			1909	7	1,694	930	688	1,783	3,347
Brick and tile, terra-cotta, and fire-clay products.	1919	30	1,207	6,147	1,099	1,113	3,207	Ice, manufactured.....	1919	61	632	11,993	709	977	2,717	
	1914	41	1,721	6,258	720	408	1,645			1914	62	532	11,463	325	422	1,563
	1909	56	1,940	6,151	779	455	1,728			1909	42	355	7,192	230	300	1,022
Brushes.....	1919	9	771	863	500	1,894	3,509	Knit goods.....	1919	7	749	606	367	1,773	2,687	
	1914	9	559	813	297	1,051	1,802			1914	10	1,077	443	344	644	1,116
	1909	11	488	558	218	648	1,124			1909	11	1,022	460	234	697	1,172
Butter and condensed milk..	1919	15	88	394	83	1,453	1,790	Leather goods ⁵	1919	37	286	185	241	727	1,304	
	1914	32	61	452	34	463	583			1914	54	244	163	120	468	813
	1909	44	60	522	39	524	654			1909	43	326	182	150	607	1,043
Canning and preserving ¹	1919	460	8,023	10,093	3,932	21,987	30,566	Leather, tanned, curried, and finished.	1919	7	517	1,630	479	4,356	6,263	
	1914	465	8,640	10,698	2,402	12,958	18,029			1914	10	440	1,458	229	2,620	3,485
	1909	468	8,613	7,007	1,026	10,060	13,709			1909	13	466	1,321	211	2,114	2,661
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	6	927	591	1,176	647	1,904	Lime.....	1919	36	468	2,111	263	551	1,049	
	1914	5	589	66	356	233	653			1914	25	236	605	99	162	390
	1909	5	538	217	260	201	483			1909	43	397	942	128	132	420
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	17	8,363	14,341	11,627	0,498	22,837	Liquors, malt.....	1919	8	597	4,383	917	1,573	6,374	
	1914	20	5,969	6,056	3,955	8,880	13,229			1914	14	1,073	6,836	945	2,166	7,252
	1909	21	5,549	7,308	3,535	5,193	9,059			1909	20	909	6,187	711	1,569	5,690
Clothing, men's, including shirts.	1919	331	11,742	3,355	12,309	30,208	72,589	Lumber and timber prod- ucts. ⁶	1919	500	5,022	24,622	3,981	9,736	18,744	
	1914	301	18,062	6,110	7,317	20,598	39,048			1914	493	6,115	22,792	2,725	6,182	11,911
	1909	359	19,784	4,061	7,563	20,966	36,921			1909	561	7,003	23,553	2,457	6,507	12,134
Clothing, women's.....	1919	125	2,822	574	2,058	7,758	13,884	Marble and stone work.....	1919	83	563	1,507	645	802	1,968	
	1914	90	3,026	475	1,170	3,206	6,015			1914	102	990	3,212	579	783	1,331
	1909	72	2,641	370	888	2,285	4,351			1909	89	1,455	4,241	793	957	2,427
Coffee and spice, roasting and grinding.	1919	15	203	575	160	4,692	5,884	Mattresses and spring beds, not elsewhere specified.	1919	20	243	547	222	807	1,574	
	1914	14	169	494	84	3,174	4,393			1914	17	244	239	107	446	784
	1909	15	169	531	77	2,431	2,878			1909	19	198	178	86	469	729
Confectionery and ice cream ² .	1919	170	3,008	6,349	2,124	11,336	17,995	Mineral and soda waters.....	1919	63	223	430	261	957	1,785	
	1914	127	1,707	2,443	618	3,097	4,843			1914	57	185	178	101	256	559
	1909									1909	53	169	144	87	170	443
Cooperage.....	1919	29	173	129	166	507	1,414	Oil, not elsewhere specified..	1919	6	118	763	143	2,343	3,123	
	1914	34	259	328	139	390	696			1914	3	9	1	6	95	121
	1909	40	323	441	135	358	617									
Copper, tin, and sheet-iron products. ³	1919	108	8,163	11,277	7,508	26,466	40,636	Paint and varnish.....	1919	17	263	711	279	2,453	3,466	
	1914	114	7,712	7,308	4,078	16,717	25,491			1914	9	145	453	82	670	1,027
	1909	81	5,275	5,532	2,076	10,808	16,909			1909	12	127	450	55	700	1,001
Cotton goods.....	1919	14	3,416	17,323	2,991	11,428	18,455	Paper and wood pulp.....	1919	10	1,408	18,148	1,949	6,816	9,917	
	1914	13	3,424	16,975	1,239	4,452	6,791			1914	13	1,586	16,028	926	4,126	6,150
	1909	16	3,966	13,128	1,139	4,012	5,522			1909	13	1,249	11,407	639	3,278	4,894
Fertilizers.....	1919	45	3,102	16,400	3,561	24,095	37,014	Patent medicines and com- pounds and druggists' preparations. ⁷	1919	76	1,461	1,936	1,018	8,430	15,806	
	1914	48	1,991	7,242	1,052	9,068	13,987			1914	83	1,053	1,424	432	2,389	5,070
	1909	41	1,439	5,324	617	6,963	9,673			1909	83	1,193	683	429	2,167	5,548
Flour-mill and gristmill products.	1919	247	478	11,351	449	16,357	19,004	Paving materials.....	1919	31	693	4,880	707	442	1,483	
	1914	247	473	11,398	241	8,164	9,268			1914	10	548	3,009	295	384	888
	1909	205	506	13,807	227	8,003	9,268									
Food preparations, not else- where specified.	1919	33	421	1,707	359	6,885	9,141	Printing and publishing ⁸	1919	385	4,891	5,540	4,937	9,115	23,835	
	1914	43	332	2,191	152	2,357	2,975			1914	368	4,173	7,013	2,652	3,715	11,263
	1909	29	212	1,350	92	1,550	1,893			1909	371	3,386	3,694	1,965	2,464	8,360

¹ Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; "canning and preserving, oysters"; and "pickles, preserves, and sauces."

² Includes "chewing gum" in 1914.

³ Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."

⁴ 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, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "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 "bells" in 1914.

⁵ Includes "saddlery and harness" and "trunks and valises."

⁶ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills;" and "window and door screens," in all years; and "pulpwood" in 1914.

⁷ Includes "perfumery and cosmetics."

⁸ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

MANUFACTURES—MARYLAND.

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TABLE 31.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Shipbuilding, including boat building.	1919	42	19,084	20,539	\$28,887	\$31,000	\$67,310	Tobacco, cigars and ciga- rettes.	1919	146	2,548	400	\$1,918	\$3,551	\$8,190
	1914	42	2,468	5,979	1,573	2,102	4,521		1914	217	3,212	354	1,184	2,454	6,302
	1909	46	1,793	6,795	1,098	1,849	3,535								
Silk goods.....	1919	6	839	1,505	450	708	1,534	Umbrellas and canes.....	1919	8	377	47	220	1,803	2,730
	1914	5	874	1,012	283	424	911		1914	8	484	123	172	987	1,602
	1909	4	655	915	100	237	512		1909	9	514	95	108	1,070	1,650
Slaughtering and meat packing. ¹	1919	72	1,664	5,653	2,078	34,948	43,228	All other industries.....	1919	643	21,618	145,227	23,791	186,394	242,092
	1914	60	1,292	4,102	789	14,136	17,100		1914	673	14,052	77,571	7,755	79,408	105,800
	1909	54	1,034	3,024	604	11,503	13,683		1909	933	19,987	65,505	8,884	70,759	99,570
Stoves and hot-air furnaces..	1919	6	320	482	419	548	1,251								
	1914	7	302	277	178	246	650								
	1909	8	394	273	209	205	676								

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

BALTIMORE								BALTIMORE—Con.							
All industries.								Hats, straw.....							
Bread and other bakery products.	1919	2,797	97,814	184,885	\$103,129	\$427,756	\$677,878	Ice, manufactured.....	1919	7	1,385	1,186	\$1,030	\$1,975	\$4,719
	1914	2,502	73,769	99,869	35,509	129,633	215,172		1914	7	2,173	1,307	1,040	2,392	4,826
	1909	2,502	71,444	76,704	31,171	107,024	180,978		1909	7	1,094	930	688	1,783	3,347
Canning and preserving ²	1919	335	2,018	1,890	2,044	10,833	17,600	Leather goods ³	1919	10	442	8,391	536	593	1,903
	1914	363	1,832	1,817	820	3,751	6,606		1914	12	307	6,913	195	252	1,000
	1909	375	1,632	976	750	3,630	5,716		1909	12	195	5,102	151	222	694
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	62	2,490	3,544	1,688	8,754	12,526	Lumber and timber prod- ucts. ⁴	1919	56	2,074	8,354	1,692	5,038	8,475
	1914	49	3,346	1,985	1,028	5,684	7,780		1914	42	2,062	6,678	1,008	2,971	5,073
	1909	51	3,106	1,283	844	4,317	6,831		1909	48	2,016	5,009	894	3,022	4,806
Clothing ⁵	1919	407	13,340	3,491	13,741	45,233	83,460	Marble and stone work.....	1919	44	400	1,019	515	613	1,532
	1914	353	20,219	6,220	8,277	23,632	44,482		1914	51	591	1,746	404	581	1,301
	1909	393	21,108	4,133	8,204	22,051	40,002		1909	48	742	1,420	485	758	1,704
Coffee and spice, roasting and grinding.	1919	15	203	575	160	4,692	5,884	Patent medicines and compounds and druggists' preparations. ⁶	1919	67	1,433	2,269	1,001	8,247	15,438
	1914	14	169	494	84	3,174	4,393		1914	71	1,034	1,337	420	2,337	5,878
	1909	15	169	531	77	2,431	2,878		1909	71	1,180	907	426	2,136	5,471
Confectionery and ice cream ⁷ .	1919	103	2,862	5,611	1,994	10,681	16,067	Printing and publishing ¹⁰ ..	1919	252	3,790	4,899	4,398	8,988	21,850
	1914	75	1,639	2,046	585	2,922	4,552		1914	243	3,600	6,387	2,358	3,452	10,284
	1909	58	4,172	5,638	3,284	12,152	18,842		1909	238	2,866	3,194	1,747	2,227	7,553
Copper, tin, and sheet-iron products. ⁸	1919	91	8,038	11,170	7,402	25,948	30,877	Shipbuilding, wooden, in- cluding boat building.	1919	16	1,244	3,247	1,800	1,460	4,012
	1914	98	6,280	5,638	3,284	12,152	18,842		1914	11	194	650	122	153	350
	1909	58	4,172	5,638	3,284	12,152	18,842		1909	63	1,600	5,559	2,023	34,056	42,205
Fertilizers.....	1919	10	2,660	15,897	3,089	21,194	32,263	Slaughtering and meat pack- ing. ¹	1919	51	702	2,122	414	7,884	9,504
	1914	8	781	2,681	405	4,150	6,201		1914	48	808	2,611	479	8,052	10,082
	1909	9	578	2,039	251	3,825	5,050		1909	48	808	2,611	479	8,052	10,082
Food preparations, not else- where specified.	1919	28	318	1,576	313	6,608	8,846	Tobacco, cigars and cigar- ettes.	1919	121	2,282	411	1,733	3,221	7,450
	1914	43	332	2,101	152	2,357	2,976		1914	217	3,212	354	1,184	2,454	6,302
	1909	101	3,719	4,576	2,205	4,204	9,074		1909	8	377	47	220	1,803	2,730
Foundry and machine-shop products. ⁹	1919	240	5,914	12,617	7,815	9,523	25,200	Umbrellas and canes.....	1919	8	377	47	220	1,803	2,730
	1914	100	3,071	5,003	1,922	3,561	7,688		1914	8	484	123	172	987	1,602
	1909	101	3,719	4,576	2,205	4,204	9,074		1909	9	514	95	108	1,070	1,650
Furnishing goods, men's.....	1919	22	3,900	1,699	2,202	7,877	13,061	All other industries.....	1919	758	34,744	70,341	40,230	201,082	290,439
	1914	15	561	94	192	611	1,142		1914	583	10,262	38,308	8,232	2,969	51,825
	1909	23	434	50	137	492	801		1909	919	20,765	30,900	8,594	31,160	58,272
Furniture.....	1919	37	1,105	1,826	1,131	2,208	5,158								
	1914	34	1,364	1,787	783	1,231	2,732								
	1909	34	1,157	1,786	548	1,014	2,197								

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

CUMBERLAND								HAGERSTOWN							
FREDERICK.....	1919	82	3,753	10,317	\$4,724	\$8,292	\$15,842		1919	122	4,029	9,532	\$4,109	\$10,401	\$17,663
	1914	74	2,817	8,098	1,519	3,993	7,113		1914	113	3,574	8,425	1,735	4,318	7,412
	1909	71	1,930	5,119	948	2,076	4,534		1909	76	1,718	2,068	583	1,798	3,197

¹ Includes "sausage, not made in slaughtering and meat-packing establishments."
² Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces."
³ Includes "clothing, men's"; "clothing, women's"; and "shirts."
⁴ Includes "chewing gum" in 1914.
⁵ Includes "stamped and enameled ware, not elsewhere specified"; and "tinware, not elsewhere specified."
⁶ Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, welding"; "ma-
chine tools"; "plumbers' supplies, not elsewhere specified"; "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; "bells" in 1914, and "iron and steel, cast-iron pipe in 1919."
⁷ Includes "saddlery and harness" and "trunks and valises."
⁸ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window
and door screens."
⁹ Includes "perfumery and cosmetics."
¹⁰ Includes "engraving, steel and copper plate, including plate printing" and "lithographing" in all years, and "bookbinding and blank-book making" in 1914
and 1909.

MANUFACTURES—MARYLAND.

TABLE 32.—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 10.				
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.			
									Maximum month.	Minimum month.								
1	All industries.....	4,937	165,875	5,129	5,755	10,161	4,488	140,342	Oc 160,567	Ap 129,128	(3)	(3)	(3)	(3)	(3)	Dollars. 619,606,983		
2	Artificial flowers.....	4	75	5	5	1	1	64	Mh 78	Ja 53	59	4	46	1	8	139,895		
3	Artificial limbs.....	3	7	2	1	1	1	3	(*)	(*)	4	3	1	1	1	9,025		
4	Artificial stone products.....	21	86	19	6	1	1	59	Se 86	Fe 37	72	72	1	1	1	170,788		
5	Automobile bodies and parts.....	35	326	36	21	28	8	233	Se 249	Ja 216	251	246	5	3	1	701,289		
6	Automobile repairing.....	212	1,617	233	101	117	65	1,101	De 1,201	Ja 995	1,207	1,201	5	3	1	3,315,160		
7	Awnings, tents, and sails.....	16	100	15	12	6	2	65	Je 82	Fe 52	71	55	10	1	1	297,927		
8	Bags, other than paper, not including bags made in textile mills.....	12	225	8	13	14	7	183	Au 197	My 164	187	79	107	1	1	804,321		
9	Baking powders and yeast.....	7	223	5	11	29	9	169	Oc 209	Ja 125	187	165	22	1	1	681,693		
10	Baskets, and rattan and willow ware.....	16	69	18	1	1	1	48	Se 57	Ja 35	54	54	1	1	1	42,842		
11	Blucking, stains, and dressings.....	6	50	5	3	20	4	18	Ja 19	Ap 16	19	10	9	1	1	75,144		
12	Bookbinding and blank-book making.....	15	206	20	5	5	4	172	Ja 179	Je 161	177	84	81	3	4	395,879		
13	Boots and shoes.....	13	1,104	6	54	33	25	986	Oc 1,121	Ja 863	1,116	662	399	37	18	3,583,139		
14	Boxes, cigar.....	6	179	7	1	1	1	169	No 183	Ja 154	182	66	109	6	1	150,803		
15	Boxes, paper and other, not elsewhere specified.....	23	2,118	14	80	87	39	1,898			2,144	1,077	863	93	111	4,225,697		
16	Shipping containers.....	4	353	14	14	13	13	312	No 351	Fe 278	345	181	128	8	28	717,928		
17	Set-up paper boxes.....	13	409	11	19	5	9	365	No 405	Ja 312	404	98	254	11	41	456,878		
18	All other.....	6	1,356	3	47	68	17	1,221	Oc 1,723	Ap 898	1,395	798	481	74	42	3,050,801		
19	Boxes, wooden packing, except cigar boxes.....	39	2,131	29	92	29	9	1,972	Jy 2,157	Se 1,862	2,112	1,916	185	11	1	3,616,335		
20	Brass, bronze, and copper products.....	20	1,051	11	41	50	23	926	De 993	Mh 828	993	939	51	3	1	4,539,936		
21	Bread and other bakery products.....	424	3,400	446	84	381	108	2,381	De 2,547	Fe 2,238	2,499	1,896	584	17	2	7,044,668		
22	Brick and tile, terra-cotta, and fire-clay products.....	30	1,341	12	75	29	18	1,207			1,308	1,285	23	1	1	7,518,743		
23	Building brick.....	20	718	11	45	15	6	641	Au 819	Ja 373	740	740	1	1	1	5,235,618		
24	Fire brick.....	5	468	10	3	3	8	438	Ja 499	De 400	400	377	1	1	1	963,682		
25	All other.....	5	155	1	11	11	4	128	No 214	Ja 71	168	168	1	1	1	1,319,443		
26	Brooms.....	23	334	21	11	13	5	284	No 307	Ja 267	309	228	60	15	6	478,746		
27	Brushes.....	9	905	8	46	87	53	771	Ja 800	Se 735	800	610	158	24	8	2,787,581		
28	Butter.....	10	18	7	2	1	1	9	Je 11	Mh 8	10	9	1	1	1	72,460		
29	Canning and preserving, fish.....	23	251	42	1	1	1	208	Ap 466	Jy 102	554	448	96	4	6	136,325		
30	Canning and preserving, fruits and vegetables.....	406	8,785	597	310	147	86	7,645			25,092	9,261	15,310	227	204	20,760,946		
31	Canned vegetables.....	379	7,451	562	275	112	67	6,435	Se 24,307	Ja 1,024	23,178	8,779	14,003	214	182	18,282,047		
32	Canned fruits and dried fruits.....	27	1,334	35	35	35	19	1,210	Au 2,646	Fe 332	1,824	482	1,307	13	22	2,478,899		
33	Canning and preserving, oysters.....	5	61	1	5	2	6	47	De 117	Mh 10	110	78	32	1	1	72,417		
34	Carriages and wagons, including repairs.....	42	206	57	3	3	1	142			145	145	1	1	1	310,018		
35	Carriages and wagons.....	20	146	28	1	3	1	113	My 116	Oc 107	116	116	1	1	1	253,116		
36	Repair work only.....	22	60	29	2	1	1	29	Oc 31	Mh 25	29	29	1	1	1	56,902		
37	Cars and general shop construction and repairs by electric-railroad companies.....	6	965	17	16	5	1	927	Ja 1,062	De 875	893	826	67	1	1	1,222,232		
38	Cars and general shop construction and repairs by steam-railroad companies.....	17	8,842	236	187	56	8,363	Fe 8,803	Je 7,969		8,402	8,273	129	1	1	11,594,990		
39	Chemicals.....	8	950	30	92	31	797	No 975	Ja 651		784	773	11	1	1	7,890,204		
40	Cleansing and polishing preparations.....	7	27	6	4	7	2	8	Ja 10	Se 6	11	8	3	1	1	72,383		
41	Cloth, sponging and refinishing.....	4	53	5	3	2	1	42	De 44	Ja 40	44	44	1	1	1	83,772		
42	Clothing, men's.....	284	11,788	398	425	1,032	657	9,256			10,899	5,648	5,105	29	117	34,082,260		
43	Regular factories.....	144	10,056	232	420	1,030	652	7,722			9,146	4,607	4,305	27	117	33,795,998		
44	Men's and youths'.....	119	8,862	194	379	964	628	6,697	De 7,896	Ap 6,184	7,897	4,362	3,434	19	82	30,648,807		
45	Boys'.....	8	351	12	12	24	13	290	De 423	Ap 192	423	71	331	6	15	1,436,761		
46	All other.....	17	843	26	29	42	11	735	De 827	Ja 620	826	174	630	2	20	1,713,430		
47	Contract work.....	140	1,712	166	5	2	5	1,534			1,753	1,041	710	2	1	283,262		
48	Men's and youths'.....	123	1,495	143	4	1	1	1,346	De 1,476	Ja 1,285	1,469	987	480	2	1	219,377		
49	Boys'.....	10	91	13	1	1	1	78	De 82	Ja 74	98	50	48	1	1	21,313		
50	All other.....	7	126	10	1	1	4	110	De 177	My 34	186	4	182	1	1	42,572		
51	Clothing, men's, buttonholes.....	12	48	14	1	1	1	34	(*)	(*)	34	35	20	13	2	22,125		
52	Clothing, women's.....	125	3,492	166	119	279	106	2,822			3,224	631	2,574	3	16	6,011,205		
53	Regular factories.....	113	3,303	166	111	279	93	2,604			3,041	617	2,408	1	15	5,946,509		
54	Suits, skirts, and cloaks.....	51	741	75	19	68	18	561	Se 708	Ja 425	622	361	261	1	1	1,535,568		
55	Shirt waists and dresses, except house dresses.....	14	626	20	26	49	16	515	Oc 595	Ja 421	596	47	547	2	1	851,082		
56	Undergarments, petticoats, wrappers, and house dresses.....	6	194	7	10	17	7	153	Se 160	Ja 137	153	21	131	1	1	660,221		
57	All other.....	42	1,742	54	56	145	52	1,435	De 1,683	Fe 1,302	1,670	188	1,469	1	12	2,899,633		
58	Contract work.....	12	190	10	8	13	158	Se 169	No 138		183	14	166	2	1	64,696		
59	Coffee and spice, roasting and grinding.....	15	354	11	23	82	35	203	Au 217	Je 189	211	128	78	1	4	3,393,977		
60	Condensed milk.....	5	93	6	2	6	79	Jy 89	Mh 55		82	81	1	1	1	602,779		
61	Confectionery and ice cream.....	170	3,612	160	99	187	128	3,008			3,784	1,322	2,371	14	77	8,402,750		
62	Confectionery.....	86	2,936	95	67	159	94	2,521	No 3,334	Jy 1,937	3,315	888	2,337	13	77	6,285,070		
63	Ice cream.....	34	676	95	32	28	34	487	Jy 621	Ja 381	381	469	434	34	1	2,117,764		
64	Cooperage.....	29	225	33	10	4	5	173	No 201	Fe 148	204	203	1	1	1	759,150		
65	Copper, tin, and sheet-iron work.....	73	599	86	34	22	13	444	No 483	My 402	480	473	6	1	1	1,269,357		
66	Cotton goods.....	14	3,716	3	90	124	83	3,416	Fe 3,621	Je 3,310	3,440	1,743	1,658	24	15	10,441,008		
67	Cutlery and edge tools.....	4	18	5	1	1	1	12	(*)	(*)	12	12	1	1	1	21,162		

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."

MANUFACTURES—MARYLAND.

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

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.
20,943,430	21,060,577	147,866,545	8,150,474	2,753,829	21,248,188	527,096,308	21,651,071	873,944,774	324,597,395	406,768	149,756	27,350	65,493	9,007	155,162	158,780	1	
7,656	2,471	36,175	964	3,501	1,344	50,892	1,635	159,453	97,926	6	6	6	6	6	6	6	2	
1,800	364	5,008	.....	690	122	4,004	379	17,050	13,273	7	7	7	7	7	7	7	3
9,200	2,080	49,062	.....	2,365	1,135	87,006	2,859	169,994	79,169	148	148	148	55	55	93	93	4
49,102	55,902	278,635	2,871	10,355	10,998	425,208	12,515	1,034,364	596,641	422	422	422	69	69	353	353	5	
208,767	160,606	1,288,909	37,201	100,753	48,750	2,316,773	52,524	4,874,344	2,505,047	1,094	4	119	119	119	971	971	6	
64,540	11,065	78,662	1,098	10,967	6,805	365,313	2,480	611,491	243,698	40	40	40	40	40	40	40	7	
97,838	24,468	133,529	.....	8,416	58,231	2,721,757	4,132	3,132,886	406,997	177	65	65	65	65	112	112	8
31,478	41,216	163,471	.....	9,338	53,106	697,922	60,027	1,105,728	436,879	627	240	60	60	60	327	60	9
1,842	1,687	46,180	100	3,682	1,160	66,577	1,173	148,241	80,491	56	55	55	55	55	1	1	10	
14,839	8,209	11,685	.....	3,259	1,696	65,643	860	149,069	83,466	9	9	9	9	9	9	9	11
8,100	10,023	182,669	1,712	10,054	2,739	240,213	4,689	546,371	301,469	77	77	77	77	77	77	77	12	
190,007	74,961	793,700	2,698	24,349	103,422	3,085,084	21,949	4,662,351	1,555,318	582	70	45	45	45	500	500	13	
2,496	1,691	98,009	887	1,620	1,137	165,778	3,069	377,053	208,200	80	80	80	80	80	35	35	14	
281,153	152,285	1,430,144	0,810	34,109	112,565	3,332,264	73,477	6,234,094	2,828,353	2,099	665	92	92	92	1,342	26	15	
74,760	46,950	231,774	.....	7,993	19,731	687,957	15,024	1,226,094	523,113	268	60	20	20	20	208	18	16
37,805	16,972	211,411	0,810	17,070	4,508	324,032	7,248	819,928	488,048	244	20	24	24	24	200	200	17	
168,588	88,363	980,959	.....	9,046	88,320	2,320,275	50,605	4,187,472	1,816,592	1,587	585	68	68	68	934	8	18
303,324	61,953	1,344,552	5,229	39,658	80,601	3,632,852	16,491	6,503,613	2,854,470	6,549	5,615	250	20	20	664	1,075	19	
147,034	106,342	1,039,207	.....	17,365	73,533	2,816,346	179,767	5,057,084	2,061,571	7,302	200	25	25	25	7,137	.....	20
251,819	27,976	2,367,522	20,515	71,886	425,624	12,611,025	287,078	20,494,018	7,596,915	2,350	302	85	85	85	1,969	10	21	
171,034	45,789	1,090,219	329	2,011	55,272	986,971	425,506	3,207,465	2,094,928	6,147	4,547	.....	.....	.....	1,600	.....	22
90,338	15,366	573,896	.....	594	23,940	117,643	261,751	1,423,890	1,044,498	3,874	3,682	.....	.....	.....	192	10	23
38,605	9,130	375,130	329	.....	14,691	108,792	77,081	602,709	506,836	1,459	750	.....	.....	.....	739	.....	24
42,101	21,293	160,193	.....	1,417	10,641	460,530	86,734	1,090,866	543,595	784	115	.....	.....	.....	689	.....	25
57,390	19,828	185,042	30	1,716	4,622	610,034	7,732	854,702	236,930	110	10	.....	.....	.....	100	.....	26
164,177	184,767	500,010	51,149	9,000	104,398	1,807,251	26,598	3,508,919	1,615,070	808	471	.....	.....	.....	397	112	27
2,040	.....	10,548	55	1,701	1,355	100,855	4,377	205,745	34,513	122	115	.....	.....	.....	1	.....	28
718,857	936	73,623	2,000	1,701	1,534	253,143	3,927	411,489	154,419	213	107	.....	.....	.....	108	.....	29
.....	212,300	3,744,919	5,044	103,350	350,882	20,365,307	294,822	28,421,644	7,761,415	15,551	18,122	412	566	.....	1,451	040	30
542,103	152,777	2,984,885	4,969	60,699	271,766	15,838,486	229,058	21,822,943	5,755,399	13,834	11,780	412	555	.....	1,081	043	31
176,754	59,523	700,034	75	36,051	79,110	4,520,821	65,704	6,598,001	2,006,016	1,717	1,336	.....	.....	.....	370	3	32
15,405	13,023	28,034	7,597	4,575	1,085	300,448	1,015	640,206	338,743	27	25	.....	.....	.....	2	.....	33
4,920	3,530	163,118	515	4,774	0,642	171,766	7,783	454,963	270,414	209	.....	.....	.....	.....	173	.....	34
1,800	3,530	132,514	465	1,448	5,874	142,112	5,134	354,880	207,634	155	.....	.....	.....	.....	132	.....	35
3,120	.....	30,604	50	3,326	768	29,054	1,040	100,083	68,780	54	.....	.....	.....	.....	41	.....	36
44,788	19,131	1,170,062	.....	.....	17,224	630,822	7,045	1,904,353	1,257,786	591	.....	.....	.....	.....	591	.....	37
630,589	331,089	11,627,441	.....	.....	8,776	9,128,451	360,441	22,837,066	13,339,174	14,341	6,886	50	10	.....	7,395	5,606	38
204,211	152,122	1,060,437	.....	3,600	71,280	2,815,529	382,029	5,277,426	2,079,268	6,568	1,435	3,425	10	.....	1,698	3,439	39
0,725	10,251	0,110	9,103	1,844	1,148	30,326	360	65,727	35,041	19	.....	.....	.....	.....	19	.....	40
5,880	3,300	43,753	.....	2,050	493	3,175	0,591	119,939	110,173	115	110	.....	.....	.....	5	.....	41
1,455,172	2,888,209	10,646,100	5,404,300	405,223	433,274	30,849,753	159,300	60,414,498	20,405,385	2,457	1,265	.....	78	.....	1,114	126	42
1,443,005	2,885,504	8,842,411	5,380,799	377,041	430,705	30,819,916	129,613	58,028,322	27,078,793	2,122	1,265	.....	42	.....	815	126	43
1,842,777	2,746,218	8,258,821	5,072,970	349,385	410,520	26,537,511	109,187	51,872,351	25,228,653	1,464	800	.....	20	.....	584	66	44
15,400	81,841	206,968	102,597	14,702	2,047	1,240,925	5,068	1,902,823	655,943	86	.....	.....	.....	.....	86	.....	45
85,428	57,505	376,022	205,223	12,954	12,138	3,041,480	17,468	4,253,145	1,194,197	572	405	.....	22	.....	145	60	46
11,567	2,645	1,803,080	23,501	28,182	2,669	29,747	29,747	2,386,176	2,320,592	335	.....	.....	36	.....	299	.....	47
10,987	1,950	1,677,362	22,504	20,517	2,181	14,344	20,209	2,187,795	2,147,242	259	.....	.....	.....	.....	259	.....	48
.....	80,002	.....	997	1,665	164	2,478	1,436	122,322	118,408	20	.....	.....	.....	.....	20	.....	49
580	695	46,325	.....	224	13,015	2,102	70,059	60,042	56	56	.....	.....	.....	.....	56	.....	50
.....	43,008	3,000	1,647	315	18,460	1,652	92,175	77,063	15	15	.....	.....	.....	.....	15	.....	51
386,126	503,141	2,058,275	156,513	142,127	185,070	7,718,857	38,955	13,884,281	6,120,469	574	.....	.....	.....	.....	574	.....	52
383,835	500,597	1,903,020	154,744	139,234	160,216	7,435,932	37,034	13,374,795	5,901,829	542	.....	.....	.....	.....	542	.....	53
82,076	130,237	632,878	31,220	30,260	4,533	2,238,601	13,709	3,933,408	1,081,038	146	.....	.....	.....	.....	146	.....	54
77,249	81,257	313,960	4,183	24,038	1,507	1,046,347	3,803	1,870,705	820,582	90	.....	.....	.....	.....	90	.....	55
38,399	23,941	106,493	4,931	11,038	27,637	598,157	2,252	986,273	385,864	72	.....	.....	.....	.....	72	.....	56
215,611	265,162	939,689	114,401	67,298	126,479	3,552,827	17,147	6,584,319	3,014,345	234	.....	.....	.....	.....	234	.....	57
2,791	2,544	65,255	1,799	2,893	24,854	282,925	1,921	509,496	224,640	32	.....	.....	.....	.....	32	.....	58
142,400	227,720	160,393	.....	19,084	64,210	4,603,038	28,695	5,884,333	1,192,900	575	138	.....	.....	.....	437	.....	59
13,965	14,352	71,977	.....	13,336	1,240,251	35,313	1,684,148	302,584	302,584	272	270	.....	.....	.....	2	72	60
489,098	304,897	2,123,842	0,081	93,685	602,040	11,111,086	225,330	17,995,081	6,658,665	6,349	953	.....	277	.....	5,119	189	61
393,382	287,985	1,614,983	.....	81,667	478,636	8,612,869	121,469	13,840,402	5,070,064	4,100	800	.....	24	.....	3,276	172	62
75,716	76,912	508,859	6,081	12,018	24,004	2,468,217	103,861	4,154,679	1,582,601	2,249	153	.....	253	.....	1,843	17	63
15,253	7,120	166,348	500	8,900	4,123	595,241												

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

MANUFACTURES—MARYLAND.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										POWER.					
Salaries and wages.				Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹	

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	\$					8	1	
240,691	2,808	35,828	108	2,415	50	44,423	1,370	116,747	70,954	704	625				79	2	
49,598	640,878	461,614	4,723	20,256	298,938	3,340,882	20,995	6,406,804	3,044,927	188					188	3	
	15,810	144,003		7,696	30,707	152,150	4,757	522,865	365,958								
5,980	2,383	50,205		2,370	970	58,345	3,169	155,532	94,018	77			18		59	4	
	780	19,126		2,335	40	13,377	409	52,004	30,118	13					13	5	
	2,468	34,557	655	3,442	37	36,806	815	110,609	72,958	13					13	6	
80,562	18,579	96,650	8,293	1,034	6,064	308,192	4,877	631,376	318,307	211					6	7	
784,276	670,652	3,561,181	2,994	42,600	781,275	24,271,436	423,282	37,014,097	12,319,379	16,400	2,257	733	112		13,208	8	
2,425	27,938	25,284	1,723	4,899	802	197,450	480	338,244	140,305	20			6		14	9	
151,610	102,093	449,182	3,612	22,100	93,553	10,108,388	180,083	19,004,160	2,646,698	11,351	2,909	45	1,929	3,772	2,696	10	
219,273	93,707	359,117	10,575	19,410	80,653	6,783,080	101,100	9,141,109	2,256,029	1,707	412		166		1,129	11	
903,829	478,801	4,901,223	30,895	77,037	506,535	5,187,657	372,225	15,720,929	10,161,047	10,613	1,759	200	412		8,242	12	
57,471	17,046	270,792	7,000	4,844	7,818	228,745	6,207	902,727	457,685	309	55		44		210	13	
93,203	37,399	755,331	3,048	4,330	79,312	513,004	94,751	1,909,373	1,301,528	1,658	61				1,597	14	
508,907	237,817	2,222,054	21,247	54,107	300,038	2,028,395	130,450	8,062,332	5,033,481	4,228	733		316		3,179	15	
244,248	186,539	1,737,046	5,000	13,756	179,397	1,517,423	140,721	5,026,407	3,368,353	4,418	910	200	52		3,256	16	
6,143	11,562	146,270	425	14,405	3,439	406,798	3,400	738,314	328,107	18					18	17	
408,870	541,792	2,288,208	154,365	97,407	450,230	8,252,057	44,894	14,595,923	9,299,002	1,642	940		6		687	18	
56,763	80,752	104,347	1,081	11,194	6,759	849,493	2,302	1,308,951	517,216	26					26	19	
352,107	461,010	2,183,861	152,384	86,273	443,471	7,402,624	42,562	13,226,972	5,781,780	1,616	940		6		661	20	
239,052	252,854	1,546,638	59,680	56,381	71,188	2,610,404	80,088	6,827,690	3,837,198	3,358	1,985		37		1,336	21	
211,732	183,698	1,252,873	59,680	44,289	65,704	2,473,917	69,756	5,614,630	3,070,957	3,000	1,910		37		1,053	22	
27,320	69,156	293,765		12,092	5,464	436,487	10,332	1,213,060	766,241	358	75				283	23	
19,580	2,200	34,631		4,422	1,007	83,594	1,263	109,630	84,773	21					15	24	
170,311	596,023	1,272,374	2,574	1,363	482,558	580,524	2,268,793	6,447,980	3,589,093	2,831	1,291	1,499	26		172	25	
44,969	51,358	285,343	5,571	5,500	25,590	463,936	12,205	1,360,132	873,991	222			50		172	26	
170,716	131,098	1,643,239		690	172,210	656,500	382,249	4,031,841	2,993,092	1,848	275				1,573	27	
10,519	908	19,909		4,925	1,678	65,370	1,335	161,309	94,004	23					23	28	
9,938	2,070	22,381			1,006	121,279	8,800	241,024	110,945	164	162				2	29	
22,500	7,214	80,657		3,300	1,805	65,220	44,487	337,003	227,850	136			10		126	30	
	12,491	100,763	14,806	8,191	1,150	315,705	2,770	590,093	272,209	42					42	31	
237,513	223,710	1,029,845		40,502	211,808	1,930,507	44,473	4,719,150	2,744,110	1,186	800				386	32	
99,136	40,338	708,752		3,277	71,770	402,305	574,454	2,717,377	1,740,618	11,993	9,757	40	1,645	70	481	33	
16,430	5,959	30,480		7,215	476	57,486	1,761	143,538	84,291	43			12		31	34	
468,401	688,396	5,429,730		11,345	154,201	13,540,905	1,473,532	10,884,154	4,863,717	47,426	14,435	4,105	20,000		2,796	105,078	35
16,538	3,070	94,942	2,346	3,868	17,335	80,537	7,512	325,030	227,981	281	192				54	36	
19,704	11,776	128,332	3,478	9,329	0,413	271,807	2,074	644,304	270,473	56					40	37	
89,680	26,930	360,857	40,321	30,023	27,371	1,744,356	28,181	2,037,496	914,959	606	200				406	38	
11,820	17,562	63,848	1,145	2,870	604	153,228	1,381	339,837	185,228	28					8	39	
157,700	32,650	479,115		112,116	4,282,995	73,446	0,263,498	1,907,027	1,007,027	1,030	1,024				606	40	
37,156	16,985	263,424	450	3,372	17,580	372,942	178,394	1,049,205	497,920	2,111	844		168		1,090	41	
945,538	158,329	916,771	400		1,368,424	1,418,797	164,019	6,373,713	4,800,897	4,363	3,061				1,322	42	
97,910	141,426	615,200	12,939	11,242	80,961	1,237,337	27,280	3,123,735	1,859,118	3,061	300				387	43	
2,820	11,225	77,078		10,750	849	195,187	2,899	384,349	186,813	31					31	44	
135,620	53,415	1,481,229	184,203	13,554	37,995	1,028,501	9,974	4,023,627	2,985,052	11,595	10,646	166	160	30	593	45	
355,731	193,011	1,121,020	18,461	38,561	164,004	4,356,631	59,567	7,500,847	3,093,149	6,203	3,270		230		2,703	15	46
92,100	44,251	644,696	2,104	21,244	17,246	763,757	38,424	1,067,508	1,165,387	1,507	775		31		701	750	47
59,894	33,466	388,538	2,104	20,290	12,704	623,402	19,660	1,447,561	804,409	741	400				310	700	48
32,206	10,785	256,158		954	4,482	140,365	18,734	320,007	360,618	766	375				291	50	49
102,503	43,145	221,918	307	20,218	45,080	704,857	11,741	1,673,034	767,336	547	150	125			272	38	50
61,983	16,148	169,591	24,080	0,967	27,771	390,890	5,271	932,544	527,383	62			1		61		51
53,575	7,545	101,591	24,080	3,448	21,769	108,511	3,081	564,617	363,025	40					40		52
5,530	8,354	55,805		3,604	5,518	170,179	1,213	304,633	133,241	9			1		8		53
2,878	249	12,195		2,825	484	31,200	977	63,294	21,117	13					13		54
45,993	34,439	260,933	1,557	15,800	91,961	942,386	14,787	1,784,504	827,391	430	104		46		280		55
19,520	1,094	46,660		2,178	1,738	52,576	3,940	189,927	128,411	933	189		50	530	104		56
3,515				1,063	401	18,035	2,304	116,290	95,051	64			12		52		57
39,550	54,821	142,908		1,680	8,794	2,323,291	19,213	3,123,200	780,705	753	620				133		58
45,305	29,272	65,609		8,412	4,252	166,869	2,740	308,438	228,132	28					28		59
100,068	127,901	273,022		6,572	17,081	2,333,507	60,600	3,376,725	982,658	601	215		58		388		60
205,969	210,014	1,948,058		600	95,199	6,172,827	643,200	9,010,625	3,100,598	18,148	6,355	10,600	12	490	691	12,220	61
316,443	360,953	524,700	3,008	14,014	612,356	4,755,072	30,915	8,878,122	4,092,135	1,210	105		9		1,096		62
61,447	17,437	707,060		23,769	14,785	341,885	99,755	1,483,202	1,041,562	4,800	2,970	750	8		1,054	775	63
25,025	39,410	31,460		4,561	4,102	270,335	2,899	521,491	239,787	22					22		64
47,192	13,037	138,163	6,069	5,524	1,744	74,670	4,057	380,972	302,245	70					70		65

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—MARYLAND.

TABLE 32.—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	Pickles, preserves, and sauces.....	26	176	25	10	14	4	123				822	111	211			Dollars.		
2	Preserves.....	5	83	4	7	11	2	59	Je	237	Mh ²	34	230	51	179		724,105		
3	Pickles and sauces.....	21	93	21	3	3	2	64	Oc	101	My	42	92	60	32		424,803		
4	Pottery.....	4	272	3	10	4	3	246	De	258	Mh	228	265	189	53	19	299,302		
5	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	12	55	14				41	No ²	57	Fe ²	35	57	57		4	398,185		
6	Printing and publishing, book and job..	210	3,003	188	190	211	171	2,243	De	2,411	Ap ²	2,183	2,367	1,843	479	38	7	6,890,651	
7	Printing and publishing, newspapers and periodicals.	142	2,495	89	140	603	266	1,397					1,423	1,287	111	23	2	4,970,311	
8	Printing and publishing.....	10	1,607	10	48	466	152	931	Oc ²	949	Mh	914	951	904	30	17		3,064,498	
9	Printing, publishing, and job printing.	88	704	67	67	60	48	462	De	468	Ja	442	467	380	79	6	2	1,556,043	
10	Publishing without printing.....	44	184	12	25	77	66	4	De	5	No	3	5	3	2			349,770	
11	Regalia, and society badges and emblems.	5	67	4	4	2	5	52	Ap	61	Fe	45	54	33	17	1	3	85,129	
12	Saddlery and harness.....	26	220	26	5	30		159	Ap	174	Ja	124	158	143	15			758,605	
13	Sausage, not made in slaughtering and meat-packing establishments.	25	170	30	2	20	17	101	No	132	My	89	125	108	17			377,865	
14	Shipbuilding, steel.....	4	18,142		160	605	165	17,212	Ap	18,178	Au	16,127	16,357	16,356	1			32,778,735	
15	Shipbuilding, wooden, including boat building.	38	2,044	31	62	67	12	1,872					1,765	1,763		2		3,079,942	
16	New vessels.....	18	1,664	7	47	58	12	1,540	Ja ²	2,314	Au	1,142	1,407	1,406		1		2,284,171	
17	Repair work only.....	14	365	18	14	9		324	Jy	358	Fe	281	344	343		1		764,500	
18	Small boats.....	6	15	6	1			8	Je	14	Ja ²	3	14	14				31,211	
19	Shirts.....	47	2,791	52	93	85	75	2,486	De	3,357	Je	1,865	3,400	446	2,873	26	55	5,237,095	
20	Signs and advertising novelties.....	9	101	9	4	10	6	72	De	88	Mh	64	90	78	8	1	3	146,952	
21	Silk goods.....	6	869	2	21		7	839	De	981	Fe	768	978	316	602	37	23	1,145,185	
22	Silversmithing and silverware.....	4	93	2	6		1	84	Jy	103	Ja	61	83	83				766,213	
23	Slaughtering and meat packing.....	47	2,000	48	86	246	57	1,563	De	1,735	Fe	1,462	1,740	1,528	204	8		12,759,470	
24	Stamped and enameled ware, not elsewhere specified.	7	4,540	2	96	713	243	3,486	De	4,004	Ja	2,933	4,012	3,268	610	40	85	19,275,190	
25	Stereotyping and electrotyping.....	4	54		5	2	6	41	De	45	Oc	38	40	37		3		90,033	
26	Stoves and hot-air furnaces.....	6	388	1	17	29	12	329	Oc ²	344	Jy	281	343	343				1,325,908	
27	Structural ironwork, not made in steel works or rolling mills.	12	820	7	40	108	42	623	No	666	My	586	673	668	1	4		3,166,520	
28	Tinware, not elsewhere specified.....	28	4,668	17	104	218	96	4,233	Au	5,355	Ja	3,546	3,830	2,506	1,110	98	26	21,856,529	
29	Tobacco, cigars and cigarettes.....	146	2,874	169	71	57	29	2,548	Fe	2,855	Jy	2,092	2,993	741	2,251	1		6,328,509	
30	Tools, not elsewhere specified.....	3	29	5		2		22	Se	28	Oc	14	20	20				31,728	
31	Toys and games.....	10	449	4	25	14	11	395	No	480	Ja	278	435	160	211	43	21	589,000	
32	Trunks and valises.....	7	44	9				35	Au ²	42	Ja	13	42	24	18			48,814	
33	Umbrellas and canes.....	8	477	9	20	48	23	377	De	408	Mh	367	426	114	283	10	19	1,147,228	
34	Varnishes.....	3	12	5		2		5	(¹)	5	(¹)	5	5	5				44,066	
35	Vinegar and cider.....	5	14	4	1		1	8	No	11	Ja ²	7	13	11	2			135,414	
36	Window and door screens.....	3	39	2	4	2	4	27	Je ²	42	Ja ²	16	27	27				88,686	
37	Window shades and fixtures.....	4	71	3	5	19	11	33	Oc	40	Mh	27	38	16	17	5		296,062	
38	Wirework, not elsewhere specified.....	13	120	13	9	4	3	91	Ja	114	Oc	66	97	97				180,749	
39	Wooden goods, not elsewhere specified	4	62	8	1			53	Ja	65	Je	31	63	47	10			47,823	
40	Woolen goods.....	3	223	3	7	5	1	207	De	354	Je	25	354	268	86			1,984,388	
41	All other industries *	175	14,591	121	588	807	328	12,747										112,382,220	

* All other industries embrace—
Aeroplanes, seaplanes, and airships, and parts..... 1
Agricultural implements..... 2
Ammunition..... 1
Asbestos products, not including steam packing..... 1
Automobiles..... 1
Babbitt metal and solder..... 2
Bags, paper, exclusive of those made in paper mills..... 3
Belting, leather..... 2
Belting, woven..... 2
Bluing..... 1
Boot and shoe cut stock..... 1
Boot and shoe findings..... 2
Butter, reworking..... 1

Card cutting and designing..... 2
Carpets, rag..... 1
Carriage and wagon materials..... 1
Carriages and sleds, children's..... 3
Cars, steam-railroad, not including operations of railroad companies..... 1
Cement..... 2
Cheese..... 2
Cheewing gum..... 1
Cloaks..... 1
Coffins, burial cases, and undertakers' goods..... 3
Coke, not including gas-house coke..... 1
Cordage and twine..... 1
Cordials and flavoring sirups..... 6
Cork, cutting..... 1
Corsets..... 2

Cotton small wares..... 1
Dairymen's, poultrymen's, and apiarists' supplies..... 1
Drug grinding..... 1
Dyeing and finishing textiles, exclusive of that done in textile mills..... 3
Dyestuffs and extracts—natural..... 1
Enameling..... 1
Engines, steam, gas, and water..... 3
Envelopes..... 1
Ferroalloys..... 1
Foundry supplies..... 1
Furs, dressed..... 2
Galvanizing..... 2
Gloves and mittens, cloth, not including gloves made in textile mills..... 2
Gloves and mittens, leather..... 2

Glue, not elsewhere specified..... 1
Gold and silver, leaf and foil..... 1
Hand stamps..... 3
Hat and cap materials..... 1
Hats, fur-felt..... 3
House-furnishing goods, not elsewhere specified..... 3
Ink, printing..... 1
Iron and steel, blast furnaces..... 2
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills..... 1
Iron and steel, cast-iron pipe..... 2
Iron and steel, forgings, not made in steel works or rolling mills..... 3
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills..... 1

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]

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

MANUFACTURES—MARYLAND.

TABLE 32.—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	BALTIMORE—All industries.....	2,797	117,140	2,706	4,287	8,480	3,853	97,814	Ja 104,473	Ap 92,846	102,507	60,606	31,148	833	920	Dollars. 434,243,740
2	Artificial flowers.....	4	75	5	5	1	64	Mh 78	Ja 53	59	4	40	1	8		139,896
3	Artificial limbs.....	3	7	2	1	1	3	(3)	3	4	3	1				9,025
4	Artificial stone products.....	5	37	4	4	1	27	Se 55	Ja 11	32	32					131,972
5	Automobile bodies and parts.....	25	283	24	18	27	7	207	Se 217	Ja 198	212	208	4			589,174
6	Automobile repairing.....	111	1,150	111	84	92	49	814	Do 907	Ja 725	909	908		1		1,963,558
7	Awnings, tents, and sails.....	10	87	8	12	6	2	59	Ja 73	Fe 47	61	46	15			270,237
8	Bags, other than paper, not including bags made in textile mills.....	12	225	8	13	14	7	183	Au 197	My 164	187	70	107		1	804,821
9	Baskets, and rattan and willow ware.....	12	39	13		1	25	Au 27	Ja 23	25	25					31,157
10	Blacking, stains, and dressings.....	6	50	5	3	20	4	18	Ja 19	De 16	19	10				75,144
11	Boxes, paper and other, not elsewhere specified.....	20	2,060	12	77	86	38	1,853	Oc 2,415	Je 1,494	2,090	1,068	829	93	109	4,190,871
12	Boxes, wooden packing, except cigar boxes.....	22	1,365	12	60	13	5	1,275	Jy 1,438	Fe 1,187	1,324	1,181	134	9		2,371,648
13	Bread and other bakery products.....	335	2,902	345	70	375	94	2,018	No 2,147	Fe 1,907	2,103	1,545	550	6	2	6,654,750
14	Brick and tile, terra-cotta, and fire-clay products.....	7	493	1	29	19	6	443	Se 533	Ja 315	458	458				4,478,217
15	Brooms.....	16	267	14	10	12	5	226	No 239	Ja 213	235	156	58	15	6	418,230
16	Canning and preserving, fish.....	5	13	6				7	(3)	7	7	5	2			21,075
17	Canning and preserving, fruits and vegetables.....	35	2,641	48	89	69	39	2,390			4,190	1,243	2,941	9	3	5,404,879
18	Canned vegetables.....	25	1,748	38	70	37	26	1,577	Se 3,540	Ja 618	3,500	1,044	2,444	9	3	3,467,168
19	Canned fruits.....	10	833	10	19	32	13	810	Au 1,553	Fe 261	696	199	497			1,997,711
20	Carriages and wagons, including repairs.....	23	128	26	2	3		97			97	97				162,110
21	Carriages and wagons.....	6	80	5		3		72	My 75	De 70	72	72				114,723
22	Repair work only.....	17	48	21	2			25	Oc 27	Mh 21	25	25				47,387
23	Cars and general shop construction and repairs by steam-railroad companies.....	8	5,329	167	137	47	4,978	Fe 5,421	Je 4,800	4,928	4,832	96				6,292,565
24	Cleansing and polishing preparations.....	7	27	6	4	7	2	8	Ja 10	De 6	11	8	3			72,383
25	Cloth, sponging and refinishing.....	4	53	5	3	2	1	42	De 44	Ja 40	44	44				83,772
26	Clothing, men's.....	270	11,539	377	419	1,027	650	9,006			10,604	5,024	4,835	28	117	33,836,230
27	Regular factories.....	139	9,966	223	416	1,020	649	7,652	De 9,073	Ap 7,002	9,073	4,589	4,341	26	117	33,603,444
28	Contract work.....	131	1,573	154	3	1	1	1,414	De 1,522	Ja 1,359	1,531	1,035	494	2		2,632,786
29	Clothing, men's, buttonholes.....	12	48	14				34	Fe 37	De 30	35	20	13	2		22,125
30	Clothing, women's.....	119	3,248	162	116	276	92	2,602	Se 2,877	Ja 2,220	2,991	618	2,354	3	16	5,990,754
31	Coffee and spice, roasting and grinding.....	15	354	11	23	82	35	203	Au 217	Je 189	2,911	128	78	1	4	3,393,977
32	Confectionery and ice cream.....	103	3,363	108	92	184	117	2,862			3,597	1,167	2,340	13	77	7,846,332
33	Confectionery.....	76	2,891	78	67	159	93	2,494	No 3,299	Jy 1,916	3,272	869	2,313	13	77	6,207,925
34	Ice cream.....	27	472	30	25	25	24	368	Jy 451	Ja 310	325	298	27			1,638,407
35	Cooperage.....	21	191	25	8	3	4	151	No 184	Ap 130	180	179	1			707,244
36	Copper, tin, and sheet-iron work.....	59	513	65	33	19	10	386	No 423	Ja 344	418	415	2	1		1,003,787
37	Cotton goods.....	7	2,602	2	71	103	77	2,349	Fe 2,567	Je 2,217	2,321	1,147	1,151	19	4	12,091,901
38	Cutlery and edge tools.....	4	18	5	1			12	(3)	12	12	12				21,162
39	Dental goods.....	6	52	8			3	41	No 45	Ja 38	42	32	2	8		23,570
40	Druggists' preparations and perfumery and cosmetics.....	18	1,293	14	82	303	146	748	No 814	Au 689	760	199	552	3	6	4,617,548
41	Electrical machinery, apparatus, and supplies.....	13	177	8	16	8	8	137	De 143	Ja 134	144	129	15			238,919
42	Electroplating.....	6	56	8	2		3	43	De 48	Ja 38	48	47		1		73,321
43	Engraving and diesinking.....	10	25	10		1		14	Au 18	Fe 11	16	14	1	1		21,810
44	Engraving, steel and copper plate, including plate printing.....	12	53	13		1	2	37	My 42	Au 31	38	27	5	4	2	33,033
45	Fancy articles, not elsewhere specified.....	5	280	3	26	7	3	241	Au 288	Ja 144	240	71	152	12	5	481,953
46	Fertilizers.....	19	3,303	5	163	366	100	2,660	Ap 3,140	No 2,275	2,683	2,651	32			29,675,428
47	Food preparations, not elsewhere specified.....	28	450	19	41	40	32	318	De 402	Se 249	300	307	89		3	2,758,383
48	Foundry and machine-shop products.....	85	3,538	58	169	148	63	3,100			3,205	2,916	287	2		10,635,497
49	Boiler shops and foundries.....	12	654	5	32	25	5	587	De 597	Ja 549	654	646	8			1,031,334
50	Machine shops.....	69	1,065	53	116	108	40	1,348	De 1,594	Fe 1,136	1,500	1,309	279	2		4,230,359
51	Machine shop and foundry combined.....	4	1,219		21	15	18	1,165	Ja 2,261	Oc 893	961	961				5,307,804
52	Fur goods.....	21	123	21	5	5	11	81	De 112	Ap 57	111	47	64			318,717
53	Furnishing goods, men's.....	22	4,868	24	127	212	105	3,900			4,043	426	3,377	30	210	9,271,214
54	Neckwear.....	12	244	17	20	46	8	144	Oc 165	Fe 117	165	40	124	1		653,215
55	All other.....	10	4,124	7	98	166	97	3,756	Ja 3,925	Se 3,002	3,878	386	3,253	29	210	8,617,999
56	Furniture.....	37	1,379	50	56	129	39	1,105	Oc 1,223	Ja 937	1,188	1,115	42	31		4,313,401
57	Gas and electric fixtures.....	4	45	2	6	2		35	Je 38	De 32	32	21	11			98,710
58	Gas machines and gas and water meters.....	4	313		14	26	18	255	No 281	Ja 217	278	247	30	1		1,055,759
59	Glass.....	5	1,375	6	32	55	16	1,266	Fe 1,435	Au 673	1,330	1,143	170	13	4	1,743,643
60	Hardware.....	6	97	6	9	5		77	Jy 84	Au 72	84	83	1			245,959
61	Hats and caps, other than felt, straw, and wool.....	24	150	35		13	4	98	No 111	My 88	118	80	38			215,446
62	Hats, straw.....	7	1,526	2	39	68	32	1,385	Mh 1,460	Jy 1,236	1,491	524	951	3	13	4,265,510
63	Ice, manufactured.....	19	497	7	22	24	2	442	Au 594	De 313	540	540				3,710,454
64	Instruments, professional and scientific.....	4	56	1	9	3	1	42	Ja 61	Je 34	42	36	6			130,650
65	Jewelry.....	21	132	22	7	5	7	91	No 96	Oc 82	98	87	8	3		403,989
66	Lithographing.....	6	664	11	22	62	27	542	De 573	Mh 507	576	517	52	6	1	3,692,162
67	Looking-glass and picture frames.....	12	102	13	2	9		73	De 88	Ja 65	88	77	7	4		157,262

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—MARYLAND.

29

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.

Dollars. 16,792,327	Dollars. 17,222,146	Dollars. 103,129,090	Dollars. 7,683,625	Dollars. 2,473,418	Dollars. 18,551,726	Dollars. 416,302,170	Dollars. 11,363,634	Dollars. 677,878,492	Dollars. 250,122,688	184,885	65,003	5,173	4,530	174	100,990	18,392	1
7,658	2,471	36,175	904	3,561	1,344	50,892	1,635	159,453	97,928	6							2
1,600	364	5,008		1,009	122	17,004	379	17,650	13,273	7							3
6,600	2,080	28,508		1,810	733	54,392	1,630	101,001	45,639	84							4
44,880	54,812	249,878	2,871	14,430	10,148	378,996	10,604	928,800	539,209	334			20				5
186,170	106,748	983,161	34,640	86,545	31,704	1,482,703	33,173	3,361,452	1,836,576	757			13				6
64,640	11,065	74,487	1,098	10,661	6,563	333,251	2,181	507,506	232,074	26							7
67,838	24,458	133,529		8,416	58,231	2,721,757	4,132	3,132,886	406,907	177	65						8
	1,200	22,891		3,506	863	45,651	387	96,620	50,582	1							9
14,830	8,209	11,685		3,259	1,606	65,043	880	149,069	83,406	9							10
274,903	149,160	1,412,795	6,810	33,440	112,130	3,298,280	72,300	6,166,873	2,786,197	1,931	665		92		1,174	117	11
213,161	24,011	887,601	1,644	37,106	45,358	2,397,016	9,066	3,850,830	1,444,748	4,405	3,868	250			287	1,075	12
225,398	704,187	2,044,226	6,471	60,253	416,410	10,590,314	233,471	17,599,524	6,766,739	1,890	287		20		1,577		13
95,316	30,332	477,541		180	30,257	531,771	216,730	1,874,007	1,125,509	540	150				399	10	14
50,896	19,658	163,619	30	1,191	4,300	542,280	5,934	747,010	198,796	84					84		15
403,868	137,175	5,704	606	46	308	32,038	628	51,312	18,646								16
		1,610,974		78,780	147,575	8,087,320	115,304	11,077,988	3,475,304	3,477	2,554		122		801	20	17
243,883	82,476	980,422	606	42,502	69,985	4,210,046	62,036	5,960,043	1,687,061	2,448	1,875		122		451	17	18
169,985	64,699	630,552		36,218	77,500	3,877,274	53,328	6,717,045	1,787,343	1,029	679				350	3	19
3,120	2,810	111,328	50	2,670	5,705	94,393	4,668	284,360	185,290	133			10		123		20
	2,810	85,234		144	5,009	71,390	3,384	202,056	127,270	90					90		21
3,120		26,094	50	2,526	606	22,997	1,284	82,304	58,023	43			10		33		22
452,706	243,327	6,202,829		4,695	0,782,374	223,601		14,420,844	7,414,800	10,284	3,439	50			6,705	650	23
6,725	10,251	6,110	9,163	1,844	1,148	30,326	360	65,727	35,041	19					19		24
5,880	3,300	43,753		2,960	493	3,175	6,591	119,939	110,173	115	110				5		25
1,443,823	2,875,967	10,580,515	5,355,794	401,543	431,862	30,521,010	155,080	59,838,256	29,101,260	2,355	1,205		36		1,064	126	26
1,433,703	2,874,017	8,820,692	5,332,293	373,505	429,524	30,604,604	128,627	57,536,009	26,902,718	2,101	1,205		36		800	126	27
10,120	1,950	1,753,823	23,601	28,038	2,338	16,340	27,359	2,302,247	2,258,542	254					254		28
		43,008	3,000	1,647	315	13,460	1,652	92,175	77,063	15					15		29
378,050	499,749	1,893,390	150,513	139,787	160,374	7,287,192	35,634	13,001,400	5,738,574	547					547		30
142,400	227,720	160,393		19,084	64,210	4,603,038	28,605	5,884,333	1,102,600	575	138				437		31
427,740	355,218	1,094,011	3,739	85,420	497,496	10,485,732	195,347	16,967,106	6,286,027	5,611	836		57		4,718	1,722	32
363,382	287,725	1,698,787		78,181	477,306	8,579,771	119,990	13,726,268	5,026,501	4,069	800		24		3,245	1,722	33
64,358	67,493	395,224	3,739	7,239	20,130	1,005,061	75,351	3,240,838	1,250,520	1,542	36		33		1,473		34
16,610	6,510	148,812	500	8,360	3,871	513,533	1,407	1,295,051	780,111	129	114				15		35
94,965	44,932	605,538	960	17,787	26,155	807,832	14,007	1,842,264	1,020,425	001					495		36
243,660	198,261	2,098,026	3,934	23,720	311,385	7,731,010	246,813	12,849,731	4,871,008	10,818	3,036			50	7,732		37
1,756		14,506		749	596	30,411	1,229	36,228	30,411	30	8		12		10	12	38
	2,808	35,828		2,415	50	44,423	1,370	116,747	70,954	28					28		39
262,287	672,871	486,741	108	24,274	302,182	3,557,079	22,837	6,819,607	3,238,851	1,080	625				455	75	40
49,698	15,810	144,903	4,723	7,000	30,707	152,150	4,757	522,805	365,958	188					188		41
5,980	2,383	50,205		2,370	976	58,345	3,169	155,532	94,018	77			18		59		42
	780	19,126		2,335	40	13,877	409	52,094	39,118	13					13		43
	2,408	34,557	655	3,442	37	36,896	815	110,069	72,958	13					13		44
60,502	18,579	96,650	8,293	1,934	6,664	308,192	4,877	631,370	318,307	211	200		5		6	72	45
657,704	594,277	3,089,256	2,659	40,016	695,293	20,807,535	386,366	32,202,525	11,098,624	15,897	2,984	733			12,152	1,382	46
217,973	87,680	813,195	10,675	19,122	70,685	6,001,658	96,477	8,845,796	2,147,651	1,576	352		154		1,070	260	47
591,963	296,817	3,024,426	31,895	67,687	289,747	3,125,254	292,513	10,875,321	7,457,554	7,745	1,180	200	276		6,083	252	48
137,861	42,393	821,354	10,048	8,034	70,194	568,734	72,374	2,031,342	1,390,234	1,164	55		42		1,067		49
330,826	132,594	1,696,557	21,247	46,397	82,281	1,428,091	96,071	4,842,018	3,316,356	2,711	331		234		2,145	27	50
123,276	121,830	1,400,515		13,250	131,272	1,127,520	123,468	4,001,961	2,750,004	3,870	800	200			2,570	225	51
6,143	11,562	140,270	425	14,405	3,430	406,798	3,409	738,314	328,107	18					18		52
383,277	538,307	2,202,074	154,365	97,202	441,541	7,834,603	42,576	13,961,385	6,084,206	1,599	937				662	270	53
60,703	80,752	104,347	1,981	11,104	0,750	849,433	2,302	1,398,951	517,216	26					26		54
326,614	457,555	2,097,727	152,384	80,008	434,782	6,985,170	40,274	12,592,434	5,595,090	1,573	937				636	270	55
189,895	233,534	1,131,083	10,430	51,378	55,158	2,245,424	52,352	5,157,784	2,890,008	1,826	980			35	811	38	56
19,580	2,200	34,631		4,422	1,007	83,594	1,263	169,630	84,773	21				6	15		57
44,909	51,358	285,343	5,571	5,500	26,560	463,936	12,205	1,350,132	873,901	222				60	172		58
142,353	126,350	1,221,458		360	169,446	548,802	312,892	3,354,101	2,492,407	1,547	225				1,322	20	59
22,500	7,214	80,657		3,300	1,805	65,220	44,457	337,063	227,356	548			10		126		60
	12,491	100,763	14,806	8,191	1,159	315,705	2,770	590,693	272,209	42					42		61
237,513	223,710	1,029,845		40,502	211,808	1,930,597	44,473	4,719,150	2,744,110	1,186	800				386	472	62
70,858	31,957	535,795		3,037	54,029	190,669	402,105	1,903,300	1,310,526	8,391	7,210	40	765		376	911	63
16,430	5,959	36,480		7,215	476	57,480	1,761	143,538	84,291	43			12		31		64
19,704	11,776	128,332	3,478	9,320	0,413	271,807	2,074	544,304	270,423	56			16		40		65
97,910	141,426	615,209	12,630	11,242	80,991	1,237,337	27										

MANUFACTURES—MARYLAND.

TABLE 32.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Num-ber of estab-lish-ments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Pro-pri-ets 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.

BALTIMORE—Continued.																	Dollars.
1	Lumber, planing-mill products, not including planing mills connected with sawmills.	31	952	24	53	81	22	772	No	842	Ja	699	850	788	52	10	3,098,134
2	Marble and stone work.	44	510	41	27	25	8	409	De	294	Ja	222	475	471	4	.....	1,118,333
3	Monuments and tombstones.	36	343	36	17	20	7	263	De	181	Ja	89	294	290	4	.....	887,194
4	All other.	8	167	5	10	5	1	140	De	181	Ja	89	181	181	.....	.....	231,139
5	Millinery and lace goods, not elsewhere specified.	22	322	25	17	6	19	255	.....	.....	.....	.....	279	83	192	2	597,604
6	Embroideries.	7	184	3	11	3	7	161	De	170	Ja	153	170	62	107	1	434,535
7	Trimmed hats and hat frames.	9	107	14	3	2	11	76	Au	118	Je	58	83	16	64	1	116,518
8	Dress and cloak trimmings.	6	31	8	3	1	1	18	De	30	My	13	26	5	21	.....	46,551
9	Mineral and soda waters.	26	226	24	21	20	9	152	Je	190	Ja	126	158	148	8	2	558,757
10	Models and patterns, not including paper patterns.	9	49	9	2	.....	.....	38	De	44	Jy	31	36	36	.....	.....	101,264
11	Oil, not elsewhere specified.	6	178	5	13	32	8	118	De	141	Ja	77	141	138	3	.....	1,157,743
12	Patent medicines and compounds.	49	1,031	35	71	145	95	685	Oc	722	Fe	650	713	307	369	14	5,112,958
13	Paving materials.	5	278	2	10	3	1	262	My	453	Fe	88	180	180	.....	.....	258,413
14	Photo-engraving.	6	117	.....	13	13	5	86	De	111	Ja	46	111	104	1	6	234,226
15	Pickles, preserves, and sauces.	22	126	21	6	9	3	87	Se	100	Ap	75	85	57	28	.....	573,975
16	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	12	55	14	.....	.....	.....	41	De	57	Fe	35	57	57	.....	.....	120,354
17	Printing and publishing, book and job.	180	2,810	152	177	206	161	2,114	De	2,263	My	2,060	2,219	1,774	410	32	6,540,817
18	Printing and publishing, newspapers and periodicals.	54	1,996	19	82	554	235	1,106	.....	.....	.....	.....	1,123	1,029	73	19	3,786,553
19	Printing and publishing.	3	1,589	5	46	466	152	920	De	939	Mh	902	939	893	29	17	3,029,276
20	Printing, publishing, and job printing.	14	231	7	12	12	17	183	Jy	190	Ja	171	180	134	42	2	413,487
21	Publishing without printing.	37	178	7	24	76	66	3	Jy	6	Fe	2	4	2	2	.....	343,790
22	Regalia, and society badges and emblems.	5	67	4	4	2	5	52	Ap	61	Fe	45	54	33	17	1	85,129
23	Saddlery and harness.	12	193	12	5	30	.....	146	Ap	101	Ja	112	144	129	15	.....	680,784
24	Sausage, not made in slaughtering and meat-packing establishments.	21	156	25	2	20	17	92	No	116	My	84	110	93	17	.....	357,515
25	Shipbuilding, wooden.	16	1,300	14	45	51	6	1,244	.....	.....	.....	.....	1,180	1,179	.....	1	2,093,835
26	New vessels.	7	1,051	2	32	44	6	967	Fe	1,492	Fe	732	881	880	.....	1	1,487,349
27	Repair work only.	9	309	12	13	7	.....	277	De	302	Fe	246	299	299	.....	.....	606,496
28	Shirts.	13	1,911	20	63	76	71	1,681	De	2,389	Ap	1,123	2,400	381	1,938	26	4,593,790
29	Silversmithing and silverware.	4	93	2	6	.....	.....	84	Jy	103	Ja	61	83	83	.....	.....	760,213
30	Slaughtering and meat packing.	42	1,932	42	79	238	56	1,517	De	1,685	Fe	1,412	1,090	1,453	203	4	12,465,099
31	Stamped and enameled ware, not elsewhere specified.	7	4,840	2	96	713	243	3,486	De	4,004	Ja	2,933	4,012	3,268	619	40	19,275,190
32	Stereotyping and electrotyping.	4	54	.....	5	2	6	41	De	45	Oc	38	40	37	.....	3	90,033
33	Structural ironwork, not made in steel works or rolling mills.	12	820	7	40	108	42	623	No	666	My	586	673	668	1	4	3,160,520
34	Tinware, not elsewhere specified.	25	4,591	11	101	217	96	4,160	Au	5,265	Ja	3,477	3,785	2,552	1,109	08	21,585,141
35	Tobacco, cigars and cigarettes.	121	2,557	136	63	48	28	2,282	Fe	2,624	Jy	1,842	2,637	560	2,077	.....	5,989,270
36	Trunks and valises.	7	41	9	.....	.....	.....	35	No	3	Ja	13	42	24	18	.....	48,814
37	Umbrellas and canes.	8	477	9	20	48	23	377	De	408	Mh	367	426	114	283	10	1,147,228
38	Varnishes.	3	12	5	2	.....	.....	5	()	5	()	5	5	5	.....	.....	44,966
39	Window and door screens.	3	39	2	4	2	4	27	Jy	42	Ja	16	27	27	.....	.....	88,686
40	Window shades and fixtures.	4	71	3	5	19	11	33	Oc	40	Mh	27	38	10	17	5	266,062
41	All other industries*.	345	30,403	262	994	1,739	754	26,654	.....	.....	.....	.....	23,761	21,184	2,233	111	160,955,502

* All other industries embrace—
Aeroplanes, seaplanes, and airships, and parts. 1
Ammunition. 1
Babbitt metal and solder. 2
Bags, paper, exclusive of those made in paper mills. 3
Baking powders and yeast. 5
Belting, leather. 2
Belting, woven. 2
Bluing. 1
Bookbinding and blank-book making. 12
Boot and shoe cut stock. 1
Boot and shoe findings. 2
Boots and shoes. 10
Boxes, cigar. 4
Brass, bronze, and copper products. 19
Brushes. 7
Butter. 1
Canning and preserving, oysters. 4
Card cutting and designing. 2

Carpets, rag. 1
Carriage and wagon materials. 1
Carriages and sleds, children's. 3
Cars and general shop construction and repairs by electric-railroad companies. 1
Cars, steam-railroad, not including operations of railroad companies. 1
Chemicals. 6
Chewing gum. 1
Clocks. 1
Coffins, burialcases, and undertakers' goods. 3
Cordage and twine. 1
Cordials and flavoring sirups. 6
Cork, cutting. 1
Corsets. 2
Cotton small wares. 1
Dairymen's, poultrymen's, and apiarists' supplies. 1
Drug grinding. 1

Dyeing and finishing textiles, exclusive of that done in textile mills. 1
Dyestuffs and extracts—natural. 1
Enameling. 1
Engines, steam, gas, and water. 3
Envelopes. 1
Ferrolloys. 1
Flavoring extracts. 15
Flour-mill and gristmill products. 1
Foundry supplies. 1
Furs, dressed. 2
Galvanizing. 2
Gas, illuminating and heating. 2
Glass, cutting, staining, and ornamenting. 4
Gloves and mittens, cloth, not including gloves made in textile mills. 2
Gloves and mittens, leather. 1
Glue, not elsewhere specified. 1
Gold and silver, leaf and foil. 1

Grease and tallow, not including lubricating greases. 3
Hand stamps. 3
Hat and cap materials. 1
Hats, fur-fet. 3
House-furnishing goods, not elsewhere specified. 3
Inf, printing. 1
Iron and steel, steel works and rolling mills. 1
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. 1
Iron and steel, cast-iron pipe. 2
Iron and steel, forgings, not made in steel works or rolling mills. 3
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills. 1
Iron and steel, welding. 11
Japanning. 2

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

1	ANNAPOLIS.	15	143	14	15	14	5	95	Ap	125	Ja	77	123	86	36	1	503,914
2	CUMBERLAND.	82	4,128	70	155	101	49	3,753	Oc	4,111	Fe	3,321	4,046	3,417	552	53	10,281,982
3	FREDERICK.	77	1,599	82	93	81	35	1,308	Se	1,761	My	1,172	1,627	1,219	406	2	4,497,765
4	HAGERSTOWN.	122	4,598	107	206	160	96	4,029	No	4,301	Ap	3,765	4,303	3,338	899	37	13,968,019

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.						
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. 192,859	Dollars. 127,089	Dollars. 770,831	Dollars. 18,461	Dollars. 31,110	Dollars. 107,865	Dollars. 509,576	Dollars. 32,210	Dollars. 4,510,442	Dollars. 1,017,650	3,674	2,040	120	1,514	15	1	
79,625	41,026	515,095	664	18,717	10,629	588,820	24,416	1,531,809	918,573	1,019	595	17	407	750	2	
57,994	32,266	333,843	664	17,763	9,335	457,337	10,137	1,133,093	659,619	605	400	17	188	700	3	
21,631	8,760	131,252		1,294	1,294	131,483	8,279	398,716	258,954	414	195		219	50	4	
61,983	16,148	169,591	24,086	9,967	27,771	399,890	5,271	932,544	527,383	62		1	61		5	
53,575	7,545	101,591	24,080	3,448	21,769	198,511	3,081	564,617	363,025	40			40		6	
5,530	8,354	55,805		3,694	5,518	170,179	1,213	304,633	133,241	9		1	8		7	
2,878	249	12,195		2,825	484	31,200	977	63,294	31,117	13			13		8	
37,893	28,775	152,957	1,407	12,020	67,889	630,078	9,852	1,233,485	593,555	287	80	21	186		9	
3,515		61,993		1,663	401	18,935	2,304	110,290	95,051	64		12	52		10	
39,550	54,821	142,900		1,680	8,794	2,323,291	19,213	3,123,209	780,705	753	620		133		11	
314,793	360,953	514,710	2,968	13,619	611,544	4,636,428	29,912	8,616,675	3,950,335	1,189	105	9	1,075		12	
26,475	5,377	309,239		6,380	4,051	157,731	20,872	717,296	358,693	1,137	637	28	472	30	13	
47,192	13,037	138,163	6,069	5,524	1,744	74,670	4,067	389,972	302,245	70			407		14	
42,700	14,292	71,185	307	3,965	98,085	511,619	6,741	796,201	277,811	67	4	10	53		15	
		58,097		2,673	1,120	1,005,810	3,034	1,139,456	130,611	27	17		10		16	
681,401	427,927	2,404,450	517,154	135,825	237,075	3,824,888	86,685	10,333,510	6,421,937	2,346	571	115	1,660	836	17	
307,281	1,039,537	1,342,121	331,713	82,834	72,699	3,127,423	46,345	8,282,313	5,108,545	1,853		200	1,049		18	
231,295	743,984	1,133,012		87,846	59,165	2,901,675	38,237	6,725,732	3,785,820	1,712		200	1,512		19	
55,829	30,570	207,259	10,338	10,365	3,967	144,210	8,058	537,454	385,186	141		4	137		20	
130,157	264,983	1,850	321,375	4,623	9,567	81,538	50	1,019,127	937,539				13		21	
9,300	4,963	36,141	312	2,733	1,295	48,842	1,624	136,763	85,297	13					22	
27,760	26,021	146,783		4,617	11,059	470,082	5,223	797,896	315,961	135	100	10	25		23	
4,160	38,113	98,992		5,986	1,779	1,302,700	10,843	1,724,833	345,200	559	106	12	441		24	
152,798	56,106	1,800,426		46,091	47,723	1,422,957	36,681	4,011,896	2,552,228	3,247	235	150	2,770		25	
128,344	43,883	1,420,421		41,375	43,350	1,205,840	28,222	3,244,376	2,010,314	2,399	35	150	2,156		26	
21,454	12,223	380,005		5,310	4,373	217,117	8,459	767,490	541,014	848	200	28	620		27	
278,981	183,673	1,297,547	412,370	62,680	114,233	7,190,904	33,268	10,566,819	3,333,647			28	561		28	
41,760	780	102,372	4,068	5,850	2,104	214,210	4,441	420,502	201,845	126	20	75	31	95	29	
386,843	417,877	1,024,113	2,376	21,099	281,028	32,334,624	341,318	40,479,781	7,803,839	5,000	3,074	450	1,476	1,159	30	
286,513	950,889	3,341,409	300,000	7,813	388,571	6,465,037	255,726	13,076,233	6,354,470	7,137	1,601	260	5,216	20	31	
20,400	6,520	51,412		3,131	1,529	57,436	3,860	172,398	111,102	98		14	84		32	
131,350	195,051	801,934	6,305	5,959	76,210	1,761,434	32,209	3,808,486	2,014,843	1,361	345	67	959	639	33	
415,726	385,200	3,554,598	40,000	84,677	353,030	18,246,294	159,597	24,959,506	6,553,735	3,441	640	63	2,738	267	34	
110,268	109,036	1,732,827	23	60,097	813,209	3,201,313	19,382	7,458,851	4,238,156	441	180		261	107	35	
		23,913		4,027	93	60,424	663	112,316	51,220	8			8		36	
106,525	155,832	219,024		16,816	9,952	1,797,516	5,751	2,739,891	926,624	47			47		37	
	2,810	5,304		1,237	1,168	58,212	1,088	89,395	39,095	50			50		38	
10,882	6,751	33,935		1,900	991	31,535	1,133	107,958	75,290	275	100		75		39	
21,290	29,536	26,885		3,912	9,840	494,417	813	642,070	140,840	5			5		40	
4,901,440	3,646,493	33,539,039	165,627	320,202	10,324,465	171,166,538	6,763,003	250,743,358	72,813,817	62,203	21,539	2,765	2,049	35,826	6,261	41

Jewelry and instrument cases.....	1	Musical instruments and materials, not elsewhere specified.....	1	Pottery, china.....	1	Steam fittings and steam and hot-water heating apparatus.....	2
Leather goods.....	1	Musical instruments, organs.....	1	Printing and publishing, music.....	1	Stencils and brands.....	2
Lead, bar, pipe, and sheet.....	1	Musical instruments, pianos.....	3	Printing materials.....	3	Stoves and hot-air furnaces.....	4
Leather goods, not elsewhere specified.....	8	Musical instruments, piano and organ materials.....	1	Pumps, steam and other power.....	1	Stoves, gas and oil.....	2
Leather, tanned, curried, and finished.....	1	Needles, pins, and hooks and eyes.....	1	Refrigerators.....	1	Sulphuric, nitric, and mixed acids.....	1
Lime.....	2	Nets and seines.....	2	Roofing materials.....	3	Surgical appliances.....	2
Liquors, distilled.....	1	Okum.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	2	Suspenders, garters, and elastic woven goods.....	2
Liquors, malt.....	6	Oleomargarine and other butter substitutes.....	2	Safes and vaults.....	1	Textile machinery and parts.....	1
Lubricating greases.....	1	Optical goods.....	5	Saws.....	2	Tobacco, smoking.....	1
Lumber and timber products.....	1	Paints.....	13	Shipbuilding, steel.....	2	Tools, not elsewhere specified.....	2
Machine tools.....	1	Paper and wood pulp.....	1	Show cases.....	8	Toys and games.....	9
Matresses and spring beds, not elsewhere specified.....	18	Paper goods, not elsewhere specified.....	2	Signs and advertising novelties.....	1	Vinegar.....	1
Minerals and earths, ground or otherwise treated.....	1	Pens, fountain and stylographic.....	1	Smelting and refining, copper.....	1	Washing machines and clothes wringers.....	1
Mirrors, framed and unframed, not elsewhere specified.....	1	Petroleum, refining.....	4	Soap.....	1	Wirework, not elsewhere specified.....	11
Mucilage, paste, and other adhesives, not elsewhere specified.....	1	Photographic apparatus.....	1	Soda-water apparatus.....	2	Wood, turned and carved.....	2
		Plated ware.....	1	Springs, steel, automobile, not made in steel works or rolling mills.....	2	Wooden goods, not elsewhere specified.....	1
		Plumbers' supplies, not elsewhere specified.....	1	Staffonery goods, not elsewhere specified.....	1		
				Statuary and art goods.....	2		

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

15,070	6,844	90,073	1,025	4,656	4,012	144,541	38,840	369,114	185,727	151	70			81	9	1
522,533	190,021	4,723,065	708	35,318	399,270	7,813,943	478,386	15,842,210	7,549,881	10,317	7,216		65	3,036	1,077	2
135,242	139,495	950,507	20,203	14,167	103,278	4,739,507	143,130	7,141,204	2,258,507	3,204	1,589		20	1,555	1	3
530,584	286,035	4,109,042	48,130	33,412	222,620	10,094,055	307,367	17,602,575	7,261,153	9,532	4,129	110	2	5,228	4,388	4

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

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

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WASHINGTON
GOVERNMENT PRINTING OFFICE
1922

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 bulletin 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 comparison 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.

MASSACHUSETTS.

GENERAL STATISTICS.

General character of the state.—Massachusetts has a gross area of 8,266 square miles, of which 8,039 represent land surface. The inhabitants of the state in 1900 numbered 2,805,346; in 1910, 3,366,416; and in 1920, 3,852,356. In total population Massachusetts ranked sixth among the states in 1920. The number of inhabitants per square mile in 1910 was 418.8, the corresponding figure for 1920 being 479.2.

In 1920 there were 66 cities in the state having more than 10,000 inhabitants. (See Table 6.) The combined population of these 66 cities in that year was 3,144,077, which formed 81.6 per cent of the total for Massachusetts. In 1919 these cities reported 86.3 per cent of the value of the state's manufactured products.

Importance and growth of manufactures (Table 1).—The increases in wages, cost of materials, and value of products, from 1914 to 1919, as presented in Table 1, are in a great measure due to the changes in industrial conditions brought about by the World War. The addition of the Federal income tax since 1914 accounts for the large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for 1919 with those for prior censuses. Measured by the value of products, Table 2 shows that for 1919 the five leading counties were Middlesex, Essex, Suffolk, Worcester, and Bristol, in the order named.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always conclusive as indicating their importance from a manufacturing standpoint. In many instances their ranking would change materially if based upon the average number of wage earners or 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 40.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 2,000 or more 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 of the cities for which comparative figures are presented show increases in value of products, due largely to the increased value of commodities at the latter period. With the exception of six cities—Arlington, Gloucester, Lawrence, Marlborough, Wakefield, and Westfield—there were increases also in the average number of wage earners.

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, and also for the 66 cities in the state having 10,000 inhabitants or more. The table shows that there were a number of industries in the state in 1919 in which female wage earners predominated.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Massachusetts. In that year only 8.1 per cent of the wage earners were reported in the group "48 and under" as against 74.3 per cent in 1919. In 1914, the "60" and "Over 60" groups constituted 4.2 per cent of the total wage earners, as compared with nine-tenths of 1 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, 89.3 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 20.3 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 10.7 per cent of the total manufacturing establishments in the state, but reported 79.7 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 in the case of 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 some 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 the extent of manufacturing activities.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 39.5 per cent of the number of establishments in the state in 1919, they reported 87.1 per cent of the average number of wage earners and 86.8 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 121,072, or 24.2 per cent, and the value of products, \$2,136,719,997, or 158.7 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 66 cities in 1919 represented 83.5 per cent of the total in the state. They reported in that year 85.4 per cent of the average number of wage earners, and 86.3 per cent of the value of products and also of value added by manufacture.

Principal industries in each of the 13 cities in the state having more than 50,000 inhabitants, with per cent of total for state (Table 16).—This table presents the principal industries in these cities, 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 333,156 horsepower, or 23.9 per cent. This increase was wholly in rented power which increased 348,268 horsepower, or 161.1 per cent, while owned power decreased 15,112 horsepower, or 1.3 per cent, during the five-year period.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by 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. Of the anthracite coal, the largest quantity shown for any single industry was 116,577 tons, or 16.8 per cent, used in the manufacture of gas. This industry was also the largest consumer of fuel oils, with 1,785,175 barrels, or 48.7 per cent, and the second largest consumer of bituminous coal and of coke, with 10.2 per cent and 23.9 per cent, respectively. The largest consumption of bituminous coal was in the cotton-goods industry, 1,089,589 tons, or 19.3 per cent; while steam-railroad repair shops were the largest consumers of coke, with 200,271 tons, or 40 per cent.

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.....	11,906	12,013	11,084	10,723	10,929	-0.9	2.8	9.0	-1.9
Persons engaged.....	812,521	676,642	644,399	532,481	(²)	20.1	5.0	21.0	.....
Proprietors and firm members.....	9,451	10,710	11,194	11,258	(²)	-11.8	-4.3	-0.6	.....
Salaried employees.....	89,234	59,234	48,646	32,824	25,256	50.6	21.8	48.2	30.0
Wage earners (average number).....	713,836	606,698	584,559	488,399	438,234	17.7	3.8	19.7	11.4
Primary horsepower.....	1,729,878	1,399,722	1,175,071	938,007	796,061	23.9	18.9	25.3	17.8
Capital.....	\$2,947,108,627	\$1,548,960,733	\$1,279,686,558	\$965,948,887	\$781,867,715	90.3	21.0	32.5	23.6
Salaries and wages.....	950,058,742	425,024,201	364,452,007	272,043,570	224,758,018	123.5	16.6	34.0	21.0
Salaries.....	183,435,405	83,714,684	63,278,543	39,654,624	29,479,742	119.1	32.3	59.6	34.5
Wages.....	766,623,337	341,309,517	301,173,464	232,388,946	195,278,276	124.6	13.3	29.6	19.0
Paid for contract work.....	22,744,566	9,834,358	12,092,607	6,568,988	(²)	131.3	-18.7	84.1	.....
Rent and taxes.....	163,471,020	30,376,744	21,295,364	12,320,129	(²)	438.1	42.6	.....	.....
Cost of materials.....	2,260,713,036	931,383,793	830,764,943	626,410,431	498,555,033	142.7	12.1	32.6	26.6
Value of products.....	4,011,181,532	1,641,373,047	1,490,529,386	1,124,092,051	907,626,439	144.4	10.1	32.6	23.8
Value added by manufacture ⁴	1,750,468,496	709,989,254	659,764,443	497,681,620	408,971,406	146.5	7.6	32.6	21.7

¹ A minus sign (-) denotes decrease.

² Figures not available.

³ Exclusive of internal revenue.

⁴ Value of products less cost of materials.

MANUFACTURES—MASSACHUSETTS.

5

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.....	11,906	713,830	\$766,623,337	\$163,471,020	\$2,260,713,036	\$4,011,181,532	\$1,750,468,496	1,729,878
Barnstable.....	47	720	993,291	21,184	4,003,542	5,515,130	1,421,597	1,306
Berkshire.....	301	22,505	23,127,671	5,181,556	61,925,743	114,805,837	52,880,094	77,662
Bristol.....	1,030	102,466	95,469,812	28,869,852	284,075,770	495,424,479	210,748,709	346,311
Dukes.....	17	26	25,152	2,025	31,668	80,432	48,764	107
Essex.....	1,754	114,475	130,033,899	26,240,501	380,559,270	660,697,986	280,138,716	245,772
Franklin.....	207	6,848	7,452,832	1,205,501	11,489,553	27,808,057	16,318,504	30,407
Hampden.....	869	62,235	66,388,002	13,571,618	182,924,346	355,359,435	172,435,089	217,689
Hampshire.....	193	11,410	10,621,007	3,764,391	48,399,901	76,198,635	27,708,724	43,024
Middlesex.....	1,787	119,634	122,957,235	23,036,917	409,237,191	689,166,400	279,929,209	262,083
Nantucket.....	9	15	15,613	3,309	30,604	85,038	48,434	195
Norfolk.....	505	39,154	56,089,659	5,560,026	99,629,102	198,568,273	98,939,171	65,963
Plymouth.....	453	33,497	37,925,101	7,724,431	140,025,269	221,908,316	80,983,047	46,262
Suffolk.....	3,255	98,117	107,548,579	27,429,327	368,995,540	659,250,375	290,254,835	120,745
Worcester.....	1,470	102,740	107,075,484	20,860,782	267,789,537	506,313,130	238,523,593	271,752

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.				Average number.	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.	
All Industries.....	11,906	713,830	100.0	4,011,182	100.0	1,750,468	100.0	4	1,805	0.3	18,347	0.5	11,010
Cotton goods.....	191	122,499	17.2	596,687	14.9	237,012	13.5	27	2,483	0.3	17,305	0.4	9,204
Boots and shoes, not including rubber boots and shoes.....	493	80,166	11.2	442,466	11.0	173,115	9.9	72	512	0.1	16,078	0.4	2,973
Worsted goods.....	71	30,296	5.1	237,443	5.9	80,827	5.0	8	2,832	0.4	16,943	0.4	7,576
Leather, tanned, curried, and finished.....	131	15,180	2.1	129,595	3.2	47,578	2.7	8	3,000	0.4	16,000	0.4	7,591
Foundry and machine-shop products.....	574	27,712	3.9	111,853	2.8	72,043	4.2	102	4,711	0.7	15,666	0.4	8,203
Slaughtering and meat packing.....	40	4,307	0.6	110,238	2.8	0,003	0.5	30	3,305	0.5	15,162	0.4	7,807
Woolen goods.....	111	17,568	2.5	105,183	2.6	43,000	2.5	75	3,232	0.5	15,051	0.4	6,079
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	47	9,406	1.3	93,377	2.3	40,301	2.0	29	2,905	0.4	14,972	0.4	6,621
Electrical machinery, apparatus, and supplies.....	110	23,880	3.3	91,939	2.3	60,102	3.4	19	1,328	0.2	14,713	0.4	10,525
Paper and wood pulp.....	78	12,960	1.8	87,160	2.2	33,306	1.9	88	3,541	0.5	14,483	0.4	7,771
Boot and shoe cut stock.....	182	4,631	0.6	86,214	2.2	16,732	1.0	3	2,441	0.3	13,860	0.3	6,077
Dyeing and finishing textiles, exclusive of that done in textile mills.....	62	12,321	1.7	75,262	1.9	31,052	1.8	10	3,134	0.4	13,594	0.3	5,573
Confectionery and ice cream.....	278	11,585	1.6	68,897	1.7	28,543	1.6	44	1,060	0.3	13,552	0.3	4,972
Bread and other bakery products.....	1,309	8,583	1.2	66,017	1.7	25,430	1.5	23	3,521	0.5	13,473	0.3	8,028
Textile machinery and parts.....	116	17,413	2.4	65,901	1.6	42,424	2.4	14	2,172	0.3	13,299	0.3	8,021
Knit goods.....	77	12,751	1.8	52,424	1.3	21,262	1.2	14	2,443	0.3	13,118	0.3	8,105
Printing and publishing, newspapers and periodicals.....	412	5,885	0.8	46,801	1.2	30,328	1.7	22	1,464	0.2	12,763	0.3	8,339
Boot and shoe findings.....	254	5,896	0.8	44,337	1.1	15,971	0.9	146	2,245	0.3	12,625	0.3	5,412
Boots and shoes, rubber.....	8	13,062	1.8	44,308	1.1	26,687	1.5	8	989	0.1	12,548	0.3	2,978
Printing and publishing, book and job.....	768	7,634	1.1	41,627	1.0	28,032	1.6	20	4,082	0.6	12,038	0.3	8,632
Clothing, men's.....	207	6,856	1.0	41,475	1.0	17,875	1.0	262	2,946	0.4	11,560	0.3	6,704
Jewelry.....	165	6,786	1.0	34,817	0.9	16,462	0.9	13	1,917	0.3	10,899	0.3	4,319
Silk goods, including throwsters.....	21	5,697	0.8	34,194	0.9	14,950	0.9	7	2,280	0.3	10,336	0.3	5,648
Iron and steel, steel works and rolling mills.....	11	3,684	0.5	30,970	0.8	11,733	0.7	15	1,086	0.2	10,286	0.3	3,647
Clothing, women's.....	258	6,271	0.9	30,428	0.8	12,454	0.7	24	1,699	0.2	9,990	0.3	5,037
Chocolate and cocoa products.....	6	2,007	0.3	30,327	0.8	6,338	0.4	81	848	0.1	9,603	0.3	3,531
Tools, not elsewhere specified.....	117	7,226	1.0	29,159	0.7	21,171	1.2	97	604	0.1	9,108	0.2	6,051
Cordage and twine.....	13	2,743	0.4	28,086	0.7	8,655	0.5	18	1,876	0.3	8,485	0.2	4,654
Wire.....	9	5,203	0.7	24,552	0.6	12,079	0.7	137	1,533	0.2	8,116	0.2	5,088
Gas, illuminating and heating.....	51	2,654	0.4	24,231	0.6	13,468	0.8	40	1,651	0.2	8,250	0.2	3,005
Furniture.....	161	6,342	0.9	23,689	0.6	13,031	0.7	94	2,936	0.4	8,180	0.2	5,147
Machine tools.....	46	6,471	0.9	23,443	0.6	16,534	0.9	172	768	0.1	8,177	0.2	4,097
Cars and general shop construction and repairs by steam-railroad companies.....	14	7,724	1.1	22,638	0.6	12,347	0.7	14	2,228	0.3	8,123	0.2	4,699
Cutlery and edge tools.....	51	3,988	0.6	19,073	0.5	14,261	0.8	30	1,929	0.3	7,932	0.2	3,443
Soap.....	27	1,008	0.1	18,730	0.5	7,556	0.4						

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

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.
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	25	1,537	0.2	7,853	0.2	4,012	0.2	Dyestuffs and extracts—natural... ..	27	165	(1)	5,812	0.1	1,386	0.1
House-furnishing goods, not elsewhere specified.....	54	1,081	0.2	7,708	0.2	2,579	0.1	Sporting and athletic goods.....	14	1,307	0.2	5,774	0.1	2,771	0.2
Grease and tallow, not including lubricating greases.....	24	825	0.1	7,323	0.2	2,488	0.1	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	11	1,471	0.2	5,768	0.1	2,613	0.1
Marble and stone work.....	239	1,936	0.3	7,125	0.2	4,066	0.3	Oilcloth, enameled.....	4	342	(1)	5,747	0.1	1,405	0.1
Blacking, stains, and dressings....	66	686	0.1	7,108	0.2	2,936	0.2	Lumber and timber products.....	244	1,582	0.2	5,733	0.1	3,607	0.2
Brushes.....	80	1,613	0.2	6,857	0.2	3,524	0.2	Firearms.....	5	2,253	0.3	5,645	0.1	4,578	0.3
Corsets.....	11	1,555	0.2	6,764	0.2	3,397	0.2	Stoves and hot-air furnaces.....	15	1,886	0.2	5,577	0.1	3,906	0.2
Roofing materials.....	8	695	0.1	6,706	0.2	2,712	0.2	Wool shoddy.....	23	623	0.1	5,515	0.1	1,815	0.1
Structural ironwork, not made in steel works or rolling mills.....	55	1,188	0.2	6,687	0.2	3,340	0.2	Hats, straw.....	13	1,490	0.2	5,485	0.1	2,595	0.1
Surgical appliances.....	14	609	0.1	6,572	0.2	2,226	0.1	Sausage, not made in slaughtering and meat-packing establishments.....	56	306	(1)	5,296	0.1	1,074	0.1
Glue, not elsewhere specified.....	13	826	0.1	6,451	0.2	2,822	0.2	Carriages and sleds, children's.....	13	1,449	0.2	5,254	0.1	2,703	0.2
Pickles, preserves, and sauces.....	33	480	0.1	6,254	0.2	2,245	0.1	Combs and hairpins, not made from metal or rubber.....	26	1,766	0.3	5,179	0.1	2,645	0.2
Varnishes.....	14	316	(1)	6,159	0.2	2,558	0.1	Linen goods.....	4	1,210	0.2	5,178	0.1	1,849	0.1
Automobile repairing.....	279	1,532	0.2	5,973	0.1	3,929	0.2	Shirts.....	12	1,090	0.2	5,108	0.1	2,243	0.1
Ammunition.....	6	2,449	0.3	5,961	0.1	4,794	0.3	All other industries ¹	2,215	74,345	10.4	370,904	9.2	171,557	9.8
Millinery and lace goods, not elsewhere specified.....	60	1,396	0.2	5,959	0.1	2,806	0.2								
Lasts.....	31	1,299	0.2	5,886	0.1	4,049	0.2								

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 six having products in excess of some for which figures are shown in the table. These industries are as follows: "Cars, steam-railroad, not including operations of railroad companies"; "jute goods"; "labels and tags"; "shipbuilding, steel"; "sugar, refining, not including beet sugar"; and "watches."

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	812,521	556,185	256,336	68.5	31.5	Clerks and other subordinate salaried employees.....	1919	63,556	32,788	30,768	51.6	48.4
	1914	676,642	470,494	206,148	69.5	30.5		1914	44,762	28,620	16,142	63.9	36.1
	1909	644,399	447,267	197,132	69.4	30.6		1909	35,855	22,914	12,941	63.9	36.1
Proprietors and officials.....	1919	35,129	33,391	1,738	95.1	4.9	Wage earners (average number).....	1919	713,836	400,006	223,830	68.6	31.4
	1914	25,182	23,982	1,200	95.2	4.8		1914	606,698	417,892	188,806	68.9	31.1
	1909	23,985	23,181	804	96.6	3.4		1909	584,559	401,172	183,387	68.6	31.4
Proprietors and firm members..	1919	9,451	8,944	507	94.6	5.4	16 years of age and over.....	1919	690,400	478,440	211,951	69.3	30.7
	1914	10,710	10,122	588	94.5	5.5		1914	594,380	411,709	182,677	69.3	30.7
	1909	11,194	10,695	499	95.5	4.5		1909	563,824	390,544	173,280	69.3	30.7
Salaried officers of corporations..	1919	7,105	6,787	318	95.5	4.5	Under 16 years of age.....	1919	23,436	11,557	11,879	49.3	50.7
	1914	5,250	5,071	179	96.6	3.4		1914	12,312	6,183	6,129	50.2	49.8
	1909	4,615	4,481	134	97.1	2.9		1909	20,735	10,628	10,107	51.3	48.7
Superintendents and managers..	1919	18,573	17,660	913	95.1	4.9							
	1914	9,222	8,789	433	95.3	4.7							
	1909	8,176	8,005	171	97.9	2.1							

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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 (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age 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	713,836	67.0	29.7	3.3	Furniture.....	1919	6,342	87.4	9.9	2.6
	1914	606,698	67.9	30.1	2.0		1914	6,813	90.1	8.8	1.1
	1909	584,559	66.8	29.6	3.5	Gas, illuminating and heating.....	1919	2,654	99.8	.....	0.2
Ammunition ¹	1919	2,449	35.2	62.8	2.0		1914	3,182	97.9	2.1	.....
Automobile bodies and parts.....	1919	3,541	95.3	3.6	1.1	Iron and steel, steel works and rolling mills.	1919	3,684	96.1	3.7	0.1
	1914	1,341	97.9	1.9	0.1		1914	2,889	100.0	.....	.....
Belt and hose, rubber ¹	1919	2,441	83.6	15.0	1.4	Iron and steel, forgings, not made in steel works or rolling mills.	1919	2,172	97.4	1.9	0.6
Bookbinding and blank-book making.....	1919	2,936	45.7	47.7	6.5		1914	683	97.1	2.3	0.6
	1914	3,317	52.1	46.8	1.1	Jewelry.....	1919	6,786	61.9	34.6	3.5
Boot and shoe cut stock.....	1919	4,631	72.3	23.5	4.1		1914	6,505	66.5	28.7	4.9
	1914	3,781	71.4	27.4	1.2	Knit goods.....	1919	12,751	27.5	67.8	4.6
Boot and shoe findings.....	1919	5,896	63.1	33.6	3.4		1914	10,635	25.9	72.2	1.9
	1914	4,389	66.5	31.6	1.9	Leather, tanned, curried, and finished.....	1919	15,180	90.8	8.2	1.0
Boots and shoes, not including rubber boots and shoes.	1919	80,166	60.3	35.7	4.0		1914	10,164	98.2	1.6	0.3
	1914	76,944	64.7	33.7	1.6	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	2,245	98.4	0.4	1.1
Boots and shoes, rubber.....	1919	13,062	57.3	40.1	2.6		1914	3,423	98.7	0.6	0.6
	1914	8,087	61.0	37.9	1.1	Motorcycles, bicycles, and parts.....	1919	3,000	84.9	12.3	2.8
Boxes, paper and other, not elsewhere speci- fied.	1919	4,711	33.2	58.0	8.8		1914	2,135	98.5	1.0	0.5
	1914	4,244	32.0	63.6	3.5	Musical instruments, pianos.....	1919	2,228	92.0	5.3	2.7
Boxes, wooden packing, except cigar boxes.	1919	3,232	86.6	11.2	2.2		1914	2,352	96.2	2.3	1.5
	1914	2,995	92.0	0.4	1.6	Optical goods.....	1919	4,082	52.0	42.7	5.3
Brass, bronze, and copper products.....	1919	2,832	97.4	1.9	0.7		1914	2,356	70.7	25.0	4.3
	1914	1,020	97.5	2.0	0.5	Paper and wood pulp.....	1919	12,960	73.7	25.9	0.4
Bread and other bakery products.....	1919	8,583	71.9	26.5	1.6		1914	13,401	69.3	30.5	0.1
	1914	8,083	75.5	23.2	1.2	Printing and publishing, book and job.....	1919	7,634	70.4	26.4	3.3
Carpets and rugs, other than rag.....	1919	3,134	53.3	38.3	8.4		1914	7,062	70.7	27.1	2.3
	1914	5,319	53.2	43.3	3.5	Printing and publishing, newspapers and periodicals.	1919	5,885	82.4	14.1	3.6
Cars and general shop construction and repairs by steam-railroad companies.	1919	7,724	99.2	0.7	0.1		1914	6,032	86.9	11.5	1.6
	1914	6,264	99.6	0.3	0.1	Pumps, steam.....	1919	2,280	94.9	5.0	0.1
Chemicals.....	1919	2,483	80.4	19.3	0.4		1914	1,194	97.4	2.4	0.2
	1914	1,395	92.7	0.7	0.6	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	6,406	85.0	14.0	1.0
Chocolate and cocoa products.....	1919	2,007	69.6	28.9	1.5		1914	4,743	83.2	14.8	2.0
	1914	943	70.0	20.1	0.3	Silk goods, including throwsters.....	1919	5,697	33.6	59.9	6.4
Clothing, men's.....	1919	6,856	43.3	55.5	1.1		1914	4,495	30.9	66.6	2.5
	1914	5,760	47.7	51.0	0.7	Slaughtering and meat packing.....	1919	4,307	97.7	2.1	0.2
Clothing, women's.....	1919	6,271	20.0	77.4	2.7		1914	3,233	98.8	1.1	0.1
	1914	6,076	24.5	74.7	0.7	Stationery goods, not elsewhere specified....	1919	3,305	37.8	58.5	3.7
Confectionery and ice cream.....	1919	11,585	31.0	58.2	10.9		1914	2,467	42.0	56.5	1.5
	1914	7,260	30.1	65.7	4.2	Steam fittings and steam and hot-water heating apparatus.	1919	3,521	94.5	5.2	0.3
Cordage and twine ¹	1919	2,743	70.3	26.8	2.0		1914	3,175	97.3	2.7	(*)
Cotton goods.....	1919	122,409	51.0	43.2	5.8	Suspenders, garters, and elastic woven goods.	1919	2,965	31.3	64.7	4.0
	1914	112,009	52.1	44.0	3.9		1914	2,928	35.1	60.7	4.2
Cutlery and edge tools.....	1919	3,088	65.7	32.1	2.3	Tobacco, cigars and cigarettes.....	1919	2,946	73.2	26.7	0.1
	1914	1,947	77.7	20.4	1.9		1914	3,805	72.0	26.9	0.3
Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	12,321	75.5	22.7	1.8	Tools, not elsewhere specified.....	1919	7,226	86.7	11.1	2.2
	1914	11,437	80.7	17.5	1.9		1914	4,538	93.5	5.5	1.1
Electrical machinery, apparatus, and sup- plies.	1919	23,880	74.4	24.8	0.8	Wire.....	1919	5,203	93.6	5.4	0.9
	1914	17,125	80.0	19.5	0.5		1914	2,809	96.8	3.1	0.1
Emery and other abrasive wheels.....	1919	2,443	89.7	9.5	0.8	Woolen goods.....	1919	17,568	68.4	20.3	2.3
	1914	902	95.7	4.1	0.2		1914	13,844	67.8	30.9	1.3
Firearms.....	1919	2,253	95.0	3.2	1.8	Worsted goods.....	1919	36,296	51.8	41.9	6.3
	1914	2,161	97.4	1.2	1.3		1914	39,533	55.8	40.9	3.3
Foundry and machine-shop products ²	1919	51,680	94.7	4.5	0.8	All other industries.....	1919	129,157	74.8	22.9	2.4
	1914	32,687	97.8	1.6	0.6		1914	115,446	74.6	23.7	1.7

¹ Not shown separately in 1914.

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

³ Less than one-tenth of 1 per cent.

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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.

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
Adams.....	3,974	3,930	3,991	2,376	2,223	2,026	1,416	1,580	1,478	182	127	487	\$15,076,858	\$6,530,232	\$6,410,054
Amesbury.....	3,173	1,451	.....	2,712	1,264	.....	430	172	.....	31	15	.....	16,309,500	3,551,434	.....
Arlington.....	228	246	283	202	233	259	24	10	22	2	3	2	1,006,207	641,092	698,336
Attleboro.....	6,763	6,038	6,429	4,798	4,434	4,396	1,684	1,542	1,853	281	82	180	34,471,577	13,946,884	15,160,369
Belmont.....	93	.....	.....	81	.....	.....	11	.....	.....	1	.....	.....	374,586	.....	.....
Beverly.....	6,495	4,641	4,487	5,274	3,904	3,679	1,134	717	752	87	20	56	21,829,684	8,774,187	8,652,547
Boston.....	88,759	78,894	73,957	57,736	53,046	49,146	28,057	24,608	22,407	2,966	1,240	2,404	618,921,962	284,802,479	244,793,550
Braintree.....	2,176	.....	.....	1,416	.....	.....	593	.....	.....	167	.....	.....	11,974,839	.....	.....
Brookline.....	18,059	16,246	14,737	11,978	11,798	10,661	5,627	4,283	3,834	454	165	242	117,855,025	51,259,181	45,972,388
Brookline.....	484	335	340	254	296	280	200	38	54	30	1	6	2,243,311	658,502	632,803
Cambridge.....	22,550	16,749	15,260	14,953	11,826	10,630	6,964	4,741	4,211	633	182	419	127,864,901	57,483,949	44,227,395
Chelsea.....	6,580	6,241	5,954	4,576	4,444	4,213	1,733	1,741	1,611	251	56	130	32,536,518	16,971,028	17,002,492
Chicopee.....	10,068	8,426	7,260	7,684	6,365	4,994	2,114	1,916	2,020	270	145	246	89,772,534	28,800,152	19,219,166
Clinton.....	4,155	4,064	4,123	2,383	2,300	2,264	1,454	1,640	1,670	318	124	189	15,170,810	6,735,297	7,844,543
Danvers.....	1,474	.....	.....	966	.....	.....	442	.....	.....	66	.....	.....	11,541,839	.....	.....
Dedham.....	463	256	.....	267	193	.....	157	58	.....	30	5	.....	1,737,673	427,690	.....
Dorchester.....	4,142	.....	.....	2,412	.....	.....	1,519	.....	.....	211	.....	.....	37,042,121	.....	.....
Everett.....	4,523	3,226	2,680	3,777	2,717	2,353	611	463	257	135	46	70	35,775,728	13,210,200	8,740,923
Fall River.....	37,015	36,834	37,139	19,335	19,868	20,459	15,476	14,899	14,949	2,204	2,067	1,731	163,246,082	64,663,146	64,145,726
Fitchburg.....	9,907	8,837	8,407	6,697	6,088	5,825	2,780	2,470	2,271	430	279	401	58,164,842	23,983,352	23,252,155
Frammingham.....	4,362	3,982	3,069	2,766	2,460	1,797	1,492	1,477	1,150	104	45	116	18,842,173	8,726,574	6,910,864
Gardner.....	4,036	3,964	3,617	3,161	3,440	3,100	1,089	481	415	136	43	102	13,599,682	7,449,087	6,485,148
Gloucester.....	2,684	2,814	2,181	1,951	2,082	1,658	683	661	482	50	71	41	18,803,673	8,533,964	7,753,493
Greenfield.....	2,750	1,602	1,251	2,239	1,436	1,043	480	134	139	31	32	69	9,481,382	3,527,101	2,891,011
Haverhill.....	16,783	13,281	11,689	10,139	8,810	7,688	5,354	4,325	3,762	200	116	211	96,276,853	42,409,246	35,376,617
Holyoke.....	17,773	17,493	16,513	9,835	10,219	8,906	6,089	6,751	6,458	949	523	1,149	93,426,775	44,041,155	40,697,224
Lawrence.....	30,319	31,043	30,542	17,946	19,300	17,493	10,900	11,183	11,444	1,473	500	1,005	183,440,090	73,177,803	79,992,063
Leominster.....	5,793	4,929	5,601	3,600	3,638	3,708	1,999	1,202	1,746	194	89	147	24,928,700	10,838,024	10,530,815
Lowell.....	30,111	29,004	32,333	16,513	16,934	20,222	12,577	12,432	10,883	1,021	538	1,228	137,801,538	59,048,041	59,048,714
Lynn.....	27,355	25,339	27,368	18,852	17,469	19,077	8,188	7,782	8,003	315	88	228	160,905,792	69,783,418	71,608,140
Malden.....	4,723	2,850	2,900	2,575	1,622	1,649	1,981	1,171	1,222	167	57	29	22,077,624	8,366,344	8,208,852
Marlborough.....	3,798	3,822	4,265	2,425	2,624	2,787	1,227	1,092	1,201	146	106	277	9,983,632	10,382,277	79,992,063
Medford.....	1,031	559	560	694	480	486	305	77	66	32	2	8	5,695,728	2,618,893	2,045,289
Melrose.....	1,606	962	1,038	709	446	438	845	490	591	52	26	9	6,083,698	2,499,029	2,824,690
Methuen.....	2,571	1,940	1,572	936	786	653	1,421	1,116	793	214	38	126	14,214,905	4,401,111	3,475,702
Milford.....	1,809	1,749	1,801	1,157	1,274	1,045	578	458	710	74	17	46	8,408,531	4,028,492	4,442,140
Natick.....	1,463	1,347	.....	1,089	1,042	.....	361	300	.....	13	5	.....	7,363,367	4,566,253	.....
New Bedford.....	41,030	33,343	26,566	23,906	19,282	15,700	15,896	13,012	9,516	1,828	1,049	1,350	210,773,312	9,983,632	53,237,839
Newburyport.....	3,960	3,349	3,215	2,418	2,135	2,083	1,438	1,171	1,035	104	43	97	20,595,015	8,245,998	6,631,049
Newton.....	2,547	2,154	2,174	1,691	1,472	1,604	791	669	520	65	13	50	15,524,567	5,822,853	6,278,714
North Adams.....	6,023	5,288	5,414	3,891	3,509	3,508	1,899	1,620	1,560	233	159	346	36,203,767	10,022,575	10,314,847
Northampton.....	3,532	3,446	3,150	2,119	2,225	2,012	1,216	1,092	977	197	129	161	17,960,620	8,580,730	6,998,992
Northbridge.....	3,871	.....	.....	3,185	.....	.....	534	.....	.....	152	.....	.....	13,848,897	.....	.....
Norwood.....	2,835	.....	.....	2,221	.....	.....	570	.....	.....	44	.....	.....	20,359,242	.....	.....
Peabody.....	8,013	5,485	4,850	7,156	5,126	4,270	787	356	518	70	3	62	52,906,722	18,441,906	15,548,782
Pittsfield.....	8,570	7,490	6,353	6,267	5,455	4,508	2,124	1,973	1,679	179	62	166	41,613,856	22,241,237	15,215,202
Plymouth.....	2,971	2,845	2,912	2,239	1,873	2,124	647	673	665	25	299	123	31,319,553	13,901,545	11,618,020
Quincy.....	19,653	5,783	5,492	19,103	5,353	4,769	621	409	560	29	21	163	68,535,406	12,097,452	10,505,403
Roxbury.....	126	80	101	110	71	98	15	0	3	1	.....	.....	767,294	349,696	407,336
Salem.....	5,672	5,294	6,338	3,422	3,587	4,070	2,048	1,627	1,985	202	80	283	30,437,957	13,652,886	14,576,276
Saugus.....	126	.....	.....	95	.....	.....	24	.....	.....	7	.....	.....	1,157,215	.....	.....
Somerville.....	6,111	5,429	5,280	5,569	5,180	4,841	476	219	370	66	30	69	99,558,513	43,971,201	38,686,827
Southbridge.....	5,329	4,332	4,037	3,009	2,736	2,680	2,066	1,421	1,183	254	175	170	18,252,814	7,366,430	6,269,181
Springfield.....	18,420	14,240	11,855	13,331	10,976	8,715	4,613	3,136	2,726	485	128	414	98,332,955	44,428,854	31,772,815
Taunton.....	8,981	7,371	7,407	6,318	5,441	5,345	2,322	1,823	1,820	341	107	242	48,330,638	15,885,812	15,379,821
Warefield.....	1,869	2,008	2,230	1,138	1,241	1,200	698	747	994	33	20	36	8,977,010	6,057,650	5,527,192
Waltham.....	8,069	6,465	6,037	4,995	4,305	3,580	2,909	2,138	2,369	105	22	88	20,878,515	10,236,012	7,814,178
Watertown.....	8,420	4,787	4,335	5,351	3,134	2,817	2,912	1,642	1,372	157	11	146	47,297,519	14,764,326	11,645,555
Webster.....	3,849	3,246	3,019	2,408	2,096	1,879	1,097	972	901	344	178	239	28,400,765	9,233,919	10,027,086
Westfield.....	3,243	3,584	3,060	2,488	3,026	2,390	664	517	594	91	41	76	14,278,973	8,420,439	7,361,528
West Springfield.....	2,791	2,209	.....	2,482	1,876	.....	301	332	.....	8	1	.....	12,386,556	5,039,953	.....
Weymouth.....	2,146	2,074	1,991	1,389	1,505	1,398	637	551	554	120	18	39	16,836,997	8,251,041	6,627,168
Winchester.....	1,112	1,048	.....	985	652	.....	122	96	.....	5	.....	.....	9,697,701	5,159,479	.....
Winthrop.....	61	16	7	30	12	7	31	4	.....	.....	.....	.....	330,234	77,994	42,168
Woburn.....	2,011	1,565	1,653	1,705	1,463	1,528	254	98	111	22	4	14	13,980,185	5,517,806	5,408,081
Worcester.....	38,673	29,452	28,221	29,705	22,402	21,355	7,944	6,646	5,745	1,024	404	1,121	208,705,773	82,829,356	77,147,884

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.....	695,713	626,776	565,760	90.9	98.9	92.4	July.....	715,599	595,609	573,462	93.5	94.0	93.6
February.....	677,294	628,535	572,618	88.4	99.2	93.5	August.....	726,537	588,703	581,008	94.9	92.9	94.8
March.....	680,825	633,583	579,519	88.9	100.0	94.6	September.....	736,391	589,194	594,686	96.2	93.0	97.1
April.....	679,235	628,344	576,618	88.7	99.2	94.1	October.....	741,911	590,092	601,533	96.9	93.3	98.2
May.....	689,490	610,082	576,379	90.0	97.7	94.1	November.....	751,909	587,141	604,466	98.2	92.7	98.7
June.....	705,382	611,928	576,055	92.1	96.6	94.0	December.....	765,746	680,489	612,615	100.0	91.6	100.0

MANUFACTURES—MASSACHUSETTS.

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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.....	713,836	695,713	677,294	680,825	679,235	689,490	705,382	715,599	726,537	730,391	741,911	751,909	765,746	88.4
Males.....	490,006	474,934	463,973	467,873	467,350	474,939	485,726	492,100	500,327	505,820	509,413	513,629	523,982	88.5
Females.....	223,830	220,779	213,321	212,952	211,885	214,551	219,656	223,499	226,210	230,571	232,498	238,280	241,764	87.6
Ammunition.....	2,449	9,111	4,398	2,316	1,905	1,605	1,617	1,463	1,406	1,441	1,418	1,323	1,325	14.5
Automobile bodies and parts.....	3,541	3,740	3,811	3,820	3,190	3,243	3,152	3,218	3,527	3,566	3,478	3,641	3,856	81.7
Belt and hose, rubber.....	2,441	2,827	2,358	2,307	2,159	2,152	2,026	2,282	2,579	2,558	2,723	2,660	2,851	71.1
Bookbinding and blank-book making.....	2,936	2,700	2,765	2,837	2,857	2,917	3,006	2,995	2,968	2,980	3,011	3,090	3,097	87.5
Boot and shoe cut stock.....	4,031	4,420	4,532	4,527	4,439	4,491	4,593	4,783	4,678	4,744	4,871	4,733	4,761	90.7
Boot and shoe findings.....	5,896	5,291	5,495	5,538	5,639	5,565	5,772	5,848	6,036	6,184	6,326	6,457	6,601	80.2
Boots and shoes, not including rubber boots and shoes.....	80,166	77,871	78,498	78,698	77,018	77,523	77,620	79,047	80,737	81,388	82,235	84,653	86,704	88.8
Boots and shoes, rubber.....	13,002	14,308	14,413	13,767	12,834	12,209	11,755	11,835	12,042	12,136	13,031	13,979	14,435	81.4
Boxes, paper and other, not elsewhere specified.....	4,711	4,281	4,401	4,403	4,570	4,621	4,650	4,771	4,725	4,761	5,007	5,099	5,163	82.9
Boxes, wooden packing, except cigar boxes.....	3,232	3,210	3,162	3,140	3,072	3,048	3,065	3,177	3,254	3,331	3,398	3,422	3,496	87.2
Brass, bronze, and copper products.....	2,832	2,029	2,872	2,700	2,681	2,605	2,688	2,756	2,825	2,872	2,936	2,998	3,032	85.9
Bread and other bakery products.....	8,583	8,180	8,145	8,108	8,250	8,414	8,553	8,576	8,790	8,740	8,705	9,040	9,026	89.7
Carpets and rugs, other than rag.....	3,134	2,553	2,410	2,504	2,644	3,117	3,442	3,645	3,726	2,853	3,491	3,563	3,660	64.7
Cars and general shop construction and repairs by steam-railroad companies.....	7,724	7,781	7,917	7,843	7,642	7,479	7,414	7,645	7,512	7,749	7,735	7,870	8,101	91.5
Chemicals.....	2,483	2,526	2,415	2,389	2,340	2,367	2,371	2,431	2,463	2,530	2,623	2,606	2,729	85.3
Chocolate and cocoa products.....	2,007	1,960	2,020	2,080	2,030	1,844	1,870	2,127	2,053	2,144	2,111	1,949	1,887	86.0
Clothing, men's.....	6,850	6,088	5,202	5,402	6,042	6,863	6,966	7,253	7,530	7,715	7,722	7,823	7,916	64.3
Clothing, women's.....	6,271	6,296	5,771	6,123	6,349	6,521	6,499	6,289	6,284	6,588	6,773	6,524	6,295	77.3
Confectionery and ice cream.....	11,585	10,708	11,506	11,783	11,456	11,132	10,826	10,733	11,082	12,103	12,593	12,428	11,770	85.0
Cordage and twine.....	2,743	2,574	2,731	2,948	2,853	2,758	2,766	2,756	2,765	2,693	2,685	2,667	2,720	87.3
Cotton goods.....	122,490	122,627	118,686	118,507	118,106	119,922	122,886	124,315	123,798	125,211	123,281	125,572	127,017	93.0
Cutlery and edge tools.....	3,988	3,998	3,818	3,882	3,917	3,962	3,991	4,024	3,999	4,018	4,153	4,337	4,457	80.7
Dyeing and finishing textiles, exclusive of that done in textile mills.....	12,321	12,043	10,908	10,800	10,890	11,608	12,264	12,850	13,077	13,148	12,854	13,609	13,931	77.5
Electrical machinery, apparatus, and supplies.....	23,889	22,102	22,543	21,710	21,682	22,010	22,353	23,210	24,382	25,256	26,284	27,198	28,024	77.0
Emery and other abrasive wheels.....	2,443	2,483	2,441	2,420	2,383	2,294	2,283	2,214	2,360	2,440	2,558	2,664	2,776	79.8
Firearms.....	2,253	1,860	1,764	2,124	2,385	2,498	2,570	2,312	2,351	2,363	2,397	2,435	2,451	53.9
Foundry and machine-shop products.....	27,712	27,308	26,517	26,190	26,135	26,901	26,454	27,019	27,022	28,079	29,172	30,578	31,263	82.8
Furniture.....	6,342	6,560	5,590	5,781	5,854	5,909	5,904	6,347	6,580	6,804	7,017	7,230	7,402	75.1
Gas, illuminating and heating.....	2,654	2,739	2,729	2,680	2,686	2,726	2,687	2,696	2,656	2,424	2,606	2,581	2,638	88.5
Iron and steel, steel works and rolling mills.....	3,684	3,825	3,599	3,385	3,221	3,390	3,407	3,673	3,786	3,940	3,991	3,962	4,029	79.9
Iron and steel, forgings, not made in steel works or rolling mills.....	2,172	2,067	2,024	2,050	2,068	2,032	2,061	2,119	2,200	2,193	2,321	2,438	2,491	81.3
Jewelry.....	6,780	6,806	6,003	6,202	6,222	6,430	6,624	7,075	7,123	7,244	7,380	7,601	7,713	75.3
Knit goods.....	12,751	12,722	12,501	12,484	12,402	11,070	12,117	12,432	12,603	12,975	13,353	13,499	13,975	85.7
Leather, tanned, curried, and finished.....	15,180	13,878	13,801	13,568	13,658	14,375	15,195	15,241	16,355	16,736	16,791	17,093	17,379	76.2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	2,245	2,021	1,990	1,972	2,054	2,080	1,993	2,286	2,392	2,445	2,546	2,577	2,614	75.0
Machine tools.....	6,471	6,915	6,026	6,497	6,258	6,032	6,045	6,868	6,181	6,315	6,704	6,974	7,297	80.3
Motorcycles, bicycles, and parts.....	3,000	3,019	3,047	2,984	3,006	3,081	2,980	2,969	2,924	2,794	2,928	3,080	3,128	89.3
Musical instruments, pianos.....	2,228	1,885	1,952	2,060	2,167	2,276	2,283	2,338	2,301	2,342	2,349	2,389	2,394	78.7
Optical goods.....	4,082	3,980	4,087	3,789	3,907	3,954	4,143	3,683	4,206	4,218	4,280	4,355	4,373	84.2
Paper and wood pulp.....	12,900	12,651	11,971	12,432	12,220	12,192	12,043	12,040	13,020	13,575	13,845	13,929	14,093	84.9
Printing and publishing, book and job.....	7,634	7,141	7,258	7,423	7,573	7,589	7,608	7,544	7,531	7,705	7,901	8,118	8,217	86.9
Printing and publishing, newspapers and periodicals.....	5,885	6,650	5,700	5,700	5,833	5,922	5,884	5,859	5,828	5,944	6,085	6,101	6,105	92.5
Pumps, steam.....	2,280	2,881	2,730	2,707	2,592	2,247	2,054	1,969	2,013	2,024	2,031	2,065	2,057	68.0
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	9,406	7,728	7,959	8,842	9,517	9,532	9,212	9,353	9,586	9,692	10,115	10,532	10,804	71.5
Silk goods, including throwsters.....	5,697	4,065	4,618	4,760	5,083	5,388	5,482	5,900	6,140	6,410	6,512	6,620	6,777	68.1
Slaughtering and meat packing.....	4,807	5,354	6,319	5,165	4,608	4,453	4,624	4,741	4,523	4,232	3,655	1,501	3,509	28.0
Stationary goods, not elsewhere specified.....	3,305	3,125	3,133	3,132	3,077	3,257	3,205	3,252	3,271	3,417	3,558	3,605	3,628	84.8
Steam fittings and steam and hot-water heating apparatus.....	3,521	3,402	3,501	3,630	3,520	3,443	3,142	3,121	3,424	3,518	3,713	3,846	3,902	80.0
Suspenders, garters, and elastic woven goods.....	2,965	2,766	2,735	2,758	2,791	2,781	2,839	3,000	3,027	3,108	3,220	3,275	3,282	83.3
Textile machinery and parts.....	17,413	16,740	16,181	15,787	16,590	15,780	16,706	17,739	18,226	19,082	19,297	18,816	19,253	79.8
Tobacco, cigars and cigarettes.....	2,946	3,324	3,412	3,354	2,890	3,102	3,170	1,582	1,744	3,095	3,255	3,315	3,330	40.5
Tools, not elsewhere specified.....	7,226	7,169	7,226	7,354	7,204	7,123	7,085	7,128	7,119	7,157	7,241	7,381	7,525	94.2
Wire.....	5,208	5,201	5,105	5,089	4,970	4,935	4,910	4,900	5,050	5,238	5,372	5,701	5,905	83.1
Woolen goods.....	17,568	13,873	12,544	13,532	16,428	17,631	19,216	19,747	19,859	20,235	19,572	19,646	18,533	62.0
Worsted goods.....	36,296	31,702	28,755	27,852	28,520	32,735	39,827	41,786	41,570	42,532	40,410	40,985	43,872	54.1
All other industries.....	120,241	128,860	128,681	128,689	127,624	128,418	128,724	130,579	129,908	129,437	130,207	129,701	130,168	97.7
Industries showing large proportion of females.														
Ammunition.....	1,553	5,744	2,830	1,448	1,190	1,049	1,023	934	897	915	918	848	840	14.6
Bookbinding and blank-book making.....	1,473	1,345	1,402	1,429	1,461	1,488	1,513	1,535	1,467	1,490	1,501	1,515	1,524	87.6
Boot and shoe cut stock.....	1,138	1,122	1,164	1,155	1,096	1,086	1,088	1,173	1,193	1,110	1,161	1,160	1,148	91.0
Boot and shoe findings.....	2,070	1,918	2,010	2,024	2,045	2,020	2,020	2,055	2,133	2,166	2,179	2,196	2,178	87.1
Boots and shoes, not including rubber boots and shoes.....	20,977	20,309	20,429	20,505	20,616	20,7								

MANUFACTURES—MASSACHUSETTS.

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.	
Dyeing and finishing textiles, exclusive of that done in textile mills.	2,884	2,704	2,683	2,631	<i>2,611</i>	2,693	2,854	2,949	2,990	3,038	2,875	3,200	3,290	73.4
Electrical machinery, apparatus, and supplies.	5,994	5,669	5,711	5,507	<i>5,803</i>	5,378	5,501	5,730	6,103	6,393	6,707	6,958	6,968	73.1
Furniture.	663	594	<i>605</i>	579	605	631	631	677	675	695	732	771	801	70.6
Jewelry.	2,454	<i>2,107</i>	2,140	2,216	2,230	2,296	2,332	2,602	2,613	2,639	2,691	2,763	2,819	74.7
Knit goods.	9,074	9,072	8,918	8,875	8,774	<i>8,502</i>	8,613	8,898	8,988	9,220	9,521	9,581	9,926	85.7
Leather, tanned, curried, and finished.	1,271	1,291	1,182	1,107	1,129	1,209	1,261	1,263	1,393	1,387	1,409	1,459	1,472	64.7
Optical goods.	1,844	1,864	1,857	1,733	1,788	1,798	1,877	<i>1,586</i>	1,887	1,876	1,938	1,986	1,960	78.9
Paper and wood pulp.	3,393	3,342	<i>5,157</i>	3,297	3,183	3,218	3,336	3,416	3,393	3,671	3,658	3,648	3,597	88.5
Printing and publishing, book and job.	2,059	1,978	2,026	2,056	2,100	2,056	2,060	1,999	<i>1,007</i>	2,022	2,099	2,175	2,170	90.4
Printing and publishing, newspapers and periodicals.	838	815	829	845	826	832	828	817	<i>812</i>	853	872	871	856	93.1
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1,354	1,222	1,198	1,290	1,269	1,264	1,304	1,361	1,345	1,396	1,496	1,554	1,549	77.1
Silk goods, including throwsters.	3,668	<i>5,037</i>	3,040	3,124	3,344	3,570	3,710	3,832	3,995	4,053	4,038	4,074	4,149	73.2
Stationery goods, not elsewhere specified.	2,017	1,872	1,872	1,866	<i>1,857</i>	2,021	1,966	2,007	2,030	2,148	2,171	2,212	2,182	84.0
Suspenders, garters, and elastic woven goods.	2,012	1,862	<i>1,843</i>	1,844	1,895	1,883	1,929	2,040	2,044	2,100	2,208	2,261	2,235	81.5
Textile machinery and parts.	1,017	1,054	1,005	1,008	<i>955</i>	967	994	997	1,002	993	1,048	1,093	1,088	87.4
Tobacco, cigars and cigarettes.	787	812	858	853	668	758	765	<i>455</i>	598	867	913	947	982	46.3
Tools, not elsewhere specified.	853	889	883	954	905	881	853	821	780	795	803	840	832	81.8
Woolen goods.	5,341	4,478	<i>5,987</i>	4,134	4,899	5,361	5,776	5,970	6,048	6,166	5,898	5,927	5,468	64.3
Worsted goods.	16,558	18,894	<i>17,512</i>	12,951	13,344	15,228	18,033	18,882	18,733	19,336	18,343	18,676	19,984	56.7
Total for cities.	609,671	505,839	<i>578,499</i>	581,502	579,290	587,408	601,508	609,857	619,954	629,229	634,252	642,833	655,881	88.2
Males.	415,109	403,437	<i>393,246</i>	396,805	395,735	401,491	410,973	416,047	423,707	428,446	431,622	434,944	444,819	88.4
Females.	194,565	192,402	<i>185,253</i>	184,697	<i>183,555</i>	185,917	190,535	193,810	196,247	200,783	202,630	207,889	211,062	87.0
ADAMS.	3,974	3,889	3,866	3,893	4,027	4,022	4,027	4,004	<i>3,624</i>	4,079	4,078	4,094	4,185	84.2
Males.	2,472	2,345	2,345	2,402	2,496	2,493	2,493	2,488	<i>2,233</i>	2,558	2,549	2,577	2,648	84.5
Females.	1,502	1,544	1,521	1,491	1,531	1,529	1,502	1,516	<i>1,390</i>	1,521	1,529	1,517	1,537	83.3
AMESBURY.	3,173	3,246	3,283	3,294	<i>2,710</i>	2,875	2,896	2,990	3,244	3,241	3,335	3,397	3,565	76.0
Males.	2,734	2,837	2,839	2,802	<i>2,519</i>	2,465	2,482	2,552	2,809	2,777	2,854	2,933	3,079	75.3
Females.	439	409	444	432	<i>391</i>	410	414	438	435	464	481	464	486	80.5
ARLINGTON.	228	<i>208</i>	220	227	228	239	234	230	233	223	211	237	240	86.7
Males.	204	<i>186</i>	196	203	205	215	210	212	209	197	187	213	216	85.6
Females.	24	<i>22</i>	24	24	<i>23</i>	24	24	24	24	26	24	24	24	88.5
ATTLEBORO.	6,763	<i>5,842</i>	5,988	6,142	6,292	6,496	6,638	6,887	6,907	7,189	7,399	7,567	7,719	75.7
Males.	4,940	<i>4,268</i>	4,380	4,445	4,555	4,719	4,846	5,045	5,132	5,288	5,446	5,596	5,682	75.4
Females.	1,817	<i>1,574</i>	1,608	1,697	1,737	1,777	1,792	1,842	1,805	1,901	1,953	2,001	2,037	76.5
BELMONT.	93	104	<i>52</i>	58	97	102	103	97	98	90	98	102	106	49.1
Males.	82	94	<i>42</i>	47	87	92	90	80	85	89	88	91	93	44.7
Females.	11	10	10	11	10	10	13	11	13	10	10	11	13	76.9
BEVERLY.	6,405	5,654	5,794	<i>5,615</i>	5,699	5,772	6,305	6,582	6,850	6,947	7,312	7,644	7,769	72.3
Males.	5,333	4,349	4,491	<i>4,374</i>	4,512	4,700	5,227	5,474	5,700	5,888	6,203	6,482	6,641	66.5
Females.	1,162	1,305	1,303	1,241	1,187	1,072	1,078	1,108	1,090	1,059	1,109	1,162	1,228	81.6
BOSTON.	88,759	86,708	88,327	88,442	87,560	87,628	<i>85,280</i>	85,413	86,843	90,968	92,087	93,290	93,522	91.1
Males.	58,974	58,184	58,388	58,384	58,120	57,522	<i>55,374</i>	57,466	58,078	59,794	61,279	61,920	61,920	92.6
Females.	29,785	28,524	29,939	30,058	29,440	29,254	<i>27,898</i>	27,947	28,765	30,334	31,648	32,011	31,602	87.2
BRAINTREE.	2,176	2,085	2,114	2,152	<i>2,017</i>	2,110	2,088	2,162	2,280	2,242	2,200	2,270	2,386	84.5
Males.	1,521	1,490	1,487	1,526	<i>1,456</i>	1,502	1,442	1,530	1,572	1,556	1,521	1,553	1,617	80.2
Females.	655	595	627	626	<i>561</i>	608	646	632	708	686	679	723	769	73.0
BROCKTON.	18,059	<i>17,156</i>	17,765	17,599	17,752	17,331	17,924	18,336	18,784	18,117	18,373	18,635	18,936	90.6
Males.	12,210	<i>11,687</i>	11,966	11,890	11,991	11,763	12,163	12,404	12,784	12,238	12,480	12,609	12,789	90.6
Females.	5,849	<i>5,469</i>	5,799	5,709	5,761	5,578	5,761	5,932	6,134	5,879	5,893	6,026	6,147	90.6
BROOKLINE.	484	822	782	559	430	364	<i>360</i>	367	372	387	435	446	486	43.8
Males.	280	270	269	274	257	260	<i>250</i>	249	249	252	256	261	273	19.9
Females.	204	552	513	285	173	104	<i>110</i>	118	123	135	179	183	213	80.8
CAMBRIDGE.	22,550	21,782	21,132	21,123	<i>21,088</i>	21,569	21,641	22,288	22,998	23,489	24,011	24,781	24,758	84.9
Males.	15,227	14,419	<i>14,048</i>	14,163	14,084	14,524	14,579	15,133	15,750	16,173	16,356	16,844	16,553	83.4
Females.	7,323	7,363	7,084	6,960	<i>6,964</i>	7,045	7,062	7,155	7,238	7,316	7,655	7,937	8,205	85.8
CHELSEA.	6,580	6,615	6,408	6,435	6,321	<i>6,242</i>	6,483	6,559	6,919	6,641	6,630	6,783	6,911	90.3
Males.	4,693	4,680	4,516	4,569	4,460	<i>4,415</i>	4,550	4,621	4,954	4,797	4,822	4,915	5,011	83.1
Females.	1,887	1,935	1,892	1,866	1,855	<i>1,824</i>	1,933	1,938	1,965	1,844	1,808	1,868	1,900	92.3
CHICOPEE.	10,068	9,980	9,736	9,913	9,961	9,029	<i>9,634</i>	9,696	9,640	9,980	10,451	10,813	11,043	87.2
Males.	7,809	7,709	7,516	7,653	7,806	7,826	<i>7,446</i>	7,418	7,399	7,640	8,114	8,405	8,778	84.3
Females.	2,259	2,271	2,220	2,260	<i>2,155</i>	2,203	2,188	2,278	2,241	2,340	2,337	2,408	2,265	88.5
CLINTON.	4,155	3,902	<i>3,847</i>	3,866	3,934	4,039	4,247	4,283	4,342	4,334	4,265	4,360	4,441	86.6
Males.	2,543	2,397	<i>2,386</i>	2,395	2,419	2,477	2,600	2,606	2,638	2,623	2,681	2,649	2,670	89.7
Females.	1,612	1,505	<i>1,461</i>	1,471	1,515	1,562	1,581	1,677	1,704	1,711	1,684	1,711	1,771	82.0
DANVERS.	1,474	1,513	1,515	1,474	1,442	1,487	1,487	1,482	1,475	1,460	1,457	1,472	1,472	94.4
Males.	993	1,029	1,016	984	<i>966</i>	966	995	990	997	979	974	1,010	1,021	92.9
Females.	481	484	499	490	476	474	492	483	478	481	483	461	451	90.4
DEDHAM.	403	<i>372</i>	376	387	399	427	462	503	542	532	507	514	535	68.6
Males.	286	<i>253</i>	247	251	<i>243</i>	265	282	297	327	327	305	309	326	74.3
Females.	177	<i>119</i>	129	136	156	162	180	206	215	205	202	205	209	65.3
EASTHAMPTON.	4,142	<i>3,918</i>	3,968	4,036	4,041	4,060	4,126	4,211	4,235	4,221	4,253	4,276	4,359	89.9
Males.	2,528	<i>2,357</i>	2,400	2,479	2,487	2,497	2,526	2,555	2,602	2,558	2,633	2,684	2,688	88.7
Females.	1,614	<i>1,561</i>	1,568	1,557	<i>1,554</i>	1,563	1,600	1,656	1,633	1,663	1,620	1,692	1,701	91.4

MANUFACTURES—MASSACHUSETTS.

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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.	
EVERETT.....	4,523	4,536	4,373	4,276	4,155	<i>4,147</i>	4,211	4,509	4,661	4,763	4,874	4,830	4,961	83.6
Males.....	3,854	3,850	3,725	3,636	3,500	<i>3,552</i>	3,606	3,827	3,937	4,042	4,161	4,112	4,240	83.8
Females.....	669	686	648	640	655	<i>695</i>	605	682	714	711	713	718	721	82.5
FALL RIVER.....	37,015	36,958	36,280	<i>55,000</i>	36,288	36,825	36,915	37,145	37,073	37,460	37,415	38,065	37,847	94.3
Males.....	20,374	20,269	19,857	<i>16,759</i>	19,879	20,211	20,287	20,382	20,385	20,695	20,679	21,093	21,012	93.0
Females.....	16,641	16,689	16,423	<i>16,170</i>	16,409	16,614	16,628	16,763	16,688	16,765	16,736	16,972	16,835	95.3
FITCHBURG.....	9,907	10,107	9,826	<i>9,409</i>	9,733	9,843	9,813	9,740	9,781	9,918	9,957	10,223	10,534	80.3
Males.....	6,911	7,218	6,977	<i>6,735</i>	6,918	6,925	6,832	6,679	6,708	6,808	6,858	7,021	7,253	92.1
Females.....	2,996	2,889	2,849	<i>2,674</i>	2,815	2,918	2,981	3,061	3,073	3,110	3,099	3,202	3,281	81.5
FRAMMINGHAM.....	4,362	<i>5,649</i>	3,591	3,738	3,789	3,896	4,110	4,292	4,600	4,821	5,102	5,239	5,557	63.0
Males.....	2,814	<i>2,169</i>	2,224	2,337	2,380	2,531	2,638	2,709	3,045	3,207	3,406	3,591	3,621	50.9
Females.....	1,548	1,380	1,367	1,401	1,409	1,365	1,472	1,583	1,515	1,614	1,696	1,738	1,936	70.5
GARDNER.....	4,036	3,713	3,641	3,639	<i>5,058</i>	3,662	3,846	4,020	4,185	4,319	4,451	4,595	4,723	77.0
Males.....	3,289	3,087	3,040	3,026	<i>2,896</i>	3,000	3,159	3,230	3,363	3,486	3,585	3,695	3,801	75.8
Females.....	747	626	601	613	642	662	687	790	822	833	866	900	922	65.2
GLOUCESTER.....	2,684	2,731	2,642	2,600	<i>2,531</i>	2,589	2,667	2,674	2,551	2,701	2,670	2,823	3,023	83.7
Males.....	1,967	2,074	1,983	1,911	1,842	1,887	1,975	1,984	1,796	1,957	1,927	2,086	2,182	92.3
Females.....	717	657	659	689	689	702	692	690	755	744	743	737	841	78.1
GREENFIELD.....	2,750	2,782	2,722	2,693	2,610	2,583	2,592	<i>2,569</i>	2,600	2,701	2,910	3,113	3,125	82.2
Males.....	2,259	2,265	2,201	2,182	2,153	2,129	2,137	<i>2,113</i>	2,134	2,207	2,404	2,581	2,602	81.2
Females.....	491	517	521	511	457	454	455	456	466	494	506	532	523	85.3
HAVERHILL.....	15,783	15,454	15,229	15,795	15,499	15,101	14,963	<i>14,198</i>	14,771	15,845	16,923	17,529	18,089	78.5
Males.....	10,314	9,942	9,844	10,335	10,236	9,895	9,941	<i>9,449</i>	9,775	10,487	10,829	11,346	11,689	80.8
Females.....	5,469	5,512	5,385	5,460	5,263	5,206	5,022	<i>4,749</i>	4,996	5,358	6,094	6,183	6,400	74.2
HOLYOKE.....	17,773	17,481	<i>16,685</i>	16,959	16,872	17,120	17,594	17,899	17,930	18,418	18,567	18,829	18,922	88.2
Males.....	10,234	10,178	<i>9,558</i>	9,781	9,723	9,713	10,045	10,210	10,335	10,589	10,768	10,891	10,987	87.3
Females.....	7,539	7,303	<i>7,097</i>	7,178	7,149	7,407	7,549	7,689	7,595	7,829	7,790	7,938	7,935	89.4
LAWRENCE.....	30,319	28,380	<i>18,269</i>	22,491	22,229	25,967	34,144	35,074	35,532	36,078	33,583	34,398	37,083	49.3
Males.....	18,636	18,093	<i>11,287</i>	13,871	13,790	16,151	20,887	21,846	21,783	21,970	20,978	20,978	22,489	50.2
Females.....	11,683	10,287	<i>6,982</i>	8,620	8,439	9,816	13,257	13,228	13,749	14,108	13,096	13,420	14,594	47.8
LEOMINSTER.....	5,793	<i>5,307</i>	5,447	5,622	5,678	5,731	5,768	5,697	5,712	5,889	5,995	6,190	6,480	81.9
Males.....	3,715	<i>3,906</i>	3,402	3,543	3,642	3,719	3,731	3,719	3,731	3,809	3,978	4,158	4,158	79.5
Females.....	2,078	2,001	2,045	2,079	2,036	2,037	2,001	1,978	1,981	2,080	2,104	2,212	2,322	85.2
LOWELL.....	30,111	<i>34,851</i>	20,736	<i>27,896</i>	27,949	28,304	29,718	29,868	29,772	30,658	31,202	30,486	30,892	80.0
Males.....	17,024	<i>18,339</i>	16,730	<i>16,864</i>	16,830	16,151	17,037	17,137	17,214	17,674	17,919	17,910	17,438	80.3
Females.....	13,087	<i>16,512</i>	13,203	<i>12,032</i>	12,119	12,153	12,681	12,731	12,558	12,984	13,283	13,334	13,454	72.9
LYNN.....	27,355	26,058	26,310	25,887	<i>25,551</i>	25,592	26,322	27,080	28,095	28,546	28,882	29,462	30,409	84.0
Males.....	10,042	18,002	18,306	17,958	<i>17,068</i>	17,998	18,387	18,998	19,482	19,680	20,191	20,350	21,292	83.8
Females.....	8,313	8,056	8,077	8,040	<i>7,673</i>	7,594	7,935	8,082	8,613	8,866	8,691	9,112	9,117	83.1
MALDEN.....	4,723	4,066	5,027	4,830	4,520	4,449	<i>4,558</i>	4,450	4,496	4,560	4,820	5,033	5,169	83.0
Males.....	2,633	2,747	2,730	2,658	2,482	2,446	<i>2,422</i>	2,404	2,515	2,545	2,712	2,845	2,991	81.0
Females.....	2,090	2,219	2,288	2,172	2,037	2,003	<i>1,916</i>	1,965	1,981	2,015	2,108	2,188	2,178	83.7
MARLBOROUGH.....	3,708	3,808	3,691	3,545	<i>5,408</i>	3,659	3,780	3,882	3,852	3,926	3,943	3,987	4,037	85.9
Males.....	2,510	2,482	2,432	2,382	<i>2,514</i>	2,493	2,407	2,502	2,548	2,624	2,604	2,670	2,628	88.1
Females.....	1,288	1,326	1,259	1,163	<i>1,162</i>	1,226	1,283	1,320	1,304	1,302	1,339	1,317	1,411	81.0
MEDFORD.....	1,031	<i>922</i>	958	997	1,028	981	952	997	989	1,020	1,085	1,182	1,260	73.2
Males.....	706	<i>629</i>	640	687	705	689	675	688	687	710	731	784	841	74.8
Females.....	325	293	312	310	323	292	277	309	302	310	355	398	419	66.1
MELROSE.....	1,608	<i>1,787</i>	1,785	1,734	1,574	1,550	1,477	<i>1,469</i>	1,465	1,480	1,567	1,672	1,722	81.0
Males.....	881	<i>881</i>	881	820	694	662	640	<i>611</i>	623	630	670	720	772	66.6
Females.....	886	870	904	914	880	888	837	848	842	850	897	952	950	87.9
METHUEN.....	2,571	2,588	<i>2,149</i>	2,301	2,346	2,457	2,574	2,649	2,664	2,722	2,772	2,800	2,830	75.9
Males.....	1,040	1,041	<i>842</i>	918	934	987	1,045	1,067	1,102	1,107	1,128	1,144	1,165	72.3
Females.....	1,531	1,547	<i>1,307</i>	1,383	1,412	1,470	1,529	1,582	1,562	1,615	1,644	1,656	1,665	78.5
MILFORD.....	1,809	1,812	1,781	1,828	1,740	1,671	1,690	1,684	1,733	1,772	1,900	1,995	2,132	78.4
Males.....	1,198	1,161	1,108	1,147	1,098	<i>1,094</i>	1,134	1,163	1,199	1,215	1,284	1,341	1,442	76.9
Females.....	611	651	673	681	642	577	556	521	534	557	616	654	690	77.0
NATICK.....	1,403	<i>1,196</i>	1,274	1,305	1,334	1,413	1,489	1,511	1,528	1,558	1,590	1,668	1,690	70.8
Males.....	1,099	<i>917</i>	975	980	1,001	1,050	1,102	1,115	1,183	1,171	1,185	1,200	1,293	70.0
Females.....	304	<i>279</i>	299	325	333	357	387	396	395	387	405	468	397	68.4
NEW BEDFORD.....	41,030	40,821	40,152	40,403	<i>39,852</i>	40,739	41,260	42,352	42,102	42,854	42,240	42,582	44,107	90.2
Males.....	24,773	24,074	23,009	23,757	<i>23,649</i>	24,108	24,470	25,255	25,239	25,629	25,530	25,492	26,498	88.0
Females.....	16,857	16,747	16,543	16,646	<i>16,503</i>	16,671	16,784	17,097	16,863	17,225	16,710	17,090	17,609	92.1
NEWBURYPORT.....	3,960	3,809	3,932	4,021	<i>4,044</i>	3,981	3,960	3,942	<i>3,848</i>	3,886	3,954	4,023	4,036	95.0
Males.....	2,460	2,398	<i>2,592</i>	2,450	2,498	2,511	2,463	2,454	2,418	2,462	2,451	2,511	2,512	95.2
Females.....	1,500	1,501	1,540	1,571	1,546	1,470	1,497	1,488	<i>1,424</i>	1,424	1,503	1,512	1,524	90.0
Newton.....	2,547	2,372	2,368	<i>2,319</i>	2,344	2,346	2,474	2,599	2,700	2,751	2,759	2,777	2,777	83.5
Males.....	1,729	1,651	1,639	<i>1,674</i>	1,600	1,603	1,671	1,742	1,819	1,831	1,849	1,854	1,885	83.5
Females.....	818	<i>721</i>	729	745	744	743	803	857	881	890	906	905	892	79.0
NORTH ADAMS.....	6,023	5,932	5,681	5,675	5,788	<i>5,451</i>	6,013	6,139	6,223	6,225	6,420	6,420	6,499	83.9
Males.....	4,020	3,964	3,768	3,789	3,845	<i>3,615</i>	3,993	4,068	4,158	4,166	4,173	4,331	4,370	82.7
Females.....	2,003	1,968	1,913	1,886	1,943	<i>1,836</i>	2,020	2,071	2,065	2,059	2,057	2,089	2,129	86.2

MANUFACTURES—MASSACHUSETTS.

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.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
NORTHAMPTON.....	3,532	<i>3,274</i>	3,350	3,343	3,389	3,496	3,400	3,587	3,655	3,604	3,732	3,757	3,797	86.2
Males.....	2,231	<i>2,068</i>	2,109	2,101	2,140	2,214	2,147	2,281	2,348	2,303	2,346	2,358	2,357	87.7
Females.....	1,301	<i>1,206</i>	1,241	1,242	1,249	1,182	1,253	1,306	1,307	1,301	1,386	1,399	1,440	83.8
NORTHBRIDGE.....	3,871	3,713	3,711	<i>3,603</i>	3,613	3,650	3,780	3,917	3,927	3,977	4,094	4,208	4,259	84.6
Males.....	3,273	3,054	3,091	<i>3,039</i>	3,054	3,101	3,207	3,361	3,345	3,394	3,470	3,550	3,610	84.2
Females.....	598	659	620	564	559	549	573	556	582	583	624	658	649	83.8
NORWOOD.....	2,835	<i>2,512</i>	2,565	2,575	2,616	2,670	2,711	2,865	3,020	3,080	3,113	3,134	3,159	79.5
Males.....	2,250	<i>2,014</i>	2,048	2,081	2,093	2,111	2,138	2,271	2,371	2,449	2,465	2,469	2,490	80.9
Females.....	585	498	517	494	523	559	573	594	649	631	648	665	669	73.8
PEABODY.....	8,013	7,303	7,497	7,488	7,395	7,707	8,011	8,050	8,468	8,559	8,212	8,664	8,801	83.0
Males.....	7,206	<i>6,511</i>	6,699	6,692	6,611	6,907	7,171	7,224	7,643	7,740	7,587	7,764	7,923	82.2
Females.....	807	792	798	796	785	800	840	826	825	819	626	900	878	69.4
PITTSFIELD.....	8,570	<i>6,760</i>	7,618	7,609	8,069	8,367	8,312	8,568	8,819	9,128	9,442	9,834	10,258	65.9
Males.....	6,330	<i>6,072</i>	5,772	5,766	6,065	6,170	6,158	6,349	6,469	6,621	6,822	7,174	7,522	67.4
Females.....	2,240	<i>1,688</i>	1,846	1,903	2,004	2,197	2,154	2,219	2,350	2,507	2,620	2,660	2,736	61.5
PLYMOUTH.....	2,971	<i>2,515</i>	2,562	2,907	2,887	2,854	2,904	3,135	3,105	3,136	3,075	3,107	3,225	78.0
Males.....	2,315	<i>1,910</i>	2,025	2,305	2,288	2,209	2,336	2,412	2,443	2,412	2,443	2,402	2,464	79.0
Females.....	656	605	537	602	599	645	568	723	717	724	632	705	761	70.6
QUINCY.....	19,653	21,143	21,755	<i>22,979</i>	22,048	22,128	21,605	21,162	20,162	18,611	17,050	14,518	<i>12,606</i>	55.1
Males.....	19,122	20,678	21,292	<i>22,492</i>	21,533	21,626	21,058	20,625	19,599	18,071	16,488	13,922	<i>12,080</i>	53.7
Females.....	531	465	463	487	515	502	547	537	563	540	571	596	526	77.7
REVERE.....	126	127	128	112	89	101	121	133	134	136	124	148	161	55.3
Males.....	111	117	116	100	77	85	99	121	112	118	112	136	139	55.4
Females.....	15	10	10	12	12	16	22	12	22	18	12	12	22	45.5
SALEM.....	5,672	5,575	5,494	5,250	5,242	4,894	5,479	5,806	6,102	6,162	5,147	6,390	6,523	75.0
Males.....	3,521	3,436	3,382	3,229	3,264	3,043	3,380	3,553	3,740	3,782	3,440	3,940	4,064	74.9
Females.....	2,151	2,140	2,112	2,021	1,978	1,851	2,099	2,253	2,362	2,380	1,707	2,450	2,459	66.4
SAUGUS.....	126	87	90	81	60	89	92	135	130	150	187	193	182	34.2
Males.....	97	67	60	59	40	63	65	102	125	120	155	162	151	27.8
Females.....	29	30	30	22	21	26	27	33	35	30	32	31	31	60.0
SOMERVILLE.....	6,111	6,833	6,853	6,783	6,338	6,249	6,381	6,517	6,342	6,132	5,635	3,764	5,505	64.9
Males.....	5,614	6,290	6,358	6,276	5,841	5,774	5,902	6,021	5,877	5,655	5,132	3,764	5,505	61.7
Females.....	497	543	495	507	497	475	479	496	465	477	503	478	549	84.7
SOUTHBURGE.....	5,329	5,117	5,207	4,935	5,022	5,072	5,409	5,181	5,069	5,070	5,433	5,618	5,675	87.0
Males.....	3,147	2,995	3,075	2,925	2,967	3,019	3,179	3,062	3,300	3,331	3,305	3,305	3,368	86.8
Females.....	2,182	2,122	2,132	2,010	2,055	2,053	2,230	2,119	2,309	2,339	2,195	2,313	2,307	85.9
SPRINGFIELD.....	18,429	<i>16,469</i>	15,609	16,102	17,639	18,011	18,482	19,029	19,483	19,338	20,190	20,723	21,083	73.3
Males.....	13,548	<i>11,609</i>	11,783	12,250	12,943	13,210	13,595	14,063	14,378	13,993	14,511	14,596	15,339	75.7
Females.....	4,881	3,850	3,826	3,852	4,696	4,795	4,887	4,966	5,105	5,345	5,679	6,227	5,744	63.7
TAUNTON.....	8,981	8,799	8,521	8,521	8,034	8,645	8,811	9,165	9,302	9,206	9,325	9,385	9,365	90.8
Males.....	6,500	6,303	6,040	6,066	6,200	6,260	6,370	6,620	6,819	6,782	6,880	6,827	6,858	87.8
Females.....	2,481	2,496	2,481	2,455	2,434	2,385	2,441	2,545	2,483	2,514	2,492	2,505	2,508	93.7
WAKEFIELD.....	1,869	1,867	1,805	1,710	1,666	1,784	1,784	1,863	1,882	1,910	2,000	2,046	2,128	78.4
Males.....	1,152	1,062	1,048	1,038	1,040	1,094	1,114	1,190	1,182	1,182	1,236	1,290	1,348	77.0
Females.....	717	805	757	672	626	675	670	673	700	728	764	756	778	77.8
WALTHAM.....	8,069	7,563	7,583	7,430	7,551	7,735	7,743	8,066	8,283	8,525	8,650	8,790	8,806	83.4
Males.....	5,061	4,562	4,627	4,479	4,641	4,750	4,802	5,052	5,260	5,437	5,670	5,777	5,789	77.4
Females.....	3,008	3,001	2,956	2,951	2,910	2,979	2,941	3,014	3,033	3,088	3,080	3,113	3,120	91.4
WATERTOWN.....	8,420	8,770	8,741	8,270	8,119	7,854	7,780	8,032	8,189	8,095	8,570	9,241	9,439	81.8
Males.....	5,455	5,412	5,432	5,252	5,237	5,208	5,225	5,351	5,384	5,316	5,573	5,991	6,079	85.7
Females.....	2,965	3,358	3,309	3,018	2,882	2,646	2,495	2,681	2,805	2,779	2,997	3,250	3,360	74.3
WEBSTER.....	3,849	3,473	3,362	3,288	3,542	3,714	3,837	4,074	4,137	4,245	4,345	4,030	4,143	75.6
Males.....	2,581	2,249	2,175	2,120	2,328	2,455	2,591	2,755	2,800	2,903	2,971	2,768	2,857	71.4
Females.....	1,268	1,224	1,187	1,168	1,214	1,259	1,246	1,319	1,337	1,342	1,374	1,262	1,286	84.9
WESTFIELD.....	3,243	3,048	3,060	3,132	3,118	3,169	3,018	2,982	3,245	3,406	3,535	3,607	3,701	78.7
Males.....	2,528	2,351	2,360	2,467	2,470	2,515	2,247	2,274	2,523	2,646	2,750	2,815	2,918	77.0
Females.....	715	697	700	665	648	654	666	708	722	760	785	792	783	81.8
WEST SPRINGFIELD.....	2,791	2,502	<i>2,426</i>	2,645	2,460	2,562	2,790	2,950	2,785	2,977	3,051	3,164	3,171	76.5
Males.....	2,487	2,200	<i>2,188</i>	2,353	2,244	2,492	2,704	2,627	2,496	2,636	2,729	2,794	2,827	77.2
Females.....	304	302	244	292	216	268	286	323	289	341	322	370	344	66.8
WEYMOUTH.....	2,146	<i>1,977</i>	2,024	2,039	2,011	2,056	2,101	2,271	2,298	2,251	2,170	2,266	2,288	86.0
Males.....	1,453	<i>1,346</i>	1,366	1,391	1,385	1,380	1,417	1,501	1,529	1,497	1,479	1,560	1,586	84.8
Females.....	693	632	658	648	626	676	684	770	769	754	691	706	702	81.3
WINCHESTER.....	1,112	1,021	<i>1,009</i>	1,039	1,040	1,117	1,156	1,085	1,184	1,161	1,155	1,177	1,198	84.2
Males.....	990	902	<i>893</i>	916	930	997	1,034	959	1,061	1,041	1,030	1,043	1,069	83.5
Females.....	122	119	116	123	110	120	122	126	123	122	125	129	129	85.3
WINTHROP.....	61	<i>59</i>	<i>59</i>	<i>59</i>	<i>59</i>	<i>59</i>	<i>59</i>	62	64	61	62	64	64	92.2
Males.....	30	<i>28</i>	<i>28</i>	<i>29</i>	<i>29</i>	<i>29</i>	<i>29</i>	32	31	31	31	31	31	87.5
Females.....	31	31	31	30	30	30	30	30	33	30	31	33	33	90.9
WOBBURN.....	2,011	1,824	1,804	1,780	1,688	1,878	2,034	2,054	2,120	2,182	2,104	2,242	2,323	72.7
Males.....	1,719	1,592	1,554	1,524	1,437	1,616	1,730	1,725	1,793	1,864	1,878	1,914	2,003	71.7
Females.....	292	232	250	256	251	262	304	329	326	318	318	328	320	69.0
WORCESTER.....	38,673	38,716	38,857	36,581	36,484	36,768	37,237	36,004	39,137	39,325	41,250	42,196	43,436	83.1
Males.....	30,249	30,369	30,181	28,895	28,787	28,745	28,979	27,889	30,506	30,722	32,165	32,850	33,810	82.2
Females.....	8,424	8,357	7,676	7,686	7,697	8,018	8,258	8,205	8,631	8,603	9,085	9,346	9,626	80.6

MANUFACTURES—MASSACHUSETTS.

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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.

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	713,836	54,454	38,904	436,806	109,036	40,902	27,012	5,655	1,067
	1914	606,698	(²)	(²)	49,358	68,221	340,219	123,488	21,614	3,798
	1909	584,569	(²)	(²)	20,484	28,555	103,114	380,223	35,887	7,296
Ammunition ²	1919	2,440			2,304	110			35	
Automobile bodies and parts.....	1919	3,541	114	138	1,192	1,992	82	3		20
	1914	1,341	(²)	(²)	13	363	910	17	38	
Belting and hose, rubber ²	1919	2,441			2,118	323				
Bookbinding and blank-book making.....	1919	2,936	445	37	2,321	6	113		14	
	1914	3,317	(²)	(²)	2,185	315	300	517		
Boot and shoe out stock.....	1919	4,631	130	1,152	1,934	1,142	228	47		
	1914	3,781	(²)	(²)	80	1,109	1,438	1,037	117	
Boot and shoe findings.....	1919	5,896	269	1,134	2,619	1,234	226	130	284	
	1914	4,389	(²)	(²)	314	371	2,025	1,575	104	
Boots and shoes, not including rubber boots and shoes.....	1919	80,166	4,326	23,955	40,506	8,086	3,137	156		
	1914	70,944	(²)	(²)	1,089	12,224	42,064	21,292	275	
Boots and shoes, rubber.....	1919	13,062			13,050	6				
	1914	8,087					8,087			
Boxes, paper and other, not elsewhere specified.....	1919	4,711	339	561	2,780	965	66			
	1914	4,244	(²)	(²)	106	1,347	2,103	555	123	
Boxes, wooden packing, except cigar boxes.....	1919	3,232	1	70	594	2,009	248	310		
	1914	2,995	(²)	(²)	20	624	936	1,333	77	
Brass, bronze, and copper products.....	1919	2,832	100	50	909	1,112	42	610	9	
	1914	1,620	(²)	(²)	3	111	453	470	583	
Bread and other bakery products.....	1919	8,583	139	663	5,009	529	1,689	176	251	37
	1914	8,083	(²)	(²)	614	182	3,889	1,969	1,286	143
Carpets and rugs, other than rag.....	1919	3,134	32		2,525	577				
	1914	5,319				103	5,046	170		
Cars and general shop construction and repairs by steam-railroad companies.....	1919	7,724			7,724					
	1914	6,264				4,039	2,225			
Chemicals.....	1919	2,483	1	4	838	1,430	74	117	19	
	1914	1,395	(²)	(²)	17	10	535	811	11	11
Chocolate and cocoa products.....	1919	2,067			1,900		167			
	1914	943	(²)	(²)	1	312	562	38		
Clothing, men's.....	1919	6,856	4,127	99	2,206	406	15		3	
	1914	5,760	(²)	(²)	634	2,835	2,223	60	8	
Clothing, women's.....	1919	6,271	3,549	280	2,336	88	12			
	1914	6,076	(²)	(²)	379	3,583	2,100	9		
Confectionery and ice cream.....	1919	11,585	271	2,941	7,211	692	406	13	23	23
	1914	7,250	(²)	(²)	1,040	3,374	1,222	240	235	33
Cordage and twine ²	1919	2,743			933	12	1,798			
Cotton goods.....	1919	122,499	303	10	109,869	3,174	7,750	1,943		
	1914	112,609	(²)	(²)	1,061	793	109,662	1,103		
Cutlery and edge tools.....	1919	3,988	7	14	2,019	1,054	428	482	34	
	1914	1,947	(²)	(²)	170	1,085	413	279		
Dyeing and finishing textiles, exclusive of that done in textile mills.....	1919	12,321	136		8,559	877	1,540	1,013	43	103
	1914	11,437	(²)	(²)	19	157	5,573	5,610	144	34
Electrical machinery, apparatus, and supplies.....	1919	23,889	250	878	19,389	3,060	112	39	170	
	1914	17,125	(²)	(²)	637	2,205	10,519	3,763	1	
Emery and other abrasive wheels.....	1919	2,443	2	4	81	2,302		54		
	1914	902					28	857	10	
Firearms.....	1919	2,253	1		691		712	849		
	1914	2,161					470	1,068	623	
Foundry and machine-shop products ⁴	1919	51,680	5,252	450	15,232	20,989	3,783	5,926	48	
	1914	32,687	(²)	(²)	536	7,536	10,232	13,690	643	
Furniture.....	1919	6,342	728	63	1,202	3,839	102	334	14	
	1914	6,813	(²)	(²)	612	882	577	2,832	1,910	
Gas, illuminating and heating.....	1919	2,654	1		633	42	16	1,954		8
	1914	3,182	(²)	(²)	329		22	749	437	1,645
Iron and steel, steel works and rolling mills.....	1919	3,684	9	417	340	36	59	417	2,376	
	1914	2,889	(²)	(²)	16	55	267	368	2,194	
Iron and steel, forgings, not made in steel works or rolling mills.....	1919	2,172			1,042	1,004	105	21		
	1914	683				47	419	217		
Jewelry.....	1919	6,786	239	6	4,114	1,733	275	419		
	1914	6,505	(²)	(²)	334	451	1,453	4,267		
Knit goods.....	1919	12,751	25	14	12,292	60	235	124		
	1914	10,635	(²)	(²)	9	496	9,702	409	19	

¹ Includes 48 and under for 1914 and 1909.
² Corresponding figures not available.

³ Not shown separately in 1914.

⁴ Includes "iron and steel, tempering and welding"; "machine tools"; and "textile machinery and parts."

MANUFACTURES—MASSACHUSETTS.

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.
Leather, tanned, curried, and finished.....	1919 1914	15,180 10,164	288 (²)	63 (²)	11,240 244	2,829 283	298 4,071	462 5,043	523	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	2,245 3,423	601 (²)	1 (²)	944 893	444 1,363	96 754	159 233	175	.....
Motorcycles, bicycles, and parts.....	1919 1914	3,000 2,135	.....	.....	2,220	45 1	572 573	163 1,561	.....	.....
Musical instruments, pianos.....	1919 1914	2,228 2,352	171 (²)	..... (²)	1,367 240	690 448	1,567	97	.....	.....
Optical goods.....	1919 1914	4,082 2,356	9 (²)	62 (²)	3,880 4	107 18	4 2,050	20 279	5	.....
Paper and wood pulp.....	1919 1914	12,960 13,401	2,453 (²)	..... (²)	7,533 5,171	2,263 1,705	3,149	74 2,006	359 620	278 760
Printing and publishing, book and job.....	1919 1914	7,634 7,062	370 (²)	104 (²)	6,485 5,570	601 967	54 452	13 73	7	.....
Printing and publishing, newspapers and periodicals.....	1919 1914	5,885 6,032	1,408 (²)	138 (²)	4,155 5,116	107 363	62 512	6 45	9 6	.....
Pumps, steam.....	1919 1914	2,280 1,194	.....	.....	1,370	828	.....	82 548	.....	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1919 1914	9,406 4,743	6 (²)	190 (²)	3,519	5,214 246	225 143	252 4,348	6	.....
Silk goods, including throwsters.....	1919 1914	5,697 4,485	..... (²)	205 (²)	2,915 330	2,567 22	4,123	10	.....	20
Slaughtering and meat packing.....	1919 1914	4,307 3,233	409 (²)	..... (²)	3,832 42	36 28	27 995	..... 967	3 1,201	.....
Stationery goods, not elsewhere specified.....	1919 1914	3,305 2,467	10 (²)	3 (²)	3,172 430	120 151	1,088	798	.....	.....
Steam fittings and steam and hot-water heating apparatus.....	1919 1914	3,521 3,175	24 (²)	..... (²)	1,956 219	1,541 203	549	1,118	1,086	.....
Suspenders, garters, and elastic woven goods.....	1919 1914	2,965 2,928	44 (²)	457 (²)	2,120 547	85 592	126 703	..... 1,086	133	.....
Tobacco, cigars and cigarettes.....	1919 1914	2,946 3,895	1,155 (²)	860 (²)	855 3,698	..... 46	76 151	.....	.....	.....
Tools, not elsewhere specified.....	1919 1914	7,226 4,538	52 (²)	461 (²)	561 89	2,410 417	1,849 1,149	1,892 2,859	1 24	.....
Wire.....	1919 1914	5,203 2,899	.....	.....	.....	493	.....	4,710 870	2,029	.....
Woolen goods.....	1919 1914	17,568 13,844	215 (²)	6 (²)	15,114 50	594 193	1,596 7,771	43 4,752	1,078	.....
Worsted goods.....	1919 1914	36,296 39,533	.....	.....	33,436	931 1,411	1,437 35,133	250 2,473	516	242
All other industries.....	1919 1914	129,187 115,446	26,333 (²)	3,408 (²)	53,533 15,852	28,242 14,655	11,031 49,167	4,384 29,112	1,820 5,498	356 1,162
Total for cities.....	1919 1914	609,671 506,397	51,228 (²)	38,231 (²)	374,402 41,618	92,850 64,930	30,674 284,492	10,746 95,955	5,061 16,179	429 3,223
ADAMS.....	1919 1914	3,974 3,930	1 (²)	..... (²)	3,760 13	74 3	89 3,507	..... 241	10 163	40 3
AMESBURY.....	1919 1914	3,173 1,451	1 (²)	25 (²)	241 80	2,532 7	327 1,340	47	11	13
ARLINGTON.....	1919 1914	228 246	7 (²)	..... (²)	46 85	130 14	13 97	32 50	.....	.....
ATTLEBORO.....	1919 1914	6,763 6,058	44 (²)	10 (²)	4,260 28	2,030 89	118 1,821	290 3,062	143	5 15
BELMONT.....	1919	93	16	.....	55	22	.....	.....	.....	.....
BEVERLY.....	1919 1914	6,495 4,641	4,656 (²)	1,442 (²)	111 21	250 3,129	36 846	527	118	.....
BOSTON.....	1919 1914	88,759 78,894	15,132 (²)	7,934 (²)	46,861 18,662	13,398 30,167	3,457 21,962	534 6,881	1,422 738	21 464
BRAINTREE.....	1919	2,176	12	1	849	41	1,254	19	.....	.....
BROCKTON.....	1919 1914	18,059 10,246	106 (²)	3,002 (²)	13,801 586	906 478	174 14,862	47 306	23 14	.....
BROOKLINE.....	1919 1914	484 335	22 (²)	188 (²)	217 35	48 241	4 59	.....	5	.....
CAMBRIDGE.....	1919 1914	22,550 10,749	2,175 (²)	1,900 (²)	12,296 3,430	4,523 2,880	1,107 8,924	410 692	127 570	12 253
CHELSEA.....	1919 1914	6,580 6,241	112 (²)	..... (²)	3,364 1,000	2,623 2,203	458 1,962	22 884	189	1 3

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

MANUFACTURES—MASSACHUSETTS.

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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.
CHICOPEE.....	1919	10,008	60	.....	2,185	5,027	2,779	.....	14	3
	1914	8,426	(²)	(²)	70	200	5,425	2,218	440	4
CLINTON.....	1919	4,155	1	2	3,424	88	15	624	1	.....
	1914	4,064	.....	.....	13	3,493	540	12	.....	6
DANVERS.....	1919	1,474	19	116	608	516	6	200	.....	.....
DEDHAM.....	1919	403	7	4	332	3	117	.....	.....	.....
	1914	266	(²)	(²)	14	8	11	221	2	.....
EASTHAMPTON.....	1919	4,142	5	.....	4,027	45	14	10	41	.....
EVERETT.....	1919	4,523	69	645	1,009	1,091	143	300	6	.....
	1914	3,226	(²)	(²)	147	432	1,500	469	24	645
FALL RIVER.....	1919	37,015	229	6	35,968	360	257	176	19	.....
	1914	36,834	(²)	(²)	535	559	33,203	2,207	310	20
FITCHBURG.....	1919	9,907	30	10	6,725	2,044	424	652	22	.....
	1914	8,837	(²)	(²)	1,257	672	5,473	635	718	82
FRAMINGHAM.....	1919	4,302	30	5	3,875	394	7	.....	51	.....
	1914	3,982	(²)	(²)	236	1,929	1,224	446	137	10
GARDNER.....	1919	4,036	10	.....	213	3,500	163	134	9	7
	1914	3,964	(²)	(²)	17	.....	547	1,720	1,676	4
GLOUCESTER.....	1919	2,684	12	58	463	1,860	236	25	30	.....
	1914	2,814	(²)	(²)	400	202	1,993	102	18	.....
GREENFIELD.....	1919	2,760	13	7	135	1,593	136	839	12	15
	1914	1,602	(²)	(²)	151	21	168	1,172	79	11
HAVERTHILL.....	1919	15,763	1,004	10,318	2,329	1,152	605	96	270	3
	1914	13,281	(²)	(²)	842	537	5,618	5,808	469	7
HOLYOKE.....	1919	17,773	2,270	10	10,810	4,589	80	2	.....	.....
	1914	17,493	(²)	(²)	2,079	1,140	9,561	3,044	430	30
LAWRENCE.....	1919	30,319	19	7	29,068	761	460	.....	4	.....
	1914	31,043	(²)	(²)	350	497	29,405	259	68	464
LEOMINSTER.....	1919	5,793	24	.....	1,385	3,995	202	97	.....	.....
	1914	4,929	(²)	(²)	5	343	2,110	2,244	221	.....
LOWELL.....	1919	30,111	242	115	27,800	1,186	370	190	9	103
	1914	29,904	(²)	(²)	584	1,074	25,114	1,996	50	186
LYNN.....	1919	27,855	1,400	10,456	12,081	2,832	130	486	11	.....
	1914	25,339	(²)	(²)	724	2,173	11,844	10,539	54	5
MALDEN.....	1919	4,723	453	46	3,485	201	390	144	3	1
	1914	2,850	(²)	(²)	186	524	1,898	82	1	159
MARLBOROUGH.....	1919	3,798	7	5	3,775	1	4	.....	6	.....
	1914	3,822	(²)	(²)	77	24	221	3,496	4	.....
MEDFORD.....	1919	1,031	28	12	845	127	19	.....	.....	.....
	1914	559	(²)	(²)	26	167	213	118	35	.....
MELROSE.....	1919	1,606	85	4	1,486	15	16	.....	.....	.....
	1914	962	(²)	(²)	16	142	776	28	.....	.....
METHUEN.....	1919	2,571	4	2	2,402	6	151	.....	6	.....
	1914	1,940	(²)	(²)	1	1	1,889	17	32	.....
MILFORD.....	1919	1,899	62	.....	1,537	20	182	8	.....	.....
	1914	1,749	(²)	(²)	246	209	1,042	224	22	6
NATICK.....	1919	1,463	306	17	1,048	80	5	7	.....	.....
	1914	1,347	(²)	(²)	124	75	971	153	19	.....
NEW BEDFORD.....	1919	41,630	69	26	32,763	4,108	3,872	408	348	36
	1914	33,343	(²)	(²)	635	249	30,286	1,701	370	102
NEWBURYPORT.....	1919	3,960	18	364	1,443	1,639	323	168	.....	.....
	1914	3,349	(²)	(²)	28	127	1,369	1,800	9	16
NEWTON.....	1919	2,547	70	11	1,528	885	25	5	23	.....
	1914	2,154	(²)	(²)	330	863	759	144	58	.....
NORTH ADAMS.....	1919	6,023	20	.....	5,291	74	428	201	.....	.....
	1914	5,288	(²)	(²)	1,165	489	1,309	2,250	37	29
NORTHAMPTON.....	1919	3,532	1	.....	2,526	718	247	28	.....	12
	1914	3,446	(²)	(²)	151	299	2,899	542	36	19
NORTHBRIDGE.....	1919	3,871	2	.....	1,279	2,584	6	.....	.....	.....
NORWOOD.....	1919	2,835	252	.....	2,455	104	17	7	.....	.....
PEABODY.....	1919	8,013	250	79	6,745	397	540	.....	2	.....
	1914	5,485	(²)	(²)	19	105	3,279	1,479	603	.....
PITTSFIELD.....	1919	8,570	10	.....	7,933	494	27	82	15	.....
	1914	7,490	(²)	(²)	223	31	1,295	5,832	104	.....
PLYMOUTH.....	1919	2,971	.....	.....	1,073	5	1,887	.....	.....	6
	1914	2,845	(²)	(²)	6	2	2,292	526	.....	19

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

MANUFACTURES—MASSACHUSETTS.

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.
QUINCY.....	1919	19,653	17,789	3	1,157	320	381		3	
	1914	5,783	(2)	(2)	1,244	3,364	1,125	30	14	
REVERE.....	1919	126	1	3	95	11	11		5	
	1914	80	(2)	(2)	11	1	55	13		
SALEM.....	1919	5,672	1,090	313	3,079	460	724			
	1914	5,294	(2)	(2)	128	701	2,807	1,383	275	
SAUGUS.....	1919	126	1	3	83	8	31			
SOMERVILLE.....	1919	6,111	459	106	3,728	1,267	264	232	34	21
	1914	5,429	(2)	(2)	351	1,032	1,625	1,254	1,167	
SOUTHBRIDGE.....	1919	5,329	3		3,441	535	1,310	35	5	
	1914	4,332	(2)	(2)	10		3,712	603	7	
SPRINGFIELD.....	1919	18,429	1,124	37	14,016	1,876	485	278	13	
	1914	14,240	(2)	(2)	1,710	1,955	5,381	4,379	500	249
TAUNTON.....	1919	8,981	66	41	5,313	1,831	731	921	76	2
	1914	7,371	(2)	(2)	212	257	4,741	2,025	37	99
WAKEFIELD.....	1919	1,869	5	247	1,427	190				
	1914	2,008	(2)	(2)	38	28	1,158	779	5	
WALTHAM.....	1919	8,069	285	286	6,418	548	478	44		10
	1914	6,405	(2)	(2)	70	90	1,483	4,806	16	
WATERTOWN.....	1919	8,420	2	2	8,012	302	42			
	1914	4,787	(2)	(2)	5	7	4,366	416	3	
WEBSTER.....	1919	3,849	8		2,736	550	548		7	
	1914	3,246	(2)	(2)	13	1,776	830	573	45	
WESTFIELD.....	1919	3,243	33	7	1,221	571	1,330	13		68
	1914	3,594	(2)	(2)	152	27	891	1,223	1,291	
WEST SPRINGFIELD.....	1919	2,791	193		2,508	63	12	15		
	1914	2,209	(2)	(2)	634	202	1,287	55	31	
WEYMOUTH.....	1919	2,146	61		1,658	160	267			
	1914	2,074	(2)	(2)	15	423	1,184	452		
WINCHESTER.....	1919	1,112	19		972	119			2	
	1914	1,048	(2)	(2)	166	53	28	792	9	
WINTHROP.....	1919	61	8		42	2	9			
	1914	16	(2)	(2)	3		5		8	
WOBURN.....	1919	2,011	154	44	1,231	522	42	14	4	
	1914	1,565	(2)	(2)	260	59	426	809	11	
WORCESTER.....	1919	38,673	529	306	10,167	13,784	2,705	8,712	2,458	12
	1914	29,452	(2)	(2)	1,392	1,659	11,307	10,098	4,710	280

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

MANUFACTURES—MASSACHUSETTS.

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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.....	11,906	713,836	1,086	4,670	11,497	2,080	30,753	1,410	40,214	791	50,400	680	108,715	293	102,010	169	114,094	118	244,045	
Ammunition.....	6	2,449																		
Automobile bodies and parts.....	88	2,541	3	34	77	27	338	9	293	7	496	5	738	2	676	1	923	1	2,304	
Belt and hose, rubber.....	3	2,441																		
Bookbinding and blank-book making.....	94	2,936	7	22	67	41	441	12	384	2	136	9	1,233	1	323	1	890	1	1,238	
Boot and shoe cut stock.....	182	4,631	4	55	160	67	730	32	1,014	14	1,014	8	1,105	2	602		675			
Boot and shoe findings.....	254	5,896	10	67	174	92	1,132	61	1,966	14	958	9	1,382	1	284					
Boots and shoes, not including rubber boots and shoes.....	493	80,100	6	48	136	62	783	93	3,205	80	6,715	103	17,074	57	20,097	26	17,202	9	14,864	
Boots and shoes, rubber.....	8	13,062														2	1,068	5	11,388	
Boxes, paper and other, not elsewhere specified.....	102	4,711																		
Boxes, wooden packing, except cigar boxes.....	75	3,232	3	16	47	14	179	23	780	9	671	9	1,223	1	332					
Brass, bronze, and copper products.....	72	2,832	2	29	83	23	204	11	842	2	170	1	151	2	600	2	1,222			
Bread and other bakery products.....	1,309	8,583	102	979	2,333	179	1,616	28	855	8	572	10	1,491	1	310	2	1,316	1		
Carpets and rugs, other than rag.....	10	3,134																		
Cars and general shop construction and repairs by steam-railroad companies.....	14	7,724																		
Chemicals.....	27	2,483	3	7	20	6	62	5	165	1	72	1	113	3	1,203	1	788			
Chocolate and cocoa products.....	6	2,007																		
Clothing, men's.....	207	6,856	6	56	154	80	952	42	1,431	11	776	6	930	5	1,861	1	752			
Clothing, women's.....	258	6,271	5	42	155	104	1,289	84	2,637	17	1,086	4	463	2	641					
Confectionery and ice cream.....	278	11,585	16	143	315	61	656	23	819	11	690	13	2,181	6	2,151	3	2,030	2	2,731	
Cordage and twine.....	13	2,743																		
Cotton goods.....	191	122,499																		
Cutlery and edge tools.....	51	3,988	1	13	34	21	238	3	106	3	217	7	963	2	507	49	34,065	42	70,279	
Dyeing and finishing textiles, exclusive of that done in textile mills.....	62	12,321																		
Electrical machinery, apparatus, and supplies.....	110	23,889	3	21	71	32	393	17	555	15	1,034	10	1,088	6	1,948	2	1,201	4	16,939	
Emery and other abrasive wheels.....	14	2,443																		
Firearms.....	5	2,253																		
Foundry and machine-shop products.....	574	27,712	17	172	449	162	1,959	101	3,218	65	4,385	39	5,899	14	4,000	2	1,554	2	5,588	
Furniture.....	161	6,342	5	49	143	45	592	33	1,060	10	1,328	6	902	2	589	1	644	1	1,084	
Gas, illuminating and heating.....	51	2,654	1	10	27	16	203	11	387	4	277	6	875	3	885					
Iron and steel, steel works and rolling mills.....	11	3,684																		
Iron and steel, forgings, not made in steel works or rolling mills.....	14	2,172																		
Jewelry.....	165	6,786	4	39	89	33	414	39	1,335	35	2,310	14	2,236	5	1,402					
Knit goods.....	77	12,751	3	13	43	12	149	13	483	12	809	13	1,982	5	1,716	4	2,209	2	5,270	
Leather, tanned, curried, and finished.....	131	15,180	1	10	25	32	431	37	1,203	20	1,533	22	3,354	3	938	4	2,560	2	5,136	
Lumber, planing-mill products, not including planing mills connected with saw-mills.....	146	2,245	3	55	140	59	699	20	647	8	586	1	173							
Machine tools.....	46	6,471																		
Motorcycles, bicycles, and parts.....	8	3,000																		
Musical instruments, pianos.....	14	2,228																		
Optical goods.....	29	4,082																		
Paper and wood pulp.....	78	12,960																		
Printing and publishing, book and job.....	708	7,634	172	382	876	148	1,605	45	1,394	11	778	7	1,105							
Printing and publishing, newspapers and periodicals.....	412	5,835	171	117	324	70	823	23	770	14	982	5	776	5	1,690	1	531			
Pumps, steam.....	7	2,280																		
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	47	9,406	1	5	14	7	96	9	289	10	721	10	1,365	2	823	1	571	2	5,527	
Silk goods, including throwsters.....	21	5,697																		
Slaughtering and meat packing.....	40	4,307	3	10	37	8	88	3	108	1	74	1	153	3	1,008					
Stationery goods, not elsewhere specified.....	30	3,305	2	8	22	1	11	3	83	7	504	5	599	2	707	2	1,379			
Steam fittings and steam and hot-water heating apparatus.....	23	3,521	2	5	14	5	72	3	87											
Suspenders, garters, and elastic woven goods.....	29	2,005																		
Textile machinery and parts.....	116	17,413	1	29	91	32	356	16	503	13	916	14	2,240	3	995	3	2,362	5	9,950	
Tobacco, cigars and cigarettes.....	262	2,046	104	117	220	21	205	9	300	5	352	3	451	1	384	2	1,034			
Tools, not elsewhere specified.....	117	7,226	5	48	122	31	369	14	487	5	346	6	1,089	4	1,546	4	3,267			
Wire.....	9	5,203																		
Woolen goods.....	111	17,508																		
Worsted goods.....	71	36,296																		
All other industries.....	4,406	129,241	420	2,011	4,898	1,076	12,205	448	14,427	227	16,268	152	23,445	44	15,637	20	12,640	8	29,721	
Total for cities.....	9,947	609,671	865	3,904	9,895	2,330	26,749	1,195	38,708	633	45,044	528	83,151	243	81,525	142	95,812	107	225,787	
ADAMS.....	32	3,974	5	14	30	4	47	1	38	3	225	3	557							
AMESBURY.....	44	3,173	2	14	34	10	111	6	189	5	394	3	391	3	1,130	1	924			
ARLINGTON.....	27	228	3	11	35	11	111	2	82											
ATTLEBORO.....	144	6,763	9	45	109	29	332	22	724	21	1,448	15	2,405	2	743	1	942			
BELMONT.....	6	93	1	2	8	2	31			1	54									
BEVERLY.....	70	6,495	10	22	60	20	223	9	324	2	146	4	650	2	781					
BOSTON.....	3,077	88,769	322	1,211	3,267	844	9,627	384	12,052	151	10,135	101	15,207	41	14,736	14	9,425	9	14,310	
BRAINTREE.....	19	2,176	1	7	13	5	55	2	71	1	70	1	238							
BROCKTON.....	217	18,069	8	67	177	54	697	33	1,079	19	1,411	21	3,365	6	2,127	7	4,882	2	4,321	
BROOKLINE.....	32	484	4	14	44	9	120	4	137											
CAMBRIDGE.....	339	22,550	23	106	259	89	994	35	1,228	33	2,205	31	4,817	13	4,459	5	2,858	4	5,730	
CHELSEA.....	123	6,580	12	43	103	31	355	19	642	3	175	9	1,381	3	1,043	2	1,719	1	1,162	
CHICOPEE.....	60	10,068	5	21	40	9	99	8	231	7	464	4	636	2	742	2	1,417	2	6,439	
CLINTON.....	33	4,155	3	10	38	4	35	4	133	2	146	1	106							
DANVERS.....	25	1,474	2	5	12	10	94	1	40	2	197	3	543	2	618					

MANUFACTURES—MASSACHUSETTS.

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—																
	Estab- lishments.	Wage earners (a- verage number).	No wage earn- ers.	1 to 5 wage earn- ers, inclusive.		6 to 20 wage earn- ers, inclusive.		21 to 50 wage earn- ers, inclusive.		51 to 100 wage earn- ers, inclusive.		101 to 250 wage earn- ers, inclusive.		251 to 500 wage earn- ers, inclusive.		501 to 1,000 wage earn- ers, inclusive.		Over 1,000 wage earn- ers.	
				Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.
DEDHAM.....	20	463	4	8	18	5	38	2	80	1	88	2	319	.....	.....	.....	.....	.....	.....
EASTHAMPTON.....	28	4,142	4	10	18	6	52	2	160	2	100	6	1,093	.....	.....	2	1,202	1	2,487
EVERETT.....	104	4,523	4	35	98	24	293	21	623	10	706	6	1,083	3	1,185	1	1,535	7	1,001
FALL RIVER.....	293	37,015	19	135	323	55	617	17	562	12	847	8	1,299	18	6,775	22	14,950	7	11,642
FITCHBURG.....	121	9,907	8	40	103	24	257	13	431	16	1,203	7	1,172	8	2,805	4	2,541	1	1,395
FRAMINGHAM.....	59	4,362	2	28	55	12	118	5	219	3	234	6	1,064	2	703	.....	.....	1	1,909
GARDNER.....	73	4,036	3	24	50	16	207	11	387	9	643	7	1,052	2	613	.....	.....	1	1,034
GLOUCESTER.....	90	2,684	5	45	112	21	244	11	340	3	327	3	431	1	320	.....	.....	1	1,001
GREENFIELD.....	53	2,750	.....	24	52	17	216	5	154	3	177	2	262	.....	.....	1	596	1	1,293
HAVERHILL.....	405	15,783	19	133	355	97	1,118	82	2,728	31	2,390	31	4,742	11	3,661	1	789	.....	.....
HOLYOKE.....	176	17,773	10	72	177	27	320	13	414	16	1,110	26	4,019	4	1,402	4	2,627	4	7,704
LAWRENCE.....	194	30,319	12	98	215	28	327	21	661	8	578	7	1,352	8	2,865	3	1,760	9	22,561
LEOMINSTER.....	92	5,793	9	19	41	19	259	10	500	12	874	11	1,710	5	1,903	1	506	.....	.....
LOWELL.....	291	30,111	18	141	344	50	619	30	969	15	1,074	18	2,929	4	1,116	6	3,396	9	19,661
LYNN.....	442	27,355	26	167	427	111	1,191	61	2,055	34	2,526	26	4,107	11	4,017	5	3,124	1	9,909
MALDEN.....	108	4,723	14	48	106	21	258	14	451	6	445	3	519	.....	.....	.....	.....	2	2,944
MARLBOROUGH.....	48	3,798	3	28	61	8	84	2	58	2	196	.....	.....	3	1,249	1	920	1	1,230
MEDFORD.....	54	1,031	8	25	55	12	121	2	51	4	263	3	511	.....	.....	.....	.....	.....	.....
MELROSE.....	27	1,606	1	15	40	6	83	3	108	.....	.....	.....	.....	1	295	.....	.....	1	1,080
METHUEN.....	33	2,571	5	17	45	3	37	2	65	2	128	2	334	.....	.....	1	779	1	1,133
MILFORD.....	48	1,809	6	22	49	9	102	3	113	.....	.....	5	753	3	792	.....	.....	.....	.....
NATICK.....	49	1,463	9	18	46	6	56	4	162	8	572	4	637	.....	.....	.....	.....	.....	.....
NEW BEDFORD.....	267	41,630	11	136	324	55	623	18	578	8	550	4	684	4	1,284	16	12,082	15	25,499
NEWBURYPORT.....	64	3,960	7	22	51	11	146	4	141	9	604	6	1,065	4	1,269	1	834	.....	.....
NEWTON.....	49	2,547	8	20	59	9	127	4	120	1	75	.....	.....	.....	.....	2	1,347	.....	.....
NORTH ADAMS.....	65	6,023	11	20	55	15	152	5	175	1	51	4	611	6	2,227	1	592	2	2,160
NORTHAMPTON.....	63	3,532	8	25	72	15	146	3	84	3	227	5	754	2	754	2	1,495	1	2,594
NORTHBRIDGE.....	13	3,871	.....	8	12	.....	.....	.....	.....	.....	.....	.....	.....	1	265	1	805	1	2,594
NORWOOD.....	26	2,835	1	7	24	5	60	1	32	4	304	5	740	1	387	2	1,288	1	1,080
PEABODY.....	91	8,013	5	23	64	17	190	20	632	11	837	10	1,543	3	959	1	789	1	2,999
PITTSFIELD.....	90	8,570	8	47	109	12	127	6	178	6	409	4	581	5	1,811	1	835	1	4,520
PLYMOUTH.....	31	2,971	3	13	29	5	53	3	105	4	315	1	223	1	450	.....	.....	2	1,796
QUINCY.....	162	19,653	19	77	238	51	575	7	178	2	119	2	271	1	267	1	887	2	17,118
REVERE.....	31	1,126	8	18	40	4	40	1	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SALEM.....	153	5,672	12	56	121	39	487	26	816	9	665	6	901	3	908	1	726	1	1,048
SAUGUS.....	14	126	3	7	7	2	18	1	28	1	73	.....	.....	.....	.....	.....	.....	.....	.....
SOMERVILLE.....	140	6,111	14	63	177	27	312	23	706	5	348	4	679	1	369	1	680	2	2,840
SOUTHBRIDGE.....	41	5,329	6	14	31	7	83	4	135	2	134	6	802	.....	.....	.....	.....	.....	.....
SPRINGFIELD.....	401	18,429	49	163	435	87	962	37	1,211	22	1,667	23	3,467	11	3,259	7	4,556	2	2,972
TAUNTON.....	167	8,981	11	78	127	16	168	27	953	13	947	12	1,725	6	2,154	3	1,761	1	1,146
WAKEFIELD.....	32	1,866	2	13	25	6	77	5	145	3	202	1	240	.....	.....	2	1,174	.....	.....
WALTHAM.....	93	8,069	5	33	97	22	254	10	356	9	574	8	334	4	1,266	1	795	1	4,303
WATERTOWN.....	25	8,420	2	7	19	4	50	3	80	1	00	3	537	.....	.....	.....	.....	2	6,723
WEBSTER.....	24	3,849	1	9	27	4	38	2	78	2	152	1	178	3	1,245	1	550	1	1,581
WESTFIELD.....	55	3,243	6	37	91	18	213	13	412	6	449	2	389	1	281	2	1,408	.....	.....
WEST SPRINGFIELD.....	23	2,791	.....	12	18	5	37	.....	.....	.....	.....	.....	.....	1	191	1	906	1	1,146
WEYMOUTH.....	34	2,140	4	11	26	5	61	6	188	3	197	1	222	4	1,452	.....	.....	.....	.....
WINCHESTER.....	17	1,112	1	3	7	4	45	3	97	5	395	.....	.....	.....	.....	1	508	.....	.....
WINTHROP.....	19	61	7	10	30	1	8	1	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WOBURN.....	53	2,011	2	14	42	17	207	9	279	5	375	5	741	1	364	.....	.....	.....	.....
WORCESTER.....	618	38,673	52	203	519	159	1,942	85	2,841	47	3,551	39	6,422	19	6,241	8	4,824	6	12,333

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.....	11,906	12,013	11,684	713,836	606,698	584,559	\$4,011,181,532	\$1,641,373,047	\$1,490,520,386	\$1,750,468,496	\$709,989,254	\$359,764,443
Less than \$5,000.....	1,645	2,885	2,760	990	3,158	3,508	4,384,884	7,434,572	7,162,781	2,864,437	4,860,002	4,767,415
\$5,000 to \$20,000.....	3,211	3,903	3,826	9,526	18,044	19,012	30,152,704	40,782,361	40,731,897	21,034,052	23,879,757	24,000,431
\$20,000 to \$100,000.....	3,511	2,926	2,932	39,270	56,378	61,041	104,770,693	134,938,198	136,992,841	85,780,694	70,427,005	73,120,246
\$100,000 to \$500,000.....	2,149	1,593	1,573	102,035	229,504	222,890	498,897,877	355,053,098	585,830,505	240,921,403	270,904,073	261,501,513
\$500,000 to \$1,000,000.....	575	366	.....	73,906	229,504	222,890	410,219,829	201,215,922	.....	181,962,408	.....	.....
\$1,000,000 and over.....	815	310	203	488,109	299,614	277,208	2,896,755,545	841,948,896	719,811,302	1,217,905,442	339,918,417	296,365,838
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.....	13.8	24.0	23.6	0.1	0.5	0.6	0.1	0.5	0.5	0.2	0.7	0.7
\$5,000 to \$20,000.....	27.0	32.5	32.7	1.3	3.0	3.4	0.9	2.5	2.7	1.2	3.3	3.6
\$20,000 to \$100,000.....	29.5	24.4	25.1	5.5	9.3	10.4	4.1	8.2	9.2	4.9	9.9	11.1
\$100,000 to \$500,000.....	18.0	13.3	16.0	14.3	37.8	38.1	12.4	21.6	39.3	13.8	38.2	39.6
\$500,000 to \$1,000,000.....	4.8	3.0	.....	10.4	.....	.....	10.2	15.9	.....	10.4	.....	.....
\$1,000,000 and over.....	6.8	2.8	2.5	68.4	49.4	47.4	72.2	51.3	48.3	69.6	47.9	44.9

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	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
BOOT AND SHOE CUT STOCK.....	182	180	100.0	100.0	4,631	3,781	100.0	100.0	\$86,214,106	\$35,630,846	100.0	100.0	\$16,732,140	\$5,224,241	100.0	100.0
Less than \$5,000.....	7	25	3.8	13.9	10	33	0.2	0.9	24,172	68,177	(1)	0.2	15,431	33,214	0.1	0.6
\$5,000 to \$20,000.....	25	34	13.7	18.9	71	236	1.5	6.2	293,504	381,301	0.3	1.1	137,260	161,687	0.8	3.1
\$20,000 to \$100,000.....	62	50	34.1	32.8	584	805	12.6	22.9	3,245,463	2,007,542	3.8	8.2	1,244,027	876,703	7.4	16.8
\$100,000 to \$500,000.....	46	38	25.3	21.1	1,401	2,194	31.5	51.5	11,014,026	8,994,073	12.8	25.2	3,511,770	2,018,320	19.8	55.9
\$500,000 to \$1,000,000.....	18	17	9.9	9.4	695	.....	15.0	.....	13,401,505	11,282,070	15.5	31.7	2,361,781	.....	14.1	.....
\$1,000,000 and over.....	24	7	13.2	3.9	1,810	699	39.1	18.5	53,235,310	12,003,083	67.5	33.7	9,661,881	1,234,308	57.7	23.6
BOOT AND SHOE FINDINGS.....	254	240	100.0	100.0	5,896	4,389	100.0	100.0	44,357,147	19,021,309	100.0	100.0	15,970,929	5,517,758	100.0	100.0
Less than \$5,000.....	19	38	7.5	15.8	10	62	0.2	1.4	51,000	104,253	0.1	0.5	33,135	64,273	0.2	1.2
\$5,000 to \$20,000.....	42	71	16.5	29.6	147	383	2.5	8.7	445,700	775,030	1.0	4.1	250,475	352,824	1.6	6.4
\$20,000 to \$100,000.....	90	81	37.8	33.8	1,186	1,294	20.1	29.5	5,074,818	3,978,505	11.4	20.9	2,215,499	988,142	13.9	17.9
\$100,000 to \$500,000.....	81	47	31.9	19.6	2,899	2,158	49.2	49.2	19,275,928	10,127,774	43.5	53.2	7,009,353	3,566,646	43.9	44.6
\$500,000 to \$1,000,000.....	10	.....	3.9	.....	520	.....	8.8	.....	6,720,204	.....	15.2	.....	2,115,947	.....	13.2	.....
\$1,000,000 and over.....	6	3	2.4	1.2	1,134	492	19.2	11.2	12,782,831	4,036,078	28.8	21.2	4,346,520	546,074	27.2	9.9
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES.....	493	464	100.0	100.0	80,166	76,944	100.0	100.0	412,466,236	200,520,858	100.0	100.0	173,115,341	80,204,178	100.0	100.0
Less than \$5,000.....	0	41	1.8	8.8	18	100	(1)	0.1	24,907	107,980	(1)	0.1	16,611	78,547	(1)	0.1
\$5,000 to \$20,000.....	50	67	10.1	14.4	216	465	0.3	0.6	540,075	680,635	0.1	0.3	331,725	419,100	0.2	0.5
\$20,000 to \$100,000.....	81	97	16.4	20.9	1,440	2,588	1.8	3.4	4,380,042	4,074,207	1.0	2.5	2,303,754	2,394,010	1.3	3.0
\$100,000 to \$500,000.....	149	137	30.2	29.5	8,740	30,590	10.9	39.8	39,604,025	34,292,689	9.0	17.1	16,857,813	31,383,466	9.7	30.1
\$500,000 to \$1,000,000.....	73	62	14.8	13.4	9,517	.....	11.9	.....	52,390,073	45,805,472	11.8	22.9	22,163,940	.....	12.8	.....
\$1,000,000 and over.....	131	60	26.6	12.9	60,235	43,201	75.1	56.1	345,525,314	114,509,806	78.1	57.1	131,601,468	45,928,140	76.0	57.3
BOXES, PAPER AND OTHER, NOT ELSEWHERE SPECIFIED.....	102	97	100.0	100.0	4,711	4,244	100.0	100.0	15,906,081	7,084,975	100.0	100.0	8,202,591	3,413,102	100.0	100.0
Less than \$5,000.....	14	5	13.7	5.2	122	16	2.6	0.4	184,302	14,772	0.2	0.2	113,805	10,447	1.4	0.3
\$5,000 to \$20,000.....	45	40	44.1	50.5	1,047	1,621	22.2	38.2	2,484,587	2,339,454	15.9	33.0	1,404,442	1,779,519	17.1	35.8
\$20,000 to \$100,000.....	30	40	38.2	20.6	2,928	2,323	62.2	51.7	8,300,300	4,433,806	53.6	62.6	4,030,180	2,002,605	50.4	58.7
\$500,000 and over.....	4	.....	3.9	.....	614	.....	13.0	.....	4,597,772	.....	20.3	.....	2,064,158	.....	25.0	.....
BOXES, WOODEN PACKING, EXCEPT CIGAR BOXES.....	75	91	100.0	100.0	3,232	2,995	100.0	100.0	15,050,531	7,710,614	100.0	100.0	6,678,699	2,934,345	100.0	100.0
Less than \$5,000.....	7	11	9.3	12.1	3	13	0.1	0.4	18,071	23,351	0.1	0.3	11,706	12,279	0.2	0.4
\$5,000 to \$20,000.....	6	17	8.0	18.7	10	76	0.5	2.5	70,167	170,203	0.5	2.2	24,048	60,370	0.4	2.1
\$20,000 to \$100,000.....	20	38	26.7	41.8	262	806	8.1	20.9	1,107,541	2,071,092	7.4	20.9	460,871	770,835	6.9	26.6
\$100,000 to \$500,000.....	35	25	46.7	27.5	1,739	2,100	53.8	70.1	7,827,351	5,445,008	52.0	70.6	3,129,056	2,081,801	46.8	70.9
\$500,000 and over.....	7	.....	9.3	.....	1,212	.....	37.5	.....	6,027,401	.....	40.0	.....	3,052,958	.....	45.7	.....
BRASS, BRONZE, AND COPPER PRODUCTS.....	72	73	100.0	100.0	2,832	1,020	100.0	100.0	16,943,199	5,958,803	100.0	100.0	7,576,434	2,244,067	100.0	100.0
Less than \$5,000.....	13	.....	17.8	.....	15	.....	0.9	.....	37,484	.....	0.8	.....	21,357	.....	1.1	.....
\$5,000 to \$20,000.....	22	33	30.6	45.2	44	154	1.6	0.6	248,205	400,040	1.5	0.7	132,804	205,100	1.8	9.1
\$20,000 to \$100,000.....	30	20	41.7	27.4	291	280	10.3	17.3	1,559,420	828,428	8.0	13.9	670,006	374,002	8.9	10.7
\$100,000 to \$500,000.....	15	4	20.8	5.6	603	1,171	21.3	72.3	5,430,245	1,030,621	20.3	17.4	1,490,198	1,639,609	19.7	73.1
\$500,000 and over.....	5	3	6.9	4.1	1,894	.....	66.9	.....	11,899,259	3,652,390	70.2	61.3	5,282,706	.....	60.7	.....
BREAD AND OTHER BAKERY PRODUCTS.....	1,309	1,419	100.0	100.0	8,583	8,083	100.0	100.0	66,017,267	83,309,051	100.0	100.0	25,430,484	15,037,903	100.0	100.0
Less than \$5,000.....	90	328	6.9	23.1	39	202	0.5	2.5	283,584	1,036,808	0.4	3.1	112,753	460,768	0.4	3.1
\$5,000 to \$20,000.....	447	868	49.4	61.2	1,117	2,173	13.0	20.9	7,806,096	8,710,072	11.8	26.1	3,027,465	3,608,822	11.9	24.6
\$20,000 to \$100,000.....	495	189	37.8	13.3	2,464	1,887	28.7	23.3	18,135,828	7,242,027	27.5	21.7	6,411,768	2,804,831	25.2	19.3
\$100,000 to \$500,000.....	58	27	4.4	1.9	1,389	3,821	16.2	47.3	11,044,423	6,186,724	18.1	18.6	4,500,685	7,977,482	17.7	53.0
\$500,000 to \$1,000,000.....	11	7	0.8	0.5	1,070	.....	12.5	.....	7,729,155	10,133,360	11.7	30.5	2,876,932	.....	11.3	.....
\$1,000,000 and over.....	8	.....	0.6	.....	2,504	.....	29.2	.....	20,118,181	.....	30.4	.....	8,500,881	.....	33.4	.....
CHEMICALS.....	27	24	100.0	100.0	2,483	1,305	100.0	100.0	17,305,166	6,684,918	100.0	100.0	9,203,749	3,330,207	100.0	100.0
Less than \$5,000.....	4	7	14.8	29.2	5	20	0.2	1.4	33,083	107,000	0.2	1.6	9,784	31,382	0.1	0.9
\$5,000 to \$20,000.....	8	6	29.6	25.0	31	47	1.2	3.4	442,906	395,347	2.6	5.9	181,077	235,406	2.0	7.1
\$20,000 to \$100,000.....	21	23	40.7	12.5	2,395	2,179	15.0	12.8	2,803,432	2,048,683	16.2	14.2	1,655,071	304,077	18.0	10.9
\$1,000,000 and over.....	4	4	14.8	16.7	2,052	1,144	82.6	82.0	14,025,655	5,223,855	81.0	78.1	7,356,917	2,690,837	79.9	80.8
CLOTHING, MEN'S.....	207	213	100.0	100.0	6,856	5,760	100.0	100.0	41,475,028	10,217,687	100.0	100.0	17,874,966	7,184,530	100.0	100.0
Less than \$5,000.....	13	37	6.3	17.4	14	138	0.2	2.4	39,625	100,773	0.1	0.7	25,362	96,339	0.1	1.3
\$5,000 to \$20,000.....	61	81	24.6	38.0	298	983	4.3	17.1	598,827	938,047	1.4	5.8	515,044	735,849	2.9	10.2
\$20,000 to \$100,000.....	70	57	36.7	26.8	1,226	1,117	17.9	19.4	3,820,447	2,605,165	9.2	16.1	2,295,181	1,300,014	12.8	18.1
\$100,000 to \$500,000.....	46	31	22.2	14.6	1,389	3,522	20.3	61.1	10,187,513	6,486,174	24.6	30.7	3,891,454	5,052,328	21.8	70.3
\$500,000 to \$1,000,000.....	10	7	4.8	3.3	755	.....	11.0	.....	6,316,609	6,127,028	15.2	37.8	2,707,433	.....	15.0	.....
\$1,000,000 and over.....	11	.....	5.3	.....	3,174	.....	46.3	.....	20,512,107	.....	49.5	.....	8,350,492	.....	46.7	.....
CLOTHING, WOMEN'S.....	258	302	100.0	100.0	6,271	6,076	100.0	100.0	30,427,592	13,982,587	100.0	100.0	12,454,075	6,318,362	100.0	100.0
Less than \$5,000.....</																

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	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
CONFECTIONERY AND ICECREAM.	278	273	100.0	100.0	11,585	7,250	100.0	100.0	\$68,896,885	\$22,901,916	100.0	100.0	\$28,542,876	\$9,061,208	100.0	100.0
Less than \$5,000.	24	70	8.6	25.6	13	54	0.1	0.7	70,433	178,207	0.1	0.8	31,039	91,580	0.1	1.0
\$5,000 to \$20,000.	80	103	28.8	37.7	143	312	1.2	4.3	937,685	1,045,712	1.4	4.6	407,672	482,004	1.4	5.3
\$20,000 to \$100,000.	102	61	36.7	22.3	654	667	5.6	9.2	4,068,899	2,442,328	6.8	10.7	1,779,871	1,060,441	6.2	11.7
\$100,000 to \$500,000.	47	31	16.9	11.4	1,660	1,329	14.3	45.4	10,888,687	6,919,993	15.8	30.2	3,093,545	1,573,888	10.7	30.4
\$500,000 to \$1,000,000.	6	3	2.2	1.1	758	.....	6.6	.....	4,429,122	2,479,424	6.4	10.8	1,613,015	.....	5.7	.....
\$1,000,000 and over.	19	5	6.8	1.8	8,357	2,028	72.1	40.4	47,902,059	9,836,192	69.5	42.9	20,807,734	3,852,635	72.9	42.5
COTTON GOODS.	191	165	100.0	100.0	122,499	112,607	100.0	100.0	596,687,441	195,481,626	100.0	100.0	237,012,202	76,754,374	100.0	100.0
Less than \$100,000.	11	14	5.8	8.5	119	731	0.1	0.6	603,919	1,243,516	0.1	0.6	252,710	498,015	0.1	0.6
\$100,000 to \$500,000.	25	41	13.1	24.8	1,248	124,045	1.0	21.4	7,226,475	11,342,770	1.2	5.8	2,393,553	14,745,407	1.0	19.2
\$500,000 to \$1,000,000.	25	37	13.1	22.4	3,570	.....	2.9	.....	18,396,048	28,172,754	3.1	14.4	5,938,009	.....	2.5	.....
\$1,000,000 and over.	130	73	68.1	44.2	117,562	87,833	96.0	78.0	570,458,999	154,722,586	95.6	79.1	228,427,930	61,510,952	96.4	80.1
CUTLERY AND EDGE TOOLS.	51	37	100.0	100.0	3,988	1,947	100.0	100.0	19,672,750	4,354,119	100.0	100.0	14,261,413	3,520,968	100.0	100.0
Less than \$5,000.	3	9	5.9	24.3	3	16	0.1	0.8	8,033	32,211	(2)	0.7	6,015	23,489	(2)	0.7
\$5,000 to \$20,000.	14	11	27.5	29.7	56	92	1.4	4.7	138,314	147,222	0.7	3.4	85,091	106,557	0.6	3.0
\$20,000 to \$100,000.	17	9	33.3	24.3	204	355	5.1	18.2	670,910	570,152	3.4	13.1	479,353	422,211	3.4	12.0
\$100,000 and over.	17	8	33.3	21.6	3,725	1,484	93.4	76.2	18,855,493	3,604,534	95.8	82.8	13,090,354	2,968,711	96.0	84.3
DYEING AND FINISHING TEXTILES, EXCLUSIVE OF THAT DONE IN TEXTILE MILLS.	62	57	100.0	100.0	12,321	11,437	100.0	100.0	75,261,815	22,455,086	100.0	100.0	31,052,277	11,460,083	100.0	100.0
Less than \$5,000.	4	.....	6.5	.....	7	.....	0.1	.....	11,817	.....	(2)	.....	8,028	.....	(2)	.....
\$5,000 to \$20,000.	3	5	4.8	8.8	9	26	0.1	0.2	24,992	33,380	(2)	0.1	13,608	21,480	(2)	0.2
\$20,000 to \$100,000.	11	20	17.7	35.1	251	505	2.0	4.4	666,706	924,240	0.9	4.1	331,579	449,817	1.1	3.9
\$100,000 to \$500,000.	16	21	25.8	36.8	1,168	1,476	9.5	43.5	4,333,785	5,506,201	5.8	24.5	2,424,729	4,741,245	7.8	41.3
\$500,000 to \$1,000,000.	15	5	24.2	8.8	2,417	.....	19.6	.....	10,665,853	3,290,053	14.2	14.7	5,152,599	.....	16.6	.....
\$1,000,000 and over.	13	6	21.0	10.5	8,469	5,930	68.7	51.8	59,558,682	12,700,012	79.1	56.6	23,121,734	6,253,541	74.5	54.5
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.	110	91	100.0	100.0	23,889	17,125	100.0	100.0	91,038,738	43,869,294	100.0	100.0	60,101,602	26,172,387	100.0	100.0
Less than \$5,000.	7	9	6.4	9.9	13	9	0.1	0.1	23,788	25,799	(2)	0.1	13,985	15,179	(2)	0.1
\$5,000 to \$20,000.	14	20	12.7	22.0	73	102	0.3	0.6	198,054	211,311	0.2	0.5	112,741	115,840	0.2	0.4
\$20,000 to \$100,000.	37	30	33.0	33.0	491	696	2.1	4.1	1,656,346	1,564,018	1.8	3.6	1,013,713	928,058	1.7	3.6
\$100,000 to \$500,000.	30	23	27.3	25.3	1,712	3,393	7.2	19.8	6,905,059	5,325,128	7.5	12.1	3,821,343	4,945,413	6.4	13.9
\$500,000 to \$1,000,000.	11	4	10.0	4.4	1,820	.....	7.6	.....	7,586,377	2,548,085	8.3	5.8	4,193,603	.....	7.0	.....
\$1,000,000 and over.	11	5	10.0	5.5	19,780	12,925	82.8	75.5	75,569,114	34,194,980	82.2	77.9	50,940,377	20,167,897	84.8	77.0
FOUNDRY AND MACHINE-SHOP PRODUCTS.	765	705	100.0	100.0	51,680	32,687	100.0	100.0	201,538,303	65,005,499	100.0	100.0	131,842,083	42,310,005	100.0	100.0
Less than \$5,000.	72	120	9.4	17.0	61	161	0.1	0.5	205,375	324,754	0.1	0.5	151,115	240,635	0.1	0.6
\$5,000 to \$20,000.	157	232	20.5	32.9	528	1,306	1.0	4.0	1,848,720	2,486,000	0.9	3.8	1,240,845	1,732,390	0.9	4.1
\$20,000 to \$100,000.	265	220	34.6	31.2	3,833	5,320	7.4	16.3	13,041,565	10,299,385	6.5	15.7	8,299,172	6,410,648	6.3	15.2
\$100,000 to \$500,000.	187	108	24.4	15.3	10,827	15,970	21.0	48.9	41,982,430	21,561,609	20.3	32.9	26,195,614	12,077,355	19.9	48.9
\$500,000 to \$1,000,000.	44	19	5.8	2.7	6,743	.....	13.0	.....	30,363,084	12,963,003	15.1	19.8	18,881,983	.....	14.3	.....
\$1,000,000 and over.	40	6	5.2	0.9	29,688	9,930	57.4	30.4	114,037,129	17,970,688	56.6	27.4	77,004,354	13,248,977	58.5	31.3
FURNITURE.	161	134	100.0	100.0	6,342	6,813	100.0	100.0	23,688,923	13,826,765	100.0	100.0	13,030,675	8,178,813	100.0	100.0
Less than \$5,000.	11	15	6.8	11.2	8	27	0.1	0.4	26,004	42,760	0.1	0.3	16,006	23,334	0.1	0.4
\$5,000 to \$20,000.	35	34	21.7	25.4	116	172	1.8	2.5	376,947	350,872	1.6	2.5	222,175	222,329	1.7	2.7
\$20,000 to \$100,000.	60	55	37.3	41.0	892	1,295	14.1	19.0	3,162,959	2,714,001	13.4	19.6	1,704,309	1,608,475	13.1	19.7
\$100,000 to \$500,000.	48	30	29.8	22.4	2,447	5,319	38.6	78.1	9,976,772	10,719,126	42.1	77.5	5,771,632	6,818,675	44.3	77.3
\$500,000 and over.	7	.....	4.3	.....	2,879	.....	45.4	.....	10,146,241	.....	42.8	.....	5,316,653	.....	40.8	.....
GAS, ILLUMINATING AND HEATING.	51	61	100.0	100.0	2,654	3,182	100.0	100.0	24,231,095	15,751,637	100.0	100.0	13,457,531	9,800,244	100.0	100.0
Less than \$5,000.	3	5	5.9	8.2	2	7	0.1	0.2	10,135	11,950	(2)	0.1	4,360	6,594	(2)	0.1
\$5,000 to \$20,000.	21	7	11.5	.....	.....	17	.....	.....	87,410	.....	0.4	.....	42,354	.....	0.4	.....
\$20,000 to \$100,000.	15	28	41.2	45.9	200	398	7.5	12.5	1,182,461	1,508,691	4.9	10.0	626,101	923,050	4.7	9.4
\$100,000 to \$500,000.	5	12	29.4	19.7	548	2,760	20.6	80.7	3,618,046	3,280,143	14.9	20.6	1,905,856	8,238,245	14.2	90.1
\$500,000 to \$1,000,000.	5	9	9.8	14.8	450	.....	17.0	.....	4,124,295	7,043,434	17.0	68.9	2,342,103	.....	17.4	.....
\$1,000,000 and over.	79	202	13.7	.....	1,454	.....	54.8	.....	15,296,158	.....	63.1	.....	8,679,111	.....	63.7	.....
JEWELRY.	165	202	100.0	100.0	6,786	6,505	100.0	100.0	34,816,822	14,175,857	100.0	100.0	16,452,320	7,465,725	100.0	100.0
Less than \$5,000.	9	32	5.5	15.8	9	36	0.1	0.6	27,817	92,713	0.1	0.7	21,732	57,589	0.1	0.9
\$5,000 to \$20,000.	30	46	18.2	22.8	102	278	1.5	4.3	364,560	504,524	1.0	3.6	247,709	354,001	1.5	4.7
\$20,000 to \$100,000.	45	81	27.3	40.1	752	2,201	11.1	33.8	2,510,791	4,098,979	7.2	28.9	1,550,232	2,562,721	9.5	24.3
\$100,000 to \$500,000.	68	43	41.2	21.3	4,039	5,990	59.5	61.3	15,408,283	9,479,641	44.3	66.9	8,705,650	4,481,617	52.9	60.0
\$500,000 to \$1,000,000.	8	.....	4.8	.....	991	.....	14.6	.....	5,495,121	.....	15.8	.....	2,046,358	.....	17.9	.....
\$1,000,000 and over.	5	3.0	893	13.2	11,004,250	31.6	2,974,639	18.1
KNIT GOODS.	77	77	100.0	100.0	12,75											

MANUFACTURES—MASSACHUSETTS.

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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	
PRINTING AND PUBLISHING, BOOK AND JOB.....	768	741	100.0	100.0	7,634	7,062	100.0	100.0	\$41,626,859	\$20,245,246	100.0	100.0	\$28,691,774	\$14,731,508	100.0	100.0	
Less than \$5,000.....	227	335	29.6	45.2	102	325	1.3	4.6	557,654	794,148	1.3	3.9	387,450	584,232	1.3	4.0	
\$5,000 to \$20,000.....	299	256	38.9	34.5	839	1,185	11.0	16.8	3,034,221	2,481,212	7.3	12.3	2,011,680	1,815,757	7.0	12.3	
\$20,000 to \$100,000.....	181	116	23.6	15.7	2,030	2,022	20.6	28.6	7,760,693	4,850,948	18.6	24.0	5,256,724	3,329,499	18.3	22.6	
\$100,000 to \$500,000.....	48	29	6.2	3.9	2,143	3,530	28.1	50.0	10,123,483	5,014,975	24.3	29.2	7,024,935	1,9,002,020	24.5	61.1	
\$500,000 to \$1,000,000.....	6	25	0.8	0.7	644	.....	8.4	.....	4,050,495	2,019,903	9.7	30.6	3,064,680	.....	10.7	.....
\$1,000,000 and over.....	7	.....	0.9	.....	1,876	.....	24.6	.....	16,100,313	.....	38.7	.....	10,946,448	.....	38.2	.....
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	412	456	100.0	100.0	5,885	6,032	100.0	100.0	46,801,145	26,719,398	100.0	100.0	30,327,990	18,270,255	100.0	100.0	
Less than \$5,000.....	111	127	26.9	27.9	46	88	0.8	1.5	271,024	311,384	0.6	1.2	232,650	277,893	0.8	1.5	
\$5,000 to \$20,000.....	141	187	34.2	41.0	384	708	6.5	11.7	1,576,590	1,913,208	3.4	7.2	1,200,530	1,614,075	4.3	8.8	
\$20,000 to \$100,000.....	105	106	25.5	23.2	862	1,303	14.6	21.6	4,429,413	4,381,486	9.4	16.4	3,371,457	3,497,129	11.1	10.1	
\$100,000 to \$500,000.....	41	26	10.0	5.7	1,656	2,018	28.1	33.5	9,525,956	5,264,983	20.4	19.7	7,208,828	2,017,985	23.8	32.9	
\$500,000 to \$1,000,000.....	7	4	1.7	0.9	615	.....	10.5	.....	5,184,382	2,771,884	11.1	10.4	3,734,272	.....	12.3	.....
\$1,000,000 and over.....	7	6	1.7	1.3	2,322	1,915	39.5	31.7	26,813,810	12,076,453	55.2	45.2	14,490,253	6,863,173	47.8	37.6	
RUBBER TIRES, TUBES, AND RUBBER GOODS, NOT ELSEWHERE SPECIFIED.....	47	42	100.0	100.0	9,406	4,743	100.0	100.0	93,376,505	23,011,349	100.0	100.0	46,309,522	8,869,611	100.0	100.0	
Less than \$5,000.....	4	5	10.6	11.9	10	43	0.1	0.9	437,209	13,005	0.4	0.1	18,409	7,493	0.1	0.1	
\$5,000 to \$20,000.....	8	8	17.0	26.2	127	187	1.4	3.9	515,615	90,087	0.6	2.8	231,512	50,333	0.5	2.6	
\$20,000 to \$100,000.....	17	8	36.2	19.0	994	1,725	10.6	36.4	4,304,900	648,481	4.7	6.9	2,115,821	252,178	4.6	8.8	
\$100,000 to \$500,000.....	8	6	17.0	14.3	751	.....	8.0	.....	6,337,551	1,585,974	6.8	17.7	2,425,621	2,299,937	5.2	25.9
\$500,000 to \$1,000,000.....	0	4	19.1	9.5	7,524	2,782	80.0	58.7	82,091,230	4,077,724	87.9	72.1	41,506,159	6,259,670	89.7	70.6	
SILK GOODS, INCLUDING THROWSTERS.....	21	10	100.0	100.0	5,697	4,495	100.0	100.0	34,193,951	10,676,681	100.0	100.0	14,959,468	4,715,544	100.0	100.0	
\$20,000 to \$100,000.....	5	8	23.8	42.1	80	142	1.4	3.2	317,775	279,407	0.9	2.6	165,319	113,517	1.1	2.4	
\$100,000 to \$500,000.....	4	8	10.0	42.1	213	1,021	3.7	22.7	1,238,900	2,776,005	3.6	26.0	401,654	1,243,065	2.7	26.4	
\$500,000 to \$1,000,000.....	5	.....	23.8	.....	555	.....	9.7	.....	3,840,703	.....	11.2	.....	1,308,820	.....	8.7	.....
\$1,000,000 and over.....	7	3	33.3	15.8	4,849	3,332	85.1	74.1	28,796,423	7,620,369	84.2	71.4	13,079,675	3,358,962	87.5	71.2	
SLAUGHTERING AND MEAT PACKING.....	40	46	100.0	100.0	4,307	3,233	100.0	100.0	110,238,038	51,724,520	100.0	100.0	9,002,698	6,206,181	100.0	100.0	
Less than \$5,000.....	18	4	42.5	8.7	2	0.1	14,033	0.1	4,711	0.1
\$5,000 to \$20,000.....	12	7	20.0	15.2	45	8	0.1	0.2	490,225	111,636	0.1	0.2	28,380	32,070	0.3	0.5	
\$20,000 to \$100,000.....	8	11	30.0	20.1	37	56	0.9	1.7	594,052	472,417	0.5	0.9	148,673	120,608	1.7	1.9	
\$100,000 to \$500,000.....	3	3	7.5	6.5	60	171	1.3	5.3	1,743,174	2,400,227	1.6	4.8	247,530	435,378	2.7	6.9	
\$500,000 to \$1,000,000.....	9	9	22.5	19.6	4,140	2,097	30.1	62.7	2,308,913	1,824,048	2.1	3.5	290,334	.....	2.0	.....
\$1,000,000 and over.....	9	9	22.5	19.6	4,140	2,097	30.1	62.7	105,501,674	46,841,559	95.7	90.6	8,317,775	5,703,464	92.4	90.6	
SOAP.....	27	32	100.0	100.0	1,008	460	100.0	100.0	18,726,572	4,671,310	100.0	100.0	7,556,340	2,195,290	100.0	100.0	
Less than \$5,000.....	3	9	11.1	28.1	1	6	0.1	1.3	6,291	18,095	0.3	0.4	2,961	8,875	0.3	0.4	
\$5,000 to \$20,000.....	9	7	33.3	21.9	14	17	1.4	3.7	100,894	76,755	0.5	1.0	35,070	30,359	0.5	1.4	
\$20,000 to \$100,000.....	4	6	14.8	18.8	24	49	2.4	10.7	231,825	337,066	1.2	7.2	73,825	84,615	1.0	3.8	
\$100,000 to \$500,000.....	8	10	29.6	31.2	101	388	16.0	84.3	2,853,376	4,238,794	15.2	90.7	866,017	2,071,641	11.5	94.4	
\$500,000 to \$1,000,000.....	3	.....	11.1	.....	808	.....	80.2	.....	15,537,130	.....	83.0	.....	6,574,558	.....	87.0	.....
STATIONERY GOODS, NOT ELSEWHERE SPECIFIED.....	30	27	100.0	100.0	3,305	2,407	100.0	100.0	15,161,819	6,511,512	100.0	100.0	7,806,802	2,959,442	100.0	100.0	
Less than \$5,000.....	17	5	23.3	18.5	10	22	0.3	0.9	47,625	11,088	0.3	0.2	22,113	8,390	0.3	0.3	
\$5,000 to \$20,000.....	5	5	16.7	18.5	67	128	2.0	5.2	249,743	341,389	1.6	5.2	142,582	146,131	1.8	4.0	
\$20,000 to \$100,000.....	11	8	36.7	29.6	801	2,305	26.1	93.4	3,402,315	1,697,682	22.4	24.5	1,710,361	2,777,953	21.7	93.9	
\$100,000 to \$500,000.....	3	24	10.0	14.8	281	.....	8.5	.....	2,048,094	4,507,836	13.5	69.2	1,111,327	.....	14.1	.....
\$500,000 to \$1,000,000.....	4	.....	13.3	.....	2,086	.....	63.1	.....	9,413,152	.....	62.1	.....	4,910,419	.....	12.2	.....
TOOLS, NOT ELSEWHERE SPECIFIED.....	117	100	100.0	100.0	7,226	4,538	100.0	100.0	20,158,834	8,619,903	100.0	100.0	21,171,417	6,059,532	100.0	100.0	
Less than \$5,000.....	22	36	18.8	36.0	23	53	0.3	1.2	67,434	92,848	0.2	1.1	54,694	70,451	0.3	1.2	
\$5,000 to \$20,000.....	30	27	33.3	27.0	163	171	2.3	3.8	435,981	206,414	1.5	3.4	305,961	210,186	1.4	3.5	
\$20,000 to \$100,000.....	27	22	23.1	22.0	450	535	6.4	11.8	1,336,764	829,491	4.6	9.6	936,338	546,934	4.4	9.0	
\$100,000 to \$500,000.....	15	10	12.8	10.0	678	3,779	9.4	83.3	2,812,393	2,557,641	9.6	29.7	1,820,597	1,523,181	8.6	80.3	
\$500,000 to \$1,000,000.....	5	25	4.3	5.0	960	.....	13.3	.....	3,721,382	4,843,500	12.8	56.2	2,461,094	.....	11.6	.....
\$1,000,000 and over.....	9	.....	7.7	.....	4,943	.....	68.4	.....	20,784,880	.....	71.3	.....	15,688,733	.....	73.0	.....
WOOLEN GOODS.....	111	86	100.0	100.0	17,568	13,844	100.0	100.0	105,183,068	28,391,184	100.0	100.0	43,089,550	11,691,966	100.0	100.0	
\$5,000 to \$20,000.....	5	13	4.5	3.5	28	125	0.2	0.2	54,615	121,191	0.1	0.1	40,036	49,886	0.1	0.1	
\$20,000 to \$100,000.....	5	18	4.5	15.1	64	570	0.4	4.1	231,037	900,148	0.2	3.2	152,600	347,294	0.4	3.0	
\$100,000 to \$500,000.....	33	59	23.7	68.6	2,299	10,200	13.1	74.4	9,898,253	15,193,894	9.4	53.5	4,368,279	8,394,866	10.1	71.8	
\$500,000 to \$1,000,000.....	20	8	26.1	9.3	3,015	.....	20.6	.....	20,080,540	5,473,180	20.0	19.3	8,463,982	.....	19.6	.....
\$1,000,000 and over.....	39	3	35.1	3.5	11,562	2,953	65.8	21.3	74,012,723	6,802,771	70.4	24.0	30,068,693	2,939,920	69.8	25.1	
WORSTED GOODS.....	71	70	100.0	100.0	36,296	30,533	100.0	100.0	237,443,077	98,960,250	100.0	100.0	86,820,534	34,506,575	100.0	100.0	
\$5,000 to \$20,000.....	3	4.3	36	0.1	42,552	0.1	36,741	0.1
\$20,000 to \$100,000.....	9	12.9	383	1.0	599,702	0.6	305,815	0.9
\$100,000 to \$500,000.....	17	18	23.9	25.7	1,105	8,102	3.9	20.5	7,018,810	4,808,917	1.7	4.9	7,994,900	2,881,425	2.3	19.9	
\$500,000 to \$1,000,000.....	15	21	21.1	30.0	2,253	.....	6.2	.....	16,192,561	4,316,467	5.1	10.4	4,310,467	.....	5.0	.....
\$1,000,000 and over.....	30	19	54.9	27.1	32,938	31,012	90.7	78.4	221,335,464	77,256,458	93.2	78.1	80,515,087	27,282,594	92.7	79.1	

1 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."
 2 Includes the group "\$1,000,000 and over."
 3 Includes the group "\$500,000 to \$1,000,000."
 4 Includes the group "Less than \$5,000."

5 Less than one-tenth of 1 per cent.
 6 Includes the group "\$5,000 to \$20,000."
 7 Includes the group "\$20,000 to \$100,000."

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.
ADAMS.....	32	3,974	100.0	\$15,076,858	100.0	\$6,637,344	100.0	CLINTON.....	33	4,155	100.0	\$15,179,819	100.0	\$6,009,775	100.0
Less than \$5,000.....	8	2	0.1	18,565	0.1	8,939	0.1	Less than \$5,000.....	3	.....	.....	3,825	(*)	2,655	(*)
\$5,000 to \$20,000.....	8	34	0.9	88,510	0.6	43,700	0.6	\$5,000 to \$20,000.....	16	40	1.0	192,333	1.3	105,450	1.5
\$20,000 to \$100,000.....	7	42	1.0	260,735	1.7	101,703	1.5	\$20,000 to \$100,000.....	6	85	2.0	201,708	1.9	157,195	2.2
\$100,000 to \$500,000.....	6	639	16.1	3,494,894	23.2	1,374,057	19.8	\$100,000 to \$500,000.....	4	227	5.5	1,581,728	10.4	489,502	7.9
\$1,000,000 and over.....	3	3,257	82.0	11,214,154	74.4	5,408,945	78.0	\$1,000,000 and over.....	4	3,808	91.5	13,107,225	86.3	6,160,978	89.7
AMESBURY.....	44	3,173	100.0	16,303,509	100.0	6,892,541	100.0	DANVERS.....	25	1,474	100.0	11,541,830	100.0	3,874,052	100.0
Less than \$5,000.....	6	4	0.1	19,707	0.1	11,904	0.2	Less than \$20,000.....	10	37	2.5	105,782	0.9	59,393	1.5
\$5,000 to \$20,000.....	9	29	0.9	117,863	0.7	59,946	0.9	\$20,000 to \$100,000.....	7	69	4.7	259,388	2.2	108,630	2.8
\$20,000 to \$100,000.....	11	158	5.0	584,401	3.6	217,712	3.2	\$100,000 to \$500,000.....	6	707	48.0	2,266,438	19.6	1,142,720	29.5
\$100,000 to \$500,000.....	11	610	19.2	4,081,882	28.7	1,453,063	21.1	\$1,000,000 and over.....	3	661	44.8	8,910,281	77.2	2,563,339	66.2
\$500,000 and over.....	7	2,372	74.8	10,505,626	66.9	5,144,910	74.7	DEDHAM.....	20	463	100.0	1,737,073	100.0	923,905	100.0
ARLINGTON.....	27	228	100.0	1,006,207	100.0	583,587	100.0	Less than \$5,000.....	4	5	1.1	15,549	0.9	10,758	1.2
Less than \$5,000.....	4	2	0.9	9,884	1.0	5,936	1.0	\$5,000 to \$20,000.....	9	27	5.8	97,162	5.6	63,181	7.4
\$5,000 to \$20,000.....	11	38	16.7	136,750	13.6	66,767	11.4	\$20,000 to \$100,000.....	4	24	5.2	168,116	9.7	69,492	9.0
\$20,000 and over.....	12	188	82.5	859,573	85.4	510,884	87.5	\$100,000 and over.....	3	407	87.9	1,450,846	83.8	781,514	84.6
ATLEBORO.....	144	6,763	100.0	34,471,577	100.0	15,091,897	100.0	EASTHAMPTON.....	28	4,142	100.0	37,942,121	100.0	10,898,213	100.0
Less than \$5,000.....	19	14	0.2	56,083	0.2	44,232	0.3	Less than \$5,000.....	8	5	0.1	15,469	(*)	10,894	0.1
\$5,000 to \$20,000.....	36	135	2.0	424,058	1.2	306,847	1.9	\$5,000 to \$20,000.....	7	20	0.7	103,549	0.3	50,478	0.5
\$20,000 to \$100,000.....	29	380	5.6	1,402,036	4.1	786,610	4.9	\$20,000 to \$100,000.....	5	36	0.9	210,467	0.6	83,247	0.8
\$100,000 to \$500,000.....	47	3,219	47.6	17,219,766	50.0	7,674,733	48.2	\$100,000 to \$500,000.....	4	240	5.8	1,023,718	5.1	332,389	8.0
\$500,000 and over.....	13	3,015	44.6	15,369,034	44.6	7,039,475	44.6	\$1,000,000 and over.....	4	3,832	92.5	35,688,018	94.1	9,819,235	90.1
BELMONT.....	6	93	100.0	374,586	100.0	166,388	100.0	EVERETT.....	104	4,523	100.0	35,775,728	100.0	10,716,047	100.0
BEVERLY.....	70	6,495	100.0	21,829,684	100.0	13,091,266	100.0	Less than \$5,000.....	7	6	0.1	21,191	0.1	13,699	0.1
Less than \$5,000.....	10	11	0.2	30,151	0.1	20,589	0.2	\$5,000 to \$20,000.....	20	61	1.3	247,005	0.7	149,257	0.9
\$5,000 to \$20,000.....	21	63	1.0	215,596	1.0	115,907	0.9	\$20,000 to \$100,000.....	35	397	8.8	1,774,654	5.0	835,721	5.1
\$20,000 to \$100,000.....	21	232	3.6	943,210	4.3	464,357	3.5	\$100,000 to \$500,000.....	27	956	21.1	5,406,497	15.1	2,870,922	14.2
\$100,000 to \$500,000.....	12	500	8.6	2,464,238	11.3	1,045,881	8.0	\$500,000 to \$1,000,000.....	6	727	16.1	4,414,726	12.3	1,736,022	10.4
\$500,000 to \$1,000,000.....	3	537	8.3	2,557,455	11.7	1,017,331	7.8	\$1,000,000 and over.....	9	2,376	52.5	20,910,755	60.8	11,588,026	69.3
\$1,000,000 and over.....	3	5,022	78.4	15,619,034	71.5	10,427,231	79.7	FALL RIVER.....	293	37,015	100.0	163,246,082	100.0	67,065,098	100.0
BOSTON.....	3,077	88,759	100.0	618,921,962	100.0	269,318,071	100.0	Less than \$5,000.....	88	24	0.1	102,479	0.1	61,252	0.1
Less than \$5,000.....	368	230	0.3	998,872	0.2	663,098	0.2	\$5,000 to \$20,000.....	91	254	0.7	1,025,065	0.6	541,828	0.8
\$5,000 to \$20,000.....	866	2,770	3.1	9,968,945	1.6	6,322,756	2.3	\$20,000 to \$100,000.....	82	812	2.2	3,750,522	2.3	1,004,073	2.4
\$20,000 to \$100,000.....	1,047	11,249	12.7	49,527,446	8.0	27,223,360	10.1	\$100,000 to \$500,000.....	24	1,180	3.2	5,120,391	3.1	2,114,423	3.2
\$100,000 to \$500,000.....	576	21,695	24.4	128,804,691	20.8	62,274,153	23.1	\$500,000 to \$1,000,000.....	10	1,600	4.0	7,584,606	4.6	3,493,807	5.1
\$500,000 to \$1,000,000.....	112	11,165	12.6	79,592,823	12.9	34,320,350	12.8	\$1,000,000 and over.....	48	33,055	80.3	145,647,219	89.2	59,811,215	88.4
\$1,000,000 and over.....	108	41,650	46.9	350,029,185	56.6	138,497,324	51.4	FITCHBURG.....	121	9,907	100.0	58,164,842	100.0	22,109,020	100.0
BRAINTREE.....	19	2,176	100.0	11,974,839	100.0	4,825,514	100.0	Less than \$5,000.....	15	10	0.1	44,401	0.1	24,883	0.1
Less than \$5,000.....	3	2	0.1	8,140	0.1	6,285	0.1	\$5,000 to \$20,000.....	20	70	0.7	243,162	0.4	135,339	0.6
\$5,000 to \$20,000.....	5	15	0.7	48,993	0.4	31,007	0.6	\$20,000 to \$100,000.....	36	308	3.1	1,005,838	2.8	775,729	2.5
\$20,000 to \$100,000.....	4	32	1.5	188,137	1.6	70,559	1.5	\$100,000 to \$500,000.....	28	1,480	15.0	6,758,700	11.6	3,209,429	14.9
\$100,000 to \$500,000.....	4	160	7.4	1,031,459	8.6	407,877	8.5	\$500,000 to \$1,000,000.....	6	888	8.5	4,144,150	7.1	2,048,422	9.3
\$1,000,000 and over.....	3	1,367	90.4	10,698,110	89.3	4,309,776	89.3	\$1,000,000 and over.....	10	7,192	72.6	45,368,522	78.0	16,826,938	71.6
BROCKTON.....	217	18,059	100.0	117,855,025	100.0	43,141,744	100.0	FRAMINGHAM.....	59	4,362	100.0	18,842,173	100.0	8,402,362	100.0
Less than \$5,000.....	14	7	(*)	36,979	(*)	26,753	0.1	Less than \$5,000.....	8	10	0.2	19,250	0.1	13,056	0.2
\$5,000 to \$20,000.....	40	114	0.6	459,750	0.4	261,643	0.6	\$5,000 to \$20,000.....	21	50	1.1	233,112	1.2	132,060	1.6
\$20,000 to \$100,000.....	68	799	4.4	3,631,659	3.1	1,755,739	4.1	\$20,000 to \$100,000.....	11	82	1.9	491,850	2.6	252,066	3.0
\$100,000 to \$500,000.....	43	1,987	11.0	12,788,478	10.9	5,117,010	11.9	\$100,000 to \$500,000.....	9	516	11.8	1,016,066	10.2	841,799	9.9
\$500,000 to \$1,000,000.....	17	2,000	11.1	11,826,878	10.0	5,342,469	12.4	\$500,000 to \$1,000,000.....	6	894	20.5	4,361,445	23.1	2,053,507	24.2
\$1,000,000 and over.....	25	13,152	72.8	89,103,281	75.6	30,638,139	71.0	\$1,000,000 and over.....	4	2,810	64.4	11,820,450	62.7	5,198,909	61.2
BROOKLINE.....	32	484	100.0	2,243,311	100.0	1,201,359	100.0	GARDNER.....	73	4,036	100.0	13,500,682	100.0	8,413,483	100.0
Less than \$20,000.....	14	25	5.2	128,984	5.7	89,103	7.4	Less than \$5,000.....	10	7	0.2	24,987	0.2	16,340	0.2
\$20,000 to \$100,000.....	13	179	37.0	650,691	29.0	362,228	30.2	\$5,000 to \$20,000.....	13	37	0.9	134,118	1.0	77,198	0.9
\$100,000 and over.....	5	280	57.9	1,463,636	65.2	750,028	62.4	\$20,000 to \$100,000.....	24	377	9.3	1,163,159	8.6	674,832	8.0
CAMBRIDGE.....	339	22,550	100.0	127,864,901	100.0	58,737,978	100.0	\$100,000 to \$500,000.....	20	1,344	33.3	4,897,094	36.0	2,071,130	35.3
Less than \$5,000.....	32	16	0.1	91,347	0.1	62,575	0.1	\$500,000 and over.....	6	2,271	56.3	7,380,344	54.3	4,673,983	55.6
\$5,000 to \$20,000.....	82	261	1.2	973,522	0.8	575,203	1.0	GLOUCESTER.....	90	2,684	100.0	18,803,673	100.0	6,094,623	100.0
\$20,000 to \$100,000.....	98	1,030	4.6	4,682,882	3.7	2,294,140	3.9								

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.
HOLYOKE.....	176	17,773	100.0	\$93,420,775	100.0	\$42,266,793	100.0	NATICK.....	49	1,463	100.0	\$7,393,397	100.0	\$2,440,808	100.0
Less than \$5,000.....	9	1	(1)	22,008	(1)	14,309	(1)	Less than \$5,000.....	10	3	0.2	28,005	0.4	19,447	0.8
\$5,000 to \$20,000.....	58	161	0.9	762,005	0.8	436,449	1.0	\$5,000 to \$20,000.....	11	25	1.7	102,713	1.4	57,073	2.3
\$20,000 to \$100,000.....	40	386	2.2	1,706,629	1.8	736,060	1.7	\$20,000 to \$100,000.....	12	178	12.2	634,647	8.6	262,234	10.7
\$100,000 to \$500,000.....	28	1,445	8.1	7,624,395	8.2	3,406,970	8.1	\$100,000 to \$500,000.....	11	736	50.3	3,079,569	41.7	1,225,674	50.2
\$500,000 to \$1,000,000.....	23	3,020	17.0	17,094,644	18.3	6,822,055	16.1	\$500,000 and over.....	5	521	35.6	3,547,863	48.0	876,380	35.9
\$1,000,000 and over.....	18	12,760	71.8	60,217,004	70.9	30,850,944	73.0								
LAWRENCE.....	194	30,319	100.0	183,449,096	100.0	72,490,486	100.0	NEW BEDFORD.....	267	41,630	100.0	210,773,312	100.0	88,202,554	100.0
Less than \$5,000.....	18	12	(1)	52,148	(1)	33,507	(1)	Less than \$5,000.....	35	25	0.1	99,011	(1)	64,033	0.1
\$5,000 to \$20,000.....	75	158	0.5	890,996	0.5	410,904	0.6	\$5,000 to \$20,000.....	70	200	0.5	917,540	0.4	529,637	0.6
\$20,000 to \$100,000.....	44	417	1.4	2,023,096	1.1	912,599	1.3	\$20,000 to \$100,000.....	79	700	1.7	3,180,267	1.5	1,558,392	1.8
\$100,000 to \$500,000.....	25	850	2.8	5,530,365	3.0	2,822,897	3.9	\$100,000 to \$500,000.....	35	1,589	3.8	7,681,487	3.6	3,907,277	4.4
\$500,000 to \$1,000,000.....	8	859	2.8	5,475,389	3.0	2,580,022	3.0	\$1,000,000 and over.....	39	39,116	94.0	108,894,077	94.4	82,143,215	93.1
\$1,000,000 and over.....	24	28,017	92.4	109,501,102	92.4	65,720,897	90.7								
LEOMINSTER.....	92	5,793	100.0	24,928,790	100.0	11,085,176	100.0	NEWBURYPORT.....	64	3,960	100.0	20,595,015	100.0	7,915,411	100.0
Less than \$5,000.....	15	6	0.1	26,049	0.1	15,073	0.1	Less than \$5,000.....	9	8	0.2	27,795	0.1	17,175	0.2
\$5,000 to \$20,000.....	12	38	0.7	121,945	0.5	60,027	0.6	\$5,000 to \$20,000.....	14	19	0.5	146,260	0.7	60,002	0.8
\$20,000 to \$100,000.....	29	547	9.4	1,564,245	6.3	965,248	8.7	\$20,000 to \$100,000.....	18	313	7.9	922,804	4.5	480,433	6.1
\$100,000 to \$500,000.....	22	1,055	28.6	5,374,440	21.6	2,831,901	25.5	\$100,000 to \$500,000.....	15	1,102	27.8	3,652,508	17.7	1,760,261	22.1
\$500,000 to \$1,000,000.....	7	949	16.4	5,215,562	20.9	2,010,702	18.2	\$1,000,000 and over.....	8	2,518	63.6	15,845,048	76.9	5,001,540	70.8
\$1,000,000 and over.....	7	2,598	44.8	12,629,509	50.6	5,190,165	46.8								
LOWELL.....	291	30,111	100.0	137,801,538	100.0	60,809,030	100.0	NEWTON.....	49	2,547	100.0	15,524,567	100.0	7,000,098	100.0
Less than \$5,000.....	33	20	0.1	84,588	0.1	58,717	0.1	Less than \$5,000.....	7	2	0.1	18,359	0.1	15,302	0.2
\$5,000 to \$20,000.....	97	250	0.8	1,083,009	0.8	571,009	0.9	\$5,000 to \$20,000.....	12	37	1.5	174,368	1.1	101,855	1.4
\$20,000 to \$100,000.....	81	842	2.8	3,504,038	2.6	1,076,185	2.8	\$20,000 to \$100,000.....	18	171	6.7	790,569	5.1	474,769	6.7
\$100,000 to \$500,000.....	41	2,145	7.1	9,056,810	6.6	4,616,834	7.6	\$100,000 to \$500,000.....	7	443	17.4	2,804,810	18.1	1,087,378	15.3
\$500,000 to \$1,000,000.....	15	1,980	6.6	11,349,492	8.2	5,336,142	8.8	\$1,000,000 and over.....	5	1,804	74.4	11,736,461	75.6	5,416,794	76.3
\$1,000,000 and over.....	24	24,874	82.6	112,066,001	81.8	48,540,543	79.8								
LYNN.....	442	27,355	100.0	100,905,792	100.0	75,896,440	100.0	NORTH ADAMS.....	65	6,023	100.0	36,203,767	100.0	13,017,945	100.0
Less than \$5,000.....	36	21	0.1	97,542	0.1	70,442	0.1	Less than \$5,000.....	12	6	0.1	38,974	0.1	25,639	0.2
\$5,000 to \$20,000.....	94	240	0.9	853,383	0.5	515,811	0.7	\$5,000 to \$20,000.....	16	56	0.9	193,700	0.5	111,259	0.8
\$20,000 to \$100,000.....	165	1,494	5.4	6,594,926	4.1	3,315,464	4.4	\$20,000 to \$100,000.....	20	200	3.3	861,520	2.4	387,543	2.8
\$100,000 to \$500,000.....	88	4,252	15.5	22,626,678	14.0	10,119,422	13.3	\$100,000 to \$500,000.....	3	121	2.0	501,994	1.4	195,764	1.4
\$500,000 to \$1,000,000.....	22	1,863	6.8	14,419,320	9.0	5,545,835	7.3	\$500,000 to \$1,000,000.....	4	493	8.2	3,107,688	8.6	1,015,884	7.3
\$1,000,000 and over.....	37	10,515	71.3	110,413,934	72.3	56,329,472	74.2	\$1,000,000 and over.....	10	5,147	85.5	31,499,882	87.0	12,181,876	87.5
MALDEN.....	108	4,723	100.0	22,077,624	100.0	12,432,640	100.0	NORTHAMPTON.....	63	3,532	100.0	17,960,620	100.0	8,610,010	100.0
Less than \$5,000.....	19	6	0.1	47,667	0.2	25,057	0.2	Less than \$5,000.....	12	5	0.1	28,590	0.2	20,032	0.2
\$5,000 to \$20,000.....	33	86	1.8	356,572	1.6	183,609	1.5	\$5,000 to \$20,000.....	17	61	1.7	195,761	1.1	113,022	1.3
\$20,000 to \$100,000.....	33	438	9.3	1,617,779	7.3	844,762	6.8	\$20,000 to \$100,000.....	20	201	5.7	688,846	3.8	353,257	4.1
\$100,000 to \$500,000.....	17	864	18.3	3,402,386	15.4	1,517,517	12.2	\$100,000 to \$500,000.....	9	876	24.8	2,825,848	15.7	1,594,605	18.5
\$1,000,000 and over.....	6	3,329	70.5	16,653,220	75.4	9,860,454	79.3	\$1,000,000 and over.....	6	2,389	67.6	14,221,585	79.2	6,520,004	75.8
MARLBOROUGH.....	48	3,798	100.0	19,044,907	100.0	5,889,669	100.0	NORTHBRIDGE.....	13	3,871	100.0	13,848,897	100.0	8,003,973	100.0
Less than \$5,000.....	9	8	0.2	20,744	0.2	19,771	0.3	Less than \$5,000.....	4	3	0.1	11,430	0.1	3,031	(1)
\$5,000 to \$20,000.....	19	54	1.4	216,289	1.1	114,172	1.9	\$5,000 to \$20,000.....	3	7	0.2	27,880	0.2	13,200	0.2
\$20,000 to \$100,000.....	13	141	3.7	621,975	3.3	303,447	5.2	\$20,000 and over.....	6	3,861	99.7	13,809,581	99.7	7,987,742	99.8
\$100,000 and over.....	7	3,595	94.7	18,170,890	95.4	5,462,279	92.6								
MEDFORD.....	54	1,031	100.0	5,665,723	100.0	2,476,601	100.0	NORWOOD.....	26	2,835	100.0	20,359,242	100.0	9,599,507	100.0
Less than \$5,000.....	13	4	0.4	34,600	0.6	21,731	0.9	Less than \$20,000.....	3	5	0.2	32,319	0.2	10,718	0.2
\$5,000 to \$20,000.....	18	47	4.6	204,700	3.6	100,405	4.1	\$20,000 to \$100,000.....	11	112	4.0	376,379	1.8	189,140	2.0
\$20,000 to \$100,000.....	14	125	12.1	685,735	12.1	289,493	11.7	\$100,000 to \$500,000.....	6	699	24.7	2,631,662	12.9	1,023,598	16.9
\$100,000 to \$500,000.....	5	282	27.4	1,141,427	20.1	448,026	18.1	\$1,000,000 and over.....	6	2,019	71.2	17,319,852	85.1	7,771,051	81.0
\$500,000 and over.....	4	573	55.6	3,599,261	63.5	1,617,006	65.3								
MELROSE.....	27	1,606	100.0	6,083,608	100.0	3,006,861	100.0	PEABODY.....	91	8,013	100.0	52,906,722	100.0	21,590,014	100.0
Less than \$5,000.....	4	4	0.2	15,201	0.3	10,694	0.4	Less than \$5,000.....	4	4	(1)	10,520	(1)	5,647	(1)
\$5,000 to \$20,000.....	9	24	1.5	80,935	1.3	42,211	1.4	\$5,000 to \$20,000.....	27	86	1.1	403,902	0.8	205,782	1.0
\$20,000 to \$100,000.....	7	96	6.0	430,644	7.1	238,522	7.9	\$20,000 to \$100,000.....	22	428	5.3	1,447,759	2.7	851,030	3.9
\$100,000 and over.....	7	1,482	92.3	5,550,828	91.3	2,715,434	90.3	\$100,000 to \$500,000.....	21	1,271	15.9	5,497,426	10.4	2,667,395	12.4
								\$500,000 to \$1,000,000.....	3	483	6.0	1,837,219	3.5	885,300	4.1
								\$1,000,000 and over.....	14	5,741	71.6	43,709,896	82.6	16,075,670	78.6
METHUEN.....	33	2,571	100.0	14,214,905	100.0	5,140,711	100.0	PITTSFIELD.....	90	8,570	100.0	41,613,356	100.0	21,895,100	100.0
Less than \$5,000.....	10	6	0.2	23,505	0.2	13,284	0.3	Less than \$5,000.....	12</						

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.
REVERE.....	31	126	100.0	\$767,294	100.0	\$318,193	100.0	WATERTOWN.....	25	8,420	100.0	\$47,297,519	100.0	\$27,563,346	100.0
Less than \$5,000.....	8	2	1.6	20,303	3.4	10,575	3.3	Less than \$20,000.....	6	7	0.1	30,341	0.1	19,350	0.1
\$5,000 to \$20,000.....	13	20	15.9	130,363	17.0	58,191	18.3	\$20,000 to \$100,000.....	6	52	0.6	208,127	0.6	134,250	0.5
\$20,000 to \$100,000.....	7	32	25.4	218,199	28.4	86,528	27.2	\$100,000 to \$500,000 ¹	6	256	3.0	2,176,787	4.6	605,940	2.4
\$100,000 to \$500,000.....	3	72	57.1	392,429	51.1	162,899	51.2	\$1,000,000 and over.....	7	8,105	96.3	44,822,264	94.8	20,743,794	97.0
SALEM.....	153	5,672	100.0	30,437,957	100.0	13,510,464	100.0	WEBSTER.....	24	3,849	100.0	28,400,765	100.0	9,610,040	100.0
Less than \$5,000.....	22	15	0.3	59,487	0.2	39,846	0.3	Less than \$20,000.....	6	12	0.3	74,441	0.3	39,894	0.4
\$5,000 to \$20,000.....	30	123	2.2	436,837	1.4	250,718	1.9	\$20,000 to \$100,000.....	7	47	1.2	205,631	0.7	93,933	1.0
\$20,000 to \$100,000.....	51	702	12.4	2,361,521	7.8	1,275,342	9.4	\$100,000 to \$500,000.....	5	235	6.1	1,160,030	4.1	488,340	5.1
\$100,000 to \$500,000.....	28	1,307	23.0	6,480,632	21.3	3,463,543	25.6	\$1,000,000 and over.....	6	3,555	92.4	20,960,663	94.9	8,887,850	92.5
\$500,000 to \$1,000,000.....	5	593	10.3	3,508,733	11.5	1,283,641	9.6	WESTFIELD.....	85	3,243	100.0	14,278,973	100.0	7,338,198	100.0
\$1,000,000 and over.....	8	2,942	51.9	17,577,747	57.7	7,187,374	53.2	Less than \$5,000.....	8	2	0.1	18,240	0.1	10,488	0.1
SAUGUS.....	14	126	100.0	1,157,215	100.0	291,602	100.0	\$5,000 to \$20,000.....	31	81	2.5	349,113	2.4	189,570	2.6
Less than \$20,000.....	9	3	2.4	36,243	3.1	15,877	5.4	\$20,000 to \$100,000.....	27	361	11.1	1,135,115	7.9	611,736	8.3
\$20,000 and over.....	5	123	97.6	1,120,972	96.9	275,725	94.6	\$100,000 to \$500,000.....	13	625	19.3	2,595,730	18.2	1,303,180	17.8
SOMERVILLE.....	140	6,111	100.0	99,558,513	100.0	12,461,172	100.0	\$500,000 to \$1,000,000.....	3	486	15.0	2,584,200	18.1	1,335,771	18.2
Less than \$5,000.....	23	18	0.3	63,176	0.1	39,325	0.3	\$1,000,000 and over.....	3	1,688	52.0	7,596,575	53.2	3,887,455	53.0
\$5,000 to \$20,000.....	35	85	1.4	389,365	0.4	193,490	1.6	WEST SPRINGFIELD.....	23	2,791	100.0	12,386,556	100.0	6,001,071	100.0
\$20,000 to \$100,000.....	49	579	9.5	2,312,326	2.3	1,160,726	9.3	Less than \$5,000.....	5	2	0.1	13,412	0.1	8,241	0.1
\$100,000 to \$500,000.....	23	1,071	17.5	5,124,047	5.1	2,350,914	18.9	\$5,000 to \$20,000.....	6	14	0.5	69,663	0.6	31,473	0.5
\$500,000 to \$1,000,000.....	4	322	5.3	2,610,251	2.6	778,579	6.2	\$20,000 to \$100,000.....	6	39	1.4	213,342	1.7	85,471	1.4
\$1,000,000 and over.....	6	4,036	66.0	89,059,348	89.5	7,938,142	63.7	\$100,000 to \$500,000.....	3	341	12.2	1,516,711	12.2	590,633	9.9
SOUTHBIDGE.....	41	5,329	100.0	18,252,814	100.0	10,770,641	100.0	\$1,000,000 and over.....	3	2,395	85.8	10,573,428	85.4	5,279,253	88.0
Less than \$5,000.....	9	5	0.1	30,795	0.2	17,383	0.2	WEYMOUTH.....	34	2,146	100.0	16,836,997	100.0	5,708,132	100.0
\$5,000 to \$20,000.....	6	18	0.3	64,356	0.4	40,377	0.4	Less than \$5,000.....	9	7	0.3	22,350	0.1	14,020	0.3
\$20,000 to \$100,000.....	14	160	3.0	600,838	3.3	254,029	2.4	\$5,000 to \$20,000.....	7	32	1.5	76,263	0.5	39,238	0.7
\$100,000 to \$500,000.....	8	681	12.8	2,003,288	11.0	1,342,785	12.5	\$20,000 to \$100,000.....	5	123	5.7	337,282	2.0	156,594	2.7
\$500,000 and over.....	4	4,465	83.8	15,547,537	85.2	9,116,067	84.6	\$100,000 to \$500,000.....	8	310	14.4	2,112,962	12.5	785,492	13.8
SPRINGFIELD.....	401	18,429	100.0	98,332,955	100.0	50,529,775	100.0	\$1,000,000 and over.....	5	1,674	78.0	14,288,176	84.9	4,712,168	82.6
Less than \$5,000.....	53	27	0.1	130,322	0.1	89,637	0.2	WINCHESTER.....	17	1,112	100.0	9,697,701	100.0	3,476,837	100.0
\$5,000 to \$20,000.....	129	397	2.2	1,513,090	1.5	833,337	1.6	Less than \$5,000.....	4	20	1.8	50,624	0.6	32,299	0.9
\$20,000 to \$100,000.....	123	1,449	7.9	5,571,228	5.7	3,171,052	6.3	\$5,000 to \$20,000.....	6	131	11.8	355,334	3.7	184,284	5.3
\$100,000 to \$500,000.....	56	3,128	17.0	15,168,282	15.4	7,711,514	15.3	\$20,000 to \$100,000.....	7	961	86.4	9,285,743	95.8	3,260,254	93.8
\$500,000 to \$1,000,000.....	15	1,952	10.6	10,304,318	10.5	5,349,839	10.6	\$100,000 and over.....	7	961	86.4	9,285,743	95.8	3,260,254	93.8
\$1,000,000 and over.....	25	11,476	62.3	65,645,715	66.8	33,374,396	66.0	WINTHROP.....	19	61	100.0	330,234	100.0	126,808	100.0
TAUNTON.....	167	8,981	100.0	48,330,638	100.0	20,544,078	100.0	Less than \$5,000.....	8	1	1.6	20,798	6.3	13,504	10.6
Less than \$5,000.....	29	21	0.2	101,997	0.2	59,987	0.3	\$5,000 to \$20,000.....	7	25	41.0	85,895	26.0	39,435	31.1
\$5,000 to \$20,000.....	51	87	1.0	484,130	1.0	243,813	1.2	\$20,000 to \$100,000.....	4	35	57.4	223,541	67.7	73,869	58.3
\$20,000 to \$100,000.....	24	268	3.0	1,105,602	2.3	573,720	2.8	WOBBURN.....	53	2,011	100.0	13,980,185	100.0	6,430,591	100.0
\$100,000 to \$500,000.....	41	2,114	23.5	9,144,550	18.9	4,471,101	21.8	Less than \$5,000.....	5	5	0.2	14,754	0.1	9,288	0.1
\$500,000 to \$1,000,000.....	8	829	9.2	5,513,323	11.4	2,024,007	9.9	\$5,000 to \$20,000.....	9	30	1.5	107,165	0.8	53,909	0.8
\$1,000,000 and over.....	14	5,662	63.0	31,981,036	66.2	13,171,355	64.1	\$20,000 to \$100,000.....	20	281	14.0	976,308	7.0	490,389	7.6
WAKEFIELD.....	32	1,869	100.0	8,977,010	100.0	3,395,222	100.0	\$100,000 to \$500,000.....	12	624	31.0	3,032,868	21.7	1,597,661	24.8
Less than \$5,000.....	4	2	0.1	12,871	0.1	8,405	0.2	\$500,000 to \$1,000,000.....	3	318	15.8	1,995,096	14.3	1,014,702	15.8
\$5,000 to \$20,000.....	9	17	0.9	88,717	1.0	56,441	1.7	\$1,000,000 and over.....	4	753	37.4	7,853,994	56.2	3,264,642	50.8
\$20,000 to \$100,000.....	9	124	6.6	600,640	6.8	275,655	8.1	WORCESTER.....	618	38,673	100.0	208,705,773	100.0	102,624,771	100.0
\$100,000 to \$500,000.....	7	306	16.4	1,438,703	16.0	538,677	15.9	Less than \$5,000.....	84	47	0.1	201,408	0.1	145,454	0.1
\$1,000,000 and over.....	3	1,420	76.0	6,830,079	76.1	2,516,044	74.1	\$5,000 to \$20,000.....	132	415	1.1	1,550,104	0.7	879,605	0.9
WALTHAM.....	93	8,069	100.0	20,878,515	100.0	14,044,781	100.0	\$20,000 to \$100,000.....	194	2,271	5.9	9,840,417	4.7	5,303,008	5.2
Less than \$5,000.....	10	6	0.1	30,995	0.1	23,245	0.2	\$100,000 to \$500,000.....	136	6,945	18.0	31,771,827	15.2	16,066,281	15.7
\$5,000 to \$20,000.....	31	109	1.4	347,155	1.7	209,904	1.5	\$500,000 to \$1,000,000.....	35	5,801	15.0	24,984,366	12.0	12,798,305	12.5
\$20,000 to \$100,000.....	28	443	5.5	1,454,160	7.0	849,313	6.0	\$1,000,000 and over.....	37	23,194	60.0	140,367,651	67.3	67,332,028	65.7
\$100,000 to \$500,000 ¹	19	1,320	16.4	5,109,231	24.5	3,040,410	21.6								
\$1,000,000 and over.....	5	6,191	76.7	13,936,974	66.8	9,921,909	70.6								

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

MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.							
All industries.....	1919	5,319	4,697	1,890	713,836	41,322	621,783	50,731	5.8	87.1	7.1	\$4,011,181,532	\$219,327,951	\$3,483,117,043	\$308,736,538	5.5	88.8	7.7				
	1914	5,002	3,984	2,127	600,693	44,683	500,711	61,304	7.4	82.5	10.1	1,641,373,047	117,430,275	1,340,397,046	177,545,726	7.2	82.0	10.5				
	1909	3,015	3,483	2,180	584,559	35,318	468,301	60,940	9.5	80.1	10.4	1,490,529,386	137,804,436	1,182,935,652	169,789,298	9.2	79.4	11.4				
Boot and shoe cut stock....	1919	81	50	45	4,631	983	2,666	982	21.2	57.6	21.2	86,214,106	11,815,892	49,562,078	24,836,136	13.7	57.5	28.8				
	1914	96	38	46	3,781	1,132	1,606	1,043	29.9	42.5	27.6	35,636,846	6,535,914	15,524,218	13,570,714	18.3	43.0	38.1				
Boot and shoe findings....	1919	108	85	61	5,896	1,452	3,046	1,398	24.6	51.7	23.7	44,357,147	9,265,531	22,974,592	12,117,024	20.9	51.8	27.3				
	1914	111	59	70	4,389	1,200	1,984	1,205	27.3	45.2	27.5	19,021,309	4,962,540	9,611,120	4,417,049	26.2	50.5	23.2				
Boots and shoes, not in- cluding rubber boots and shoes.	1919	127	284	82	80,166	7,185	65,294	7,687	9.0	81.4	9.6	442,466,236	35,885,805	365,072,087	40,908,344	8.1	82.0	9.2				
	1914	147	188	129	70,944	6,562	56,682	13,700	8.5	73.7	17.8	200,529,858	15,762,363	149,231,773	35,535,782	7.9	74.4	17.7				
Boots and shoes, rubber....	1919	8	.....	.....	13,002	.....	13,002	.....	100.0	.....	.....	44,307,961	.....	44,307,961	.....	100.0	.....	.....		
	1914	9	.....	.....	8,087	.....	8,087	.....	100.0	.....	.....	23,788,788	.....	23,788,788	.....	100.0	.....	.....		
Boxes, paper and other, not elsewhere specified.	1919	29	57	16	4,711	644	3,468	599	13.7	73.0	12.7	15,666,081	1,929,631	11,813,603	1,922,847	12.3	75.4	12.3				
	1914	30	50	17	4,244	553	2,800	822	13.0	67.0	19.4	7,084,975	842,799	4,010,325	2,222,851	11.9	56.7	31.4				
Boxes, wooden packing, except cigar boxes.	1919	24	38	13	3,232	310	2,300	622	9.6	71.2	19.2	15,050,531	1,302,829	10,083,260	3,664,442	8.7	67.0	24.3				
	1914	41	35	15	2,905	853	1,677	405	28.5	56.0	15.5	7,710,614	2,125,012	4,151,317	1,434,285	27.6	53.8	18.6				
Brass, bronze, and copper products.	1919	29	29	14	2,832	165	2,399	268	5.8	84.7	9.5	16,943,199	897,410	14,924,843	1,120,946	5.3	88.1	6.6				
	1914	36	23	14	1,620	179	1,321	120	11.0	81.5	7.4	6,958,863	403,440	5,102,825	362,598	8.3	85.6	6.1				
Bread and other bakery products.	1919	1,018	112	179	8,583	3,175	4,326	1,082	37.0	50.4	12.6	66,017,267	24,271,377	32,628,966	9,116,924	36.8	49.4	13.8				
	1914	1,179	98	172	8,083	3,310	3,394	1,370	41.1	42.0	16.9	33,309,951	13,663,609	14,158,909	5,486,533	41.0	42.5	16.5				
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1919	14	.....	.....	7,724	.....	7,724	.....	100.0	.....	.....	22,637,990	.....	22,637,990	.....	100.0	.....	.....		
	1914	15	.....	.....	6,264	.....	6,264	.....	100.0	.....	.....	8,820,665	.....	8,820,665	.....	100.0	.....	.....		
Chemicals.....	1919	3	20	4	2,483	42	2,404	37	1.7	96.8	1.5	17,305,166	169,139	16,866,495	269,532	1.0	97.5	1.6				
	1914	2	17	5	1,395	.....	1,374	121	.....	98.5	1.5	6,684,918	.....	6,524,735	1,160,183	.....	97.6	2.4
Chocolate and cocoa prod- ucts.	1919	.....	.....	.....	2,007	.....	2,007	.....	100.0	.....	.....	30,327,397	.....	30,327,397	.....	100.0	.....	.....		
	1914	.....	.....	.....	943	.....	943	.....	100.0	.....	.....	10,209,949	.....	10,209,949	.....	100.0	.....	.....		
Clothing, men's.....	1919	85	55	67	6,856	1,412	3,764	1,680	20.6	54.9	24.5	41,475,028	6,457,293	24,095,179	10,922,556	15.0	58.1	26.3				
	1914	106	42	65	5,760	1,535	2,702	1,433	26.0	48.5	24.9	16,217,687	2,783,400	9,967,338	3,466,949	17.2	61.5	21.4				
Clothing, women's.....	1919	96	71	91	6,271	1,542	2,618	2,111	24.6	41.7	33.7	36,427,592	7,232,186	10,457,704	12,737,702	23.8	34.4	41.9				
	1914	85	51	66	6,076	1,475	2,440	2,161	24.3	40.2	35.6	13,982,587	3,391,138	5,386,178	5,205,271	24.3	38.5	37.2				
Coffee and spice, roasting and grinding.	1919	8	10	5	512	30	357	125	5.9	69.7	24.4	16,977,791	758,066	11,506,861	4,712,874	4.5	67.8	27.8				
	1914	5	12	4	466	23	311	132	4.9	66.7	28.3	8,075,047	347,602	5,367,811	2,959,544	4.0	61.9	34.1				
Confectionery and ice cream.	1919	125	90	93	11,585	673	10,201	621	5.8	88.8	5.4	68,896,885	4,755,639	58,839,091	5,302,155	6.9	85.4	7.7				
	1914	155	60	58	7,250	690	6,239	321	9.5	86.1	4.4	22,901,916	2,597,221	19,032,595	1,272,100	11.3	83.1	5.6				
Cotton goods.....	1919	4	182	5	122,406	225	121,909	395	0.2	99.5	0.3	596,687,441	1,405,069	503,637,370	1,645,002	0.2	99.5	0.3				
	1914	4	152	9	112,600	231	110,722	1,656	0.2	98.3	1.5	105,481,626	435,251	191,691,119	3,355,256	0.2	98.1	1.7				
Cutlery and edge tools....	1919	19	28	4	3,988	184	3,772	32	4.6	94.6	0.8	19,672,750	598,538	18,973,074	101,138	3.0	96.4	0.5				
	1914	12	20	5	1,947	102	1,813	32	5.2	93.1	1.6	4,354,119	181,231	4,129,561	43,337	4.2	94.8	1.0				
Dyeing and finishing tex- tiles, exclusive of that done in textile mills.	1919	6	52	4	12,321	224	11,207	890	1.8	91.0	7.2	75,261,815	1,268,201	61,998,544	11,095,070	1.7	82.4	16.9				
	1914	7	45	5	11,437	244	10,376	817	2.1	90.7	7.1	22,455,086	347,305	20,149,734	1,058,047	1.5	89.7	8.7				
Electrical machinery, ap- paratus, and supplies.	1919	18	86	6	23,880	109	23,655	35	0.8	99.0	0.1	91,938,738	985,085	90,746,156	206,597	1.1	98.7	0.2				
	1914	20	67	4	17,125	200	16,812	53	1.5	98.2	0.3	43,869,294	793,483	42,937,503	138,308	1.8	97.9	0.3				
Foundry and machine- shop products. ¹	1919	258	409	98	61,680	2,944	46,857	1,879	5.7	90.7	3.6	201,538,303	10,294,952	183,332,407	7,910,944	5.1	91.0	3.9				
	1914	218	333	124	32,687	2,634	28,506	1,697	7.8	87.4	4.9	65,605,499	5,027,884	57,305,043	3,182,572	7.7	87.5	4.9				
Furniture.....	1919	42	80	30	6,342	350	5,177	815	5.5	81.6	12.9	23,688,923	1,285,904	19,083,171	3,319,848	5.4	80.6	14.0				
	1914	42	60	32	6,813	557	5,390	866	8.2	79.1	12.7	13,826,765	1,003,925	11,083,584	1,789,256	7.3	79.8	12.9				
Gas, illuminating and heating.	1919	.....	49	2	2,654	.....	2,654	.....	100.0	.....	.....	24,231,095	.....	24,231,095	.....	100.0	.....	.....		
	1914	1	56	4	3,182	.....	3,053	129	.....	95.9	4.1	15,761,037	.....	15,355,909	1,395,728	.....	97.5	2.5
Iron and steel, steel works and rolling mills.	1919	1	10	.....	3,684	.....	3,684	.....	100.0	.....	.....	30,969,601	.....	30,969,601	.....	100.0	.....	.....		
	1914	1	10	.....	2,880	.....	2,880	.....	100.0	.....	.....	11,376,008	.....	11,376,008	.....	100.0	.....	.....		
Jewelry.....	1919	49	66	50	6,786	887	3,863	2,030	13.1	56.9	30.0	34,816,822	3,890,055	23,178,188	7,748,579	11.2	66.6	22.3				
	1914	67	76	59	6,505	879	3,084	1,942	13.5	56.6	29.9	14,175,857	1,699,058	8,737,846	3,738,353	12.0	61.6	26.4				
Knit goods.....	1919	16	51	10	12,751	223	11,700	828	1.7	91.8	6.5	52,424,235	1,058,752	45,701,425	5,664,058	2.0	87.2	10.8				
	1914	23	44	10	10,635	254	9,601	780	2.4	90.3	7.3	17,419,077	682,786	14,312,311	2,523,980	3.3	82.2	14.5				
Leather, tanned, curried, and finished.	1919	30	75	26	15,180	1,028	13,098	1,054	6.8	86.3	6.9	129,594,962	8,500,681	114,746,520	6,347,752	6.6	88.5	4.9				
	1914	39	61	26	10,164	1,228	7,742															

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

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.							
Printing and publishing, newspapers and periodicals.	1919	143	203	66	5,885	472	4,798	615	8.0	81.5	10.5	\$46,801,145	\$1,916,192	\$39,482,457	\$5,402,496	4.1	84.4	11.5				
	1914	157	227	72	6,032	729	4,776	527	12.1	79.2	8.7	26,719,398	1,599,707	22,899,525	2,220,166	6.0	85.7	8.3				
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	7	39	1	9,406	191	9,215	.....	2.0	98.0	.....	93,376,505	1,002,679	92,373,826	.....	1.1	98.9	.....			
	1914	3	38	1	4,743	17	4,736	.....	0.1	99.9	.....	23,011,349	141,439	22,969,910	.....	0.2	99.8	.....			
Silk goods, including throwsters.	1919	2	16	3	5,697	.....	5,136	561	.....	90.2	9.8	34,193,951	.....	30,009,691	3,284,260	.....	90.4	9.0
	1914	5	11	3	4,495	435	3,814	245	9.7	84.8	5.5	10,076,681	1,808,624	9,014,503	353,554	12.3	84.4	3.3				
Slaughtering and meat packing.	1919	22	13	5	4,307	83	4,178	46	1.9	97.0	1.1	110,238,038	3,030,961	106,246,649	960,428	2.7	96.4	0.9				
	1914	23	18	5	3,233	73	3,090	70	2.3	95.6	2.2	51,724,520	958,181	49,584,273	1,182,066	1.9	95.9	2.3				
Soap.....	1919	7	15	5	1,008	9	989	10	0.9	98.1	1.0	18,729,572	126,236	18,520,896	82,440	0.7	98.9	0.4				
	1914	10	17	5	460	18	384	58	3.9	83.5	12.6	4,071,310	122,687	4,176,184	372,489	2.6	89.4	8.0				
Stationery goods, not elsewhere specified.	1919	9	17	4	3,305	69	2,864	372	2.1	86.7	11.3	15,161,819	278,862	12,980,840	1,833,117	1.8	85.7	12.5				
	1914	5	18	4	2,467	78	2,020	369	3.2	81.9	15.0	6,511,512	171,806	5,338,260	981,447	2.6	82.3	15.1				
Tools, not elsewhere specified.	1919	48	47	22	7,226	273	6,669	284	3.8	92.3	3.9	29,158,834	1,171,330	26,934,649	1,052,855	4.0	92.4	3.6				
	1914	49	37	14	4,538	288	4,138	112	6.3	91.2	2.5	8,619,903	470,552	7,961,612	187,739	5.5	92.4	2.2				
Wire.....	1919	.....	7	2	5,203	.....	5,203	.....	.....	100.0	.....	24,552,410	.....	24,552,410	.....	.....	100.0	.....			
	1914	.....	6	2	2,899	.....	2,899	.....	.....	100.0	.....	8,389,073	.....	8,389,073	.....	.....	100.0	.....			
Woolen goods.....	1919	12	82	17	17,568	1,140	14,469	1,959	6.5	82.4	11.2	105,183,008	6,570,790	87,280,892	11,331,386	6.2	83.0	10.8				
	1914	12	56	18	13,844	1,370	9,759	2,715	9.9	70.5	19.6	28,391,184	2,075,486	20,261,633	5,454,065	9.4	71.4	19.2				
Worsted goods.....	1919	4	59	8	36,296	234	34,922	1,140	0.6	96.2	3.1	237,443,077	1,394,307	228,132,276	7,916,494	0.6	96.1	3.3				
	1914	5	58	7	39,533	136	38,112	1,285	0.3	96.4	3.3	98,960,250	192,340	94,679,155	4,088,755	0.2	95.7	4.1				
Total for cities.....	1919	4,388,395	1,602	609,671	35,146	534,328	40,197	.....	5.8	87.6	6.6	4,462,478,225	192,042,201	3,016,580,886	253,855,078	5.5	87.1	7.3			
	1914	4,793,314	1,744	606,397	36,065	424,908	45,424	.....	7.1	83.9	9.0	1,390,652,270	97,946,220	1,152,883,069	139,822,987	7.0	82.0	10.1			
ADAMS.....	1919	14	12	6	3,974	30	3,840	104	0.8	96.6	2.6	15,076,858	234,682	14,251,021	591,155	1.6	94.5	3.9				
	1914	20	10	5	3,930	47	3,817	66	1.2	97.1	1.7	6,530,232	180,396	6,098,136	251,700	2.8	93.4	3.9				
AMESBURY.....	1919	14	19	11	3,173	106	2,770	297	3.3	87.3	9.4	16,809,509	881,998	14,457,739	969,772	5.4	88.6	5.9				
	1914	20	20	13	1,451	173	1,404	234	11.9	72.0	16.1	3,551,434	419,759	2,457,156	674,519	11.8	69.2	19.0				
ARLINGTON.....	1919	18	8	1	228	81	147	.....	35.5	64.5	.....	1,006,207	402,060	604,147	.....	40.0	60.0	.....			
	1914	10	6	3	246	29	179	38	11.8	72.8	15.4	641,092	91,465	448,648	100,979	14.3	70.0	15.8				
ATTLEBORO.....	1919	51	47	46	6,763	582	4,195	1,986	8.6	62.0	29.4	34,471,577	3,143,610	24,196,853	7,131,084	9.1	70.2	20.7				
	1914	54	44	43	6,058	533	4,108	1,417	8.8	67.8	23.4	13,946,884	1,008,207	9,703,405	3,235,272	7.2	69.6	23.2				
BELMONT.....	1919	4	2	.....	93	93	.....	.....	100.0	.....	.....	374,586	374,586	.....	.....	100.0	.....	.....		
BEVERLY.....	1919	36	21	13	6,495	529	5,023	343	8.1	86.6	5.3	21,829,684	1,992,379	18,114,087	1,723,218	9.1	83.0	7.9				
	1914	38	14	15	4,641	611	3,560	470	13.2	70.7	10.1	8,774,187	1,633,302	6,044,600	1,096,279	18.6	68.9	12.5				
BOSTON.....	1919	1,365,121	494	88,759	9,552	71,339	7,868	.....	10.8	80.4	8.9	618,921,962	53,395,108	501,765,774	63,761,080	8.6	81.0	10.3			
	1914	1,637,107	528	78,594	10,275	59,222	9,397	.....	13.0	75.1	11.9	284,802,479	27,547,022	222,169,459	35,095,968	9.7	78.0	12.3			
BRAINTREE.....	1919	8	10	1	2,176	54	2,122	.....	2.5	97.5	.....	11,974,830	500,668	11,474,171	.....	4.2	95.8	.....			
BROCKTON.....	1919	62	105	50	18,052	718	16,119	1,222	4.0	89.3	6.8	117,855,025	4,652,156	102,611,791	10,591,078	3.9	87.1	9.0				
	1914	89	92	62	10,246	780	18,510	1,956	4.8	83.2	12.0	51,269,131	2,556,153	41,620,603	7,082,285	5.0	81.2	13.8				
BROOKLINE.....	1919	18	11	8	484	143	330	11	29.5	68.2	2.3	2,243,311	640,582	1,374,001	228,638	28.6	61.3	10.2				
	1914	9	5	7	335	54	230	51	16.1	68.7	15.2	658,502	104,942	379,939	113,621	15.9	66.8	17.3				
CAMBRIDGE.....	1919	128	167	44	22,550	969	20,225	1,356	4.3	89.7	6.0	127,864,901	5,022,880	113,118,372	9,723,649	3.9	88.5	7.6				
	1914	128	146	42	16,749	1,008	14,432	1,309	6.0	86.2	7.8	57,483,949	2,984,029	50,030,803	4,469,117	5.2	87.0	7.8				
CHELSEA.....	1919	40	48	26	6,580	307	5,284	889	4.7	81.8	13.5	32,530,518	1,925,130	24,801,479	5,809,909	5.9	76.2	17.9				
	1914	61	41	21	6,241	264	5,148	829	4.2	82.5	13.3	16,971,028	1,970,536	13,932,184	2,168,308	6.1	82.1	12.8				
CHICOPEE.....	1919	25	29	6	10,068	124	9,916	28	1.2	98.5	0.3	80,772,534	546,736	88,997,232	228,506	0.6	99.1	0.3				
	1914	28	26	8	8,426	112	8,254	60	1.3	98.0	0.7	28,869,162	311,935	28,465,373	91,844	1.1	98.6	0.3				
CLINTON.....	1919	15	14	4	4,155	28	4,115	12	0.7	99.0	0.3	15,179,819	147,037	14,983,661	48,221	1.0	98.7	0.3				
	1914	23	12	1	4,064	37	4,024	3	0.9	99.0	0.1	6,735,297	136,124	6,591,273	7,900	2.0	97.9	0.1				
DANVERS.....	1919	10	13	2	1,474	125	1,349	.....	8.5	91.5	.....	11,541,830	483,627	11,058,212	.....	4.2	95.8	.....			
DEDHAM.....	1919	14	5	1	463	240	223	.....	51.8	48.2	.....	1,737,673	1,008,014	729,659	.....	58.0	42.0	.....			
	1914	9	4	2	256	23	227	6	9.0	88.7	2.3	427,690	56,320	361,359	10,011	13.2	84.5	2.3				
EASTHAMPTON.....	1919	13	10	5	4,142	31	3,416	695	0.7	82.5	16.8	37,942,121	99,809	28,472,624	9,369,688	0.3	75.0	24.7				
EVERETT.....	1919	29	61	14	4,523	351	3,759	413	7.8	83.1	9.1	35,775,728	1,948,991	30,996,472	2,890,265	5.4	86.6	7.9				
	1914	31	42	12	3,226	154	2,616	456	4.7	81.2	14.1	13,219,200	495,473	11,423,355	1,300,372	3.8	86.4	9.8				
FALL RIVER.....	1919	150	106	37	37,015	606	36,012	397	1.6	97.3	1.1	163,246,082	3,102,776	157,995,842	2,147,464	1.9	96.8	1.3				
	1914	181	92	42	36,834	651	35,753	430	1.8	97.0	1.2	84,063,146	2,083,470	81,687,780	891,896	3.2	95.4	1.4				
FITCHBURG.....	1919	46	55	20	9,907	253	8,250	1,395	2.6	83.4	14.1	58,164,842	1,082,331	42,555,087	14,527,424	1.9	73.2	25.0				
	1914	65	53	19	8,837	853	7,442	512	9.													

MANUFACTURES—MASSACHUSETTS.

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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 ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
GLOUCESTER.....	1919	35	42	13	2,684	105	2,468	111	3.9	92.0	4.1	\$18,803,673	\$773,234	\$17,553,013	\$477,426	4.1	93.3	2.5				
	1914	36	29	22	2,814	229	2,263	322	8.1	80.4	11.5	8,533,964	657,191	6,997,958	878,815	7.7	82.0	10.3				
GREENFIELD.....	1919	19	26	8	2,750	62	2,620	68	2.3	95.3	2.5	9,481,382	506,233	8,808,072	167,077	5.3	92.9	1.8				
	1914	21	23	6	1,602	131	1,424	47	8.2	88.9	2.9	3,527,101	226,500	2,963,334	337,177	6.4	84.0	9.6				
HAVERHILL.....	1919	166	126	113	15,783	3,427	8,794	3,562	21.7	55.7	22.6	96,276,853	20,497,070	51,141,825	24,637,958	21.3	53.1	25.6				
	1914	212	72	114	13,281	2,973	6,003	4,305	22.3	45.2	32.5	42,409,246	9,741,440	17,979,562	14,688,244	23.0	42.4	34.6				
HOLYOKE.....	1919	74	80	22	17,773	351	16,584	838	2.0	93.3	4.7	93,426,775	2,277,460	88,015,938	3,133,377	2.4	94.2	3.4				
	1914	104	88	30	17,493	470	16,558	465	2.7	94.6	2.7	44,041,155	1,057,481	41,413,664	1,570,010	2.4	94.0	3.6				
LAWRENCE.....	1919	102	73	19	30,319	902	29,201	126	3.0	96.6	0.4	183,440,096	3,654,659	179,056,079	738,358	2.0	97.6	0.4				
	1914	135	56	30	31,043	810	29,003	1,230	2.6	93.4	4.0	73,177,803	2,008,687	67,589,014	3,580,102	2.7	92.4	4.9				
LEOMINSTER.....	1919	29	48	15	5,793	386	4,879	528	6.7	84.2	9.1	24,928,790	1,176,775	21,169,230	2,582,785	4.7	84.9	10.4				
	1914	31	44	14	4,920	378	4,098	453	7.7	83.1	9.2	10,838,024	778,585	9,195,460	863,970	7.2	84.8	8.0				
LOWELL.....	1919	144	103	44	30,111	1,042	28,750	319	3.5	95.5	1.1	137,801,538	5,212,282	131,118,104	1,471,152	3.8	95.1	1.1				
	1914	169	91	40	29,904	1,109	28,241	554	3.7	94.4	1.9	66,048,641	2,525,323	52,285,100	1,238,158	4.5	93.3	2.2				
LYNN.....	1919	200	158	84	27,355	4,011	21,585	1,759	14.7	78.9	6.4	160,905,792	26,384,545	117,604,363	16,916,884	16.4	73.1	10.5				
	1914	199	110	114	25,339	3,798	17,047	4,494	15.0	67.3	17.7	60,783,418	11,071,309	42,585,156	16,126,893	15.9	61.0	23.1				
MALDEN.....	1919	54	30	15	4,723	221	4,338	164	4.7	91.8	3.5	22,077,624	1,031,989	20,316,390	729,245	4.7	92.0	3.3				
	1914	46	32	14	2,850	238	2,452	160	8.4	86.0	5.6	8,366,344	656,931	7,358,072	351,341	7.9	87.9	4.2				
MARLBOROUGH.....	1919	25	16	7	3,708	68	3,720	10	1.8	97.8	0.3	19,044,907	358,870	18,592,017	94,020	1.9	97.6	0.5				
	1914	17	18	8	3,822	45	3,758	19	1.2	98.3	0.5	9,983,632	124,073	9,755,604	102,965	1.3	97.7	1.0				
MEDFORD.....	1919	27	23	4	1,031	64	902	65	6.2	87.5	6.3	5,065,723	337,631	5,128,810	199,282	6.0	90.5	3.5				
	1914	33	17	4	559	78	403	78	14.0	72.0	14.0	2,618,893	229,010	2,240,980	142,903	8.7	85.8	5.5				
MELROSE.....	1919	12	12	3	1,606	47	1,513	40	2.9	94.2	2.9	6,083,698	228,276	5,677,361	178,061	3.8	93.3	2.9				
	1914	11	11	4	962	36	707	159	3.8	79.7	16.5	2,499,029	72,227	1,919,386	507,416	2.9	76.8	20.3				
METHUEN.....	1919	23	8	2	2,571	133	2,438	.....	5.2	94.8	.....	14,214,905	1,087,864	13,527,041	.....	4.8	95.2	.....			
	1914	14	8	3	1,940	27	1,904	9	1.4	98.1	0.5	4,461,111	77,932	4,345,889	37,290	1.8	97.4	0.8				
MILFORD.....	1919	24	15	9	1,809	177	1,587	45	9.8	87.7	2.5	8,408,531	736,808	7,452,775	218,948	8.8	88.6	2.6				
	1914	28	18	13	1,749	136	1,535	78	7.8	87.8	4.4	4,028,492	358,034	3,438,320	232,138	8.9	85.3	5.8				
NATICK.....	1919	25	13	11	1,463	204	517	742	13.9	35.3	50.7	7,393,397	1,695,006	2,021,239	3,677,162	22.0	27.3	49.7				
	1914	18	10	10	1,347	229	290	828	17.1	21.5	61.4	4,566,253	1,104,967	985,654	2,415,632	25.5	21.0	52.9				
NEW BEDFORD.....	1919	142	88	37	41,630	753	40,600	187	1.8	97.7	0.4	210,773,312	3,930,618	205,223,466	1,619,228	1.9	97.4	0.8				
	1914	124	71	38	33,343	509	32,486	348	1.5	97.5	1.0	65,575,005	1,007,963	62,341,420	1,625,622	2.4	95.1	2.5				
NEWBURYPORT.....	1919	31	26	7	3,960	671	3,197	92	16.9	80.7	2.3	20,595,015	3,869,699	16,402,081	323,235	18.8	79.6	1.6				
	1914	25	19	10	3,349	544	2,276	529	16.2	68.0	15.8	8,245,998	1,213,138	5,846,296	1,186,564	14.7	70.9	14.4				
NEWTON.....	1919	20	23	6	2,547	142	2,013	392	5.6	79.0	15.4	15,524,567	1,011,492	12,216,925	2,296,150	6.5	78.7	14.8				
	1914	32	19	7	2,154	167	1,630	357	7.7	75.8	16.5	5,022,853	548,958	4,478,654	795,241	9.4	76.0	13.7				
NORTH ADAMS.....	1919	32	23	10	6,023	171	5,816	30	2.8	96.6	0.6	36,203,767	662,812	35,326,378	214,577	1.8	97.6	0.6				
	1914	33	22	15	5,288	166	4,705	417	3.1	89.0	7.9	10,922,575	367,666	9,400,346	1,154,563	3.4	88.0	10.6				
NORTHAMPTON.....	1919	33	21	9	3,532	121	2,640	792	3.4	75.0	21.6	17,960,020	505,265	14,641,189	2,814,166	2.8	81.5	15.7				
	1914	40	24	11	3,446	104	2,731	551	4.8	79.2	16.0	8,580,730	466,529	6,282,244	1,831,957	5.4	73.2	21.4				
NORTHBRIDGE.....	1919	7	3	3	3,871	11	3,860	.....	0.3	99.7	.....	13,848,897	57,098	13,791,709	.....	0.4	99.6	.....			
NORWOOD.....	1919	10	12	4	2,835	115	2,363	357	4.1	83.4	12.6	20,350,242	405,616	17,100,930	2,852,696	2.0	84.0	14.0				
PEABODY.....	1919	36	42	13	8,013	441	7,203	279	5.5	91.0	3.5	52,906,722	1,868,307	48,658,980	2,379,435	3.5	92.0	4.5				
	1914	35	32	10	6,485	684	4,647	154	12.5	84.7	2.8	18,441,906	1,319,131	16,616,104	506,671	7.2	90.1	2.7				
PITTSFIELD.....	1919	39	36	15	8,570	103	7,730	737	1.2	90.2	8.6	41,613,356	709,518	37,440,594	3,463,244	1.7	90.0	8.3				
	1914	42	29	13	7,490	125	6,704	661	1.7	89.5	8.8	22,241,237	452,361	20,309,994	1,478,882	2.0	91.3	6.7				
PLYMOUTH.....	1919	14	15	2	2,971	141	2,930	.....	1.4	98.6	.....	31,319,553	1,318,079	31,001,474	.....	1.0	99.0	.....			
	1914	19	15	3	2,845	40	2,784	21	1.4	97.9	0.7	13,904,545	158,476	13,671,605	74,464	1.2	98.3	0.5				
QUINCY.....	1919	87	30	45	19,653	566	18,818	269	2.9	95.8	1.4	68,535,406	2,528,009	64,505,704	1,501,693	3.7	94.1	2.2				
	1914	91	30	56	5,783	670	4,544	569	11.6	78.6	9.8	12,097,452	1,369,516	9,324,110	1,403,826	11.3	67.1	11.6				
REVERE.....	1919	22	6	3	126	31	91	4	24.6	72.2	3.2	767,294	226,536	506,953	33,805	29.5	66.1	4.4				
	1914	22	3	2	80	30	50	.....	37.5	62.5	.....	349,696	144,242	202,615	2,839	41.3	57.9	0.8		
SALEM.....	1919	64	61	28	5,672	409	3,815	1,448	7.2	67.3	25.5	30,437,957	2,274,720	20,842,377	7,320,851	7.5	68.5	24.1				
	1914	96	46	36	5,294	793	2,992	1,509	15.0	56.5	28.5	13,652,586	1,907,717	8,336,860	3,408,009	14.0	61.0	25.0				
SAUGUS.....	1919	7	4	3	126	5	119	2	4.0	94.4	1.6	1,157,215	49,406	1,089,772	18,038	4.3	94.2	1.6				
SOMERVILLE.....	1919	73	52	15	6,111	544	5,366	201	8.9	87.8	3.3	90,558,513	2,881,301	95,166,058	1,511,154	2.9	95.6	1.5				
	1914	70																				

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
WAKEFIELD.....	1919	13	16	3	1,869	30	1,298	541	1.6	69.4	28.9	\$8,977,010	\$213,579	\$5,838,835	\$2,924,506	2.4	65.0	32.6				
	1914	6	12	4	2,008	25	1,398	585	1.3	69.0	29.1	6,057,659	50,262	4,198,384	1,809,013	0.8	60.3	29.9				
WALTHAM.....	1919	43	36	14	8,089	398	7,472	199	4.9	92.6	2.5	20,878,515	1,265,829	18,544,958	1,067,728	6.1	88.8	5.1				
	1914	50	28	10	6,465	303	6,014	148	4.7	93.0	2.3	10,236,012	615,646	9,195,339	425,027	6.0	89.8	4.2				
WATERTOWN.....	1919	4	15	6	8,420	15	8,049	356	0.2	95.6	4.2	47,297,519	93,132	44,967,917	2,236,470	0.2	95.1	4.7				
	1914	10	16	4	4,787	9	4,773	5	0.2	99.7	0.1	14,764,326	27,460	14,608,310	38,547	0.2	99.5	0.3				
WEBSTER.....	1919	12	11	1	3,849	1,294	3,555	.....	7.6	92.4	.....	28,400,765	1,697,902	26,702,863	.....	6.0	94.0	.....			
	1914	9	12	2	3,246	39	3,031	176	1.2	93.4	5.4	9,233,919	83,307	8,845,967	304,615	0.9	95.8	3.3				
WESTFIELD.....	1919	39	29	17	3,243	217	2,797	229	6.7	86.2	7.1	14,278,973	798,394	12,458,830	1,021,749	5.6	87.3	7.2				
	1914	51	27	22	3,584	249	3,013	322	6.9	84.1	9.0	8,420,439	1,359,590	6,803,744	757,105	10.1	74.9	9.0				
WEST SPRINGFIELD.....	1919	14	8	1	2,791	139	2,752	.....	1.4	98.6	.....	12,386,556	1,236,548	12,150,008	.....	1.9	98.1	.....			
	1914	15	8	6	2,209	24	2,173	12	1.1	98.4	0.5	5,039,953	91,795	4,896,418	51,740	1.8	97.2	1.0				
WEYMOUTH.....	1919	16	15	3	2,146	60	1,969	117	2.8	91.8	5.5	16,836,997	186,092	16,160,842	490,063	1.1	96.0	2.9				
	1914	23	11	6	2,074	90	1,579	405	4.3	76.1	19.6	8,251,041	171,264	6,024,194	1,155,583	2.1	83.9	14.0				
WINCHESTER.....	1919	6	10	1	1,112	185	1,027	.....	7.6	92.4	.....	9,697,701	1,234,894	9,462,837	.....	2.4	97.6	.....			
	1914	9	10	.....	1,048	79	969	.....	7.5	92.5	.....	5,159,479	201,804	4,957,675	.....	3.9	96.1	.....			
WINTHROP.....	1919	15	2	2	61	52	19	.....	85.2	14.8	.....	330,234	191,823	1138,411	.....	58.1	41.9	.....			
	1914	9	1	.....	16	14	2	.....	87.5	12.5	.....	77,994	50,931	27,063	.....	65.3	34.7	.....			
WOBURN.....	1919	23	25	5	2,011	233	1,633	145	11.6	81.2	7.2	13,980,185	950,394	12,565,146	464,645	6.8	89.9	3.3				
	1914	29	21	7	1,565	340	1,002	223	21.7	64.0	14.3	5,517,806	797,652	3,990,872	720,282	14.5	72.3	13.2				
WORCESTER.....	1919	237	288	93	38,673	1,838	33,864	2,971	4.8	87.6	7.7	208,705,773	8,787,010	184,466,745	15,451,418	4.2	88.4	7.4				
	1914	272	225	109	20,452	2,067	24,195	3,190	7.0	82.2	10.8	82,829,356	4,800,102	69,615,856	8,404,398	5.8	84.1	10.1				

¹ Includes the group "All others."

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	.....	66	.....	30	.....	20	.....	7	.....	.....	.....
	1914	.....	59	.....	33	.....	19	.....	7	.....	.....	.....
	1909	.....	54	.....	29	.....	20	.....	5	.....	.....	.....
Population ¹.....	1920	3,852,356	3,144,077	81.6	504,111	15.4	1,028,383	26.7	1,521,583	39.5	708,279	18.4
	1915	3,605,522	2,876,682	79.8	494,004	13.7	932,626	25.9	1,450,058	40.2	728,840	20.2
	1910	3,366,416	2,606,380	77.4	435,391	12.9	1,008,483	30.0	1,162,506	34.5	760,036	22.6
Number of establishments.....	1919	11,906	9,947	83.5	1,740	14.6	2,921	24.5	5,286	44.4	1,959	16.5
	1914	12,013	9,851	82.0	1,617	13.5	2,931	24.4	5,303	44.1	2,102	18.0
	1909	11,684	9,208	78.8	1,427	12.2	3,124	26.7	4,057	39.9	2,476	21.2
Average number of wage earners.....	1919	713,836	609,671	85.4	126,170	17.7	206,334	28.9	277,167	38.8	104,165	14.6
	1914	606,698	506,397	83.5	93,119	15.3	173,802	28.7	239,410	39.5	100,301	16.5
	1909	584,559	477,134	81.6	84,242	14.4	205,982	35.2	186,910	32.0	107,425	18.4
Value of products.....	1919	\$4,011,181,532	\$3,462,478,225	86.3	\$673,035,035	16.8	\$1,223,796,067	30.5	\$1,565,046,523	39.0	\$548,703,307	13.7
	1914	1,641,373,047	1,390,652,276	84.7	235,555,479	14.4	499,265,967	30.4	655,831,430	40.0	250,720,771	15.3
	1909	1,490,529,386	1,234,417,010	82.8	201,047,032	13.5	543,867,703	36.5	490,002,275	32.9	256,112,876	17.2
Value added by manufacture.....	1919	1,750,468,490	1,510,299,854	86.3	291,944,685	16.7	521,169,292	29.8	697,185,877	39.8	240,168,642	13.7
	1914	709,989,254	606,736,515	85.5	104,061,600	14.7	204,494,886	28.8	238,179,969	42.0	103,252,739	14.5
	1909	659,764,443	548,219,736	83.1	90,791,565	13.8	229,499,986	34.8	227,028,185	34.5	111,541,707	16.9

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.

MANUFACTURES—MASSACHUSETTS.

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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.
BOSTON.					FALL RIVER—Continued.				
Confectionery and ice cream.....	\$46,006,820	66.9	\$30,851,060	202.4	Foundry and machine-shop products ²	\$3,007,201	2.2	\$2,843,244	287.2
Foot and shoe cut stock.....	35,443,382	41.1	24,339,648	219.2	Cotton small wares.....	1,947,518	23.6	1,408,534	306.6
Foundry and machine-shop products ²	34,130,476	19.2	21,796,256	176.7	Bread and other bakery products.....	1,874,956	2.8	857,724	84.3
Printing and publishing, newspapers and periodicals.....	33,607,374	71.8	15,692,204	87.6	Belted, leather.....	738,944	18.7	(³)	.....
Clothing, men's.....	31,337,508	75.6	17,608,195	123.3	Bags, other than paper, not including bags made in textile mills.....	(³)	(³)	(³)	(³)
Boots and shoes, not including rubber boots and shoes.....	27,526,880	6.2	14,273,476	107.7	Cordage and twine.....	(³)	(³)	(³)	(³)
Chocolate and cocoa products.....	24,277,494	80.1	(³)	.....	Gas, illuminating and heating.....	(³)	(³)	(³)	(³)
Printing and publishing, book and job.....	22,809,951	54.8	10,736,573	88.9	Hats, fur-felt.....	(³)	(³)	(³)	(³)
Bread and other bakery products.....	21,680,632	32.8	10,267,254	90.0	HAVERHILL.				
Clothing, women's.....	20,655,035	67.9	11,047,177	115.0	Boots and shoes, not including rubber boots and shoes.....	59,699,812	13.5	34,379,850	135.8
Coffee and spice, roasting and grinding.....	16,239,248	95.6	7,775,753	91.9	Foot and shoe cut stock.....	14,924,501	17.3	8,717,528	140.4
Electrical machinery, apparatus, and supplies.....	10,671,247	11.6	7,036,332	193.6	Boot and shoe findings.....	9,424,749	21.2	5,310,321	129.1
Liquors, malt.....	8,956,330	60.9	120,058	1.4	Boxes, wooden packing, except cigar boxes.....	964,350	6.4	366,517	61.3
Drugs and preparations.....	8,661,345	86.7	7,844,992	961.0	Boxes, set-up paper boxes and cartons.....	729,455	4.7	444,223	155.7
Tobacco, cigars and cigarettes.....	8,400,426	72.7	1,772,448	26.7	Bread and other bakery products.....	694,375	1.1	411,643	145.6
Steam fittings and steam and hot-water heating apparatus.....	8,134,716	60.4	5,053,758	164.0	Hats, wool-felt.....	(³)	(³)	(³)	(³)
Slaughtering and meat packing.....	6,651,615	6.0	1,536,472	30.0	Leather, tanned, curried, and finished.....	(³)	(³)	(³)	(³)
Food preparations, not elsewhere specified.....	5,666,552	50.0	3,106,395	126.6	Paper and wood pulp.....	(³)	(³)	(³)	(³)
Furniture.....	5,344,428	22.6	3,116,340	139.9	Woolen goods.....	(³)	(³)	(³)	(³)
Pickles, preserves, and sauces.....	5,246,494	83.9	3,273,133	165.9	HOLYOKE.				
Cars and general shop construction and repairs by steam-railroad companies.....	4,728,165	20.9	-296,151	-5.9	Paper and wood pulp.....	21,375,804	24.5	8,197,360	62.2
House-furnishing goods, not elsewhere specified.....	4,685,175	60.8	4,468,105	2,058.4	Stationery goods, not elsewhere specified.....	4,401,361	29.6	2,600,352	137.5
Copper, tin, and sheet-iron work.....	4,619,480	55.6	2,343,483	103.0	Paper goods, not elsewhere specified.....	3,644,794	26.9	1,713,230	88.7
Musical instruments, pianos.....	4,552,210	56.0	1,744,634	62.1	Bookbinding and blank-book making.....	2,852,417	34.9	1,577,657	123.8
Cotton goods.....	4,407,023	0.7	3,179,415	258.9	Foundry and machine-shop products.....	2,387,061	2.1	1,299,587	119.4
Knit goods.....	4,204,571	8.0	2,008,890	163.5	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	1,349,854	10.7	708,501	110.5
Cutlery and edge tools.....	(³)	(³)	(³)	(³)	Bread and other bakery products.....	950,597	1.4	389,823	69.5
Ordnance and accessories.....	(³)	(³)	(³)	(³)	Cotton goods.....	(³)	(³)	(³)	(³)
Sugar, refining, not including beet sugar.....	(³)	(³)	(³)	(³)	Pumps, steam.....	(³)	(³)	(³)	(³)
BROCKTON.					Silk goods.....	(³)	(³)	(³)	(³)
Boots and shoes, not including rubber boots and shoes.....	81,543,511	18.4	46,510,876	132.8	Worsted goods.....	125,700,608	53.0	(³)	.....
Foot and shoe findings.....	14,075,800	31.7	8,741,958	163.9	Cotton goods.....	20,937,148	3.5	13,794,021	193.1
Foot and shoe cut stock.....	6,978,865	6.9	2,223,337	59.2	Foundry and machine-shop products ²	3,892,342	2.2	2,619,601	205.8
Lasts.....	1,857,430	31.6	1,273,078	217.9	Paper and wood pulp.....	3,607,646	4.2	(³)	.....
Foundry and machine-shop products.....	929,057	0.8	497,732	115.4	Bread and other bakery products.....	1,409,364	2.1	609,625	76.2
Printing, job.....	920,823	2.2	438,619	91.0	Boots and shoes, not including rubber boots and shoes.....	(³)	(³)	(³)	(³)
Blacking, stains, and dressings.....	837,536	11.8	408,001	95.0	Carpets and rugs, other than rag.....	(³)	(³)	(³)	(³)
Bread and other bakery products.....	800,788	1.2	-259,732	-24.3	Dyeing and finishing textiles, exclusive of that done in textile mills.....	(³)	(³)	(³)	(³)
Cotton small wares.....	800,950	9.7	(³)	.....	Wool scouring.....	(³)	(³)	(³)	(³)
Confectionery and ice cream.....	(³)	(³)	(³)	(³)	Woolen goods.....	(³)	(³)	(³)	(³)
Gas, illuminating and heating.....	(³)	(³)	(³)	(³)	LAWRENCE.				
Iron and steel, nails and spikes, not made in steel works or rolling mills.....	(³)	(³)	(³)	(³)	Worsted goods.....	125,700,608	53.0	(³)	.....
Suspenders, garters, and elastic woven goods.....	(³)	(³)	(³)	(³)	Cotton goods.....	20,937,148	3.5	13,794,021	193.1
CAMBRIDGE.					Foundry and machine-shop products ²	3,892,342	2.2	2,619,601	205.8
Confectionery and ice cream.....	11,460,261	16.6	7,652,552	201.0	Paper and wood pulp.....	3,607,646	4.2	(³)	.....
Bread and other bakery products.....	9,094,101	13.8	5,139,008	130.0	Bread and other bakery products.....	1,409,364	2.1	609,625	76.2
Electrical machinery, apparatus, and supplies.....	8,718,570	9.5	(³)	.....	Boots and shoes, not including rubber boots and shoes.....	(³)	(³)	(³)	(³)
Printing and publishing, book and job.....	7,821,316	18.8	4,956,400	173.0	Carpets and rugs, other than rag.....	(³)	(³)	(³)	(³)
Foundry and machine-shop products ²	7,766,380	4.3	4,232,066	276.0	Dyeing and finishing textiles, exclusive of that done in textile mills.....	(³)	(³)	(³)	(³)
Furniture.....	2,178,731	9.2	894,967	99.7	Wool scouring.....	(³)	(³)	(³)	(³)
Musical instruments, pianos.....	1,601,707	19.7	(³)	.....	Woolen goods.....	(³)	(³)	(³)	(³)
Structural ironwork, not made in steel works or rolling mills.....	1,543,477	23.1	588,207	61.6	LOWELL.				
Copper, tin, and sheet-iron work.....	1,509,124	18.1	(³)	.....	Cotton goods.....	60,451,404	10.1	37,445,483	102.8
Boxes, set-up paper boxes.....	1,447,157	0.2	843,377	141.7	Knit goods.....	17,172,090	32.8	(³)	.....
Bookbinding and blank-book making.....	1,280,108	15.6	862,544	206.6	Foundry and machine-shop products ²	9,499,973	5.3	6,681,521	239.6
Automobiles.....	(³)	(³)	(³)	(³)	Dyeing and finishing textiles, exclusive of that done in textile mills.....	5,369,860	7.1	3,929,594	272.8
Belted and hose, rubber.....	(³)	(³)	(³)	(³)	Woolen goods.....	5,368,558	5.1	4,163,095	345.7
Blacking, stains, and dressings.....	(³)	(³)	(³)	(³)	Worsted goods.....	4,429,638	1.9	1,710,447	62.9
Boots and shoes, rubber.....	(³)	(³)	(³)	(³)	Boots and shoes, not including rubber boots and shoes.....	3,137,655	0.7	-411,388	-11.6
Clothing, men's.....	(³)	(³)	(³)	(³)	Bread and other bakery products.....	1,723,508	2.6	989,464	134.8
Gas, illuminating and heating.....	(³)	(³)	(³)	(³)	Patent medicines and compounds.....	1,512,540	16.6	717,200	90.2
Grease and tallow, not including lubri- cating greases.....	(³)	(³)	(³)	(³)	Boxes, wooden packing, except cigar boxes.....	1,245,871	8.3	589,652	89.9
Ink, writing.....	(³)	(³)	(³)	(³)	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	1,131,274	9.0	604,040	142.4
Needles, pins, and hooks and eyes.....	(³)	(³)	(³)	(³)	Ammunition.....	(³)	(³)	(³)	(³)
Nets and seines.....	(³)	(³)	(³)	(³)	Gas, illuminating and heating.....	(³)	(³)	(³)	(³)
Oleomargarine, and other butter sub- stitutes.....	(³)	(³)	(³)	(³)	Leather, tanned, curried, and finished.....	(³)	(³)	(³)	(³)
Pumps, steam.....	(³)	(³)	(³)	(³)	Liquors, malt.....	(³)	(³)	(³)	(³)
Soap.....	(³)	(³)	(³)	(³)	LYNN.				
Stationery goods, not elsewhere specified.....	(³)	(³)	(³)	(³)	Boots and shoes, not including rubber boots and shoes.....	66,457,349	15.0	36,390,534	121.0
FALL RIVER.					Electrical machinery, apparatus, and supplies.....	33,149,457	36.1	(³)	.....
Cotton goods.....	135,783,717	22.8	86,267,690	174.2	Foot and shoe cut stock.....	23,152,402	26.9	12,724,972	122.0
Dyeing and finishing textiles, exclusive of that done in textile mills.....	8,250,120	11.0	(³)	.....	Leather, tanned, curried, and finished.....	15,824,162	12.2	11,975,491	311.2
					Foot and shoe findings.....	7,057,957	15.9	3,661,144	107.8
					Bread and other bakery products.....	1,631,554	2.5	847,521	108.1
					Lasts.....	1,479,392	25.1	1,090,255	280.2
					Foundry and machine-shop products.....	1,209,393	1.1	685,825	131.0
					Blacking, stains, and dressings.....	942,601	13.3	417,150	79.4
					Mucilage, paste, and other adhesives, not elsewhere specified.....	710,039	26.6	(³)	.....

¹ A minus sign (-) denotes decrease.² Includes "iron and steel, tempering and welding," and "textile machinery and parts."³ Figures can not be shown without disclosing individual operations.⁴ Includes "iron and steel, welding," and "machine tools."⁵ Includes "iron and steel, welding," and "textile machinery and parts."⁶ Includes "textile machinery and parts."

MANUFACTURES—MASSACHUSETTS.

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.				
LYNN—Continued.					SPRINGFIELD—Continued.								
Boxes, set-up paper boxes.....	\$505,239	3.2	—\$230,709	—31.3	Chemicals.....	(2)	(2)	(2)	(2)				
Printing, job.....	501,081	1.2	150,236	45.3	Chocolate and cocoa products.....								
Boxes, wooden packing, except cigar boxes.....	(2)	(2)	(2)	(2)	Clothing, men's.....								
Gas, illuminating and heating.....					Cotton goods.....								
Patent and proprietary medicines.....					Envelopes.....								
NEW BEDFORD.					Firearms.....					(2)	(2)	(2)	(2)
Cotton goods.....	177,058,520	29.7	125,292,250	242.0	Gas, illuminating and heating.....								
Bread and other bakery products.....	2,409,319	3.6	1,190,552	97.7	Iron and steel, forgings, not made in steel works or rolling mills.....								
Oil, animal and composite.....	1,890,030	43.3	(2)		Knit goods.....								
Foundry and machine-shop products *.....	1,385,682	0.8	863,426	165.3	Motorcycles, bicycles, and parts.....								
Printing and publishing, newspapers and periodicals.....	659,405	1.4	249,197	60.7	Slaughtering and meat packing.....								
Sausage, not made in slaughtering and meat-packing establishments.....	573,008	10.8	261,590	84.0	Sporting and athletic goods.....								
Boot and shoe findings.....					Toys and games.....								
Boots and shoes, not including rubber boots and shoes.....	(2)	(2)	(2)	(2)	WORCESTER.								
Brass and bronze products.....					Foundry and machine-shop products *.....	\$36,104,377	17.9	\$25,200,412	231.				
Gas, illuminating and heating.....					Boots and shoes, not including rubber boots and shoes.....	7,396,821	1.7	4,709,077	181.				
Glass.....					Envelopes.....	0,409,355	59.5	3,005,955	125.				
Paper goods, not elsewhere specified.....					Cotton goods.....	5,864,450	1.0	5,158,482	730.				
Silk goods, including throwsters.....	Corsets.....	5,235,051	77.4	1,801,544	52.								
Tools, not elsewhere specified.....	Woolen goods.....	4,782,280	4.5	3,091,795	132.								
SOMERVILLE.					Worsted goods.....	4,082,705	1.7	2,188,047	115.				
Slaughtering and meat packing *.....	84,740,246	73.3	48,405,051	133.2	Electrical machinery, apparatus, and sup- plies.....	3,110,670	3.4	2,839,592	1,047.				
Bread and other bakery products.....	1,652,912	2.5	985,038	147.5	Tools, not elsewhere specified.....	3,020,205	10.4	2,601,571	621.				
Grease and tallow, not including lubricating greases.....	609,832	8.3	(2)		Bread and other bakery products.....	2,895,707	4.3	1,358,092	90.				
Confectionery and ice cream.....	493,031	0.7	181,834	58.4	Clothing, women's.....	2,701,688	8.9	1,050,115	63.				
Bags, paper, not including bags made in paper mills.....	(2)	(2)	(2)	(2)	Musical instruments, piano and organ ma- terials.....	2,250,802	47.3	1,063,441	278.				
Brass, bronze, and copper products.....					Printing and publishing, newspapers and periodicals.....	2,132,957	4.0	1,208,114	130.				
Cars and general shop construction and repairs by steam-railroad companies.....					Wirework, not elsewhere specified.....	1,750,514	38.7	—853,320	—32.				
Food preparations, not elsewhere specified.....					Stamped ware, not elsewhere specified.....	1,611,691	57.5	464,202	44.				
Furniture, wood, other than rattan and willow.....					Clothing, men's.....	1,238,117	3.0	569,687	85.				
SPRINGFIELD.					Structural ironwork, not made in steel works or rolling mills.....	1,142,349	17.1	477,469	71.				
Foundry and machine-shop products *.....	8,683,567	6.4	5,889,463	210.8	Cutlery and edge tools.....	1,132,095	5.8	894,747	376.				
Electrical machinery, apparatus, and sup- plies.....	7,276,769	7.9	3,262,092	81.3	Dyeing and finishing textiles, exclusive of that done in textile mills.....	1,016,184	1.4	208,349	35.				
Bread and other bakery products.....	4,347,014	6.6	2,932,013	207.4	Carpets and rugs, other than rag.....								
Brass and bronze products.....	3,467,771	20.5	2,987,287	621.7	Emery and other abrasive wheels.....								
Confectionery and ice cream.....	2,648,450	3.8	1,419,343	115.5	Gas, illuminating and heating.....								
Stationery goods, not elsewhere specified.....	2,354,496	15.5	(2)		Iron and steel, steel works and rolling mills.....								
Printing and publishing, newspapers and periodicals.....	2,297,506	4.9	370,575	19.2	Iron and steel, forgings, not made in steel works or rolling mills.....								
Printing and publishing, book and job.....	2,288,133	5.5	1,098,463	87.6	Leather, tanned, curried, and finished.....	(2)	(2)	(2)	(2)				
Automobile bodies and parts.....	1,759,735	12.2	1,374,683	357.0	Liquors, malt.....								
Saws.....	1,849,950	32.2	(2)		Ordnance and accessories.....								
Tobacco, cigars.....	1,250,382	10.8	330,177	35.9	Screws, wood.....								
					Slaughtering and meat packing.....								
					Suspenders, garters, and elastic woven goods.....								
					Trunks and valises.....								
					Wire.....								

¹ A minus sign (—) denotes decrease.² Figures can not be shown without disclosing individual operations.³ Includes "textile machinery and parts."⁴ Includes "sausage, not made in slaughtering and meat-packing establishments."⁵ Includes "iron and steel, welding," and "machine tools."⁶ Includes "machine tools" and "textile machinery and parts."

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TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS USED: 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.....	71,287	33,617	19,279	1,729,878	1,396,722	1,175,071	100.0	100.0	100.0
Owned.....	5,927	7,205	8,485	1,185,401	1,180,573	1,040,438	67.4	84.5	88.5
Steam.....	4,268	4,893	5,784	864,032	970,506	835,596	55.8	89.5	71.1
Engines.....	3,766	(2)	(2)	694,531	(2)	(2)	40.1	.....	.....
Turbines.....	407	(4)	(1)	270,401	(2)	(2)	15.6	.....	.....
Internal-combustion engines.....	1,252	770	896	11,227	20,242	18,326	0.6	1.4	1.6
Water.....	1,243	1,542	1,805	189,302	189,825	180,510	10.9	13.0	15.9
Water wheels and turbines.....	1,243	1,480	1,750	189,210	188,917	185,996	10.9	13.5	15.8
Water motors.....	9	62	55	92	908	520	(2)	0.1	(2)
Rented.....	65,360	26,412	10,794	564,417	216,149	134,633	32.6	15.5	11.5
Electric.....	65,360	26,412	10,794	551,521	200,339	109,996	31.9	14.3	9.4
Other.....	.....	.....	.....	12,896	15,810	24,637	0.7	1.1	2.1
Electric.....	105,056	56,927	29,344	975,795	582,071	402,492	100.0	100.0	100.0
Rented.....	65,360	26,412	10,794	551,521	200,339	109,996	56.5	34.4	27.3
Generated by establishments reporting.....	39,696	30,515	18,550	424,274	382,632	292,496	43.5	65.6	72.7

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 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).				
All industries.....	693,750	5,634,701	501,293	3,663,077	90,483	1,222,444
Per cent of increase.....	1919.. 1914.. 4.4	1919.. 1914.. 2.3	1919.. 1914.. 124.7	1919.. 1914.. 344.6	1919.. 1914.. (1)	1919.. 1914.. 93.9
Automobile bodies and parts.....	1,452	11,521	15	510	638	1,755
Belting and hose, rubber.....	250	40,205	274	.....	28	.....
Boot and shoe findings.....	1,879	13,254	33	236	3	3,039
Boots and shoes, not including rubber boots and shoes.....	12,432	76,949	362	20,148	131	9,598
Boots and shoes, rubber.....	12,089	45,992	.....	531	4,561	.....
Brass, bronze, and copper products.....	12,211	20,904	2,710	30,216	29	6,470
Bread and other bakery products.....	31,810	18,457	34,169	1,298	370	67,991
Brick and tile, terra-cotta, and fire-clay products.....	4,956	16,614	78	.....	.....	444
Carpets and rugs, other than rag.....	3,646	24,861	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	0	42,795	200,271	14,676	116	821
Chemicals.....	16,157	44,699	133	6,775	.....	751
Chocolate and cocoa products.....	3,359	18,961	.....	.....	.....	24,976
Coal-tar products.....	802	10,905	2,861	.....	43	3,167
Coke, not including gas-house coke.....	.....	477,782	.....	.....	.....	.....
Confectionery and ice cream.....	5,943	29,292	400	19	191	67,051
Cotton goods.....	59,035	1,089,589	1,364	43,262	1,005	9,780
Cutlery and edge tools.....	2,289	9,668	287	4,648	403	3,419
Dyeing and finishing textiles, exclusive of that done in textile mills.....	44,023	231,339	.....	239,373	44	18,328
Electrical machinery, apparatus, and supplies.....	6,707	95,077	6,125	237,720	9,984	171,836
Emery and other abrasive wheels.....	19,714	23,429	289	.....	.....	196
Felt goods.....	1,815	22,080	.....	.....	.....	.....
Foundry and machine-shop products.....	7,677	103,151	49,826	45,753	1,359	40,585
Furniture.....	1,177	19,824	246	7	.....	992
Gas, illuminating and heating.....	116,577	572,102	119,602	1,785,175	17,702	.....
Glue, not elsewhere specified.....	6,208	25,100	735	44	.....	4,184
Grease and tallow, not including lubricating greases.....	1,266	24,734	52	16	2,725	.....
Ice, manufactured.....	16	17,824	.....	1,003	33	.....
Iron and steel, steel works and rolling mills.....	1,342	142,309	1,226	278,441	366	107,817
Iron and steel, forgings, not made in steel works or rolling mills.....	1,210	28,185	20	95,754	184	10,794
Knit goods.....	4,889	42,503	74	8	1	1,339
Leather, tanned, curried, and finished.....	35,421	145,060	152	25	8,188	723
Lime.....	15	30,944	2,802	.....	236	.....
Liquors, malt.....	1,179	41,405	1,377	.....	.....	.....
Machinery tools.....	1,083	17,452	1,515	7,590	145	10,119
Marble and stone work.....	635	16,983	66	202	104	1,119
Musical instruments, pianos.....	.....	11,365	72	.....	.....	120
Optical goods.....	397	15,123	.....	2,868	510	12,015
Ordnance and accessories.....	40	13,366	451	2,077	.....	.....
Paper and wood pulp.....	64,120	520,492	.....	62,278	.....	5,000
Paper goods, not elsewhere specified.....	1,261	10,104	.....	.....	.....	354
Plumbers' supplies, not elsewhere specified.....	947	10,642	101	750	.....	533
Printing and publishing, newspapers and periodicals.....	2,851	8,610	27	10,399	46	73,547
Pumps, steam and other power.....	.....	14,745	3,485	10,993	2,105	64
Roofing materials.....	24	10,273	1,518	4,489	.....	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	853	90,702	2,689	150	4,139	110
Shipbuilding, steel.....	11	41,544	5,132	32,294	.....	15
Silk goods, including throwsters.....	2,000	17,488	.....	.....	.....	38
Slaughtering and meat packing.....	66,313	12,597	120	.....	110	2,024
Steam fittings and steam and hot-water heating apparatus.....	3,885	8,416	10,328	11,073	309	12,549
Sugar, refining, not including beet sugar.....	10,850	110,520	.....	.....	.....	.....

1 Included in figures for fuel oils.

MANUFACTURES—MASSACHUSETTS.

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).				
Suspenders, garters, and elastic woven goods.....	252	12,127				9
Textile machinery and parts.....	2,780	61,183	17,247	14,678	211	25,023
Tools, not elsewhere specified.....	3,021	20,514	485	31,348	305	41,012
Wire.....	2,429	96,647	174	82,970	2,644	6,089
Wool scouring.....	362	20,109	45			
Wool shoddy.....	14	10,959				
Woolen goods.....	8,777	176,588	75	45	21,702	
Worsted goods.....	11,929	345,084	434	494,973	50	947
All other industries.....	91,273	399,516	31,036	88,270	9,636	469,701
Total for cities.....	608,016	4,763,210	282,218	2,422,902	86,520	1,170,333
ADAMS.....	7,835	55,400	2,814			
AMESBURY.....	1,199	11,094	878	4,746	3	985
ARLINGTON.....	4,292	1,343	238		10,594	237
ATTLEBORO.....	1,591	20,045	1,339	5,592	86	79,968
BELMONT.....	2,009	2,428	15			100
BEVERLY.....	1,568	27,474	3,612	4,147		6,794
BOSTON.....	52,827	395,320	27,510	91,689	1,207	390,180
BRAINTREE.....	2,834	7,527	1,427	6,814	1	284
BROCKTON.....	17,900	55,892	1,242	11,314	66	2,487
BROOKLINE.....	297	420	1			4,228
CAMBRIDGE.....	20,639	190,482	10,722	35,369	1,384	19,664
CHELSEA.....	3,866	35,656	8,928	510	56	37,671
CHICOPEE.....	10,090	66,127	324	14,984	3	3,105
CLINTON.....	1,703	34,197	360	1,837	705	467
DANVERS.....	107	15,900	58	1		4,221
DEDHAM.....	1,524	6,937		1		905
EASTHAMPTON.....	8,603	18,663	144	3,800	3	96
EVERETT.....	24,516	501,706	115,684	386,057	472	6,793
FALL RIVER.....	22,047	425,957	2,375	20,341	469	16,465
FITCHBURG.....	7,635	109,486	1,279	106,718	233	7,153
FRAMINGHAM.....	2,944	22,814	6,312	9,916	2,706	2,791
GARDNER.....	945	10,528	1,584	2,497		744
GLOUCESTER.....	7,170	12,605	295	70	5,381	1,882
GREENFIELD.....	2,617	5,260	512	8,756	142	15,065
HAVERHILL.....	7,217	41,730	3,601	22,647	6	11,491
HOLYOKE.....	12,207	251,018	2,976		20,590	6,488
LAWRENCE.....	9,247	339,701	3,403	607,046	133	5,065
LEOMINSTER.....	3,657	27,636	409	4,875	10	751
LOWELL.....	6,292	255,981	5,433	18,085	21,063	18,833
LYNN.....	52,480	30,750	4,017	259,912	9,439	96,645
MALDEN.....	6,410	51,762	534	57,430	1	13,773
MARLBOROUGH.....	783	5,655	205			3,590
MEDFORD.....	988	4,864	136	1,922	162	985
MELROSE.....	3,391	4,974	643			510
METHUEN.....	103	11,637	136	461	9	
MILFORD.....	368	9,233	108	14	2	305
NATICK.....	386	6,533	110	500	44	1,178
NEW BEDFORD.....	24,432	349,435	738	48,392	3,472	26,174
NEWBURYPORT.....	1,833	13,637	1,005	147	4	9,483
NEWTON.....	1,554	16,876	1,630	1,023	109	1,824
NORTH ADAMS.....	33,726	60,312	125	9,715		2,789
NORTHAMPTON.....	2,875	31,607	275	4,732	47	1,481
NORTHBRIDGE.....		24,422	2,600	3,274	41	
NORWOOD.....	344	28,522	1,655	4,121	178	685
PEABODY.....	33,740	99,139	865	74	705	390
PITTSFIELD.....	8,190	95,771	2,789	15,824	57	44,355
PLYMOUTH.....	319	16,543	17,921		50	44
QUINCY.....	831	50,878	6,001	38,110	117	5,301
REVERE.....	255	5,585	291	300		440
SALEM.....	3,577	33,153	724	16,582	20	10,064
SAUGUS.....	15	929	38			
SOMERVILLE.....	57,065	22,651	4,702	15,026	13	6,143
SOUTHBRIDGE.....	625	35,724		3,414	809	9,092
SPRINGFIELD.....	28,795	115,528	3,179	102,670	800	46,473
TAUNTON.....	7,443	98,045	5,924	30,599	237	12,421
WAKEFIELD.....	737	9,698	342	1,048		300
WALTHAM.....	6,145	33,555	1,174	7,839	988	14,189
WATERTOWN.....	2,198	38,255	1,720	580		384
WEBSTER.....					120	340
WESTFIELD.....	2,550	42,004		6,599	777	1,460
WEST SPRINGFIELD.....	2,416	21,521	6,041	4,145	9	
WEYMOUTH.....	9,289	29,592	46	8,954		681
WINCHESTER.....	1,941	7,372			2	
WINTHROP.....	7,581	5,275	521			1,834
WOBURN.....	143	5	69		130	463
WORCESTER.....	4,485	34,354	1,177	14,677	54	259
	45,625	356,087	11,302	396,346	2,001	211,094

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 11 of these industries in Massachusetts are here presented.

Textiles (Table 19).—This table shows the total value of products relating to the manufacture of textiles in Massachusetts and the comparative importance of the different branches as measured by value of products for 1919, 1914, and 1909. Considered as a whole, this state is the most prominent textile manufacturing center in the United States, and in 1919 ranked first with 21.6 per cent of the total value of the several classes of textiles produced in all states. In 1919 the combined textile industry was the leading industry in Massachusetts, contributing 27.9 per cent to the total value of products for all industries in the state.

The proportions of the textile industry in this state have expanded in many directions until in 1919 the various kinds of textile industries combined, with 587 establishments, gave employment to an average of 209,489 wage earners; the value of their products amounted to \$1,120,543,711, and the value added by manufacture to \$438,098,778. In addition to leading in 1919 in the production of textiles in the aggregate, the state ranked first in 8 of the 17 distinctive branches, namely, cotton goods, worsted goods, woolen goods, cordage and twine, jute goods, oilcloth, enameled, wool shoddy, and linen goods; second in felt goods, and hats, wool-felt; and third in knit goods, carpets and rugs, other than rag, and cotton small wares.

The principal branches of the textile industry for the state are shown in detail in Tables 20, 21, 22, and 23.

TABLE 19.—TEXTILES: 1919, 1914, AND 1909.

INDUSTRY.	VALUE OF PRODUCTS.		
	1919	1914	1909
Total.....	\$1,120,543,711	\$393,463,052	\$388,114,514
Cotton goods, including cotton small wares.....	604,937,749	197,322,111	186,462,313
Wool manufactures ¹	366,506,496	141,326,858	153,477,015
Woolen, worsted, and felt goods.....	352,912,506	130,348,514	140,065,034
Carpets and rugs, other than rag.....	13,593,990	10,981,344	12,811,981
Knit goods.....	52,424,235	17,419,077	14,736,025
Silk goods, including throwsters.....	34,193,951	10,676,681	8,942,216
Cordage and twine, and linen goods.....	33,263,723	* 23,280,216	* 15,979,115
Other textile industries ⁴	29,217,557	3,435,079	8,517,800

¹ Exclusive of 2 establishments, "oilcloth, enameled," to avoid disclosure of individual operations.

² Wool-felt hats included with "Other textile industries" to avoid disclosure of individual operations.

³ Includes "jute goods," to avoid disclosure of individual operations.

⁴ Includes "hats, fur-felt"; "hats, wool-felt"; and "wool shoddy" for all years; "jute goods" for 1919; and "oilcloth, enameled," for 1919 and 1909.

Cotton goods, including cotton small wares (Table 20).—This table shows the quantity and cost of the

principal materials used and the quantity and value of the chief products for the manufacture of cotton goods, including cotton small wares, for the census years 1919, 1914, and 1909.

Massachusetts, from an early period in the history of the cotton mill, has been the leading state in the consumption of raw cotton. Among the different kinds of materials used in this industry in the state during 1919, raw cotton was of first importance. In 1919 this raw material formed over one-half of the total cost of all materials used in the cotton industry in the state, and showed an increase of 6 per cent over the quantity used in 1914. The mills in the state usually consume about one-half of the total foreign cotton used in the United States. This special cotton, which is mostly Egyptian, is used chiefly in the manufacture of yarn for sale, tire fabrics, and sewing thread, and to a less extent in the manufacture of such fabrics as organdies, lawns, nainsooks, and shirtings. In 1919 Massachusetts was the principal cotton-yarn market of the United States and this material was the second item of cost in the list of component materials used in the manufacture of cotton goods in the state; while silk, in the form of raw silk and silk yarns, chiefly used for decorative purposes in cotton fabrics, was third.

Among the industries in Massachusetts at the census of 1919, cotton goods ranked first in value of products. There are many other large industries within the state, and, as a result, the value of products for this industry represented only 15.1 per cent of the total value of products for all industries. Massachusetts also ranked first among the states in the value of cotton goods, with 27.9 per cent of the total in the United States, or nearly double that of the second largest cotton manufacturing state. Woven goods was the chief outstanding product, with 64.5 per cent of the total value of products for the industry in the state, and 26.2 per cent of the total for the United States. Yarn, manufactured for sale, was second in importance, with 24.1 per cent of the total for the state, and 32 per cent of the total for the United States. The following will enumerate some of the different kinds of woven goods for which the state held first rank in the United States. They are arranged in their order of importance according to the value within the state, followed by the percentage that each bears to the total value of the respective product for the United States: Tire duck and other tire fabrics, 34.7 per cent; lawns, nainsooks, cambrics, and similar muslins, 55.1 per cent; shirtings, 36.9 per cent; gingham, 32.2 per cent; twills, sateens, etc., 24.9 per cent; cotton blankets, 44.8 per cent; and tobacco, cheese, butter, bunting, and bandage cloths, 82.6 per cent.

MANUFACTURES—MASSACHUSETTS.

TABLE 20.—COTTON GOODS, INCLUDING COTTON SMALL WARES:
1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$364,920,724	\$110,834,334	\$105,156,794
Cotton:			
Pounds.....	662,726,150	624,727,544	622,368,027
Cost.....	\$244,372,261	\$89,326,563	\$77,738,315
Domestic—			
Pounds.....	599,333,702	576,617,532	578,315,382
Cost.....	\$210,935,390	\$80,309,154	\$70,495,332
Foreign—			
Pounds.....	63,392,448	48,110,012	44,052,645
Cost.....	\$33,436,871	\$9,017,400	\$7,242,983
Cotton waste purchased:			
Pounds.....	30,568,630	17,886,518	20,024,977
Cost.....	\$3,707,323	\$860,435	\$1,100,785
Raw silk:			
Pounds.....	384,846	616,943	(1)
Cost.....	\$2,140,732	\$1,774,258	(1)
Yarns purchased:			
Pounds.....	65,518,728	31,903,653	29,079,341
Cost.....	\$30,476,663	\$10,987,060	\$12,405,031
Cotton—			
Pounds.....	64,214,703	31,117,952	27,175,076
Cost.....	\$53,860,141	\$9,284,324	\$8,279,665
Silk—			
Pounds.....	902,643	(1)	872,303
Cost.....	\$4,778,607	(1)	\$2,854,181
Spun silk—			
Pounds.....	138,186	445,732	187,691
Cost.....	\$670,911	\$1,542,064	\$302,763
All other—			
Pounds.....	263,196	339,969	844,271
Cost.....	\$1,171,994	\$160,672	\$408,422
Starch, cost.....	\$1,343,057	\$523,338	\$471,045
Chemicals and dyestuffs, cost.....	\$3,322,344	\$1,601,767	\$1,609,908
Fuel and rent of power, cost.....	\$11,721,643	\$4,984,427	\$5,041,092
All other materials, cost.....	\$37,880,811	\$9,776,486	\$7,790,618
PRODUCTS.			
Total value.....	\$604,937,749	\$197,322,111	\$180,462,313
Woven goods (over 12 inches in width):			
Pounds.....	362,314,466	(2)	(2)
Square yards.....	1,765,948,678	2,066,981,048	1,989,578,059
Value.....	\$389,911,004	\$140,814,418	\$138,626,795
Sheetings—			
Pounds.....	19,590,666		
Square yards.....	81,367,563		
Value.....	\$15,488,544		
Print cloth—			
Pounds.....	55,453,265		
Square yards.....	373,938,032		
Value.....	\$41,674,384		
Tobacco, cheese, butter, bunting, and bandage cloths—			
Pounds.....	18,362,166	(2)	(2)
Square yards.....	202,401,915	1,385,708,338	1,230,679,320
Value.....	\$14,016,944	\$68,157,429	\$63,028,168
Lawns, nainsooks, cambrics, and similar muslins—			
Pounds.....	29,241,009		
Square yards.....	243,580,824		
Value.....	\$43,709,594		
Shirtings—			
Pounds.....	22,010,735		
Square yards.....	120,927,594		
Value.....	\$30,745,775		
Ginghams—			
Pounds.....	22,568,981	(2)	(2)
Square yards.....	102,297,902	129,379,233	139,552,491
Value.....	\$27,409,260	\$10,157,707	\$10,755,018
Drills—			
Pounds.....	9,532,041	(2)	(2)
Square yards.....	30,513,477	12,425,634	17,088,244
Value.....	\$6,670,675	\$1,690,223	\$1,998,819
Twills, sateens, etc.—			
Pounds.....	31,270,208	(2)	(2)
Square yards.....	116,915,845	129,409,523	159,658,540
Value.....	\$25,199,482	\$11,192,661	\$14,889,807
Ticks and denims—			
Pounds.....	15,365,269	(2)	(2)
Square yards.....	31,588,216	35,128,181	58,716,976
Value.....	\$10,479,031	\$3,941,760	\$6,897,895
Canton flannel, flannelettes, and blanketings—			
Pounds.....	22,754,967	(2)	(2)
Square yards.....	78,640,678	75,155,157	123,982,755
Value.....	\$17,418,179	\$7,870,079	\$9,470,477
Cotton blankets—			
Pounds.....	17,407,849	(2)	(2)
Square yards.....	46,470,714	(1)	(1)
Value.....	\$14,615,019	(1)	(1)
Tire fabrics (other than duck)—			
Pounds.....	14,567,668	(2)	(2)
Square yards.....	18,647,503	(1)	(1)
Value.....	\$15,261,266	(1)	(1)
Tire duck—			
Pounds.....	42,294,670		
Square yards.....	39,639,018		
Value.....	\$45,722,608		
Ounce duck (except tire)—			
Pounds.....	4,875,125	(2)	(2)
Square yards.....	8,282,194	35,818,899	29,169,491
Value.....	\$3,848,918	\$10,384,436	\$5,988,828
Numbered duck (except tire)—			
Pounds.....	2,086,468		
Square yards.....	1,972,836		
Value.....	\$1,415,806		

TABLE 20.—COTTON GOODS, INCLUDING COTTON SMALL WARES:
1919, 1914, AND 1909—Continued.

	1919	1914	1909
PRODUCTS—continued.			
Woven goods—Continued.			
Velvets, corduroys, plushes, etc.—			
Pounds.....	7,719,646	(2)	(2)
Square yards.....	12,059,895	8,010,211	6,109,238
Value.....	\$9,240,219	\$2,054,181	\$1,707,507
Toweling and terry weaves—			
Pounds.....	1,061,354	(2)	(2)
Square yards.....	2,697,007	4,279,318	4,155,999
Value.....	\$857,289	\$487,237	\$413,332
Cloth composed of cotton and silk or other vegetable fiber and silk (except silk-striped shirtings)—			
Pounds.....	2,625,171	(2)	(2)
Square yards.....	21,143,718	(1)	(1)
Value.....	\$8,192,727	(1)	(1)
Other woven goods (over 12 inches in width)—			
Pounds.....	53,497,208	(2)	(2)
Square yards.....	232,913,777	251,667,454	220,465,085
Value.....	\$58,045,275	\$24,878,705	\$23,478,744
Thread—			
Pounds.....	7,226,906	7,713,857	6,563,216
Value.....	\$14,819,825	\$5,310,536	\$5,285,766
Yarns, for sale:			
Pounds.....	154,715,201	112,023,022	103,930,860
Value.....	\$145,888,149	\$38,781,313	\$31,725,674
Cotton waste, for sale:			
Pounds.....	133,500,403	125,634,736	115,907,265
Value.....	\$18,246,641	\$6,793,957	\$4,650,374
Cotton small wares, value.....	\$9,620,273	\$1,272,132	\$884,441
All other products, value.....	\$26,223,204	\$4,340,755	\$5,289,276
Amount received for contract work.....	\$1,228,593	(2)	(2)

(1) Not reported separately.

(2) Not reported in 1914 and 1909.

Wool manufactures (Table 21).—The following table shows in detail the quantity and cost of materials used in wool manufactures, and the quantity and value of the principal products in Massachusetts for 1919, 1914, and 1909.

Wool manufactures as presented in Table 21 includes five branches or types of textile manufacturing, the titles of which are descriptive of their product. These branches and the value of products for 1919 are as follows: Worsted goods, \$237,443,077; woolen goods, \$105,183,068; carpets and rugs, other than rag, \$13,593,990; felt goods, \$10,286,361, and wool-felt hats, which is included in "all other products" to avoid disclosure of individual operations. In 1919 woolen goods and worsted goods combined formed 93.5 per cent of the total value of wool manufactures in the state.

Massachusetts has ranked first in the manufacture of woolen and worsted goods in the United States since the first Federal census of manufactures. The value of woolen and worsted goods produced in this state during 1919 formed 32.2 per cent of the total for the United States, or nearly double that of the second state in rank. During a considerable part of the census year 1919, the operation of the wool manufactures industry for the United States was below normal, and according to the monthly reports of "Active and idle wool machinery," received at the Bureau of the Census, the per cent of idle machinery averaged for the year in sets of woolen cards, 18.3 per cent; combs, 18.5 per cent; woolen spindles, 18.8 per cent; worsted spindles, 23.2 per cent; looms wider than 50-inch reed space, 31.1 per cent; looms under 50-inch reed space, 29.1

per cent; and carpet and rug looms, 46 per cent. Cards, combs, and spindles used in connection with the manufacture of knit goods were included in the "Active and idle wool machinery" reports, but with the comparatively small amount of such machinery in the knit-goods industry they would have little effect on the per cents as shown above.

Wool, forming 47.5 per cent of the total cost of materials, and yarns, forming 21.4 per cent, were the two chief materials used in wool manufactures. The cost of worsted yarn formed 67 per cent of the various kinds of yarns used. Fashion makes many demands upon this industry in the designing of its products, and the fluctuations in the different kinds of materials used, as reported from census to census, might be attributed to this cause more largely than to any other.

TABLE 21.—WOOL MANUFACTURES: 1919, 1914, AND 1909.

MATERIALS.	1919	1914	1909
Total cost.....	\$227,371,147	\$80,745,703	\$94,797,715
Wool:			
In condition purchased—			
Pounds.....	163,264,800	165,039,067	167,993,961
Cost.....	\$108,043,388	\$40,325,096	\$47,193,010
Foreign—			
Pounds.....	88,000,043	79,690,137	71,725,674
Cost.....	\$57,691,453	\$20,302,783	\$21,528,685
Domestic—			
Pounds.....	74,574,826	85,349,530	96,268,287
Cost.....	\$50,351,935	\$20,022,913	\$25,664,325
Equivalent in scoured condition, pounds.....	100,078,489	99,914,078	108,243,103
Cotton:			
Pounds.....	5,084,568	10,814,793	10,143,678
Cost.....	\$1,883,328	\$1,263,058	\$1,237,820
Domestic—			
Pounds.....	3,952,522	8,030,581	9,253,380
Cost.....	\$1,357,408	\$950,830	\$1,089,397
Foreign—			
Pounds.....	1,132,046	1,884,212	890,289
Cost.....	\$525,920	\$303,122	\$151,423
Animal hair:			
Pounds.....	10,843,903	5,399,163	3,876,452
Cost.....	\$4,335,734	\$1,710,701	\$1,100,038
Recovered wool fiber:			
Pounds.....	11,120,110	5,853,328	3,687,530
Cost.....	\$3,980,880	\$992,537	\$547,990
Wool and other noils and wool waste:			
Pounds.....	15,582,931	10,959,863	9,906,811
Cost.....	\$10,800,415	\$2,667,705	\$2,692,110
Tops, purchased:			
Pounds.....	6,706,376	9,110,710	5,039,118
Cost.....	\$11,439,300	\$4,974,310	\$3,461,310
Yarns, purchased:			
Pounds.....	30,445,723	44,334,079	46,077,736
Cost.....	\$48,567,935	\$22,026,410	\$24,401,746
Woolen—			
Pounds.....	3,315,096	3,986,060	1,534,135
Cost.....	\$4,102,542	\$1,085,094	\$268,683
Worsted—			
Pounds.....	14,735,188	19,458,214	21,470,242
Cost.....	\$32,528,840	\$1,324,771	\$18,923,644
Merino (cotton-mixed)—			
Pounds.....	26,208	190,469	33,115
Cost.....	\$102,940	\$50,849	\$6,623
Cotton—			
Pounds.....	15,024,251	14,704,361	15,425,293
Cost.....	\$9,892,865	\$4,222,281	\$4,212,147
Silk—			
Pounds.....	53,250	112,345	30,529
Cost.....	\$482,520	\$380,020	\$120,330
Spun silk—			
Pounds.....	81,114	88,871	74,332
Cost.....	\$589,641	\$271,478	\$240,174
Linen—			
Pounds.....	210,134	944,122	1,195,590
Cost.....	\$83,590	\$183,500	\$215,550
Jute, ramie, and other vegetable fiber—			
Pounds.....	2,939,877	4,789,031	6,314,491
Cost.....	\$654,173	\$502,408	\$468,588
All other yarns—			
Pounds.....	59,705	(1)	(1)
Cost.....	\$130,809	(1)	(1)
Chemicals and dyestuffs, cost.....	\$11,171,043	\$3,931,653	\$3,406,569
Fuel and rent of power, cost.....	\$6,490,020	\$3,218,639	\$2,583,898
All other materials, cost.....	\$20,632,438	\$8,944,094	\$8,056,306

¹ Not reported in 1914 and 1909.

TABLE 21.—WOOL MANUFACTURES: 1919, 1914, AND 1909—Con.

PRODUCTS.	1919	1914	1909
Total value.....	\$366,506,496	\$141,329,858	\$153,477,015
Woven goods: ¹			
Pounds.....	114,890,871	(1)	(1)
Square yards.....	217,382,219	220,748,263	223,761,500
Value.....	\$258,491,332	\$97,810,697	\$107,064,598
All-wool—			
Pounds.....	69,022,613	(1)	(1)
Square yards.....	118,667,333	114,830,218	109,221,437
Value.....	\$189,234,850	\$72,163,336	\$78,873,571
Woolen—			
Suits—			
Pounds.....	23,812,158	(1)	(1)
Square yards.....	29,797,051	14,752,516	
Value.....	\$46,661,706	\$9,854,035	
Dress goods—			
Pounds.....	1,838,954	(1)	(1)
Square yards.....	3,801,777	7,027,640	29,366,745
Value.....	\$5,396,693	\$3,509,627	\$19,025,840
Overcoatings, cloakings, etc.—			
Pounds.....	10,070,935	(1)	(1)
Square yards.....	11,280,568	5,705,283	
Value.....	\$19,647,161	\$5,077,361	
Worsted—			
Suits—			
Pounds.....	22,623,050	(1)	(1)
Square yards.....	46,008,585	58,985,705	
Value.....	\$79,391,770	\$41,283,773	
Dress goods—			
Pounds.....	8,786,175	(1)	(1)
Square yards.....	24,810,085		78,424,778
Value.....	\$34,226,483	(1)	\$59,070,587
Overcoatings, cloakings, etc.—			
Pounds.....	174,900	28,000,855	
Square yards.....	150,000	\$11,638,917	
Value.....	\$611,154		
All other woolen or worsted—			
Pounds.....	1,715,541	(1)	(1)
Square yards.....	2,208,467	958,120	1,420,914
Value.....	\$3,206,913	\$549,623	\$768,144
Wool-and-cotton-mixed—			
Pounds.....	10,287,549	(1)	(1)
Square yards.....	14,112,534	18,264,986	10,236,836
Value.....	\$11,591,681	\$6,143,181	\$3,332,690
Suits—			
Pounds.....	5,462,346	(1)	(1)
Square yards.....	7,604,663		
Value.....	\$9,458,555		
Dress goods—			
Pounds.....	332,763	(1)	6 1)
Square yards.....	377,513	11,962,150	6,405,030
Value.....	\$262,663	\$4,819,854	\$2,538,174
Overcoatings, cloakings, etc.—			
Pounds.....	1,230,533	(1)	(1)
Square yards.....	1,165,828		
Value.....	\$1,280,359		
All other—			
Pounds.....	3,261,907	(1)	(1)
Square yards.....	4,904,530	6,302,786	3,831,806
Value.....	\$3,583,454	\$1,823,277	\$794,516
Cotton-warp—			
Pounds.....	35,580,709	(1)	(1)
Square yards.....	84,582,352	87,653,109	104,303,227
Value.....	\$57,665,451	\$19,504,280	\$24,858,337
Woolen-filling—			
Suits—			
Pounds.....	5,916,574	(1)	(1)
Square yards.....	12,020,303	14,033,511	
Value.....	\$10,169,764	\$3,007,447	
Dress goods—			
Pounds.....	267,983	(1)	(1)
Square yards.....	782,496		22,010,651
Value.....	\$775,972		\$5,376,123
Overcoatings, cloakings, etc.—			
Pounds.....	2,895,144	(1)	(1)
Square yards.....	3,335,240	8,779,741	
Value.....	\$3,111,821	\$2,182,468	
Worsted-filling—			
Suits—			
Pounds.....	5,954,903	(1)	(1)
Square yards.....	13,462,607	3,052,360	
Value.....	\$12,880,495	\$1,135,820	
Dress goods—			
Pounds.....	5,281,901	(1)	(1)
Square yards.....	20,588,789	23,022,664	58,750,120
Value.....	\$11,871,294	\$4,093,123	\$13,373,680
Woolen-filling and worsted-filling—			
Demott flannels and shirtings—			
Pounds.....	3,964,009	(1)	(1)
Square yards.....	6,720,072	2,882,803	794,799
Value.....	\$3,853,342	\$450,888	\$136,605
Blankets—			
Pounds.....	1,218,298	(1)	(1)
Square yards.....	1,941,976	2,837,664	1,547,034
Value.....	\$1,363,278	\$559,522	\$256,530
Satinets and linseys—			
Pounds.....	5,147,623	(1)	(1)
Square yards.....	3,989,170	6,867,360	4,120,737
Value.....	\$2,904,031	\$1,171,708	\$606,202
All other—			
Pounds.....	4,935,174	(1)	(1)
Square yards.....	21,761,699	20,181,097	10,478,986
Value.....	\$10,735,954	\$6,894,754	\$5,110,197

¹ Exclusive of carpets and rugs, and felt goods.

TABLE 21.—WOOL MANUFACTURES: 1919, 1914, AND 1909—Con.

	1919	1914	1909
Carpets and rugs:			
Pounds.....	12,952,008	(¹)	(¹)
Square yards.....	6,487,324	9,479,715	10,236,887
Value.....	\$13,128,841	\$10,482,775	\$12,160,257
Carpets—			
Pounds.....	2,429,313	(¹)	(¹)
Square yards.....	818,953	5,660,067	7,490,772
Value.....	\$2,654,924	\$8,999,573	\$10,358,191
Rugs—			
Pounds.....	10,522,695	(¹)	(¹)
Square yards.....	5,668,371	3,819,648	2,740,115
Value.....	\$10,473,917	\$1,483,202	\$1,802,066
Sewed strips—			
Pounds.....	3,023,524		
Square yards.....	972,913		
Value.....	\$3,056,596		
Woven whole—		(²)	(²)
Pounds.....	7,499,171		
Square yards.....	4,605,458		
Value.....	\$7,417,321		
Felt goods:			
Cloth, gunwad felts, etc.—			
Pounds.....	4,697,482	(¹)	(¹)
Square yards.....	5,478,043	3,375,528	2,062,534
Value.....	\$3,046,698	\$842,782	\$480,838
Boot and shoe linings—			
Pounds.....	1,055,312	(¹)	(¹)
Square yards.....	1,107,314	2,149,909	1,444,978
Value.....	\$1,047,225	\$1,024,256	\$409,915
All other—			
Pounds.....	4,422,184	1,878,963	(³)
Value.....	\$6,020,982	\$1,099,175	\$1,500,740
Yarns:			
Woolen—			
Pounds.....	3,548,730	1,936,411	1,161,773
Value.....	\$5,145,210	\$662,383	\$455,448
Merino—			
Pounds.....	1,664,758	1,958,912	1,283,261
Value.....	\$3,613,801	\$1,511,984	\$1,043,693
Worsted—			
Pounds.....	20,477,164		
Value.....	\$44,051,595	20,639,383	26,591,701
Worsted tops and slubbing:			
Pounds.....	7,245,830	\$20,429,666	\$22,438,097
Value.....	\$9,360,705		
Noils:			
Pounds.....	10,149,864	10,955,313	11,250,153
Value.....	\$7,202,421	\$3,133,490	\$3,655,975
Waste, for sale:			
Pounds.....	13,504,881	10,097,975	8,387,654
Value.....	\$2,798,156	\$981,282	\$774,155
All other products, value.....	\$5,254,881	\$1,931,438	\$2,044,900
Contract work, value.....	\$7,347,649	\$1,419,030	\$1,448,393

¹ Not reported in 1914 and 1909.² Not reported separately.³ Figures not available.

The products reported for this industry were largely woven fabrics to be used in the manufacture of clothing, the value of such fabrics forming 70.5 per cent of the total for this industry in Massachusetts for 1919. The main divisions of woven fabrics show that in the value of products, all-wool goods was of chief importance; cotton-warp goods, second; and wool and cotton-mixed goods, third; forming 73.2 per cent, 22.3 per cent, and 4.5 per cent, respectively, of the total for this group in 1919.

The carpet and rug branch of the wool manufactures industry has had many interruptions, and has undergone many changes since the census of 1914. Of the total value of the products of the carpet and rug industry in the state in 1909 and 1914, carpets formed 85.2 per cent and 85.9 per cent, respectively. In 1919, however, the reverse condition existed, the value of rugs forming 79.8 per cent of the total for the industry. Large quantities of yarn are usually produced for sale, and in 1919 the value of such products represented 14.4 per cent of the total value of products for this industry in the state.

Knit goods (Table 22).—Cotton is the principal raw material used in the manufacture of knit goods in Massachusetts. According to cost, purchased yarns consist chiefly of cotton, worsted, and artificial silk. In addition to the manufacture of a considerable quantity of cotton yarn for consumption within establishments where it is made, a large amount is purchased.

Of the total value of the knit goods industry in the state in 1919, hosiery represented 39.1 per cent. Underwear, exclusive of tights, was second, forming 36.4 per cent of the total value. In keeping with the general trend of the industry in the United States, the production of separate shirts and drawers has diminished with the increase in the production of union suits.

TABLE 22.—KNIT GOODS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$31,172,503	\$9,266,671	\$6,971,606
Cotton:			
Pounds.....	16,421,615	13,914,900	10,459,683
Cost.....	\$5,129,928	\$1,926,110	\$1,912,086
Domestic—			
Pounds.....	16,290,530	13,598,664	10,034,818
Cost.....	\$5,093,545	\$1,873,252	\$1,843,846
Foreign—			
Pounds.....	131,085	316,236	424,235
Cost.....	\$66,383	\$52,867	\$68,200
Cotton waste purchased:			
Pounds.....	1,054,916	452,652	(¹)
Cost.....	\$293,638	\$48,180	(¹)
Wool (in condition purchased):			
Pounds.....	534,068	313,877	440,374
Cost.....	\$599,618	\$154,499	\$195,577
Recovered wool fiber:			
Pounds.....	791,529	226,555	269,443
Cost.....	\$318,610	\$25,568	\$34,382
Wool waste and noils:			
Pounds.....	648,790	442,225	271,388
Cost.....	\$584,635	\$141,394	\$107,839
Yarns, purchased:			
Pounds.....	13,181,417	9,698,139	8,295,183
Cost.....	\$18,973,385	\$4,894,894	\$3,350,779
Cotton—			
Pounds.....	9,952,074	7,325,269	6,965,775
Cost.....	\$8,931,178	\$2,442,240	\$1,771,206
Woolen—			
Pounds.....	374,808	123,022	113,368
Cost.....	\$694,488	\$75,254	\$87,798
Worsted—			
Pounds.....	1,211,375	1,357,338	619,140
Cost.....	\$3,036,087	\$1,084,700	\$638,014
Merino—			
Pounds.....	704,842	558,104	480,747
Cost.....	\$1,525,978	\$294,263	\$475,769
Silk and spun silk—			
Pounds.....	189,907	180,000	124,715
Cost.....	\$1,593,053	\$718,503	\$369,777
Artificial silk—			
Pounds.....	683,411	129,254	(¹)
Cost.....	\$3,182,601	\$251,447	(¹)
All other—			
Pounds.....	5,000	25,092	7,408
Cost.....	\$10,000	\$28,487	\$17,215
Sewing thread, cotton:			
Pounds.....	158,948	(¹)	(¹)
Cost.....	\$287,322	(¹)	(¹)
Sewing thread, silk:			
Pounds.....	3,392	(¹)	(¹)
Cost.....	\$32,766	(¹)	(¹)
Buttons, pearl:			
Gross.....	479,523	(¹)	(¹)
Cost.....	\$212,351	(¹)	(¹)
Buttons, other than pearl:			
Gross.....	28,673	(¹)	(¹)
Cost.....	\$40,823	(¹)	(¹)
Chemicals and dyestuffs, cost.....	\$613,925	\$221,397	\$242,682
Fuel and rent of power, cost.....	\$441,785	\$234,061	\$174,846
All other materials, cost.....	\$3,673,777	\$1,620,549	\$944,566
Yarns made in mill for use therein:			
Cotton, pounds.....	7,689,061	8,677,894	13,467,586
Woolen, pounds.....	792,028	254,000	254,000
Worsted, pounds.....	19,000		128,000
Merino, pounds.....	1,409,459	748,670	600,616

¹ Not reported separately.

TABLE 22.—KNIT GOODS: 1919, 1914, AND 1909—Continued.

PRODUCTS.	1919	1914	1909
Total value.....	\$52,424,235	\$17,419,077	\$14,736,025
Hosiery:			
Dozen pairs.....	5,890,020	4,528,460	4,506,900
Value.....	\$20,474,521	\$5,095,684	\$4,780,351
Cotton—			
Dozen pairs.....	1,456,128	3,791,779	4,280,266
Value.....	\$3,320,380	\$3,540,884	\$3,734,018
Silk and silk-mixed—			
Dozen pairs.....	2,049,134	513,401	63,702
Value.....	\$10,854,323	\$1,845,246	\$765,144
All other—			
Dozen pairs.....	1,784,758	223,289	162,932
Value.....	\$6,290,818	\$300,554	\$280,589
Shirts and drawers:			
Dozens.....	1,343,023	1,354,538	1,067,482
Value.....	\$10,115,302	\$5,034,294	\$6,080,517
Cotton—			
Dozens.....	926,583	1,142,782	1,415,227
Value.....	\$5,610,905	\$3,408,500	\$4,257,591
Merino—			
Dozens.....	287,355	145,781	182,003
Value.....	\$3,340,349	\$957,713	\$1,206,785
Silk and silk-mixed—			
Dozens.....	121,585	32,314	33,998
Value.....	\$1,051,638	\$303,731	\$208,184
All other—			
Dozens.....	7,500	83,661	35,354
Value.....	\$112,500	\$364,350	\$407,957
Union suits:			
Dozens.....	525,187	408,445	183,175
Value.....	\$8,980,931	\$3,270,212	\$2,011,791
Cotton—			
Dozens.....	262,626	238,256	100,024
Value.....	\$3,300,830	\$1,005,784	\$801,787
Merino—			
Dozens.....	73,018	82,000	74,043
Value.....	\$1,487,340	\$851,778	\$908,915
Silk and silk-mixed—			
Dozens.....	180,543	21,072	8,108
Value.....	\$4,192,733	\$383,056	\$173,080
All other—			
Dozens.....		65,227	400
Value.....		\$347,604	\$8,000
Tights:			
Dozens.....	25,934	(1)	(1)
Value.....	\$260,188	(1)	(1)
Bathing suits:			
Dozens.....	42,079	6,328	(1)
Value.....	\$907,020	\$69,432	(1)
Gloves and mittens:			
Dozen pairs.....	23,915	24,932	27,829
Value.....	\$62,614	\$46,764	\$51,156
Headwear:			
Dozens.....	3,734	(1)	(1)
Value.....	\$17,690	(1)	(1)
Cardigan jackets, sweaters, etc.:			
Dozens.....	108,719	94,857	40,544
Value.....	\$2,092,021	\$1,394,263	\$718,562
Cotton yarn, made for sale:			
Pounds.....	2,333,020	3,328,625	1,451,711
Value.....	\$1,321,141	\$744,294	\$272,653
All other products, value.....	\$7,292,117	\$1,155,134	\$820,965

1 Not reported separately.

A general increase in the volume of production is shown, and the most noticeable change from 1914 to 1919 is the increase in the quantity of "silk and silk mixed," and "other hosiery"—largely wool and merino—with the decrease in cotton hosiery manufactured.

Silk manufactures (Table 23).—There were 21 establishments, including 6 throwsters, engaged in the silk-manufacturing industry in Massachusetts in 1919.

Table 23 shows the quantity and cost of the principal materials used and the quantity and value of the different products manufactured during 1919, 1914, and 1909.

Massachusetts ranked fifth, in value of products, in the manufacture of silk textiles in the United States during the year 1919. Raw silk, silk waste, and mercerized cotton yarn were among the most important

materials used in 1919 and formed 47.9 per cent, 29 per cent, and 5.7 per cent, respectively, of the total cost of materials. Small quantities of silk yarns were purchased, but mills having looms largely did their own throwing.

TABLE 23.—SILK MANUFACTURES: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$19,243,483	\$5,961,137	\$5,429,851
Silk:			
Raw—			
Pounds.....	1,109,943	1,121,697	920,808
Cost.....	\$9,219,540	\$4,141,624	\$3,753,207
Spun—			
Pounds.....	33,035	37,458	(1)
Cost.....	\$102,408	\$104,875	(1)
Artificial—			
Pounds.....	64,183	27,600	(1)
Cost.....	\$335,551	\$50,830	(1)
Organzine, tram, and hard or crepe twist—			
Pounds.....	42,143	15,098	(1)
Cost.....	\$404,464	\$67,097	(1)
Frissions, pierced cocoons, nolls, and other waste—			
Pounds.....	3,727,260	(2)	(2)
Cost.....	\$5,582,673	(2)	(2)
Yarns, other than silk:			
Cotton, not mercerized—			
Pounds.....	752,062	1,040,910	1,225,386
Cost.....	\$749,405	\$530,121	\$536,889
Cotton, mercerized—			
Pounds.....	768,018	221,920	158,999
Cost.....	\$1,091,554	\$181,501	\$113,253
All other—			
Pounds.....	170,630	12,803	(2)
Cost.....	\$305,784	\$10,333	(2)
Fuel and rent of power, cost.....	\$242,702	\$108,593	\$82,862
All other materials, cost.....	\$1,119,252	\$756,554	\$944,640
PRODUCTS.			
Total value.....	\$34,193,951	\$10,670,631	\$8,912,246
Broad silks:			
Yards.....	9,545,064	8,618,424	9,668,788
Value.....	\$17,072,808	\$9,054,245	\$9,898,231
All silk—			
Yards.....	5,099,475	3,135,430	(1)
Value.....	\$10,793,703	\$2,905,738	(1)
Yarn-dyed—			
Yards.....	4,872,083	(2)	
Value.....	\$9,300,006	(2)	
All other—			
Yards.....	826,492	(2)	
Value.....	\$1,454,757	(2)	
Mixed goods—			
Yards.....	3,845,589	5,482,994	(1)
Value.....	\$6,909,045	\$4,048,507	(1)
Fringes, braids, and trimmings, value.....	\$1,138,064	\$196,375	(1)
Organzine, tram, and hard or crepe twist:			
Pounds.....	83,630	79,871	14,502
Value.....	\$830,277	\$375,021	\$64,706
Spun silk:			
Pounds.....	1,402,069	(2)	(2)
Value.....	\$8,630,122	(2)	(2)
Machine twist, sewing and embroidery silks, fringe and boss silks:			
Pounds.....	232,443	281,420	356,260
Value.....	\$3,328,594	\$2,015,064	\$2,107,319
All other products, value.....	\$2,431,223	\$1,019,793	\$764,934
Amount received for contract work.....	\$161,963	\$115,283	\$107,056

1 Figures not available.

2 Figures can not be shown separately without disclosing individual operations.

Broad-silk fabrics was the principal product of the industry reported for the last three census periods and formed over one-half of the total value of products at each census. It will be noted that these fabrics were chiefly all silk in 1919 and that silk-mixed goods predominated in 1914. In 1919 a large share of broad silks composed of all silk was yarn dyed. Next to broad silks in 1919, spun-silk yarn was the most important product of the industry, and the combined values of these two types of products formed 76.9 per cent

of the total. No pronounced variation in the industry has taken place during the last 10 years, except that from 1914 to 1919 broad silks made of all silk increased 81.8 per cent in quantity, while broad-silk mixtures decreased 29.9 per cent and, in common with all industries, inflated values prevailed in 1919.

Machinery used in textile mills (Table 24).—The different kinds of machines, which have been accepted by textile manufacturers as best indicating the trend of their industry, are shown in detail in Table 24, for several branches of textiles in Massachusetts for 1919, 1914, and 1909.

A considerable portion of the textile machinery of the United States is located in mills in Massachusetts. At the census of 1919 this state contributed to the total about one-third each of the producing cotton spindles, the producing spindles in wool manufactures, looms in cotton mills, looms in wool manufactures, sets of woolen cards, and wool-combing machines. In these types of machines and spindles Massachusetts is surpassed in number by no other state in the Union.

The number of spindles and looms shown within each industry are without consideration for the kind of fiber upon which they were operating. The total number of producing spindles used in the state in 1919 shows an increase of 6.1 per cent over those used in 1914; the knitting machines, an increase of 2.1 per cent; the sets of woolen cards an increase of 16.1 per cent; the number of looms a decrease of 1.1 per cent; and the number of wool-combing machines a decrease of 6.1 per cent.

TABLE 24.—MACHINERY USED IN TEXTILE MILLS: 1919, 1914, AND 1909.

KIND.	Cen- sus year.	Total.	INDUSTRY.				
			Carpets and rugs, other than rag.	Cotton goods, including cotton small wares.	Knit goods.	Silk goods, including throw- sters.	Woolen, worsted, and felt goods.
Producing spindles	1919	13,043,175	52,436	11,217,487	176,266	172,484	1,424,502
	1914	12,288,683	58,074	10,565,801	158,052	122,156	1,383,700
	1909	10,815,478	53,244	9,377,984	163,243	99,699	1,121,303
Looms.....	1919	1,258,439	1,089	226,224	.....	1,3,403	27,723
	1914	261,219	1,474	228,857	.....	3,279	27,609
	1909	263,920	1,778	234,249	.....	2,717	25,185
Knitting machines	1919	10,424	.....	.....	10,424	.....	.....
	1914	10,209	.....	.....	10,209	.....	.....
	1909	7,741	.....	.....	7,741	.....	.....
Woolen cards (sets). ¹	1919	1,703	33	.....	49	.....	1,621
	1914	1,467	53	.....	28	.....	1,386
	1909	1,519	80	.....	36	.....	1,403
Wool-combing machines.	1919	862	13	.....	.....	.....	849
	1914	918	33	.....	.....	.....	885
	1909	703	46	.....	.....	.....	657

¹ Includes 185 idle looms.

² Includes 869 idle knitting machines.

³ Includes shoddy cards.

The cotton industry in Massachusetts reported 86 per cent of the total number of active producing spindles for the state in 1919, and the woolen, worsted, and felt goods industries, 10.9 per cent. All of the industries show increases in active spindles for the

five-year period with the exception of the carpet and rug industry, which reported a decrease of 9.7 per cent.

Leather, tanned, curried, and finished (Tables 25 and 26).—Table 25 shows the quantity and cost of the principal materials used and the quantity and value of the chief products of the leather industry for 1919, 1914, and 1909.

TABLE 25.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$32,017,255	\$33,194,061	\$28,765,508
Cattle hides:			
Number.....	1,634,538	764,636	1,251,036
Cost.....	\$18,958,933	\$5,205,007	\$6,603,898
Skins:			
Calf and kip—			
Number.....	4,112,790	5,630,003	5,439,236
Cost.....	\$22,021,470	\$11,039,546	\$7,910,400
Goat and kid—			
Number.....	5,739,256	5,137,413	6,299,952
Cost.....	\$10,260,356	\$3,343,748	\$3,935,024
Sheep and lamb—			
Number.....	9,006,655	10,912,093	8,739,684
Cost.....	\$9,237,327	\$7,297,749	\$3,277,748
All other raw stock, cost.....	\$1,574,563	\$428,889	\$129,705
Purchased rough leather used, cost.....	\$4,218,862	\$852,150	\$2,018,080
Fuel and rent of power, cost.....	\$1,934,048	\$615,950	\$607,523
All other materials, cost.....	\$13,811,696	\$4,410,107	\$4,283,121
PRODUCTS.			
Total value.....	\$129,594,962	\$45,265,434	\$40,002,079
Leather, value.....	\$97,654,939	\$37,614,588	\$33,733,326
Cattle side upper (other than patent)—			
Sides.....	1,637,765	989,809	1,509,748
Value.....	\$11,936,255	\$2,810,363	\$4,174,700
Calf and kip skins—			
Number.....	3,933,974	5,549,931	5,457,771
Value.....	\$28,753,801	\$13,270,767	\$10,907,162
Goat and kid skins—			
Number.....	5,918,958	4,483,280	5,837,401
Value.....	\$16,127,854	\$4,257,801	\$4,852,505
Sheep and lamb skins—			
Number.....	7,246,487	16,032,940	8,102,771
Value.....	\$12,389,863	\$9,017,000	\$4,254,219
All other leather, value.....	\$28,447,166	\$7,652,057	\$9,484,740
All other products, value.....	\$10,007,012	\$2,068,790	\$1,499,598
Work on materials for others, value.....	\$21,333,011	\$5,582,056	\$4,769,157

The number of cattle hides treated in 1919, as compared with 1914, shows an increase of 869,902, or 113.8 per cent. The total number of skins treated, however, shows a decrease during this period of 8,820,778, or 31.9 per cent. The falling off was mainly in sheep and lamb skins, which decreased 7,905,408, or 46.7 per cent; there was also a decrease of 1,517,213, or 26.9 per cent, in the number of calf and kip skins. The number of goat and kid skins treated increased by 601,843, or 11.7 per cent. The total cost of hides and skins used in 1919 shows an increase of \$33,591,136, or 124.9 per cent over the cost for 1914, notwithstanding a decrease in the total number. Considering all kinds of hides and skins on a unit cost basis, the increase was from 95 cents in 1914 to \$2.95 in 1919.

The value of products for the industry in the state in 1919 formed 14 per cent of its total for the United States, a larger proportion than for any prior census. From 1914 to 1919 the total value of products increased \$84,329,528, or 186.3 per cent. While each of the four classes of leather shown separately shows

decided increases in value during this period, the largest actual increase was in calf and kip skins, \$15,477,034, or 116.6 per cent; but the largest percentage of increase was for goat and kid skins, \$11,870,053, or 278.8 per cent. Most of the skins reported were used in the manufacture of upper leather, although fancy, bookbinders, glove, roller leather, etc., were manufactured to some extent. "All other leather" in Table 25 includes belting, patent, sole, case, bag and strap, finished splits, cabretta skins, etc.

The amount received for work on materials for others, which was 17 per cent greater in 1914 than 1909, was 282.2 per cent greater in 1919 than in 1914. This large increase was due not only to the higher charges for custom work, but also to a larger volume of business done. Of 239 establishments doing custom tanning in the United States, 82 were located in Massachusetts.

Table 26 gives for 1919 the quantities and values for some of the principal finished products of the leather industry. In the preceding Table these products are shown by kinds of skins.

TABLE 26.—QUANTITY AND VALUE OF FINISHED LEATHER: 1919.

KIND.	Quantity.	Value.
Upper leather.....		\$55,931,616
Calf and kip.....skins..	3,714,605	27,232,375
Goat and kid.....skins..	5,705,605	15,392,538
Sheep and lamb.....skins..	6,439,808	10,588,483
Cabretta.....skins..	2,139,213	2,718,045
Patent leather.....		11,320,708
Cattle.....sides..	1,315,293	11,305,132
All other.....		15,570
Fancy leather.....		3,782,012
Sheep and lamb.....skins..	773,901	1,711,560
All other.....		2,070,462
Finished splits.....		2,903,535
Case, bag, and strap; roller; glove; bookbinders'; and lace leather.....		3,537,819

Boots and shoes (Tables 27 and 28).—Table 27 shows, by classes, the number of pairs of footwear manufactured in the state for 1919, 1914, and 1909, and Table 28 shows for 1919 and 1914 this footwear by method of manufacture.

Massachusetts continues to rank first among the states in the manufacture of footwear. The state's proportion of the total quantity produced for the industry in the United States, however, was 35.3 per cent in 1919, as compared with 39.4 per cent in 1914, and 41.4 per cent in 1909. This proportionate decrease was due to large gains made by some of the other states, since there was an actual increase in Massachusetts of 1,768,529 pairs, or 1.5 per cent, for the period 1914–1919. In contrast to this slight gain in quantity, the aggregate value increased by \$241,936,378, or 120.6 per cent, for the same period. The number of women's shoes increased by 12,955,602 pairs, or 40.1 per cent. All other classes, including slippers, show decreases. "All other footwear" includes moc-

casins, sandals, athletic, sporting, and canvas shoes, and footwear not strictly boots and shoes. Work done for others consists of the making of buttonholes in uppers, stitching, crimping, and general contract work.

TABLE 27.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

CLASS.	NUMBER OF PAIRS AND VALUE.		
	1919	1914	1909
Aggregate value.....	\$442,466,236	\$200,520,858	\$187,045,767
Boots and shoes:			
Total number of pairs.....	102,389,856	98,009,176	102,826,648
Total value.....	\$415,360,600	\$180,763,458	.....
Men's—			
Number of pairs.....	39,610,259	44,750,716	45,155,939
Value.....	\$190,317,054	\$101,334,680	.....
Boys' and youths'—			
Number of pairs.....	5,517,399	8,318,252	9,019,124
Value.....	\$14,504,673	\$11,211,988	.....
Women's—			
Number of pairs.....	45,251,383	32,295,781	36,778,482
Value.....	\$177,425,587	\$54,955,189	.....
Misses' and children's—			
Number of pairs.....	12,010,815	12,644,427	11,873,153
Value.....	\$24,113,286	\$13,261,595	.....
Slippers:			
Total number of pairs.....	5,620,573	11,799,532	10,155,324
Total value.....	\$11,584,870	\$13,705,841	.....
Men's, boys', and youths'—			
Number of pairs.....	2,364,668	3,061,796	3,369,808
Value.....	\$3,853,277	\$2,935,434	.....
Women's, misses', and children's—			
Number of pairs.....	3,255,905	8,737,736	6,785,516
Value.....	\$7,731,593	\$10,800,407	.....
Infants' shoes and slippers:			
Number of pairs.....	2,559,373	3,109,511	3,610,576
Value.....	\$2,390,405	\$1,685,771	.....
All other footwear:			
Number of pairs.....	6,423,110	2,306,164	1,411,378
Value.....	\$9,034,027	\$1,003,201	.....
All other products, value.....	\$3,217,950	\$2,502,197	.....
Amount received for work done for others.....	\$878,384	\$719,390	.....

¹ Only total value reported in 1909.

TABLE 28.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

CLASS.	Census year.	Total.	Wetted.	McKay.	Turned.	Wood or metal fastened.
Boots and shoes.....	1919	102,389,856	51,641,435	29,430,328	16,933,760	4,384,333
	1914	98,009,176	47,023,877	32,597,338	10,547,367	7,840,604
Men's.....	1919	39,610,259	34,511,423	2,154,131	26,832	2,917,873
	1914	44,750,716	33,052,320	5,588,227	461,760	5,648,419
Boys' and youths'.....	1919	5,517,399	1,312,192	3,044,342	26,525	1,134,340
	1914	8,318,252	1,672,616	5,377,545	.....	1,268,091
Women's.....	1919	45,251,383	13,063,994	18,531,329	12,535,279	220,781
	1914	32,295,781	9,667,796	13,322,750	8,779,641	525,594
Misses' and children's.....	1919	12,010,815	1,853,826	5,700,526	4,345,124	111,339
	1914	12,644,427	2,631,145	8,308,810	1,305,966	398,500
Slippers.....	1919	5,620,573	380,724	2,706,174	2,533,675	.....
	1914	11,799,532	509,269	4,189,516	6,824,978	275,789
Men's, boys', and youths'.....	1919	2,364,668	.....	1,122,993	1,241,675	.....
	1914	3,061,796	.....	1,313,678	1,472,349	275,789
Women's, misses', and children's.....	1919	3,255,905	.....	1,891,905	1,364,000	.....
	1914	8,737,736	509,269	2,575,838	5,352,629	.....
Infants' shoes and slippers.....	1919	2,559,373	150,126	253,811	2,155,436	.....
	1914	3,109,511	477,811	661,750	1,909,950	.....
All other footwear.....	1919	6,423,110	80,483	13,014,927	3,327,700	.....
	1914	2,306,164	.....	563,864	1,742,300	.....

¹ Includes "Stitchdown" to avoid disclosure of individual operations.

² Includes "Wetted" and "Stitchdown."

³ Includes "Wetted."

Of the boots and shoes manufactured in Massachusetts, 50.4 per cent were of the welted type, 28.7 per cent McKay, and 20.8 per cent other types. The corresponding percentages in 1914 were 48, 33.3, and 18.8. The gain shown in number of pairs of welted shoes produced was sufficient to make the total increase for this type slightly more than all other types combined. The manufacture of the McKay, always a prominent type in the state, has steadily declined since 1909. In 1909, although not shown in this table, the McKay made formed 37.9 per cent of the total; while in 1919 the percentage was but 28.7 per cent. In 1919, 66.8 per cent of the welted type were men's and 27 per cent were women's. On the other hand, 63 per cent of the McKay were women's and only 7.3 per cent men's. The greater portion of men's boots and shoes, 87.1 per cent, were made by the welted method; while women's shoes were 41 per cent McKay, 30.9 per cent welted, and 27.7 per cent turned. Although boys' and youths' and misses' and children's shoes were principally of the McKay type, a considerable proportion of the misses' and children's were of the turned type.

Slaughtering and meat packing (Table 29).—This table presents for the census years 1919, 1914, and 1909, data for both materials and products in detail.

The cost of "All other materials" includes that for dressed meat purchased for curing, cottonseed oil, refrigeration, curing materials, seasoning, fuel, rent of power, containers, mill supplies, and freight; the value of "All other products" includes that for beef, pickled and other cured, canned pork, meat puddings, lard compounds, oleo and other oils, oleo stearin, hog and cattle hair, wool, wooden boxes, cooperage, and skins.

The growth of the industry, when measured by cost of materials and value of products, shows large increases from 1914 to 1919. That for total cost of materials was \$55,807,001, or 122.8 per cent; for cost of animals slaughtered, \$42,875,025, or 123.5 per cent; and for "All other materials," \$12,931,976, or 120.6 per cent. The growth as indicated by the increase in the total number of animals slaughtered, however, was very slight, this increase being only 113,896, or 6.2 per cent, during the five-year period. In fact, the number of beeves and sheep and lambs combined decreased 173,985, or 38.6 per cent, the increase being in calves and hogs, which was 287,881, or 20.9 per cent.

In 1919, compared with 1914, the total value of products for the industry in the state shows an increase of \$58,513,518, or 113.1 per cent. The total value for all fresh meats increased \$8,777,745, or 46.9 per cent, but the combined quantity of the several kinds of fresh meats decreased 27,312,379 pounds, or 18.5 per cent. During this five-year period the largest single product, pork, pickled and other cured, in-

creased 17,283,120 pounds in quantity, or 14.4 per cent, and \$24,542,929, or 148.4 per cent, in value.

TABLE 29.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$101,235,340	\$45,428,339	\$37,484,136
Animals slaughtered, cost.....	\$77,581,477	\$34,706,452	\$31,006,461
Beeves—			
Number.....	59,319	79,615	62,900
Cost.....	\$6,501,738	\$4,630,253	\$3,376,319
Calves—			
Number.....	244,394	115,724	129,162
Cost.....	\$3,000,196	\$1,135,673	\$854,275
Sheep and lambs—			
Number.....	217,146	370,835	342,491
Cost.....	\$2,509,439	\$2,085,790	\$1,730,127
Hogs—			
Number.....	1,422,449	1,263,238	1,501,456
Cost.....	\$66,510,104	\$20,854,736	\$25,048,736
All other materials, cost.....	\$23,653,863	\$10,721,887	\$6,474,676
PRODUCTS.			
Total value.....	\$110,238,038	\$51,724,520	\$42,531,499
Fresh meat, value.....	\$27,480,598	\$18,702,853	\$13,242,103
Beef—			
Pounds.....	30,250,063	39,404,297	34,589,397
Value.....	\$5,029,396	\$4,282,617	\$2,865,011
Veal—			
Pounds.....	13,677,154	7,966,636	8,317,482
Value.....	\$1,900,759	\$1,042,344	\$901,055
Mutton and lamb—			
Pounds.....	8,091,201	14,715,201	13,346,470
Value.....	\$1,988,818	\$1,883,045	\$1,588,054
Pork—			
Pounds.....	63,194,030	80,977,605	66,408,331
Value.....	\$17,001,000	\$11,185,062	\$7,956,169
Edible offal and all other fresh meat—			
Pounds.....	5,435,828	4,837,606	1,290,842
Value.....	\$480,016	\$309,785	\$51,514
Pork, pickled and other cured:			
Pounds.....	137,117,461	119,634,341	122,689,181
Value.....	\$41,084,061	\$16,541,132	\$15,044,381
Sausage:			
Pounds.....	24,481,233	27,854,557	23,074,998
Value.....	\$6,212,114	\$4,289,953	\$2,357,948
Lard:			
Pounds.....	72,191,184	66,840,628	60,840,711
Value.....	\$23,374,020	\$7,226,817	\$7,156,116
Tallow and oleo stock:			
Pounds.....	2,019,696	¹ 1,276,789	2,775,149
Value.....	\$332,270	¹ \$60,109	\$172,380
Grease and soap stock:			
Pounds.....	5,350,698	582,487	(²)
Value.....	\$603,263	\$31,372	(²)
Sausage casings:			
Pounds.....	4,114,325	559,808	(²)
Value.....	\$472,026	\$173,453	(²)
Fertilizer materials:			
Tons.....	10,244	2,380	8,441
Value.....	\$577,806	\$78,423	\$229,019
Hides and pelts:			
Cattle—			
Number.....	50,319	79,615	101,537
Pounds.....	3,452,135	4,487,917	4,672,435
Value.....	\$1,086,101	\$719,169	\$686,312
Calf—			
Number.....	243,924	107,324	
Pounds.....	1,718,156	970,055	
Value.....	\$1,391,074	\$210,394	
Sheep—			
Number.....	217,146	370,835	341,668
Value.....	\$650,693	\$135,327	\$100,214
All other products, value.....	\$6,914,072	\$3,546,518	\$3,450,726

¹ No oleo stock reported in 1914.

² Not reported separately.

Electrical machinery, apparatus, and supplies (Table 30).—This table presents details for the products of the industry in the state for 1919. Comparative statistics of this character are not available for prior censuses, but the total value of products for the industry in Massachusetts in 1919, as compared with that for 1914, shows an increase of \$48,069,444, or 109.6 per cent.

TABLE 30.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: 1919.

	Value.
Total.....1919..	\$91,938,738
.....1914..	43,809,204
Motors.....	16,651,886
Insulated wire.....	5,143,957
Incandescent lamps.....	4,690,504
Generating apparatus and parts.....	3,892,315
Apparatus and devices, industrial and household.....	3,761,723
Telegraph apparatus.....	2,823,539
Sockets, receptacles, bases, and attachment plugs.....	949,215
Electric clocks and time mechanisms.....	447,319
Telephone apparatus.....	307,909
Switchboards, panel boards, and cut-out cabinets for light and power.....	375,699
Bells, buzzers, and signal gongs.....	351,108
Batteries.....	350,123
Searchlights, projectors, and focusing lamps.....	100,721
Railway switches, signals, and attachments.....	132,373
All other electrical machinery, apparatus, and supplies ¹	48,772,989
All other products.....	2,614,264
Amount received for custom work and repairing.....	384,001

¹ In addition, electrical machinery, apparatus, and supplies to the value of \$108,778 were reported in 1919 by establishments engaged primarily in other industries.

² Includes articles that can not be shown separately without disclosing individual operations, such as transformers, magneto-ignition apparatus, electric measuring instruments, carbons, arc lamps, rectifying apparatus, insulators, wiring supplies, annunciators, X-ray tubes, etc.

Paper and wood pulp (Table 31).—This industry in Massachusetts consists almost entirely in the manufacture of paper, only one establishment producing wood pulp for sale and three manufacturing it for their own use. This table gives the quantity and cost of materials used, the quantity and value of the principal products, and detailed information regarding equipment, for 1919, 1914, and 1909.

TABLE 31.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$53,763,884	\$26,610,748	\$22,340,613
Pulp wood:			
Cords.....	51,981	45,242	(¹)
Cost.....	\$1,004,840	\$332,908	\$357,888
Wood pulp, purchased, total:			
Tons.....	202,526	181,207	143,905
Cost.....	\$19,465,999	\$8,702,013	\$6,762,838
Ground—			
Tons.....	10,845	11,343	12,191
Cost.....	\$445,184	\$328,930	\$277,421
Soda fiber—			
Tons.....	58,275	44,102	38,434
Cost.....	\$4,608,031	\$1,979,288	\$1,731,456
Sulphite fiber—			
Tons.....	107,247	113,036	91,103
Cost.....	\$11,998,777	\$5,823,339	\$4,654,074
Sulphate fiber—			
Tons.....	25,949	12,786	2,177
Cost.....	\$2,309,350	\$570,456	\$99,887
Screenings, mechanical and chemical—			
Tons.....	210	(¹)	(¹)
Cost.....	\$14,651	(¹)	(¹)
Rags, including cotton and flax waste and sweepings:			
Tons.....	69,405	79,307	93,558
Cost.....	\$9,490,326	\$5,181,074	\$4,859,936
Paper stock, including high-grade shavings and old and waste paper:			
Tons.....	157,905	137,716	106,210
Cost.....	\$4,846,672	\$2,375,097	\$1,861,709
Manila stock, including jute bagging, rope waste, threads, etc.:			
Tons.....	22,639	15,424	17,515
Cost.....	\$1,502,917	\$672,480	\$660,065
China clay, domestic and foreign:			
Tons.....	35,181	(²)	(²)
Cost.....	\$714,655	(²)	(²)
Bleaching powder:			
Tons.....	7,609	(²)	(²)
Cost.....	\$326,630	(²)	(²)
Fuel and rent of power, cost.....	\$4,616,773	\$2,721,645	\$2,331,897
All other materials, cost.....	\$11,496,072	\$6,024,061	\$5,515,280

TABLE 31.—PAPER AND WOOD PULP: 1919, 1914, AND 1909—Continued.

	1919	1914	1909
PRODUCTS.			
Total value.....	\$87,159,890	\$43,352,545	\$40,096,713
Book, plate, and coated paper:			
Tons.....	130,611	143,897	121,371
Value.....	\$21,311,815	\$12,169,771	\$10,011,710
Cover paper:			
Tons.....	6,849	6,475	3,898
Value.....	\$2,001,029	\$1,019,445	\$489,275
Fine paper: ⁴			
Tons.....	91,026	86,876	89,595
Value.....	\$34,770,247	\$17,879,594	\$17,438,595
Wrapping paper:			
Tons.....	19,863	13,848	15,362
Value.....	\$3,190,534	\$1,685,619	\$1,900,385
Boards:			
Tons.....	115,649	59,157	53,233
Value.....	\$10,767,394	\$2,196,686	\$2,065,865
All other products, value.....	\$15,118,871	\$8,401,520	\$8,190,901
EQUIPMENT.			
Paper machines:			
Fourdrinier—			
Number.....	158	160	150
Capacity, tons, 24 hours.....	1,341	1,118	920
Cylinder—			
Number.....	40	43	65
Capacity, tons, 24 hours.....	582	550	454
Digestors, number.....	19	17	17
Grinders, number.....	10	10	11
Yearly capacity of mills in pulp, tons.....	49,460	33,556	24,401
Yearly capacity of mills in paper, tons.....	572,085	497,520	410,536

¹ Not reported.

² Reported in 1909 as "Other chemical fiber."

³ Not reported separately.

⁴ Reported as "Writing and other fine paper" in 1914 and 1909.

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

Fine paper, including writing paper, was the principal product of the industry in the state at each census, forming 39.9 per cent of the total value of all products in 1919. Book paper was the next in importance in this respect, representing 24.4 per cent at that census. In 1919 Massachusetts produced 28 per cent of the total quantity of fine paper manufactured in the United States. In 1914 the corresponding proportion was 35.1 per cent, and in 1909, 45.2 per cent. To avoid disclosing the data of individual establishments, it was necessary to include the value of tissue paper, tag stock, poster, novel, blotting paper, newspaper, hanging paper, etc., and wood pulp produced for sale under "All other products."

Textile machinery and parts (Table 32).—Separate statistics for the manufacture of textile machinery have not been shown at prior censuses, but were included in the general classification "Foundry and machine-shop products." Massachusetts led in 1919 in the manufacture of textile machinery, reporting 53.7 per cent of the total value of products for the United States. The details presented in Table 32 give only such items as can be shown without the possibility of disclosing the operations of individual establishments.

TABLE 32.—TEXTILE MACHINERY AND PARTS: 1919.

PRODUCT.	Value.
Total.....	\$65,901,370
Machinery for working raw stock, and subsequent machinery used in textile mills in preparing yarn for weaving, knitting, etc.	23,070,283
Carding machines.....	7,176,675
Spinning and throwing machines.....	6,465,628
Twisting or doubling frames.....	1,618,300
Roving machines and slubbing frames.....	1,579,929
Winders and warp spooling machines.....	1,240,440
Picker machines.....	976,366
All other preliminary machinery.....	4,012,945
Fabric machinery.....	17,081,912
Machinery for converting and finishing yarn and fabrics.....	2,153,989
Extra parts, attachments and accessories for textile machinery....	17,373,189
Parts and attachments for machines working raw stock to yarn.....	10,854,212
Parts and attachments for fabric machines.....	8,561,260
Parts and attachments for converting and finishing machines.....	2,957,717
Other textile machinery, including repairs.....	4,607,163
Other machinery not pertaining to textiles.....	824,176
All other products.....	785,653

Printing and publishing (Tables 33 and 34).—Table 33 shows the number and aggregate circulation per issue of all the newspapers and periodicals published in Massachusetts as reported at the censuses of 1919, 1914, and 1909.

TABLE 33.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	570	632	537	9,026,485	10,072,651	9,636,182
Daily.....	84	93	86	2,085,287	2,060,343	1,765,690
Sunday.....	17	21	15	1,444,846	1,271,453	1,122,949
Semiweekly ¹	7	10	8	15,058	26,560	23,225
Weekly.....	284	322	271	1,493,382	2,552,499	1,911,456
Monthly.....	129	130	112	2,918,846	2,780,289	3,305,165
Quarterly.....	44	44	31	1,056,934	1,361,467	1,401,844
All other classes ²	5	12	14	12,152	20,050	106,723

¹ Includes 2 triweekly publications in 1919, and 3 in 1914 and 1909.

² Includes 10 semimonthly publications in 1919; 12, in 1914; and 5, in 1909.

³ Includes 4 bimonthly and 1 four-times-a-week publications in 1919; 9 bimonthly publications, 2 semiannuals, and 1 semiquarterly in 1914; and 7 bimonthly and 7 "All other" publications in 1909.

The decrease in total circulation is due to the removal to New York City of one weekly of large circulation and to the reduction in reported circulation of several quarterly publications of religious and charitable type.

The circulation of daily newspapers increased 24,944, or 1.2 per cent, during the five years from 1914 to 1919 and 319,597, or 18.1 per cent, during the decade. The low rate of increase for the five-year period is due to the consolidation of certain leading dailies and to the extinction of others.

Of the daily circulation as reported for 1919, 1,231,070, or 59 per cent, is shown for the 66 afternoon newspapers. The Sunday circulation shows an increase of 173,393, or 13.6 per cent, from 1914 to 1919; and of 322,797, or 28.8 per cent, during the decade.

Table 34 shows the number and, so far as possible without disclosure of individual establishments, the

circulation of foreign-language newspapers and periodicals, compared with those in English, by period of issue, for the censuses of 1919, 1914, and 1909.

TABLE 34.—PRINTING AND PUBLISHING, BY LANGUAGES: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	Cen- sus year.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES.	
		Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circulation per issue.
Total.....	1919	570	9,026,485	509	8,669,617	61	356,868
	1914	632	10,072,651	575	9,467,839	57	604,812
	1909	537	9,636,182	490	9,261,144	47	375,038
Daily and Sunday.....	1919	101	3,530,133	87	3,445,147	14	84,986
	1914	114	3,331,796	107	3,299,249	7	32,547
	1909	101	2,887,739	96	2,871,639	6	16,200
Weekly ¹	1919	292	1,510,847	263	1,397,915	29	112,932
	1914	332	2,579,049	292	2,431,807	40	147,242
	1909	279	1,934,711	245	1,827,105	34	107,606
Monthly.....	1919	119	2,886,640	106	2,840,225	13	46,415
	1914	118	2,153,439	112	2,122,206	6	31,173
	1909	101	2,744,183	101	2,744,183	(*)	(*)
All other classes ²	1919	58	1,098,805	53	980,390	5	112,535
	1914	68	2,008,367	64	1,614,517	4	393,850
	1909	56	2,069,549	48	1,818,317	8	261,232

¹ Includes in 1919, 2 triweeklies and 4 semiweeklies in English, and 1 triweekly and 1 semiweekly in foreign languages; in 1914, 3 semiweeklies and 2 triweeklies in English, and 4 semiweeklies and 1 triweekly in foreign languages; in 1909, 1 semiweekly and 2 triweeklies in English, and 4 semiweeklies and 1 triweekly in foreign languages.

² Included in "All other classes" to avoid disclosure of individual operations. Includes in 1919, 9 semimonthly and 4 bimonthly publications, and 40 quarterlies in English, and 1 semimonthly publication and 4 quarterlies in foreign languages; in 1914, 10 semimonthly and 9 bimonthly publications, 42 quarterlies, and 3 "All other" in English, and 2 semimonthly publications and 2 quarterlies in foreign languages; and in 1909, 5 semimonthly and 7 bimonthly publications, 30 quarterlies, and 6 "All other" in English, and 6 monthly publications, 1 quarterly, and 1 "All other" in foreign languages.

The decrease in the total circulation of foreign-language publications since 1914 was 247,944, or 41 per cent.

It is of interest to note that the French publications show the largest increase in circulation—75,973—which was due to the issuance of a quarterly religious and charitable publication formerly printed in English-and-French. German publications decreased by four, but the circulation as reported increased slightly. The other leading foreign-language publications were those in Portuguese, Lithuanian, Polish, Italian, and Finnish. Albanian, Dutch, Spanish, and Syrian were newcomers in census returns for Massachusetts, while Esperanto and Yiddish publications disappeared during the five-year period from 1914 to 1919.

The daily foreign-language newspapers were in Albanian, Armenian, Finnish, French, Italian, Polish, and Portuguese.

Laundries (Table 35).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 35, however, summarizes the statistics for such laundries in the state for 1919 and 1914.

TABLE 35.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1914-1919.
	1919	1914	
Number of establishments.....	340	301	-13.0
Persons engaged.....	7,960	8,861	-10.2
Proprietors and firm members.....	330	404	-18.3
Salaried employees.....	809	686	17.9
Wage earners (average number).....	6,821	7,771	-12.2
Primary horsepower.....	11,502	11,382	1.1
Capital.....	\$7,206,319	\$4,005,708	54.7
Salaries and wages.....	6,451,179	4,434,869	45.5
Wages.....	1,166,026	713,460	63.4
Salaries.....	5,285,153	3,721,409	42.0
Wages.....	738,385	59,706	1,136.7
Paid for contract work.....	302,461	275,427	31.6
Rent and taxes.....	2,484,350	1,391,900	78.5
Cost of materials.....	12,864,270	8,661,830	48.5
Amount received for work done.....			

¹A minus sign (-) denotes decrease.

Dyeing and cleaning (Table 36).—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 for censuses 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 36.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	45
Persons engaged.....	894
Proprietors and firm members.....	38
Salaried employees.....	133
Wage earners (average number).....	723
Primary horsepower.....	1,003
Capital.....	\$806,211
Salaries and wages.....	856,529
Salaries.....	185,412
Wages.....	671,117
Paid for contract work.....	15,947
Rent and taxes.....	125,073
Cost of materials.....	584,073
Amount received for work done.....	2,252,321

GENERAL TABLES.

Table 39 gives, for 1919, 1914, and 1909 for selected industries in the state and in 12 cities having 50,000 inhabitants or more the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products, while for Haverhill and for cities of 10,000 to 50,000 inhabitants for which comparable figures are available, similar data for all industries combined.

Custom sawmills and gristmills (Tables 37 and 38).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom mills were not collected in 1914. Tables 37 and 38, however, summarize the statistics for such 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 37.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	27	35	.....
Persons engaged.....	45	92	.....
Proprietors and firm members.....	34	40	.....
Wage earners (average number).....	11	52	.....
Primary horsepower.....	1,002	1,512	-33.7
Capital.....	\$53,705	\$78,085	-31.7
Wages.....	9,006	22,518	-56.1
Rent and taxes.....	786	773	1.7
Cost of materials.....	1,502	601	149.9
Amount received for work done.....	26,690	47,754	-44.1

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

TABLE 38.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	10	15	.....
Persons engaged.....	10	26	.....
Proprietors and firm members.....	12	10	.....
Wage earners (average number).....	4	10	.....
Primary horsepower.....	390	584	-33.2
Capital.....	\$40,384	\$42,780	8.4
Wages.....	4,202	2,333	84.0
Rent and taxes.....	3,802	429	786.2
Cost of materials ²	129,747	85,510	51.7
Value of products ²	151,159	99,381	52.1

¹A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.²Includes estimate of all grain ground.

Table 40 presents, for 1919, for the state as a whole and for the 13 cities having 50,000 inhabitants or more, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments; and for cities of 10,000 to 50,000 inhabitants, similar data for all industries combined.

MANUFACTURES—MASSACHUSETTS.

TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary 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	11,006	713,836	1,729,878	766,623	2,260,713	4,011,182	Copper, tin, and sheet-iron products. ²	1919	172	3,124	3,263	3,656	6,875	15,536
	1914	12,013	605,698	1,396,722	341,310	931,384	1,641,373		1914	159	2,088	2,791	1,663	3,510	7,347
	1909	11,684	584,559	1,175,071	301,173	830,765	1,490,529		1909	150	2,027	1,808	1,481	2,933	6,135
Automobiles, including bod- ies and parts.	1919	96	4,530	4,441	5,829	16,282	27,032	Corsets.....	1919	11	1,555	835	1,093	3,367	6,764
	1914	66	3,439	4,298	3,016	5,642	11,199		1914	11	2,298	990	906	1,902	4,581
	1909	62	4,138	2,806	2,793	5,491	11,359		1909	10	1,989	455	735	1,607	3,762
Belting, leather.....	1919	20	269	383	329	2,930	3,944	Cotton goods, including cot- ton small wares.	1919	231	124,150	526,367	111,141	364,921	604,988
	1914	20	1,113	1,386	764	4,980	7,297		1914	189	113,559	438,083	50,706	119,834	197,322
	1909	16	955	897	555	3,666	5,647		1909	182	108,914	362,043	45,117	105,157	186,462
Blacking and cleansing and polishing preparations.	1919	93	765	746	761	4,905	8,501	Cutlery and tools, not else- where specified.	1919	168	11,214	20,492	12,305	13,399	48,832
	1914	93	572	574	302	2,083	3,841		1914	137	6,485	12,728	3,903	3,394	12,974
	1909	80	527	892	257	1,879	3,713		1909	135	6,747	13,263	3,738	3,434	11,611
Boots and shoes, including cut stock and findings.	1919	929	90,693	48,353	99,589	367,219	573,037	Dyeing and finishing tox- iles, exclusive of that done in textile mills.	1919	62	12,321	39,133	12,241	44,210	75,262
	1914	884	85,114	39,721	51,007	164,242	255,188		1914	57	11,437	30,932	5,843	10,989	22,455
	1909	860	83,063	35,051	45,990	152,990	236,343		1909	48	9,079	24,513	4,430	10,469	21,893
Boots and shoes, rubber.....	1919	8	13,062	21,609	12,763	17,021	44,808	Dyestuffs and extracts—nat- ural.	1919	27	165	773	200	4,476	5,812
	1914	9	8,087	8,177	4,468	10,455	23,789		1914	17	148	520	99	1,162	1,674
	1909	8	6,928	8,330	3,376	10,640	18,722		1909	10	80	325	50	612	725
Boxes, paper and other, not elsewhere specified.	1919	102	4,711	4,166	3,547	7,463	15,666	Electrical machinery, appa- ratus, and supplies.	1919	110	23,889	36,367	27,650	31,887	91,939
	1914	97	4,244	3,393	1,886	3,072	7,085		1914	91	17,125	29,840	10,651	17,037	43,869
	1909	99	3,838	2,370	1,557	2,719	6,758		1909	83	14,507	14,835	8,200	12,735	28,143
Brass, bronze, and copper products.	1919	72	2,832	15,511	3,509	9,367	16,943	Emery and other abrasive wheels.	1919	14	2,443	5,886	2,265	5,013	13,118
	1914	73	1,620	7,415	1,063	3,715	5,959		1914	12	902	2,214	599	866	2,299
	1909	85	1,791	6,407	1,115	3,663	6,042		1909	13	615	1,710	429	504	1,982
Bread and other bakery products.	1919	1,309	8,583	7,712	9,336	40,587	66,017	Fancy articles, not else- where specified. ³	1919	71	3,833	3,976	3,229	7,359	13,696
	1914	1,419	8,083	6,589	4,866	18,271	33,309		1914	67	2,777	2,457	1,383	2,857	5,342
	1909	1,201	6,697	4,316	3,814	15,727	26,146		1909	78	3,558	2,382	1,630	3,514	6,018
Brushes.....	1919	30	1,613	1,005	1,342	3,334	6,857	Firearms.....	1919	5	2,253	2,121	2,599	1,066	5,645
	1914	29	1,437	878	717	2,231	3,910		1914	6	2,161	1,090	1,461	711	3,297
	1909	30	1,620	580	653	1,356	2,875		1909	8	2,327	3,059	1,458	752	3,408
Canning and preserving ¹	1919	55	1,944	1,677	1,838	13,433	19,017	Flour-mill and gristmill prod- ucts.	1919	75	123	4,013	130	4,250	4,878
	1914	65	1,903	990	866	5,606	8,169		1914	105	176	4,000	101	3,424	3,811
	1909	71	1,449	1,043	642	4,583	6,840		1909	120	220	5,642	126	4,131	4,632
Carpets and rugs, other than rag.	1919	10	3,134	6,132	3,146	8,021	13,594	Food preparations, not else- where specified.	1919	81	848	1,919	773	6,072	9,603
	1914	12	5,319	10,600	2,389	6,668	10,981		1914	68	469	1,032	280	1,853	4,043
	1909	11	5,954	10,037	2,763	7,501	12,812		1909	50	366	827	198	1,292	2,547
Carriages and sleds, chil- dren's.	1919	13	1,449	1,358	1,414	2,550	5,254	Foundry and machine-shop products. ⁴	1919	1,179	61,740	98,105	77,067	87,999	244,579
	1914	8	1,175	1,130	660	1,400	2,644		1914	932	41,361	68,518	28,118	30,990	85,639
	1909	7	858	845	411	955	1,755		1909	857	44,179	62,802	27,032	31,182	86,926
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	30	1,846	2,790	2,446	1,766	4,505	Furnishing goods, men's. ⁵ ..	1919	43	3,240	1,989	2,671	10,278	17,362
	1914	39	1,705	235	1,373	1,204	2,566		1914	43	3,316	1,727	1,582	4,370	7,592
	1909	46	1,708	1,788	1,090	975	2,140		1909	55	4,200	2,306	1,952	6,652	12,030
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	14	7,724	11,259	11,272	10,201	22,638	Furniture and refrigerators..	1919	171	6,435	10,677	6,748	10,845	24,109
	1914	15	6,264	8,287	4,394	4,197	8,830		1914	145	6,054	10,919	4,084	5,558	14,281
	1909	21	5,162	5,697	3,447	3,976	7,804		1909	155	7,277	12,203	3,986	5,808	13,868
Chemicals.....	1919	27	2,483	9,223	3,044	8,101	17,305	Gas, illuminating and heating	1919	51	2,654	18,827	3,567	10,774	24,231
	1914	24	1,395	5,405	955	3,355	6,685		1914	61	3,182	11,462	2,141	5,951	15,782
	1909	24	1,358	3,731	811	3,048	5,916		1909	64	2,292	7,371	1,250	3,810	11,074
Chocolate and cocoa prod- ucts.	1919	6	2,007	5,711	1,945	23,989	30,327	Glue, not elsewhere specified.	1919	13	826	1,095	940	3,630	6,451
	1914	5	943	4,403	592	7,303	10,210		1914	11	563	1,481	294	1,789	2,639
	1909								1909	14	509	2,151	223	1,159	1,895
Clothing, men's, including shirts.	1919	219	7,946	2,285	7,989	26,465	46,583	Grease and tallow, not in- cluding lubricating greases.	1919	24	825	2,163	917	4,836	7,822
	1914	227	7,645	1,695	3,853	10,415	19,614		1914	33	622	1,244	420	1,829	2,668
	1909	254	7,335	1,753	3,398	9,756	18,314		1909	35	561	1,374	347	1,753	2,661
Clothing, women's.....	1919	258	6,271	1,622	5,616	17,974	30,423	Hats, straw.....	1919	13	1,490	695	1,109	2,980	5,435
	1914	202	6,076	1,202	2,966	7,664	13,983		1914	19	2,383	1,857	1,451	3,205	5,762
	1909	174	5,813	1,024	2,446	6,511	11,728		1909	18	2,668	1,009	1,448	3,690	6,689
Coffee and spice, roasting and grinding.	1919	23	512	1,377	483	14,005	16,978	House-furnishing goods, not elsewhere specified.	1919	54	1,081	746	793	5,130	7,708
	1914	21	466	1,312	265	6,312	8,676		1914	29	444	814	203	844	1,350
	1909	17	373	996	201	4,082	5,806		1909	18	311	490	129	593	921
Confectionery and ice cream..	1919	278	11,585	11,236	8,523	40,554	68,897	Iron and steel, steel works and rolling mills.	1919	11	3,684	31,609	5,758	19,236	30,970
	1914	273	7,250	6,099	3,037	13,841	22,902		1914	11	2,889	28,507	1,903	8,802	11,375
	1909								1909	9	3,115	24,500	1,977	10,032	13,958
Cooperage and wooden goods, not elsewhere specified.	1919	33	737	2,005	695	2,002	3,482								
	1914	53	955	2,914	521	1,157	2,061								
	1909	70	974	2,883	452	1,094	1,939								

¹ Includes "canning and preserving, fish," and "pickles, preserves, and sauces," in all years; "canning and preserving, fruits and vegetables," in 1914 and 1909; and "canning and preserving, oysters," in 1909.

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

³ Includes "combs and hairpins, not made from metal or rubber," and "ivory, shell, and bone work."

⁴ Includes "automobile repairing," "engines, steam, gas, and water," "gas machines and gas and water meters," "hardware," "iron and steel, tempering and welding," "machine tools," "plumbers' supplies, not elsewhere specified," "pumps, steam," "steam fittings and steam and hot-water heating apparatus," "structural iron-work, not made in steel works or rolling mills," and "textile machinery and parts," in all years; "hardware, saddlery," in 1914 and 1909; and "iron and steel, cast-iron pipe," in 1919.

⁵ Includes "suspenders, garters, and elastic woven goods."

MANUFACTURES—MASSACHUSETTS.

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TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.	Cost of materials.	Value of products.	INDUSTRY.	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.															
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919 1914 1909	11 8 10	1,471 1,292 1,217	2,120 2,073 2,233	1,013 764 703	3,150 1,041 908	5,763 2,267 2,427	Paper goods, not elsewhere specified. ³	1919 1914 1909	57 60 61	3,886 5,829 5,135	9,395 8,621 6,776	3,497 2,818 2,344	15,130 8,687 7,436	24,421 15,579 13,533
Iron and steel, forgings, not made in steel works or rolling mills.	1919 1914 1909	14 10 11	2,172 653 565	6,579 1,826 1,459	2,906 523 381	5,278 839 925	13,290 2,076 1,940	Patent medicines and compounds and druggists' preparations. ⁴	1919 1914 1909	139 162 154	2,390 1,381 1,183	1,981 1,586 1,376	1,905 696 566	8,612 3,323 2,727	20,327 8,263 7,432
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	1919 1914 1909	25 28 26	1,537 1,233 1,125	3,380 3,308 2,870	1,520 998 576	3,841 1,421 1,510	7,853 2,847 2,928	Printing and publishing. ⁵	1919 1914 1909	1,327 1,344 1,270	18,247 18,170 17,532	21,129 20,295 47,629	20,805 13,266 11,684	34,906 16,817 12,881	104,551 50,196 47,445
Jewelry.....	1919 1914 1909	165 202 175	6,786 6,505 7,423	4,404 4,272 4,018	7,234 3,880 4,422	18,365 6,710 5,570	34,817 14,176 15,211	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919 1914 1909	47 42 29	9,406 4,743 3,418	34,358 17,515 10,123	11,682 2,845 1,769	47,076 14,142 11,005	93,377 23,011 15,796
Knit goods.....	1919 1914 1909	77 77 65	12,751 10,635 9,941	10,574 12,309 9,113	11,364 4,737 3,855	31,173 9,267 6,972	52,424 17,419 14,736	Shipbuilding, wooden, including boat building.	1919 1914 1909	55 81 21	923 435 5,697	2,074 1,513 9,811	1,402 328 5,040	1,978 395 19,243	4,192 1,061 34,194
Lasts.....	1919 1914 1909	31 32 27	1,299 890 675	2,861 2,278 1,610	1,598 653 526	1,837 592 611	5,886 1,009 1,009	Silk goods, including throwsters.	1919 1914 1909	21 19 19	5,697 4,495 4,109	9,811 6,635 5,305	5,040 2,092 1,840	19,243 5,961 5,430	34,194 10,077 8,942
Leather goods. ¹	1919 1914 1909	102 119 119	1,680 1,430 1,710	670 444 634	1,377 785 850	4,003 2,219 2,387	7,373 4,023 4,373	Silverware and plated ware.	1919 1914 1909	25 17 21	2,345 2,103 2,465	2,991 2,730 2,113	2,471 1,488 1,725	4,300 2,228 2,728	9,825 5,542 0,539
Leather, tanned, curried, and finished.	1919 1914 1909	131 126 132	15,180 10,164 10,252	34,150 26,634 19,231	19,211 5,918 5,444	82,017 33,194 28,766	129,595 45,265 40,062	Slaughtering and meat packing. ⁶	1919 1914 1909	96 107 94	4,613 3,582 3,325	9,201 2,141 4,844	5,788 47,470 1,837	105,458 38,886	115,534 54,447 44,403
Linen goods.....	1919 1914 1909	4 7 7	1,210 1,541 1,552	3,780 4,605 4,650	1,106 652 660	3,328 1,795 1,004	5,178 3,050 3,392	Soap.....	1919 1914 1909	27 32 38	1,008 490 458	2,785 1,400 1,379	984 260 227	11,173 2,470 2,377	18,730 4,071 4,283
Liquors, malt.....	1919 1914 1909	19 26 37	1,328 2,106 1,730	7,835 12,100 9,917	1,931 1,092 1,481	4,188 4,920 3,593	14,713 15,608 12,724	Sporting and athletic goods.	1919 1914 1909	14 15 18	1,397 1,275 891	1,912 1,188 870	1,243 767 474	3,004 1,084 1,235	5,774 3,424 2,510
Lumber and timber products. ¹	1919 1914 1909	482 589 708	7,119 8,156 8,976	38,350 42,493 41,784	7,593 5,075 6,031	17,794 13,177 12,484	33,612 23,012 23,026	Stationery goods, not elsewhere specified.	1919 1914 1909	30 27 21	3,305 2,467 1,790	1,500 1,242 924	2,619 1,248 778	7,265 3,552 2,395	15,162 0,512 4,524
Marble and stone work.....	1919 1914 1909	239 306 330	1,936 3,858 5,015	11,653 15,400 10,515	2,625 2,889 3,552	2,519 1,885 2,192	7,125 6,734 7,804	Stoves and hot-air furnaces.	1919 1914 1909	15 13 21	1,386 1,440 1,703	2,429 1,061 1,804	1,785 1,116 1,239	1,071 893 1,079	5,577 2,984 3,542
Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	52 54 52	583 740 667	903 1,032 692	637 376 336	2,426 1,456 1,297	4,015 2,502 2,227	Surgical appliances.....	1919 1914 1909	14 14 13	200 240 200	532 322 221	532 149 112	4,346 1,039 474	6,572 1,459 802
Millinery and lace goods, not elsewhere specified.	1919 1914 1909	60 69 79	1,396 2,026 1,680	628 451 391	1,258 940 667	3,153 2,886 2,282	5,959 4,919 3,977	Tobacco manufactures.....	1919 1914 1909	269 336 417	2,070 3,920 3,551	315 339 251	3,354 3,110 2,506	4,985 3,811 2,921	11,891 0,269 7,888
Mineral and soda waters.....	1919 1914 1909	172 171 145	768 508 525	1,849 855 657	816 333 313	4,080 1,075 803	8,177 2,442 2,193	Toys and games.....	1919 1914 1909	30 18 16	1,042 1,381 1,051	1,716 1,119 745	1,101 636 447	1,803 1,129 859	4,704 2,536 1,751
Motorcycles, bicycles, and parts.	1919 1914 1909	8 6 10	3,000 2,135 843	3,050 2,104 899	3,238 1,567 580	8,408 3,194 1,378	10,000 7,021 2,706	Wire.....	1919 1914 1909	9 8 10	5,203 2,899 3,718	24,799 15,142 10,498	7,353 2,005 2,218	11,874 4,656 5,538	24,552 8,389 9,580
Musical instruments, pianos and organs and materials.	1919 1914 1909	40 52 59	3,950 3,906 4,245	4,462 5,105 4,454	4,392 2,510 2,068	5,808 3,702 4,140	13,342 8,213 9,106	Wirework, not elsewhere specified.	1919 1914 1909	27 30 31	1,470 1,950 1,578	1,699 2,648 1,468	1,390 1,079 809	1,705 2,331 1,499	4,519 4,878 3,232
Needles, pins, and hooks and eyes.	1919 1914	7 4	1,375 535	980 390	1,337 268	1,199 190	4,194 577	Wool scouring.....	1919 1914 1909	13 10 8	1,012 577 493	4,628 4,479 3,645	1,498 334 229	1,050 727 169	3,669 1,407 631
Oil, not elsewhere specified..	1919 1914 1909	15 16 17	146 303 293	312 885 017	150 197 174	3,505 2,230 2,273	4,304 2,975 2,864	Wool shoddy.....	1919 1914 1909	23 17 27	623 446 442	4,419 3,103 4,688	685 1,267 202	3,700 1,267 1,193	5,515 1,993 1,766
Optical goods.....	1919 1914 1909	29 13 11	4,082 2,356 2,460	4,887 3,048 2,230	3,437 1,390 1,103	3,400 1,196 1,163	12,038 3,993 8,058	Woolen, worsted, and felt goods. ⁷	1919 1914 1909	107 171 183	54,950 54,255 53,873	183,973 143,461 117,119	57,904 27,363 24,593	219,350 88,077 87,076	352,913 130,349 141,067
Paint and varnish.....	1919 1914 1909	33 34 41	591 490 428	1,644 1,411 1,819	592 302 251	5,673 2,622 2,076	9,807 4,876 3,469	All other industries.....	1919 1914 1909	1,466 1,618 1,827	64,825 42,932 46,593	139,890 105,774 82,224	50,739 25,483 23,728	195,516 86,772 83,865	356,435 144,639 144,636
Paper and wood pulp.....	1919 1914 1909	78 86 88	12,960 13,401 12,848	145,323 133,860 115,792	14,042 7,540 6,542	53,764 26,611 22,350	87,100 43,353 40,097								

¹ Includes "pocketbooks"; "saddlery and harness"; and "trunks and valises."
² 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."
³ Includes "envelopes."
⁴ Includes "perfumery and cosmetics."
⁵ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
⁶ Includes "sausage, not made in slaughtering and meat-packing establishments."
⁷ Includes "hats, wool-felt," in 1909.

MANUFACTURES—MASSACHUSETTS.

TABLE 39.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
BOSTON.....	1919	3,077	88,750	101,604	96,401	349,606	618,922	BOSTON—Con.							
All industries.	1914	3,138	78,804	85,807	49,444	150,568	284,802	Foundry and machine-shop products. ¹	1919	230	11,469	14,520	15,435	15,254	48,653
	1909	3,195	73,957	77,275	42,386	127,928	244,793		1914	225	8,041	10,413	6,742	6,628	18,290
Automobile bodies and parts	1919	22	257	265	326	323	918		1909	211	6,323	6,886	4,190	5,100	13,474
	1914	10	193	147	147	140	449	Fur goods.....	1919	18	282	55	384	1,287	2,368
Awnings, tents, and sails....	1919	21	168	55	156	504	877		1914	17	208	49	146	476	862
	1914	19	173	48	108	279	517	Furnishing goods, men's, neckwear.	1919	11	207	17	159	1,907	2,450
	1909	19	204	32	110	231	468		1914	7	237	51	118	608	1,040
Belting, leather.....	1919	3	39	55	45	1,129	1,455	Furniture and refrigerators..	1919	67	1,088	1,165	1,391	2,750	5,030
	1914	4	52	53	62	904	908		1914	53	872	792	634	1,128	2,551
	1909	5	46	43	35	513	698		1909	64	943	822	617	1,159	2,654
Blacking and cleansing and polishing preparations.	1919	28	145	283	138	1,023	2,075	Hats and caps, other than felt, straw, and wool.	1919	31	352	59	484	1,301	2,241
	1914	27	141	178	79	537	1,127		1914	28	278	47	464	396	710
	1909	23	125	114	67	417	820	House-furnishing goods, not elsewhere specified.	1919	30	553	144	390	3,164	4,685
Boots and shoes, including cut stock and findings.	1919	57	7,531	5,082	7,032	48,772	66,427		1914	8	85	20	45	108	217
	1914	51	7,421	4,158	4,029	19,479	27,163		1909	6	36	6	19	77	111
	1909	43	6,116	2,062	3,046	19,835	26,147	Instruments, professional and scientific.	1919	12	441	293	497	492	1,506
Boxes, set-up paper boxes and cartons.	1919	21	971	474	685	944	2,314		1914	12	484	589	332	378	891
	1914	19	725	308	308	364	832		1909	15	344	221	235	225	781
	1909	21	964	414	362	558	1,213	Jewelry.....	1919	32	198	103	298	731	1,003
Brass, bronze, and copper products.	1919	24	218	244	304	725	1,410		1914	39	250	112	186	396	806
	1914	27	185	266	141	233	500		1909	32	303	82	189	248	710
	1909	33	333	244	224	363	806	Knit goods.....	1919	11	864	374	683	2,541	4,295
Bread and other bakery prod- ucts.	1919	306	2,798	2,413	2,987	12,897	21,681		1914	10	770	291	310	1,005	1,556
	1914	312	2,701	2,235	1,547	5,830	11,413	Leather goods ⁵	1919	34	375	121	384	1,346	2,286
	1909	285	1,999	6,603	1,068	4,825	8,109		1914	40	352	132	224	691	1,245
Canning and preserving ¹	1919	19	519	857	446	3,861	6,034		1909	45	558	152	280	797	1,494
	1914	23	444	594	233	1,088	2,633	Liquors, malt.....	1919	10	802	3,735	1,221	2,104	8,956
	1909	21	323	577	140	1,383	1,951		1914	13	1,225	5,951	1,149	2,594	8,838
Carriages and wagons and materials.	1919	28	181	156	213	184	544		1909	20	1,126	4,709	1,019	1,857	7,554
	1914	31	339	375	247	288	994	Lumber and timber products ⁶	1919	44	689	3,181	864	2,045	3,765
	1909	26	298	450	204	222	582		1914	56	859	2,970	641	1,680	2,903
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	6	1,800	700	2,601	1,943	4,728		1909	67	1,034	3,205	727	1,538	3,027
	1914	5	3,028	2,944	2,401	2,410	5,024	Marble and stone work.....	1919	17	177	749	282	375	771
	1909	6	1,172	291	768	652	1,596		1914	24	455	1,166	366	436	1,037
Clothing, men's, including shirts.	1919	168	4,060	1,104	5,606	17,938	32,404		1909	31	581	1,146	469	453	1,152
	1914	181	4,768	1,043	2,633	7,687	14,080	Mattresses and spring beds, not elsewhere specified.	1919	22	381	616	455	1,778	2,973
	1909	196	4,479	1,086	2,286	7,756	14,535		1914	21	531	598	263	1,115	1,857
Clothing, women's.....	1919	173	3,882	1,010	3,965	12,105	20,656		1909	28	406	383	248	1,048	1,770
	1914	139	3,964	686	2,144	5,126	9,609	Millinery and lace goods, not elsewhere specified.	1919	51	896	190	796	1,948	3,763
	1909	122	3,540	491	1,649	4,306	7,842		1914	59	1,415	283	601	2,014	3,564
Coffee and spice, roasting and grinding.	1919	14	481	1,132	449	13,418	16,239		1909	65	1,454	311	580	1,931	3,425
	1914	17	446	1,114	252	6,124	8,463	Mineral and soda waters.....	1919	29	198	319	243	1,086	2,492
	1909	11	248	786	188	3,651	5,308		1914	26	137	228	103	539	1,204
Confectionery and ice cream.	1919	68	8,258	6,485	5,792	26,418	46,097		1909	25	160	199	112	415	966
	1914	72	5,114	4,273	2,042	9,108	15,246	Musical instruments and materials, not elsewhere specified.	1919	14	187	104	192	207	607
Copper, tin, and sheet-iron products. ³	1919	61	1,457	1,428	1,674	3,040	8,177		1914	15	245	106	184	137	333
	1914	75	1,397	940	904	2,106	4,144	Musical instruments, pianos and organs and materials.	1919	10	1,231	1,531	1,547	2,111	4,863
	1909	85	1,702	845	990	1,870	3,925		1914	15	1,299	1,312	908	1,581	3,276
Cotton goods.....	1919	9	874	2,968	715	2,527	4,408	Paint and varnish.....	1919	10	135	388	151	1,096	2,144
	1914	5	747	2,408	318	694	1,228		1914	11	119	234	79	637	1,055
Dyestuffs and extracts— natural.	1919	11	57	276	75	814	1,323		1909	12	142	484	80	617	1,065
	1914	10	61	183	45	516	717	Paper goods, not elsewhere specified.	1919	6	161	412	139	626	898
	1909	6	27	119	16	161	243		1914	12	342	223	144	337	659
Electrical machinery, appa- ratus, and supplies.	1919	32	2,525	1,936	2,460	4,344	10,671	Patent medicines and com- pounds and druggists' preparations. ⁷	1919	68	1,676	743	1,290	5,700	12,222
	1914	30	1,481	1,829	914	1,414	3,635		1914	68	768	431	380	2,120	4,623
	1909	27	1,380	1,502	700	1,003	3,028		1909	69	614	280	282	1,538	3,966
Fancy articles, not elsewhere specified.	1919	15	160	43	135	356	871	Photo-engraving.....	1919	16	357	132	503	189	1,207
	1914	7	52	37	29	52	114		1914	19	432	269	399	145	1,002
Flavoring extracts.....	1919	13	67	43	65	636	1,209	Printing and publishing ⁸	1919	539	8,214	9,149	10,240	20,772	62,523
	1914	9	52	42	28	311	641		1914	667	7,972	9,124	6,375	9,781	33,249
	1909	16	55	19	27	250	572		1909	564	8,257	9,248	6,033	6,962	28,621
Food preparations, not else- where specified.	1919	29	502	1,100	460	3,372	5,667								
	1914	21	257	555	160	1,058	2,500								
	1909	14	219	332	129	686	1,540								

¹ Includes "canning and preserving, fish"; and "pickles, preserves, and sauces."² Excludes statistics for 2 establishments manufacturing carriage and wagon materials, to avoid disclosure of individual operations.³ Includes "tinware, not elsewhere specified."⁴ Includes "automobile repairing"; "gas machines and gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "plumb-
ers' supplies, not elsewhere specified"; "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"; "hardware, saddlery"; and "pumps, steam," in 1914 and 1909.⁵ Includes "pocketbooks"; and "trunks and valises" in all years; and "saddlery and harness" in 1914 and 1909.⁶ Includes "boxes," wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with saw mills"; and "window
and door screens and weather strips."⁷ Includes "perfumery and cosmetics."⁸ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

MANUFACTURES—MASSACHUSETTS.

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TABLE 39.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of materi- als.	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—Continued.															
BOSTON—Con.								CAMBRIDGE—Con.							
Rubber tires, tubes, and rub- ber goods, not elsewhere specified.	1919	8	401	703	351	742	1,545	Bread and other bakery products.	1919	42	1,245	1,030	1,215	5,279	9,004
	1914	7	276	1,092	151	810	680		1914	40	901	1,171	512	2,071	3,954
	1909	7	149	200	175	274	605		1909	40	801	802	440	1,061	2,962
Screws, machine.	1919	7	102	211	71	90	231	Confectionery and ice cream.	1919	20	1,952	1,097	1,425	6,698	11,460
	1914	7	102	211	71	90	231		1914	21	1,241	1,183	500	2,503	3,808
Signs and advertising novel- ties.	1919	10	230	96	239	255	745	Copper, tin, and sheet-iron products. ³	1919	12	478	583	571	1,025	2,254
	1914	12	270	136	143	171	465		1914	7	183	203	113	297	588
Slaughtering and meat pack- ing. ¹	1919	22	296	758	409	7,091	9,168		1909	6	200	100	104	274	530
	1914	26	320	625	232	5,211	6,390	Foundry and machine-shop products. ⁴	1919	44	3,238	4,890	4,100	6,362	15,045
	1909	24	273	313	172	3,514	4,000		1914	34	1,780	3,386	1,202	1,885	5,332
Soap.	1919	8	44	177	52	573	1,061		1909	25	2,200	3,170	1,430	1,761	4,789
	1914	11	54	95	33	314	441	Furniture.	1919	11	728	809	938	769	2,179
	1909	13	65	80	30	286	455		1914	12	636	556	405	368	1,284
Stationery goods, not else- where specified.	1919	4	180	96	138	637	1,361		1909	13	780	1,262	603	417	1,392
	1914	5	237	105	123	389	606	Instruments, professional and scientific.	1919	3	42	31	38	91	158
	1909	3	86	17	40	91	238		1914	3	31	24	24	43	100
Suspenders, garters, and elastic woven goods.	1919	9	740	203	513	2,190	3,040	Lumber and timber prod- ucts. ⁵	1919	6	203	683	245	320	785
	1914	10	855	245	361	1,285	2,322		1914	12	358	1,350	282	601	1,112
Tobacco manufactures.	1919	97	2,052	111	2,444	3,481	8,437		1909	11	345	1,261	232	409	875
	1914	101	2,094	120	2,316	2,738	6,684	Marble and stone work.	1919	8	87	505	132	135	364
	1909	145	2,318	70	1,780	2,046	5,506		1914	10	173	607	140	118	380
Tools, not elsewhere specified	1919	10	539	1,007	631	600	2,181		1909	12	302	887	242	183	605
	1914	12	321	494	201	458	781	Printing and publishing. ⁶	1919	47	2,101	1,979	2,258	3,717	10,010
	1909	11	235	601	138	384	708		1914	45	2,150	1,804	1,477	4,020	10,010
All other industries.	1919	460	15,505	31,804	16,522	104,420	150,813		1909	41	1,093	1,442	1,185	1,280	3,368
	1914	508	12,040	22,954	7,553	38,537	62,688	All other industries.	1919	134	11,844	15,768	11,474	44,110	75,009
	1909	768	23,140	33,675	11,924	46,809	79,781		1914	127	8,786	16,782	5,254	21,768	36,307
									1909	123	8,287	12,272	4,024	17,177	29,426
BROCKTON.								FALL RIVER.							
All industries.	1919	217	18,059	13,205	20,806	74,713	117,855	All industries.	1919	203	37,015	145,646	36,514	96,180	163,246
	1914	243	16,246	10,477	10,557	31,664	51,259		1914	315	36,834	130,582	16,131	37,161	64,063
	1909	196	14,737	9,773	6,122	28,565	46,972		1909	288	37,139	122,061	15,339	35,524	64,146
Blanking, stains, and dress- ings.	1919	13	43	57	52	447	838	Bread and other bakery products.	1919	08	254	195	283	1,202	1,875
	1914	16	43	32	31	194	430		1914	88	197	86	127	610	1,017
	1909	12	31	45	23	106	328		1909	74	217	10	127	479	796
Boots and shoes, including cut stock and findings.	1919	92	15,089	8,495	17,611	67,040	101,598	Confectionery and ice cream.	1919	8	28	67	37	168	271
	1914	84	13,705	7,106	8,978	28,455	44,122		1914	12	23	25	13	74	124
	1909	75	12,503	6,802	7,751	25,384	39,293	Copper, tin, and sheet-iron work.	1919	10	27	11	38	36	95
Boxes, set-up paper boxes and cartons.	1919	4	182	50	142	239	537		1914	8	36	.....	24	22	75
	1914	5	174	141	77	114	233	Cotton goods, including cot- ton small wares.	1919	54	32,288	135,872	26,319	81,588	137,731
	1909	5	214	148	89	140	329		1914	51	30,758	124,347	13,180	29,659	49,095
Bread and other bakery products.	1919	10	84	119	108	507	810		1909	45	30,407	110,975	12,106	27,503	48,570
	1914	21	252	248	134	530	1,070	Foundry and machine-shop products. ⁷	1919	31	925	1,377	906	1,833	3,907
	1909	11	223	198	126	463	892		1914	27	570	627	342	453	1,064
Cutlery and edge tools.	1919	7	60	90	91	69	281		1909	33	759	629	373	605	1,342
	1914	9	72	83	62	32	135	Lumber and timber prod- ucts. ⁸	1919	4	47	427	55	160	271
	1909	8	102	90	85	47	204		1914	6	80	486	52	98	192
Foundry and machine-shop products. ⁹	1919	9	276	255	320	254	929		1909	8	68	648	38	206	318
	1914	15	243	230	178	127	431	Marble and stone work.	1919	10	50	220	61	34	124
	1909	9	162	278	119	116	391		1914	10	45	374	32	27	76
Lasts.	1919	6	365	631	470	498	1,887		1909	12	103	649	81	24	158
	1914	7	241	600	181	215	584	Printing and publishing.	1919	22	196	149	101	166	570
	1909	6	170	313	124	183	539		1914	22	195	195	153	96	390
Models and patterns, not in- cluding paper patterns.	1919	5	58	27	70	31	214		1909	21	190	171	142	95	365
	1914	4	38	18	23	11	70	Sausage, not made in slaugh- tering and meat-packing establishments.	1919	7	27	47	30	208	338
All other industries.	1919	71	1,896	3,475	2,023	5,028	10,791		1914	8	21	27	16	145	210
	1914	82	1,418	2,019	893	1,977	4,178		1909	7	13	10	6	76	97
	1909	70	1,332	1,899	805	2,076	3,990	All other industries.	1919	79	3,173	7,281	2,594	10,725	18,064
CAMBRIDGE.									1914	83	4,909	13,415	2,183	5,977	11,514
All industries.	1919	330	22,550	28,421	22,842	60,127	127,865		1909	88	5,382	9,060	2,466	6,476	12,494
	1914	316	16,749	26,227	10,217	31,635	57,484	HAVERHILL. ⁹							
	1909	275	15,200	21,372	8,365	23,566	44,227	All industries.	1919	405	15,783	12,747	18,352	57,218	96,277
Boxes, set-up paper boxes.	1919	6	632	236	446	621	1,447		1914	398	13,281	10,839	8,614	26,512	42,400
	1914	5	495	152	209	249	599		1909	346	11,689	7,930	6,658	21,686	35,377
	1909	4	292	110	105	104	280								

¹Includes "sausage, not made in slaughtering and meat-packing establishments."²Includes "automobile repairing" in 1914.³Includes "stamped ware, not elsewhere specified" in all years; and "tinware, not elsewhere specified," in 1919.⁴Includes "automobile repairing"; "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."⁵Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."⁶Includes "bookbinding and blank-book making."⁷Includes "iron and steel, welding," and "textile machinery and parts."⁸Includes "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "boxes, wooden packing, except cigar boxes," in 1914 and 1909.⁹Comparative statistics by industries for 1914 and 1909 not available.

MANUFACTURES—MASSACHUSETTS.

TABLE 39.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of materi- als.	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--Continued.															
HOLYOKE.....	1919	176	17,773	76,893	17,318	51,160	93,427	LOWELL.....	1919	291	30,111	85,556	29,865	76,993	137,802
All industries.	1914	222	17,493	74,369	8,994	25,352	44,041	All industries.	1914	300	29,904	83,817	14,002	83,104	56,049
	1909	187	16,513	60,269	8,076	22,301	40,097		1909	319	32,333	71,562	14,022	82,455	59,688
Bread and other bakery products.	1919	26	120	145	139	587	951	Belted, leather.....	1919	3	17	9	21	114	165
	1914	33	124	40	83	313	561		1914	3	10	8	11	57	78
	1909	27	108	24	76	275	464	Boots and shoes, not includ- ing rubber boots and shoes.	1919	5	674	476	585	1,753	3,138
Copper, tin, and sheet-iron work.	1919	3	75	133	94	189	368		1914	9	1,485	800	684	2,355	3,549
	1914	4	107	23	59	131	249		1909	7	1,259	618	502	1,682	2,650
Foundry and machine-shop products. ¹	1919	26	1,354	3,525	1,604	2,685	5,524	Bread and other bakery products.	1919	57	218	169	240	1,132	1,724
	1914	24	905	2,864	594	890	2,197		1914	57	221	92	146	415	734
	1909	17	1,002	1,455	621	843	2,095		1909	46	166	58	103	482	750
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919	3	162	431	188	902	1,350	Confectionery and ice cream.	1919	10	28	142	37	185	297
	1914	4	182	360	137	366	641		1914	7	8	18	5	34	57
	1909	4	131	410	71	177	362	Copper, tin, and sheet-iron work.	1919	6	39	5	48	56	108
Paper and wood pulp.....	1919	20	3,628	37,776	4,044	13,012	21,376		1914	6	30	5	19	21	59
	1914	21	4,684	42,582	2,487	8,272	13,179	Cotton goods, including cot- ton small wares.	1919	13	12,555	54,348	11,707	36,216	60,831
	1909	23	4,480	39,069	2,211	7,244	12,305		1914	12	13,142	53,133	5,788	14,533	23,178
Paper goods, not elsewhere specified.	1919	5	508	1,407	507	2,250	3,645		1909	11	13,833	41,955	5,053	18,943	24,744
	1914	5	496	1,033	282	1,253	1,932	Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	5	947	3,020	998	3,023	5,370
	1909	4	417	740	204	947	1,424		1914	3	705	1,227	390	855	1,440
Printing and publishing ²	1919	22	945	690	856	1,406	3,453	Foundry and machine-shop products. ⁷	1919	34	2,762	3,640	3,256	4,245	9,872
	1914	31	793	368	479	473	1,697		1914	26	1,841	2,605	1,122	1,233	2,788
	1909	27	736	371	371	633	1,450		1909	35	2,599	2,706	1,418	1,822	4,333
Sausage, not made in slaugh- tering and meat-packing establishments.	1919	4	11	27	12	98	127	Lumber and timber prod- ucts. ⁸	1919	13	382	1,656	377	1,503	2,377
Stationery goods, not else- where specified.	1914	7	9	26	7	49	74		1914	14	343	1,836	196	776	1,122
	1909	7	655	582	334	924	1,891		1909	17	410	1,637	211	734	1,066
Tobacco manufactures.....	1919	8	1,011	519	784	2,199	4,491	Patent medicines and com- pounds. ⁹	1919	5	145	621	127	603	1,513
	1914	7	706	366	297	1,094	1,930		1914	8	160	533	92	321	765
	1909	7	34	1	36	50	124		1909	7	183	496	95	340	1,130
All other industries.....	1919	52	9,925	32,239	9,054	27,782	52,018	Printing and publishing ¹⁰ ...	1919	22	196	313	269	320	1,034
	1914	73	9,474	26,488	4,490	12,646	21,502		1914	24	265	595	191	298	768
	1909	61	8,860	17,834	4,181	11,050	19,939		1909	26	250	349	178	269	796
LAWRENCE.....	1919	194	30,319	124,155	32,362	110,959	183,449	Woolen and worsted goods..	1919	13	1,925	4,845	1,898	5,674	9,798
All industries.	1914	221	31,043	93,572	15,778	45,152	73,178		1914	9	1,916	4,202	931	2,436	3,924
	1909	162	30,542	73,066	13,787	45,438	79,993		1909	11	2,807	5,807	1,210	3,672	5,522
Bread and other bakery products.	1919	48	158	198	200	890	1,409	All other industries.....	1919	105	10,223	16,312	10,302	22,269	41,515
	1914	59	171	183	108	476	800		1914	122	9,778	18,603	4,427	9,920	17,556
	1909	26	143	129	89	307	572		1909	150	10,826	17,936	4,692	9,472	18,697
Cotton goods.....	1919	6	3,601	25,811	3,479	12,806	20,937	LYNN.....	1919	442	27,355	20,132	32,992	85,009	160,906
	1914	4	4,189	16,567	1,833	4,656	7,143	All industries.	1914	429	25,339	22,747	15,593	38,095	69,783
	1909	6	4,914	16,172	2,030	3,918	6,826		1909	431	27,398	17,089	15,606	41,361	71,503
Foundry and machine-shop products. ³	1919	25	1,007	1,848	1,177	1,818	4,295	Blacking, stains, and dress- ings.	1919	11	77	38	94	508	943
	1914	21	730	1,508	459	981	1,443		1914	10	62	78	43	295	525
	1909	27	1,012	1,235	578	727	1,720		1909	14	44	76	31	271	537
Lumber and timber prod- ucts. ⁴	1919	3	160	418	177	646	1,081	Boots and shoes, including cut stock and findings.	1919	201	13,881	4,621	16,736	60,992	96,668
	1914	5	410	1,130	222	808	1,139		1914	194	13,779	4,161	8,792	28,006	43,891
	1909	5	402	1,170	230	1,037	1,390		1909	207	16,349	5,488	9,532	29,148	46,660
Printing and publishing ⁵	1919	19	188	178	173	142	504	Boxes, set-up paper boxes...	1919	4	114	46	89	215	505
	1914	21	121	196	94	32	285		1914	5	363	507	177	411	735
	1909	18	128	166	89	66	254		1909	6	348	205	169	404	730
Sausage, not made in slaugh- tering and meat-packing establishments.	1919	6	13	63	13	121	168	Bread and other bakery products.	1919	43	176	139	199	1,074	1,632
	1914	11	26	103	17	92	135		1914	39	206	99	154	446	784
Woolen and worsted goods..	1919	11	19,101	78,021	20,027	79,361	125,761		1909	37	165	42	111	443	681
	1914	11	20,565	61,810	10,457	32,597	51,684	Confectionery and ice cream..	1919	7	38	99	39	131	251
	1909	15	20,208	44,638	8,890	33,657	58,536		1914	4	17	73	10	54	83
All other industries.....	1919	76	6,142	17,613	7,116	15,180	29,294	Foundry and machine-shop products. ¹¹	1919	23	375	385	441	448	1,288
	1914	89	4,831	12,075	2,588	5,750	10,649		1914	28	319	275	238	153	564
	1909	65	3,742	9,553	1,872	5,600	10,695		1909	26	411	370	254	178	600

¹ Includes "automobile repairing"; "iron and steel, welding"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus" in all years; and "structural ironwork, not made in steel works or rolling mills," in 1914 and 1909.

² Includes "bookbinding and blank-book making" in all years; and "engraving, steel and copper plate, including plate printing"; and "lithographing" in 1914 and 1909.

³ Includes "iron and steel, welding"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "textile machinery and parts" in all years; "automobile repairing" in 1919; and "structural ironwork, not made in steel works or rolling mills," in 1914 and 1909.

⁴ Includes "boxes, wooden packing, except cigar boxes"; and "lumber, planing-mill products, not including planing mills connected with sawmills."

⁵ Includes "bookbinding and blank-book making" in 1914.

⁶ Excludes statistics for 1 establishment manufacturing woolen goods, to avoid disclosure of individual operations.

⁷ Includes "iron and steel, welding," and "textile machinery and parts" in all years; and "automobile repairing" and "structural ironwork, not made in steel works or rolling mills," in 1919.

⁸ Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills."

⁹ Includes "perfumery and cosmetics" in 1914.

¹⁰ Includes "bookbinding and blank-book making" in all years; and "engraving, steel and copper plate, including plate printing," in 1919.

¹¹ Includes "automobile repairing" in all years; and "engines, steam, gas, and water," and "hardware" in 1914 and 1909.

MANUFACTURES—MASSACHUSETTS.

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TABLE 39.—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).	Pri- mary 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).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	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—Continued.															
LYNN—Con.								SOMERVILLE—Con.							
Leads.....	1919	8	347	619	400	441	1,479	Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919	3	35	238	46	49	146
	1914	8	234	447	153	105	389		1914	5	59	250	40	83	168
	1909	5	81	187	61	75	266	Printing and publishing.....	1919	16	35	40	38	41	144
Leather, tanned, curried, and finished.	1919	11	1,041	2,301	1,270	10,002	15,824		1914	17	44	37	30	22	114
	1914	9	633	1,450	317	3,020	3,840		1909	14	43	32	24	17	77
	1909	8	1,062	1,185	457	4,009	5,094	Slaughtering and meat pack- ing. ¹	1919	5	3,290	6,011	4,113	78,618	84,740
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919	5	21	158	35	54	124		1914	6	2,309	4,198	1,420	32,424	36,335
	1914	5	87	285	61	134	277		1909	7	2,292	3,308	1,236	27,866	31,270
	1909	6	129	363	82	188	330	All other industries.....	1919	73	2,315	8,660	2,337	6,801	11,860
Mineral and carbonated waters.	1919	4	23	36	22	94	179		1914	67	2,689	4,930	1,025	3,314	6,165
	1914	4	21	17	16	25	67		1909	59	2,731	4,213	1,466	3,076	6,714
Models and patterns, not including paper patterns.	1919	12	43	46	67	27	196	SPRINGFIELD—Con.							
	1914	10	41	30	33	14	94	All industries.	1919	401	18,429	31,624	19,796	47,803	98,333
Printing, job.....	1919	20	138	152	127	177	501		1914	395	14,240	24,418	9,350	21,015	44,429
	1914	21	145	135	83	124	345		1909	346	11,855	17,744	6,807	14,363	31,773
	1909	21	146	104	81	118	290	Automobile bodies and parts.	1919	6	434	127	556	345	1,760
All other industries.....	1919	93	11,081	20,492	13,473	10,186	41,316		1914	6	173	107	147	149	385
	1914	92	9,442	15,190	5,516	5,908	18,150	Brass and bronze products...	1919	5	694	2,260	906	1,293	3,468
	1909	101	8,633	9,000	4,888	6,527	16,109		1914	6	176	145	117	279	480
NEW BEDFORD—Con.									1909	7	164	129	104	246	431
All industries.	1919	267	41,630	150,248	40,012	122,571	210,773	Bread and other bakery products.	1919	58	441	772	481	2,898	4,347
	1914	233	33,343	112,151	16,558	37,574	65,575		1914	40	286	356	191	756	1,414
	1909	207	26,566	76,147	12,598	28,564	53,238		1909	27	127	52	83	356	611
Bread and other bakery products.	1919	55	417	257	431	1,449	2,409	Confectionery and ice cream..	1919	12	369	501	257	1,066	2,648
	1914	58	349	247	186	741	1,219		1914	10	346	378	160	733	1,229
	1909	44	289	90	100	548	1,023	Copper, tin, and sheet-iron work.	1919	13	50	18	57	103	224
Confectionery and ice cream..	1919	9	56	200	49	309	445		1914	9	57	10	46	49	132
	1914	6	22	53	16	137	195	Electrical machinery, appa- ratus, and supplies.	1919	10	1,438	1,219	1,674	2,391	7,277
Cotton goods.....	1919	31	35,206	134,086	33,180	104,654	177,059		1914	7	545	869	533	3,118	4,015
	1914	29	28,719	102,918	13,716	30,318	51,796		1909	5	154	198	82	63	191
	1909	22	22,141	68,155	10,115	23,290	42,505	Fancy articles, not elsewhere specified.	1919	3	48	1	29	37	107
Foundry and machine-shop products. ¹	1919	30	496	605	542	655	1,707		1914	4	74	3	29	43	114
	1914	18	302	591	100	220	522	Foundry and machine-shop products. ²	1919	52	2,033	3,173	2,778	2,574	9,419
	1909	16	270	1,019	176	192	464		1914	50	1,485	3,150	1,055	1,099	3,404
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919	6	65	666	66	185	296		1909	39	1,554	3,488	973	1,027	3,066
	1914	6	72	375	49	135	212	Mattresses and spring beds, not elsewhere specified.	1919	3	22	43	20	75	120
	1909	8	171	759	93	232	412		1914	6	66	234	34	102	177
Marble and stone work.....	1919	6	26	88	29	18	90	Mineral and carbonated waters.	1919	6	35	67	31	106	185
	1914	11	23	55	27	13	59		1914	8	18	17	13	27	67
Mineral and carbonated waters.	1919	7	41	25	42	229	385		1909	6	12	12	7	19	51
	1914	8	28	44	16	42	86	Models and patterns, not in- cluding paper patterns.	1919	6	46	71	67	16	124
	1909	3	20	12	14	29	53		1914	5	28	31	26	4	50
Printing and publishing ²	1919	25	216	501	227	288	806	Paper goods, not elsewhere specified.	1919	5	62	403	71	435	761
	1914	20	273	511	194	152	537		1914	6	395	503	200	612	1,061
	1909	17	205	199	171	129	483	Printing and publishing ⁶	1919	53	792	1,656	879	1,533	4,666
Sausage, not made in slaugh- tering and meat-packing establishments.	1919	7	31	107	39	474	573		1914	59	1,166	1,754	816	1,037	3,757
	1914	6	33	76	21	256	311		1909	51	1,025	1,632	666	1,006	3,901
All other industries.....	1919	82	5,076	13,653	5,401	14,310	26,943	Tobacco, cigars.....	1919	14	368	38	409	543	1,250
	1914	71	3,522	7,281	2,143	5,561	10,688		1914	26	487	11	346	414	920
	1909	97	3,404	6,904	1,869	4,144	8,308		1909	20	408	6	277	256	720
SOMERVILLE—Con.								Tools, not elsewhere specified	1919	8	363	608	368	249	928
All industries.	1919	140	6,111	15,293	7,022	87,097	99,559		1914	5	339	768	228	127	784
	1914	144	5,429	9,707	3,340	30,467	43,971	All other industries.....	1919	147	11,234	20,667	11,213	33,539	61,049
	1909	114	5,280	7,680	2,870	31,923	38,687		1914	142	8,599	16,082	5,409	13,360	26,440
Bread and other bakery products.	1919	20	279	136	287	1,015	1,653		1909	173	8,068	11,556	4,469	11,206	22,233
	1914	31	172	128	120	385	668								
	1909	28	120	55	68	269	429								
Confectionery and ice cream..	1919	7	53	71	79	341	493								
	1914	8	77	69	47	181	311								
Foundry and machine-shop products. ³	1919	7	104	137	122	232	523								
	1914	10	70	86	52	88	210								
	1909	6	94	72	46	95	197								

¹Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "steam fittings and steam and hot-water heating apparatus"; and "textile machinery and parts."

²Includes "bookbinding and blank-book making" in 1914 and 1909.

³Includes "automobile repairing"; "hardware"; and "textile machinery and parts" in all years; and "steam fittings and steam and hot-water heating apparatus" in 1919.

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

⁵Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "hardware" in 1914 and 1909.

⁶Includes "bookbinding and blank-book making" in all years; "lithographing" in 1914 and 1909; and "engraving, steel and copper plate, including plate printing," in 1914.

MANUFACTURES—MASSACHUSETTS.

TABLE 39.—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).	Pri- mary horse- power.	Expressed in thousands of dollars.			INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Expressed in thousands of dollars.		
					Wages.	Cost of materi- als.	Value of prod- ucts.						Wages.	Cost of materi- als.	Value of prod- ucts.
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
WORCESTER..... All industries.	1919 1914 1909	618 606 580	38,673 29,452 28,221	94,712 71,984 53,405	44,440 17,633 15,295	106,181 45,704 42,601	208,706 82,829 77,148	WORCESTER—Con. Envelopes.....	1919 1914 1909	7 6 89	1,267 1,182 8,399	807 773 15,589	1,117 520 10,556	3,772 1,603 14,156	6,469 2,893 37,709
Boots and shoes, including cut stock and findings.	1919 1914 1909	14 12 11	1,361 907 829	619 444 399	1,210 528 469	4,662 1,909 1,466	7,827 2,773 2,414	Foundry and machine-shop products. ³	1919 1914 1909	101 89 89	8,399 6,038 6,503	15,589 10,916 6,891	10,556 4,020 3,841	14,156 4,543 4,783	37,709 12,226 13,219
Brass and bronze products...	1919 1914	4 4	23 16	25 16	38 13	121 36	192 57	Furniture.....	1919 1914	4 3	36 63	70 60	40 45	75 32	140 104
Bread and other bakery products.	1919 1914 1909	51 71 67	368 397 413	388 330 160	386 232 207	1,920 1,508 877	2,866 1,503 1,472	Lumber and timber prod- ucts. ⁴	1919 1914 1909	12 13 12	331 541 320	1,342 1,702 1,154	388 382 195	753 699 476	1,509 1,234 814
Carriages and wagons, in- cluding repairs.	1919 1914 1909	3 10 12	35 78 71	66 128 63	46 58 51	85 57 62	171 170 160	Marble and stone work.....	1919 1914 1909	8 7 10	17 140 227	54 836 802	23 106 218	41 59 93	120 262 383
Clothing, men's.....	1919 1914 1909	13 13 16	174 240 288	92 70 56	188 110 111	717 405 362	1,238 668 556	Mineral and carbonated waters.	1919 1914 1909	7 7 7	22 39 53	93 58 49	27 31 22	48 62 35	117 141 83
Clothing, women's.....	1919 1914 1909	21 19 18	545 834 1,050	224 224 219	392 315 371	1,694 1,652 1,081	2,702 1,652 1,942	Models and patterns, not in- cluding paper patterns.	1919 1914	7 4	43 24	65 41	70 19	20 7	134 38
Confectionery and ice cream.	1919 1914	12 13	59 46	132 42	67 33	444 124	695 239	Musical instruments, piano and organ materials.	1919 1914	5 4	712 351	535 688	786 214	1,014 246	2,260 566
Copper, tin, and sheet-iron products. ²	1919 1914 1909	17 17 10	441 518 195	583 1,317 247	531 318 173	702 472 166	1,757 1,191 411	Printing and publishing ⁵	1919 1914 1909	59 59 53	790 690 585	687 939 384	852 451 392	942 448 371	3,328 1,629 1,233
Corsets.....	1919 1914	7 7	1,228 1,711	624 626	843 641	2,388 1,394	5,235 3,434	Sausage, not made in slaugh- tering and meat-packing establishments.	1919 1914	4 4	26 39	81 77	31 20	371 226	458 277
Cotton goods.....	1919 1914 1909	5 4 4	486 171 254	1,200 283 425	434 99 98	3,319 465 680	5,864 706 883	Tobacco, cigars.....	1919 1914 1909	9 18 20	66 83 65	6 5 2	71 51 37	104 72 42	225 163 117
Cutlery and tools, not else- where specified.	1919 1914 1909	23 12 11	1,030 337 409	1,728 1,100 1,104	1,109 276 241	1,409 198 214	4,153 657 560	Wirework, not elsewhere specified.	1919 1914	6 9	552 1,006	468 1,280	481 554	559 1,237	1,751 2,604
Dyeing and finishing tex- tiles, exclusive of that done in textile mills.	1919 1914 1909	3 4 3	206 250 144	310 685 325	158 127 74	530 460 146	1,016 748 296	Wood, turned and carved....	1919 1914	5 4	53 16	111 60	47 6	32 6	109 18
Electrical machinery, appa- ratus, and supplies.	1919 1914	10 4	685 118	402 49	676 49	1,780 138	3,111 271	Woolen and worsted goods..	1919 1914 1909	13 12 15	1,487 1,583 1,722	3,807 3,529 3,990	1,494 692 689	4,839 2,292 3,200	8,865 3,585 4,400
Electroplating.....	1919 1914	8 5	115 33	214 91	117 18	50 12	305 45	All other industries.....	1919 1914 1909	180 172 222	18,116 11,871 15,083	64,390 45,615 37,075	22,202 7,096 8,166	59,134 23,761 28,537	108,874 42,970 48,136

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

ADAMS.....	1919	32	3,974	14,120	3,524	8,140	15,077	CHICOPEE.....	1919	60	10,068	30,523	12,502	46,458	80,773
	1914	35	3,930	12,673	1,793	3,797	6,530		1914	62	8,420	22,907	5,131	17,118	28,869
	1909	31	3,991	10,173	1,719	3,982	6,410		1909	58	7,260	18,738	3,090	10,962	19,219
AMESBURY.....	1919	44	3,173	4,003	3,847	9,417	16,310	CLINTON.....	1919	33	4,155	13,921	4,088	8,270	15,130
	1914	59	1,451	1,641	1,009	1,805	3,551		1914	36	4,064	9,931	1,884	3,010	6,735
	1909	59	1,451	1,641	1,009	1,805	3,551		1909	39	4,123	10,882	1,872	4,216	7,845
ARLINGTON.....	1919	27	228	849	238	423	1,006	DEDHAM.....	1919	20	463	2,033	419	814	1,738
	1914	19	246	542	185	277	641		1914	15	255	1,090	120	211	428
	1909	19	283	851	177	311	695	EVERETT.....	1919	104	4,523	17,409	4,635	10,069	36,776
ATTLEBORO.....	1919	144	6,763	7,789	7,263	18,570	31,472		1914	85	3,226	10,908	2,047	6,511	13,219
	1914	151	6,058	7,480	3,518	7,379	13,947		1909	62	2,680	7,816	1,508	4,506	8,747
	1909	128	6,429	5,991	3,763	6,813	15,160	FITCHBURG.....	1919	121	9,907	45,988	10,520	36,055	58,165
BEVERLY.....	1919	70	6,495	5,100	8,419	8,738	21,830		1914	137	8,837	38,371	4,815	15,097	23,983
	1914	67	4,641	4,659	3,356	3,166	8,774		1909	123	8,497	28,754	4,231	14,442	25,232
	1909	63	4,487	3,778	2,929	3,201	8,653	FRAMINGHAM.....	1919	59	4,362	6,940	4,138	10,350	18,842
BROOKLINE.....	1919	32	484	203	484	1,042	2,243		1914	49	3,982	6,058	2,257	4,447	8,727
	1914	21	335	323	239	218	659		1909	27	3,069	4,486	1,440	3,411	6,917
	1909	16	340	339	194	196	532	GARDNER.....	1919	73	4,036	6,195	3,930	5,188	13,600
CHELSEA.....	1919	123	6,580	13,797	6,924	16,703	32,537		1914	64	3,964	5,040	2,084	3,079	7,450
	1914	123	6,241	7,031	3,854	9,415	16,971		1909	52	3,617	5,031	1,774	2,833	6,485
	1909	110	5,954	8,339	3,326	10,569	17,002								

¹ Excludes statistics for 2 establishments manufacturing boot and shoe findings, to avoid disclosure of individual operations.² Includes "stamped ware, not elsewhere specified."³ Includes "automobile repairing"; "engines, steam, gas, and water"; "gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; "steam fittings and steam and hot-water heating apparatus" in 1919 and 1909; and "plumbers' supplies, not elsewhere specified," in 1914 and 1909.⁴ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."⁵ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

MANUFACTURES—MASSACHUSETTS.

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TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
					CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED—Continued.										
GLOUCESTER.....	1910	90	2,684	2,943	2,614	12,709	18,804	PLYMOUTH.....	1919	31	2,971	10,872	3,005	21,497	31,320
	1914	87	2,814	2,682	1,337	5,590	8,534		1914	37	2,845	9,229	1,481	10,123	13,905
	1909	102	2,181	2,427	1,042	4,770	7,753		1909	32	2,912	6,239	1,416	8,475	11,618
GREENFIELD.....	1919	53	2,750	4,914	3,110	2,840	9,481	QUINCY.....	1919	162	10,053	19,348	34,830	24,175	68,535
	1914	50	1,602	2,544	877	1,422	3,527		1914	177	5,783	10,153	4,584	5,088	12,097
	1909	47	1,251	2,327	701	1,034	2,801		1909	133	5,402	9,147	3,434	3,844	10,595
LEOMINSTER.....	1919	92	5,793	7,696	5,519	13,844	24,929	REVERE.....	1919	31	126	738	155	440	767
	1914	89	4,929	6,408	2,574	5,410	10,838		1914	27	80	675	69	220	350
	1909	94	5,601	5,890	2,794	5,576	10,531		1909	14	101	548	54	292	407
MALDEN.....	1919	108	4,723	7,425	4,276	9,645	22,078	SALEM.....	1919	153	5,672	13,504	5,904	16,927	30,438
	1914	92	2,850	3,547	1,477	3,249	8,366		1914	178	5,294	11,832	2,803	8,145	13,653
	1909	86	2,900	3,433	1,346	4,388	8,206		1909	155	6,338	11,436	2,893	8,640	14,576
MARLBOROUGH.....	1919	48	3,798	1,767	4,034	13,155	19,045	SOUTHBRIDGE.....	1919	41	5,329	9,132	4,605	7,482	18,253
	1914	43	3,822	2,332	2,119	6,468	9,984		1914	35	4,332	8,995	2,272	3,288	7,366
	1909	50	4,265	2,721	2,224	6,375	10,382		1909	36	4,037	7,636	1,805	3,125	6,290
MEDFORD.....	1919	54	1,031	2,139	981	3,189	5,666	TAUNTON.....	1919	167	8,981	25,340	9,013	27,787	43,331
	1914	54	559	1,495	355	1,855	2,619		1914	115	7,371	20,697	4,135	8,106	15,886
	1909	40	590	1,123	331	1,250	2,045		1909	146	7,407	19,141	3,834	7,775	15,380
MELROSE.....	1919	27	1,606	1,777	1,327	3,077	6,084	WAKEFIELD.....	1919	32	1,869	1,538	1,021	5,582	8,977
	1914	26	962	1,582	484	1,334	2,490		1914	22	2,008	1,831	1,106	3,144	6,058
	1909	25	1,038	1,535	493	1,589	2,825		1909	23	2,230	1,729	1,046	2,836	5,527
METHUEN.....	1919	33	2,571	10,625	2,405	9,074	14,215	WALTHAM.....	1919	93	8,009	9,823	8,190	6,834	20,879
	1914	25	1,940	6,247	855	2,951	4,461		1914	88	6,465	7,926	4,005	3,815	10,237
	1909	10	1,572	5,772	689	2,226	3,478		1909	80	6,037	7,583	3,288	2,444	7,814
MILFORD.....	1919	48	1,809	2,020	1,819	4,846	8,409	WATERTOWN.....	1919	25	8,420	18,390	9,029	19,734	47,298
	1914	59	1,749	2,137	992	2,298	4,028		1914	30	4,787	4,377	2,855	6,694	14,764
	1909	53	1,801	2,410	945	2,380	4,442		1909	25	4,335	4,862	2,235	6,403	11,546
NATICK.....	1919	49	1,403	2,178	1,382	4,953	7,393	WEBSTER.....	1919	24	3,849	7,543	3,921	18,791	28,401
	1914	38	1,347	1,017	745	3,318	4,566		1914	23	3,245	6,180	1,471	6,983	9,234
									1909	22	3,010	6,454	1,293	6,976	10,027
NEWBURYPORT.....	1919	64	3,960	6,417	3,911	12,680	20,595	WESTFIELD.....	1919	85	3,243	7,253	3,115	6,941	14,279
	1914	54	3,349	4,412	1,650	4,757	8,246		1914	100	3,584	4,046	2,127	3,434	8,420
	1909	74	3,215	3,820	1,642	3,781	6,931		1909	91	3,060	3,541	1,695	2,898	7,362
NEWTON.....	1919	49	2,547	5,536	2,613	8,428	15,525	WEST SPRINGFIELD.....	1919	23	2,791	11,260	3,509	6,335	12,387
	1914	58	2,154	5,576	1,185	3,142	5,823		1914	29	2,200	12,131	1,531	2,410	5,040
	1909	46	2,174	4,153	1,125	3,383	6,279								
NORTH ADAMS.....	1919	65	6,023	14,049	5,631	22,286	36,204	WYOMOUTH.....	1919	34	2,140	2,352	2,235	11,120	16,837
	1914	70	5,288	12,946	2,775	5,697	10,923		1914	40	2,074	2,649	1,196	5,058	8,251
	1909	60	5,414	11,928	2,567	5,570	10,315		1909	41	1,991	1,902	1,110	4,204	6,627
NORTHAMPTON.....	1919	63	3,532	6,687	3,306	9,351	17,061	WINCHESTER.....	1919	17	1,112	2,188	1,295	6,221	9,698
	1914	75	3,446	7,531	1,960	3,848	8,581		1914	19	1,048	1,644	643	3,602	5,159
	1909	71	3,150	6,139	1,503	3,163	6,909								
PEABODY.....	1919	91	8,013	19,134	10,234	31,316	52,007	WINTHROP.....	1919	19	61	71	49	203	330
	1914	77	5,485	15,764	3,072	12,243	18,442		1914	10	16	197	11	38	78
	1909	74	4,850	9,981	2,638	10,192	15,549		1909	7	7	41	5	25	42
PITTSFIELD.....	1919	90	8,570	18,945	10,200	19,718	41,013	WOBBURN.....	1919	53	2,011	5,942	2,376	7,550	13,980
	1914	84	7,490	15,989	4,683	9,129	22,241		1914	57	1,565	3,880	915	3,351	5,518
	1909	71	6,253	8,301	3,718	8,528	15,215		1909	59	1,053	3,560	932	3,114	5,408

TABLE 40.—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.							
All industries.....		11,906	812,521	9,451	25,078	32,788	30,768	713,836	De 765,746	Fe 677,294	(3)	(3)	(3)	(3)	(3)	Dollars. 2,947,108,527	
2	Aluminum manufactures.....	4	122	5	6	5	3	103	Oc 125	Ja 76	117	72	43	2	172,464		
3	Ammunition.....	6	2,663	30	73	111	2,449	Ja 9,111	No 1,323	1,778	767	971	30	10	7,128,069		
4	Artificial limbs.....	11	47	8	3	3	28	Au 32	Ja 25	25	25	25	25	25	116,930		
5	Artificial stone products.....	34	231	30	12	5	176	Jy 210	Fe 127	197	196	24	1	2	506,037		
6	Artists' materials.....	3	58	3	3	4	47	No 58	My 36	55	55	24	20	9	127,020		
7	Automobile bodies and parts.....	88	4,026	67	147	111	160	De 3,856	Je 3,152	4,177	3,953	179	44	1	9,661,243		
8	Automobiles.....	8	1,267	2	94	106	76	959	De 1,460	Ja 521	1,460	1,430	24	6	7,271,507		
9	Automobile repairing.....	279	2,057	247	60	85	83	1,582	Je 1,087	Ja 1,378	1,620	1,596	17	7	2,707,250		
10	Awnings, tents, and sails.....	47	395	47	25	17	31	275	Je 390	Fe 198	521	171	80	7	750,694		
11	Bags, other than paper, not including bags made in textile mills.	6	168	4	6	3	13	140	Au 209	De 57	164	29	119	10	657,486		
12	Bags, paper, not including bags made in paper mills.	4	183	4	5	3	9	162	De 191	My 140	191	79	101	3	539,382		
13	Baskets, and rattan and willow ware.	13	342	13	10	3	5	311	Se 390	Fe 231	300	148	199	28	15	351,506	
14	Belting and hose, other than rubber.	4	135	1	10	2	9	113	De 122	Ja 101	126	72	49	4	1	670,817	
15	Belting and hose, rubber.	3	2,936	35	279	181	2,441	De 2,851	Je 2,026	2,851	2,815	487	22	27	17,654,898		
16	Boiling, leather.....	20	364	7	30	37	21	269	De 309	Au 243	309	282	20	7	1,945,268		
17	Billiard tables and accessories.....	7	50	7	2	2	30	Se 43	Ja 31	41	40	1	1	1	137,451		
18	Blacking, stains, and dressings.....	56	1,011	52	133	87	686	My 713	Ja 611	707	427	255	7	18	2,065,600		
19	Bookbinding and blank-book making.	94	3,334	83	97	116	102	2,936	De 3,097	Ja 2,709	3,112	1,440	1,401	129	76	5,016,995	
20	Boot and shoe cut stock.....	182	5,331	183	229	141	147	4,631	Oc 4,871	Ja 4,420	4,782	3,488	1,095	151	48	31,739,186	
21	Boot and shoe findings.....	254	6,868	245	326	158	243	5,896	De 6,601	Ja 5,291	6,620	4,258	2,139	115	108	18,485,738	
22	Boots and shoes, not including rubber boots and shoes.	493	89,480	315	2,923	2,203	3,882	80,166			87,368	52,397	31,485	1,971	1,515	202,062,010	
23	Regular factory products.....	456	88,907	279	2,900	2,200	3,899	79,659	De 86,067	Ap 76,022	80,715	52,157	31,109	1,951	1,498	202,400,246	
24	Contract work.....	10	186	10	12	4	160	No 240	Ja 96	233	194	19	17	3	52,323		
25	Stitching.....	16	288	18	3	5	262	De 294	Ap 228	304	15	280	9	9	66,899		
26	Crimping and buttonholes.....	3	7	3	3	4	4	My 5	Fe 2	2	2	2	2	2	4,063		
27	Moccasins and overgaiters.....	8	101	5	8	3	81	No 119	Fe 33	112	29	75	3	5	138,596		
28	Boots and shoes, rubber.....	8	15,195	320	1,078	735	13,062	De 14,435	Je 11,755	14,441	8,314	5,752	186	189	43,532,306		
29	Boxes, cigar.....	4	187	2	12	1	168	De 161	Au 139	101	76	89	9	17	252,884		
30	Boxes, paper and other, not elsewhere specified.	102	5,259	66	209	73	200	4,711			5,200	1,774	2,908	107	351	8,255,574	
31	Set-up paper boxes.....	87	4,320	62	167	36	137	3,918	De 4,244	Ja 3,522	4,281	1,263	2,619	94	305	5,236,640	
32	Cartons and shipping containers.	15	939	4	42	37	63	793	De 919	Fe 719	919	511	349	13	46	3,019,234	
33	Boxes, wooden packing, except cigar boxes.	75	3,550	48	134	52	84	3,232	De 3,496	My 3,048	3,517	3,044	395	54	24	9,238,276	
34	Brass, bronze, and copper products.....	72	3,217	59	157	96	73	2,832			3,040	2,960	59	17	4	12,253,019	
35	Brass and bronze products.....	67	3,185	55	155	95	71	2,809	De 3,004	My 2,588	3,012	2,937	54	17	4	12,154,359	
36	Copper and all other products.....	5	32	4	2	1	23	De 28	Ja 19	38	23	23	5	1	99,260		
37	Bread and other bakery products.....	1,309	11,381	1,391	247	793	397	8,533	De 2,002	Mh 1,744	9,135	6,535	2,455	54	91	20,652,083	
38	Biscuit and crackers.....	13	2,256	4	53	200	62	1,937	De 2,002	Mh 1,744	2,104	1,000	1,048	4	52	5,285,662	
39	All other.....	1,296	9,125	1,387	194	593	305	6,646	No 6,976	Ja 6,266	7,031	5,535	1,407	50	39	15,367,401	
40	Brick and tile, terra-cotta, and fire-clay products.	35	830	18	45	19	9	739			899	890		9		2,467,083	
41	Building brick.....	29	592	18	34	7	6	527	Au 897	Mh 126	604	664				1,489,851	
42	Fire brick, stove lining, and terra-cotta products.	6	238	11	12	3	212	No 239	Ap 183	235	226		9			977,232	
43	Brooms.....	25	147	25	4	7	4	107	Oc 119	Fe 86	110	102	9	8		382,834	
44	Brushes.....	30	1,817	20	60	48	76	1,613	De 1,858	Ap 1,438	1,860	1,024	826	8	2	5,644,895	
45	Butter.....	20	81	7	14	2	7	51	Au 60	Fe 44	80	50	2			275,316	
46	Buttons.....	17	433	17	18	5	13	385	No 425	Ja 320	420	201	201	7	8	786,188	
47	Canning and preserving, fish.....	22	1,623	8	39	53	59	1,464	De 1,651	Au 1,219	1,693	1,488	183	10	12	7,104,155	
48	Card cutting and designing.....	6	17	5	3	1	8	No 16	Ja 14	14	14	8	6			35,334	
49	Carpets and rugs, other than rag.....	10	3,365	6	51	108	66	3,134	Au 3,726	Fe 2,410	4,068	2,162	1,552	165	179	14,435,308	
50	Carpets, rag.....	19	111	20	5	4	1	81	Je 92	Ja 65	86	61	14	9	2	63,797	
51	Carriage and wagon materials.....	7	95	13	3	2	2	75	Se 84	Fe 60	83	74	2	7		185,280	
52	Carriages and sleds, children's.....	13	1,593	8	56	54	26	1,449	Ap 1,520	Oc 1,356	1,580	1,346	173	37	24	2,934,255	
53	Carriages and wagons, including repairs.	43	508	49	22	11	10	416			416	412	1	2		879,341	
54	Carriages and wagons.....	32	438	36	19	10	7	366	Mh 401	Ja 302	368	366		2		760,190	
55	Repair work only.....	11	70	13	3	1	3	50	My 58	Ja 45	47	46	1			119,151	
56	Cars and general shop construction and repairs by electric-railroad companies.	30	1,945	27	55	17	1,840	Mh 1,938	My 1,738	1,813	1,796	16	1			2,855,884	
57	Cars and general shop construction and repairs by steam-railroad companies.	14	8,260	220	245	71	7,724	De 8,101	Je 7,414	8,101	8,044	49	8			9,607,976	
58	Chemicals.....	27	3,054	10	142	235	184	2,433	De 2,729	Mh 2,329	2,731	2,150	571	2	8	16,319,388	
59	Chocolate and cocoa products.....	6	2,223	45	117	54	2,007	Se 2,144	My 1,844	1,887	1,358	502	12	15		14,871,209	
60	Cleansing and polishing preparations.	37	176	22	26	26	79	Se 43	De 36	80	38	32	19			654,009	
61	Cleansing preparations.....	13	82	8	9	13	40	No 30	Je 24	29	17	10	2			401,185	
62	Metal polish.....	13	59	7	10	9	28	Se 30	Je 24	29	17	10	2			157,230	
63	All other polishing preparations.....	11	35	7	3	5	13	Au 14	Se 12	13	10	3				95,594	
64	Cloaks.....	3	363	16	22	14	311	De 349	Jy 270	349	271	66	12			821,434	
65	Cloth, sponging and refinishing.....	6	61	3	5	2	51	Au 57	Ja 43	57	55	2				30,710	
66	Clothing, men's.....	207	7,769	246	201	183	6,556			7,934	3,403	4,446	22	63		21,798,287	
67	Regular factory products.....	131	6,557	149	200	180	5,747			6,720	2,774	3,870	19	57		21,617,414	
68	Men's and youths'.....	69	3,598	87	111	175	90	3,135	Se 3,612	Ja 2,461	3,590	1,900	1,043	9	38	10,824,253	
69	All other.....	62	2,959	62	89	106	90	2,612	No 3,113	Ja 1,612	3,121	865	2,227	10	19	10,793,161	
70	Contract work.....	76	1,212	97	1	2	3	1,109			1,214	629	576	3	6	180,873	
71	Men's and youths'.....	73	1,206	96	1	2	3	1,104	De 1,189	Ja 1,012	1,189	628	552	3	6	177,073	
72	All other.....	3	6	1				5	De 24	Ja 3	25	1	24			3,800	

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—MASSACHUSETTS.

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

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars. 100,235,820	Dollars. 83,199,585	Dollars. 766,623,337	Dollars. 22,744,536	Dollars. 12,835,105	Dollars. 150,035,015	Dollars. 2,188,353,757	Dollars. 72,359,270	Dollars. 4,011,181,532	Dollars. 1,750,408,496	1,729,878	694,531	270,401	11,227	189,302	564,417	424,274	1
12,217	16,646	84,102	716	5,048	3,157	222,668	6,809	395,447	165,970	173						173	2
125,780	197,189	2,403,567		1,092,037	1,050,372	117,036	5,061,390	4,793,982	2,694	50						2,644	3
7,221	6,258	26,054		4,527	586	25,717	1,765	105,741	78,250	65						65	4
25,584	11,335	191,732	826	8,342	9,709	277,504	9,370	677,088	390,124	260						232	5
6,240	3,664	20,483	2,837	1,170	1,356	40,247	2,409	121,057	78,311	76	20					44	6
574,025	282,180	4,680,699	22,214	102,486	258,177	6,530,637	181,268	14,483,882	7,771,487	3,281	715					2,309	7
248,592	176,899	1,230,642		1,200	708,358	9,501,827	62,979	12,548,222	2,978,416	1,160	125					1,035	8
149,437	186,701	2,044,460	9,500	203,359	88,343	1,048,460	95,160	5,972,500	3,928,880	1,424						1,209	9
50,950	43,704	268,074	30	41,220	13,150	879,056	7,332	1,542,767	655,479	118						118	10
30,804	18,800	100,070	400	8,457	5,411	1,548,587	3,261	1,815,651	263,800	177						177	11
17,131	10,107	124,945		4,985	5,818	776,075	7,677	1,100,519	316,707	423						207	12
30,318	15,678	245,607		3,373	10,056	324,824	6,922	767,655	435,909	250						120	13
60,840	12,077	120,102		10,189	57,240	656,182	17,237	1,095,273	421,854	540						815	14
259,048	642,415	2,802,520			517,005	7,398,989	383,408	13,859,748	6,077,201	10,035						4,800	15
147,389	74,386	328,639	3,401	27,715	36,950	2,911,870	17,076	3,943,685	1,014,130	383						248	16
6,500	1,850	40,697		10,091	2,801	113,620	1,695	242,177	126,862	43						43	17
230,511	342,922	687,197		61,632	176,051	4,137,123	34,682	7,108,160	2,936,355	605						247	18
332,606	296,073	2,595,018		22,083	150,021	2,975,746	57,263	8,179,841	5,146,832	1,368						970	19
1,101,345	489,408	4,452,302		24,808	275,606	798,413	69,295,897	80,214,106	16,732,140	3,830						2,901	20
1,191,032	465,351	5,646,725		690,853	288,671	655,409	267,300	44,357,147	15,970,929	6,572						4,284	21
10,332,017	9,705,636	89,489,715		840,033	1,299,820	8,025,857	267,787,050	1,503,815	442,466,230	173,115,341	37,945					22,426	22
10,797,127	9,695,646	89,025,078		845,085	1,282,932	8,020,517	267,509,772	1,552,629	441,486,092	172,423,691	37,685					22,166	23
15,300	2,147	195,230		8,544	860	31,808	5,566	290,612	259,238	148						148	24
3,990	3,696	217,916		5,309	348	43,380	3,976	341,083	293,727	76						76	25
		4,630		1,028	40	1,572	284	13,192	11,336	10						10	26
15,000	3,547	46,861	48	2,016	4,093	200,518	1,300	329,267	127,349	26						26	27
912,428	2,207,666	12,762,706		17,584	897,013	17,066,098	552,041	44,307,061	26,686,822	21,609						15,639	28
32,635	3,936	105,730		1,380	41,232	224,176	3,425	484,774	257,173	95						95	29
819,073	365,645	3,547,093	10,507	150,884	447,111	7,326,070	136,820	15,666,081	8,202,591	4,166						297	30
539,383	196,550	2,778,191	16,507	120,091	229,012	4,122,413	110,109	10,011,786	5,779,264	2,733						2,896	31
280,290	169,095	768,902	30,793	30,793	218,099	3,204,257	20,711	5,054,295	2,423,327	1,433						1,383	32
545,762	155,916	3,183,412	33,108	61,161	513,635	8,280,105	91,067	15,050,531	6,678,609	12,450						1,604	33
606,719	237,158	3,506,249	17,372	38,062	904,082	8,859,585	507,180	10,943,199	7,576,434	15,511						11,639	34
603,269	235,628	3,473,883	17,372	37,070	903,502	8,789,924	500,676	16,817,510	7,526,610	15,419						11,574	35
3,450	1,530	32,366		1,592	580	69,661	6,204	125,689	49,824	92						92	36
825,116	1,572,882	9,336,181	721	665,449	787,662	39,510,796	1,075,987	66,017,267	25,430,484	7,712						1,432	37
179,332	346,243	1,373,585		49,028	332,490	5,471,501	121,070	10,953,637	5,300,166	1,738						133	38
645,784	1,226,639	7,902,696	721	610,421	455,172	34,039,295	954,017	55,063,630	20,070,318	5,074						5,076	39
105,380	40,079	815,617	54,550	21,741	35,072	234,461	200,027	1,817,512	1,293,024	3,026						1,465	40
70,848	15,606	573,386	54,550	21,741	25,078	111,678	220,973	1,219,196	877,545	2,482						1,415	41
34,482	24,673	242,231		10,204	122,783	60,054	508,316	415,479	877,545	544						50	42
7,504	17,888	94,955	3,445	4,398	3,107	304,389	5,148	581,289	211,752	132						66	43
317,688	169,720	1,342,304	13,103	44,261	537,890	3,208,490	65,394	6,857,413	3,522,523	1,005						385	44
16,343	8,983	61,513		8,798	4,088	1,780,161	22,393	2,148,354	339,800	840						224	45
47,263	15,614	310,997	2,277	9,402	7,145	239,540	22,701	1,017,929	755,688	482						232	46
212,251	103,215	1,418,205	200	10,700	110,285	9,337,013	87,471	12,763,266	3,338,782	847						709	47
2,820	3,271	7,003	145	1,528	279	20,785	250	44,705	23,751	15						10	48
399,457	341,255	3,145,512	29,319	343,072	7,746,326	275,050	13,593,990	5,572,614	6,132	3,820						737	49
5,718	6,199	67,321	3,211	5,780	490	45,812	2,727	100,598	142,059	84						64	50
9,823	5,976	85,328		7,340	3,122	147,451	8,520	348,520	192,549	340						75	51
235,391	188,584	1,414,180		1,395	161,841	2,610,194	40,093	5,253,729	2,703,442	1,358						308	52
58,192	20,440	464,712	116	24,581	12,790	492,374	28,852	1,323,571	802,345	552						428	53
45,423	16,758	407,045	100	16,272	10,255	380,700	24,464	1,083,435	678,271	446						328	54
12,799	3,682	57,667	16	8,309	2,544	111,074	4,388	240,136	124,074	106						100	55
57,308	108,220	2,446,126	9,282	56,412	1,690,710	50,688	4,504,579	2,748,181	2,790	2,790						2,565	56
639,658	352,863	11,271,695		83,229	9,862,210	428,338	22,037,990	12,347,442	11,259	7,528						2,725	57
475,417	457,835	3,043,576	3,587	30,402	738,198	7,561,738	639,679	17,305,166	9,203,749	9,223						3,257	58
345,233	413,705	1,944,753	1,403	37,461	827,625	23,697,564	291,586	30,327,397	6,338,247	5,711						2,599	59
75,115	88,212	78,610	2,877	17,604	23,200	7,272,205	6,186	1,362,017	659,226	141						124	60
25,035	56,641	39,284		7,398	18,875	430,440	3,571	895,060	426,049	105						98	61
23,811	22,369	23,844		5,883	2,754	149,045	1,534	270,066	127,887	26						16	62
26,271	10,202	10,532		1,637	141,120	1,081	247,491	81,081	105,290	140						10	63
40,536	36,879	313,000		22,924	270,919	8,938	840,870	561,013	61,013	17						62	64
11,263	1,040	57,800		10,295	439	4,536	1,436	107,614	101,642	21						21	65
813,402	822,563	7,207,475		312,261	397,705	23,446,641	153,421	41,475,028	17,874,966	1,878						1,334	66
806,862	818,073	5,804,617		274,188	396,414	23,397,639	135,621	39,654,080	16,120,820	1,694						1,150	67
495,142	654,677	3,775,															

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
INDUSTRY AND CITY.	Number of establishments	Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.		
								Maximum month.	Minimum month.							
1 Clothing, men's, buttonholes.....	4	13	4				9	(*) 9	(*) 9	10	6	3	1	Dollars.		
2 Clothing, women's.....	258	7,319	302	235	271	240	6,271			0,475	1,333	4,970	3	1,300		
3 Regular factory products.....	238	7,137	278	233	269	235	6,122			6,328	1,209	4,888	2	10,994,913		
4 Suits, skirts, and cloaks.....	46	1,039	70	27	41	41	860	Oc 958	Ja 716	878	617	259	2	10,933,555		
5 Shirt waists and dresses, except house dresses.....	86	3,121	99	98	118	106	2,700	My 2,918	Ja 2,369	2,531	354	2,091	1	1,807,917		
6 Undergarments and petticoats.....	37	1,424	37	45	43	41	1,258	De 1,441	Ja 1,002	1,443	140	1,250		4,122,333		
7 Wrappers and house dresses.....	11	217	13	11	13	7	173	De 203	Fe 155	203	21	177		3,189,532		
8 All other.....	58	1,336	59	52	54	40	1,131	No 1,277	Ja 894	1,273	137	1,102	1	313,459		
9 Contract work.....	20	182	24	2	2	5	149			147	64	82	1	1,520,114		
10 Suits, skirts, and cloaks.....	15	118	20	1	1	4	92	No 113	Jy 67	87	63	23	1	41,058		
11 All other.....	5	64	4	1	1	1	44	Oc 100	Fe 7	60	1	59		17,099		
12 Coal-tar products.....	8	634	1	43	110	36	444	De 535	Mh 306	535	533	1	1	23,969		
13 Coffee and spice, roasting and grinding.....	23	826	23	38	197	56	512			548	342	199		3,718,616		
14 Coffee.....	19	622	22	22	164	49	365	Au 386	Mh 349	378	271	106		5,076,977		
15 Spice.....	4	204	1	16	33	7	147	De 170	Ap 129	170	71	93		4,754,825		
16 Coffins, burial cases, and undertakers' goods.....	9	429	4	20	30	16	359	Fe 420	Se 292	348	321	28	1	922,152		
17 Combs and hairpins, not made from metal or rubber.....	26	1,922	13	67	28	48	1,706	De 1,847	Ja 1,690	1,952	1,150	630	89	1,813,299		
18 Confectionery and ice cream.....	278	13,613	291	498	627	612	11,585			11,856	3,651	6,909	225	2,976,108		
19 Confectionery.....	130	12,435	117	442	590	533	10,753	Oc 11,800	Jy 9,600	11,141	3,041	6,808	221	28,133,527		
20 Ice cream.....	148	1,178	174	56	37	79	836	Jy 1,133	Ja 623	1,141	715	610	4	25,232,770		
21 Cooperage, hogheads and barrels.....	18	431	18	8	5	4	396	Mh 477	Ap 336	623	374			2,870,797		
22 Copper, tin, and sheet-iron work.....	137	2,172	124	174	171	170	1,533	De 1,754	Mh 1,392	1,750	1,683	46	19	4,054,040		
23 Cordage and twine.....	13	2,995	4	70	74	104	2,743	Mh 2,948	Ja 2,574	2,720	1,911	729	45	3,852,294		
24 Cordials and flavoring sirups.....	8	94	3	12	11	15	63	Au 60	Se 39	51	31	20		26,094,441		
25 Cork, cutting.....	3	94	1	6	2	2	21	Fe 29	My 18	22	16	5		522,809		
26 Corsets.....	11	1,750	1	37	89	68	1,555	Oc 1,790	Jy 1,439	1,804	227	1,431	10	109,376		
27 Cotton goods.....	191	125,834	17	1,361	1,046	911	122,499	De 127,017	Ap 118,106	128,489	65,749	55,354	3,675	4,319,462		
28 Cotton small wares.....	40	1,821	13	97	13	47	1,651	De 1,707	Ja 1,541	1,683	544	990	40	604,226,192		
29 Cutlery and edge tools.....	51	4,739	27	189	307	248	3,988	Jy 1,768	Fe 1,541	4,528	2,885	1,604	73	15,396,709		
30 Table cutlery.....	6	570	27	27	29	17	797	De 899	Ja 700	880	770	41	48	24,543,745		
31 All other.....	45	3,869	27	142	278	231	3,191	De 3,588	Au 2,760	3,659	2,095	1,523	25	1,902,236		
32 Dental goods.....	9	85	4	7	7	7	40			46	34	9		22,641,509		
33 Teeth.....	3	15	3				12	No 17	Ja 10	17	14	3		142,078		
34 All other.....	6	50	1	7	7	7	28	Ap 35	Je 21	29	20	9		6,895		
35 Druggists' preparations.....	24	2,573	7	125	295	447	1,699	Fe 2,097	Au 1,446	1,848	884	952	16	135,733		
36 Dyeing and finishing textiles, exclusive of that done in textile mills.....	62	13,389	13	379	322	354	12,321	De 13,931	Mh 10,800	13,786	10,414	3,117	153	15,396,709		
37 Dyestuffs and extracts—natural.....	27	277	19	32	34	27	165	De 194	Ap 127	186	175	5	1	58,279,255		
38 Electrical machinery, apparatus, and supplies.....	110	29,472	32	1,201	2,287	2,063	23,889	De 28,024	Ap 21,682	28,008	20,884	6,000	151	2,261,813		
39 Electroplating.....	48	389	49	24	15	13	288	No 347	Fe 227	328	305	13	10	90,953,845		
40 Emery and other abrasive wheels.....	14	3,010	8	113	193	253	2,443	De 2,776	Jy 2,214	2,776	2,550	206	6	358,493		
41 Enameling.....	7	78	5	3	1	2	67	No 80	Mh 52	73	30	30		17,747,806		
42 Engraving and diesinking.....	47	216	55	3	5	9	144	Se 164	Ja 123	168	130	9	14	147,696		
43 Engraving, steel and copper plate, including plate printing.....	24	524	16	22	21	33	432	Oc 515	Fe 386	465	224	189	24	458,226		
44 Envelopes.....	13	2,161	2	51	82	109	1,917	De 2,153	Au 1,826	2,153	703	1,439	3	7,255,157		
45 Fancy articles, not elsewhere specified.....	39	2,227	26	93	62	117	1,929			2,497	1,231	1,123	50	4,063,576		
46 Celluloid novelties.....	10	1,285	2	46	19	43	1,170	De 1,362	Ja 1,094	1,362	838	492	15	2,536,918		
47 Metal and wood novelties.....	5	237	5	15	5	23	189	De 277	Je 144	277	225	50	2	556,100		
48 Paper novelties.....	8	561	6	21	33	41	460	De 713	Mh 309	713	126	478	33	753,541		
49 All other.....	16	144	13	11	5	5	110	No 150	Ja 60	145	42	103		216,959		
50 Felt goods.....	15	1,309		56	46	121	1,088	Ja 1,143	Je 1,021	1,248	1,090	140	13	10,790,477		
51 Firearms.....	5	2,440	1	13	78	95	2,253	Je 2,570	Ja 1,386	2,463	2,323	95	45	5,294,043		
52 Flags and banners.....	3	12					10	Oc 14	Ja 6	13	7	6		18,198		
53 Flavoring extracts.....	27	254	19	27	60	19	129	Oc 151	Ja 115	147	59	81	1	959,231		
54 Flour-mill and gristmill products.....	75	238	79	18	7	11	123	De 138	Mh 116	143	135	8		3,135,522		
55 Food preparations, not elsewhere specified.....	81	1,203	79	78	104	94	848			886	605	255	17	4,704,078		
56 Breadstuffs, cereals, and breakfast foods.....	8	36	7	2	1	8	18	Ja 21	Ap 15	19	17	2		147,000		
57 Macaroni, vermicelli, and noodles.....	17	258	23	11	7	6	211	Jy 225	Fe 195	228	189	27	10	1,137,112		
58 Meat products, not elsewhere specified.....	5	179	2	13	9	11	144	Ja 209	Au 93	134	66	67	1	902,255		
59 Peanut butter.....	3	21	4	1				Mh 15	Ja 13	14	8	6		29,878		
60 All other.....	48	709	43	51	85	69	461	Ja 511	Oc 401	401	325	153	6	2,487,743		
61 Foundry and machine-shop products.....	574	38,161	365	1,617	1,895	1,572	27,712	Ja 871	Mh 729	31,855	30,339	859	150	7	102,738,354	
62 Boiler shops.....	18	949	10	42	38	29	830	Ja 871	Mh 729	815	814	3	1	3,067,996		
63 Foundries.....	79	4,507	42	199	90	115	4,061	De 5,005	Je 3,420	5,071	5,039	17	15	9,474,406		
64 Machine shops.....	457	25,696	313	1,278	1,698	1,380	21,027	De 23,542	My 19,913	23,559	22,599	824	120	86,092,149		
65 Machine shop and foundry combined.....	20	2,009		98	69	48	1,794	Ja 1,938	Ap 1,624	1,907	1,887	15	5	4,103,803		
66 Fur goods.....	22	376	22	15	37	13	289	De 340	Mh 248	340	162	177	1	1,179,617		
67 Furnishing goods, men's.....	14	356	15	16	30	20	275	De 310	Ja 250	330	50	277	3	1,008,754		
68 Furniture.....	161	7,232	129	316	236	209	6,342	De 7,411	Ja 4,305	7,411	6,461	761	154	27,852,510		
69 Wood, other than rattan and willow.....	120	5,623	104	229	183	154	4,953	De 5,741	Ja 4,305	5,757	5,019	559	139	23,028,120		
70 Rattan and willow.....	13	965	7	44	18	31	865	De 1,025	Ap 779	1,025	837	184	4	3,384,994		
71 Metal.....	9	249	2	16	18	8	205	De 225	Ja 182	225	203	12	8	595,628		
72 Store and office fixtures.....	19	395	16	27	17	16	319	De 411	Mv 225	411	402	6	3	845,708		

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—MASSACHUSETTS.

55

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								POWER.							
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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.			Owned.					
										Total	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		Rent-^{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.	Dollars.	Dollars.	Dollars.
709,399	805,707	7,750	674,508	1,107	344,718	144,453	17,877,812	299	18,749	17,278	4									
705,922	801,899	5,616,403	674,508	344,718	144,453	17,877,812	95,705	30,427,592	12,454,075	1,622	470									
62,397	111,141	5,469,175	48,125	60,183	8,696	3,530,992	14,592	6,034,094	2,488,420	130										
256,944	362,682	2,278,977	456,830	134,692	52,006	6,439,222	38,449	11,442,349	4,064,078	744	310									
222,518	193,907	965,564	138,113	60,660	50,851	5,111,880	19,140	7,685,546	2,554,526	411	160									
16,030	28,931	125,421		10,997	1,692	540,875	3,800	864,338	310,063	56										
148,083	105,238	845,059	31,431	61,770	21,782	2,191,300	17,107	4,105,011	1,896,514	238										
3,477	3,808	147,228		10,416	426	63,543	2,527	296,344	230,274	34										
1,805	2,495	117,170		8,816	203	63,254	1,009	240,061	175,198	19										
1,672	1,313	30,058		1,600	223	289	918	50,283	55,076	15										
279,755	162,035	572,177	1,282	12,757	140,836	2,355,083	116,443	3,953,975	1,485,449	1,019	191									
233,266	498,701	483,470		104,464	110,029	13,939,589	65,247	16,077,791	2,072,955	1,377	480									
191,876	438,393	343,515		93,084	90,077	12,543,041	54,783	15,121,062	2,523,838	919	220									
71,390	57,305	139,955		19,480	19,952	1,315,548	10,464	1,856,129	449,117	458	200									
66,342	84,583	371,501		12,562	108,145	981,753	7,618	2,176,243	1,183,872	702	400									
270,258	89,459	1,424,632	23,512	5,652	70,728	2,432,099	72,563	5,179,460	2,644,807	1,292	607									
1,855,174	1,769,483	8,523,320	8,142	614,724	3,621,883	39,728,491	625,608	68,831,885	28,512,876	11,236	4,116									
1,682,518	1,652,200	7,612,637	1,370	534,559	3,559,751	34,403,967	467,356	60,556,558	25,682,235	8,419	4,001									
172,056	117,283	1,011,283	6,772	80,035	65,132	5,321,434	158,252	8,310,427	2,830,641	2,817	115									
30,510	7,682	355,948	190	4,015	31,916	1,358,830	21,437	2,150,258	765,001	413	275									
538,085	292,773	1,919,135	10,549	99,082	100,839	3,165,582	61,404	8,315,598	5,087,522	1,026	225									
267,180	255,904	2,310,021	250,090	11,820	2,693,515	19,237,311	203,600	28,084,044	8,655,094	10,957	5,191									
73,982	31,490	48,079	4,000	15,131	10,930	630,783	3,982	652,578	327,813	102										
11,720	2,040	17,729	7,921	2,552	175,182	41,081	2,541	15,490	111	68										
220,765	335,620	1,093,117	32,810	32,810	175,893	3,352,418	14,541	10,763,609	3,391,547	835	565									
4,611,577	2,740,039	100,902,503	549,728	930,202	35,955,862	348,077,063	11,608,173	594,687,441	237,012,202	523,645	267,200									
392,001	63,033	1,238,705	20,471	37,211	253,479	5,122,118	123,367	8,269,308	3,004,823	2,722	520									
480,510	666,211	3,940,083	1,875	13,989	2,315,894	5,290,738	10,672,750	19,072,750	14,216,413	5,885	1,440									
80,371	67,095	838,098		55,028	458,056	458,056	57,230	1,889,444	1,374,168	2,156	550									
400,139	589,116	3,077,018	1,875	13,989	2,270,876	4,742,682	153,369	17,783,306	12,887,255	3,729	890									
20,924	15,032	38,888	520	5,481	7,898	689,714	2,328	841,152	189,116	27										
20,924	15,032	27,937	520	1,231	2,208	18,275	2,059	835,073	101,575	4										
761,367	812,030	1,307,006	420	4,250	7,090	671,439	39,859	9,989,720	5,036,851	757	610									
1,822,539	836,747	12,240,747	22,722	12,330	1,594,062	41,315,090	2,393,839	75,261,815	31,052,277	39,133	13,613									
118,064	91,095	199,018	22,183	152,058	4,422,010	52,920	5,811,567	1,335,737	773	319										
3,835,415	5,158,647	27,649,667	105,130	1,127,531	30,545,217	1,291,859	91,938,707	101,000,002	33,367	3,925	24,718									
64,032	23,412	323,742	3,953	37,288	4,398	147,650	20,012	834,325	605,754	498										
482,567	388,240	2,264,531		12,088	787,071	4,596,879	446,305	13,118,447	8,104,803	5,880	375									
6,280	2,392	57,933	0	1,710	5,900	123,114	8,643	256,009	121,852	64										
7,147	12,983	109,217	7,724	15,043	2,056	46,296	3,595	434,583	384,782	78										
122,682	55,549	407,250	9,074	20,780	39,912	261,262	7,349	1,318,098	1,069,496	110										
226,640	235,252	1,073,251	14,435	2,877	6,504,528	45,615	10,868,966	4,318,823	1,401	985	35									
366,376	237,028	1,092,386	83,487	30,739	196,949	4,358,017	129,812	7,931,993	3,444,237	2,473	381									
166,823	92,892	1,145,729	146	15,790	3,351,135	101,820	6,244,119	2,071,104	1,075	301										
24,029	38,845	184,380	6,553	12,909	272,278	18,542	649,674	358,554	214											
45,855	129,348	285,214	72,805	7,013	9,849	483,769	6,050	1,281,024	701,205	242										
23,076	7,943	77,063	3,983	0,531	1,082	251,735	2,530	476,279	222,014	42										
263,550	213,543	1,154,905	11,035	194,129	6,421,690	218,029	10,280,391	3,646,051	5,243	1,065	500									
95,542	234,303	2,599,197	520	372,572	961,022	105,185	5,044,510	4,678,303	2,121	570										
186,247	270,412	108,170	1,107	52	8,252	1,220,340	6,089	2,147,021	1,020,695	77										
52,951	15,652	129,996	152	18,259	25,303	4,214,481	35,055	4,878,212	625,070	4,013	294									
206,181	302,127	772,902	31,105	89,437	171,967	5,890,790	181,017	9,602,578	3,530,771	1,919	412									
10,500	8,423	16,874		5,244	2,016	300,969	2,895	399,157	95,293	114	14									
29,463	15,273	180,751		15,528	11,586	1,104,933	44,439	1,633,341	423,969	700	100									
60,975	121,583	120,357		6,531	38,034	1,181,953	15,433	1,602,095	1,001,709	179										
3,900	4,522	13,486	180	382	113,223	1,837	153,423	38,363	20											
191,343	252,320	441,434	31,105	61,954	119,949	3,121,712	116,413	5,824,562	2,581,437	900	298									
5,901,981	3,895,558	39,613,749	807,324	495,990	3,721,618	37,118,580	2,091,458	111,852,729	72,042,091	40,310	8,754									
229,708	90,341	1,064,798	6,092	27,849	104,505	1,995,056	81,400	4,615,248	2,537,783	1,430	635									
792,201	170,417	5,494,824	1,233	55,104	338,390	4,741,516	594,440	14,011,139	8,675,183	6,728										
4,506,276	3,498,027	27,812,904	799,203	394,003	3,000,338	28,448,256	1,277,297	87,321,104	57,505,551	33,109	6,266									
318,737	139,773	2,241,223	790	18,434	2,399,385	1,982,752	138,312	5,905,238	3,334,174	5,043										
60,039	67,618	393,661	56,442	40,093	118,219	1,305,490	4,594	1,417,752	1,107,008	61										
98,650	105,274	201,361	66,805	17,192	1,922,280	1,922,280	4,447	2,890,394	573,044	33										
991,399	525,121	6,137,133	46,306	227,552	640,627	10,303,855	354,933	23,688,923	13,030,675	10,472	5,515									
698,350	419,311	6,142,446	48,349	174,539	544,090	7,272,702	281,925	17,016,												

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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	Gas and electric fixtures.....	7	110	4	8	2	6	90	De	101	Au	82	101	90	10	1	221,990
2	Gas, illuminating and heating.....	51	3,314	204	179	277	2,654	Ja	2,739	Se	2,424	2,612	2,608	10	4	77,030,109	
3	Glass, cutting, staining, and ornamenting.....	26	225	27	9	4	177	No	207	Au	155	210	166	27	11	299,276	
4	Gloves and mittens, leather.....	5	64	5	4	1	4	50	No	68	Ap	37	62	23	39	168,401	
5	Glue, not elsewhere specified.....	13	932	2	47	19	38	826	No	880	Je	798	819	689	130	5,410,316	
6	Gold, leaf and foil.....	12	146	12	4	1	5	124	De	147	Je	105	147	79	65	187,905	
7	Gold and silver, reducing and refining, not from the ore.....	5	32	5	3	1	3	20	Oc	26	My	14	23	22	1	253,648	
8	Grease and tallow, not including lubricating greases.....	24	958	11	50	49	23	825	.....	.....	.....	832	820	9	3	4,666,253	
9	Soap stock.....	11	341	4	22	16	8	291	Ja	306	Jy	277	295	293	9	2	1,074,366
10	All other.....	13	617	7	28	33	15	534	Se	581	Mh	495	537	527	9	1	2,924,887
11	Hair work.....	3	11	3	1	1	6	(*)	(*)	6	6	6	6	6	6	.....	2,700
12	Hand stamps.....	18	145	18	13	11	3	100	Je	106	Ja	93	106	70	24	6	167,012
13	Hardware.....	30	662	20	43	71	28	500	.....	.....	.....	596	402	141	19	4	1,609,842
14	Locks.....	5	64	4	9	1	6	44	De	59	Ja	27	59	47	8	3	124,115
15	Builders' hardware.....	5	30	2	4	1	2	21	De	29	Mh	17	29	25	1	8	66,221
16	All other.....	20	568	14	30	60	20	435	No	488	Ja	390	478	330	132	13	1,419,506
17	Hat and cap materials.....	5	26	4	2	1	19	Je	21	Ja	15	21	12	4	3	2	18,891
18	Hats and caps, other than felt, straw, and wool.....	42	507	57	18	30	26	376	Oc	417	Fe	339	406	274	121	7	916,195
19	Hats, straw.....	13	1,612	11	51	34	26	1,490	Fe	2,154	Jy	835	1,917	649	1,241	14	2,104,748
20	House-furnishing goods, not elsewhere specified.....	54	1,367	41	61	108	76	1,081	.....	.....	.....	1,253	337	813	25	78	3,854,507
21	Mops and dusters.....	13	148	7	10	14	10	107	Oc	131	Fe	80	128	42	82	1	237,079
22	All other.....	41	1,219	34	51	94	66	974	No	1,131	Ja	799	1,125	295	731	24	3,617,428
23	Ice, manufactured.....	12	182	4	15	9	1	163	Au	182	Ja	119	100	160	.....	.....	2,662,115
24	Instruments, professional and scientific.....	25	991	16	88	51	54	782	.....	.....	.....	801	626	150	14	11	2,128,286
25	Medical, surgical, and optical.....	7	449	3	61	39	36	310	De	332	Au	299	332	219	91	11	647,519
26	All other.....	18	542	13	27	12	18	472	Fe	553	Mh	421	469	407	59	3	1,480,767
27	Iron and steel, steel works and rolling mills.....	11	4,310	1	204	306	115	3,684	De	4,029	Ap	3,221	3,996	3,831	161	4	21,374,408
28	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	11	1,618	2	48	35	62	1,471	De	1,635	Ja	1,302	1,635	1,144	489	2	4,576,129
29	Iron and steel, forgings, not made in steel works or rolling mills.....	14	2,441	.....	103	68	98	2,172	De	2,401	Fe	2,024	2,007	2,558	33	14	11,686,386
30	Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	25	1,720	14	48	60	61	1,537	.....	.....	.....	1,735	1,287	427	11	10	5,812,171
31	Wire nails and spikes.....	7	229	2	12	10	9	199	Ja	243	Se	135	212	123	80	1	1,101,920
32	All other.....	18	1,491	12	36	50	62	1,341	De	1,605	Au	907	1,523	1,164	347	10	4,710,261
33	Iron and steel, tempering and welding.....	29	132	26	12	3	7	84	.....	.....	.....	.....	90	90	.....	.....	182,990
34	Treated iron and steel.....	3	21	6	1	2	1	12	Jy	14	Fe	10	12	12	.....	.....	81,307
35	Welding.....	26	111	26	6	2	5	72	De	81	Mh	63	78	78	.....	.....	151,693
36	Ivory, shell, and bone work, not including combs and hairpins.....	0	154	1	11	1	3	138	De	156	My	112	156	137	15	4	377,291
37	Japanning.....	4	17	7	.....	.....	10	.....	De	12	Fe	9	11	10	1	.....	3,650
38	Jewelry.....	165	7,916	176	336	278	340	6,786	De	7,713	Ja	5,806	7,699	4,734	2,695	147	19,446,856
39	Jewelry and instrument cases.....	10	393	7	11	2	8	365	De	422	My	329	422	98	266	8	237,112
40	Knit goods.....	77	13,596	41	235	255	314	12,751	De	13,975	My	11,970	13,963	3,862	9,447	184	38,066,842
41	Lamps and reflectors.....	8	717	6	39	28	18	626	De	672	My	690	670	537	124	6	1,478,360
42	Lapidary work.....	6	58	6	2	.....	50	.....	My	59	No	40	45	39	6	.....	46,118
43	Lasts.....	31	1,511	22	84	70	36	1,299	De	1,413	Ja	1,031	1,460	1,387	50	23	3,603,942
44	Leather goods, not elsewhere specified.....	51	677	37	36	32	27	645	De	644	Ja	501	647	319	293	19	1,266,265
45	Leather, tanned, curried, and finished.....	131	10,877	92	634	530	441	15,180	De	17,379	Jy	13,241	17,378	15,759	1,440	147	92,548,853
46	Lime.....	12	543	8	21	10	3	501	No	542	Mh	445	533	531	.....	2	1,254,877
47	Linen goods.....	4	1,288	18	35	16	1,219	De	1,283	Ja	1,104	1,310	523	614	66	107	5,287,364
48	Liquors, distilled, grain alcohol and rum.....	4	93	1	9	11	8	04	Ja	90	Au	49	56	56	.....	.....	2,800,920
49	Liquors, malt.....	19	1,623	3	92	160	40	1,328	Je	1,464	De	1,004	1,162	1,157	5	.....	15,842,830
50	Lithographing.....	14	1,519	1	85	106	109	1,218	De	1,349	Ap	1,166	1,349	1,917	412	14	4,141,125
51	Looking-glass and picture frames.....	26	195	26	5	5	11	148	De	169	Fe	132	163	147	.....	2	251,727
52	Lumber and timber products.....	244	1,913	260	49	12	10	1,582	Mh	1,837	Jy	1,332	1,998	1,979	.....	19	4,068,302
53	Lumber, planing-mill products, not including planing mills connected with sawmills.....	146	2,728	107	177	111	88	2,245	De	2,614	Fe	1,960	2,613	2,576	8	29	8,410,860
54	Machine tools.....	46	7,709	22	274	460	473	6,471	De	7,297	Jy	5,858	7,370	7,011	326	32	32,446,551
55	Marble and stone work.....	239	2,435	295	85	75	44	1,936	.....	.....	.....	2,236	2,227	2	.....	7	5,654,512
56	Monuments and tombstones.....	181	1,142	239	31	34	20	818	My	1,003	Ja	247	911	903	1	.....	2,135,345
57	All other.....	58	1,293	56	54	41	24	1,118	No	1,296	Fe	677	1,325	1,324	1	.....	3,469,167
58	Mattresses and spring beds, not elsewhere specified.....	52	768	49	32	69	35	583	Oc	637	Ja	503	600	412	162	10	2,110,235
59	Millinery and lace goods, not elsewhere specified.....	60	1,621	61	51	57	56	1,396	.....	.....	.....	1,833	409	1,343	8	13	1,908,084
60	Embroideries.....	10	118	6	12	5	3	92	Oc	112	Ap	78	104	19	78	1	118,832
61	Trimmed hats and hat frames.....	24	1,119	27	21	40	41	990	Fe	1,298	Jy	641	1,363	396	955	6	1,162,322
62	Women's neckwear.....	11	228	12	13	7	8	188	No	220	Ja	149	222	17	204	1	242,062
63	All other.....	15	156	16	5	4	126	Oc	148	Ja	96	144	37	106	.....	1	383,068

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—MASSACHUSETTS.

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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.								
30,950	8,100	101,805	3,495	8,219	6,483	117,659	3,610	317,016	225,747	63					63		1
458,483	497,024	3,557,438	843	3,073	1,788,328	1,997,331	8,816,233	24,231,095	13,457,531	18,827	9,958	5,880	25	12	2,952	2,059	2
17,405	8,650	177,766		18,388	2,909	391,705	7,256	672,244	333,283	134					134		3
8,160	4,755	49,192	1,454	4,020	1,099	134,098	1,939	225,255	89,188	18					18		4
189,881	79,493	939,913	19,873	2,114	134,787	3,359,079	270,717	6,461,337	2,821,571	1,095	1,055				30	72	5
9,272	3,165	125,753	5,359	1,997	4,154	190,827	2,438	399,433	201,178	41					29		6
8,155	3,840	22,951		690	2,612	474,243	7,434	639,313	157,636	111					107		7
124,684	88,018	919,524		60,830	223,123	4,532,612	273,009	7,323,228	2,487,607	2,103	1,437				726	650	8
54,924	30,232	332,302		1,413	98,759	1,140,604	110,812	2,297,537	933,121	798	540				258	308	9
99,760	57,752	584,222		59,477	121,314	3,432,008	132,197	5,115,691	1,521,485	1,345	807				498	342	10
	1,644	4,240	600	1,172	31	9,226	43	21,335	15,066	1					1		11
23,992	15,540	82,541	930	11,347	13,994	98,122	3,035	335,183	234,025	53					53		12
128,313	55,245	492,004	7,293	13,976	85,217	844,742	31,755	2,452,121	1,570,614	691	100				591		13
19,778	3,720	33,324		2,340	1,081	81,185	1,999	175,276	92,092	38					38		14
10,500	2,100	25,410		5,935	660	33,595	1,410	89,538	54,533	46					46		15
98,035	89,425	403,270	7,296	8,701	82,876	729,962	33,356	2,187,377	1,423,980	607	100				507		16
8,404	933	15,601		2,319	136	30,612	446	66,997	35,339	6					3		17
81,844	81,380	508,775	2,074	34,114	5,008	1,376,724	9,875	2,403,884	1,017,285	72					72		18
217,269	99,633	1,100,251	48,327	5,880	82,490	2,902,436	77,607	5,485,093	2,505,047	805	384				171	107	19
250,391	277,748	793,381	39,995	62,801	43,740	5,091,557	38,258	7,708,423	2,578,611	746	345				393	13	20
47,249	21,413	73,787	2,838	9,093	2,939	457,073	2,257	750,338	281,038	69					69		21
260,042	250,335	719,594	37,157	53,705	40,771	4,624,484	31,091	6,958,058	2,297,573	677	345				204	13	22
22,966	10,655	201,347		9,829	49,694	30,901	172,083	745,093	592,107	3,905	3,540	108	176	150	21	759	23
188,416	153,850	851,932	3,475	37,670	224,025	886,121	28,230	2,894,515	1,080,158	608	165				443		24
102,802	115,527	278,315	410	20,448	28,195	333,287	5,073	995,590	656,330	180	40				140		25
85,814	85,332	572,717	3,065	17,222	195,830	552,834	22,293	1,895,916	1,233,810	428	125				303		26
605,496	657,183	5,757,624	650	17,383	752,870	17,232,481	2,004,008	30,909,601	11,733,112	31,609	20,949	46	667	425	9,522	7,285	27
193,044	128,420	1,612,857		7,222	288,637	3,038,400	111,188	5,763,078	2,613,400	2,120	1,619				436	787	28
747,772	214,618	2,906,244	386	17,099	1,358,382	4,631,100	647,233	13,299,412	8,020,983	6,579	1,538				5,041	30	29
223,053	145,932	1,519,980	3,598	30,184	359,773	3,607,393	143,412	7,852,504	4,011,099	3,380	1,625				1,458	752	30
66,433	20,064	178,872	3,598	12,091	83,820	843,021	13,859	1,400,486	552,066	619	50				494		31
156,620	125,868	1,341,114		18,093	275,963	2,853,772	129,553	6,443,018	3,459,693	2,761	1,675				904	752	32
21,422	6,454	145,144	1,857	13,544	3,406	85,950	14,097	341,057	241,610	121					121		33
9,644	1,708	15,422		3,240	9,932	7,712	50,042	32,398	32,398	38					38		34
11,778	4,740	129,722	1,857	10,304	1,105	76,015	6,385	201,615	206,212	83					83		35
45,603	3,482	111,717		9,551	321,450	13,729	584,340	249,161	249,161	211	170				41	25	36
1,148,117	894,790	7,233,590	9,261	1,907	25	5,167	724	31,056	25,165	8					8		37
20,457	6,653	246,434	471,562	261,233	615,842	18,171,496	193,036	34,810,822	10,452,320	4,404	630	60	167	114	3,433	96	38
1,117,126	887,331	11,364,030	6,046	10,490	7,080	269,579	8,704	695,515	417,172	161					151		39
91,814	51,740	545,958	147,789	70,929	2,317,856	30,730,778	441,785	52,424,235	21,251,672	16,574	7,270	1,214	38	2,719	5,333	2,055	40
8,800	600	57,134	588	7,878	14,537	887,024	30,148	1,814,304	888,132	1,028					1,028		41
335,361	173,085	1,593,128	49,021	32,427	321,437	1,759,458	77,578	5,886,356	4,049,320	2,861	1,815				1,540	758	42
99,796	84,414	417,345	12,448	32,351	13,384	1,113,942	16,140	2,062,710	932,019	396	94				14		43
2,779,770	1,117,085	19,211,106	1,142,633	316,402	3,692,229	80,983,207	1,934,048	129,594,962	47,577,707	34,159	15,165	5,404	200	362	13,028	11,147	44
52,974	23,900	522,624	2,777	60,613	599,854	368,475	593,568	2,113,741	1,145,412	631					1,362	60	45
77,796	88,708	1,105,526		10,000	139,273	3,231,247	97,242	5,177,070	1,849,190	3,780	2,100	450			880	1,095	46
119,551	29,030	90,553		57,304	1,891,218	43,436	2,580,171	615,517	615,517	149	30				110		47
743,944	362,330	1,931,084		4,784,967	3,708,482	419,100	14,712,904	10,525,382	7,835	6,027	388				820	905	48
339,417	377,626	1,347,811	158,643	25,735	97,661	1,845,058	51,300	4,916,351	3,019,924	1,025	668	120			237	1,515	49
6,448	18,737	160,779	6,200	18,430	5,235	251,472	4,190	593,568	337,900	134					134		50
103,083	20,105	1,645,933	223,603	7,876	104,699	2,067,244	58,314	5,732,924	3,607,366	14,154	7,473	20	1,386	3,053	2,222	214	51
447,493	230,670	2,708,767	30,443	117,020	213,308	7,078,198	135,603	12,625,323	5,411,522	11,515	6,925	15	84	305	4,186	555	52
925,899	995,451	7,610,041	101,642	98,717	1,072,132	6,532,701	376,062	23,442,547	16,533,784	12,676	2,165	35			170	10,306	53
195,228	144,605	2,625,147	181,600	48,533	76,140	2,275,617	243,624	7,125,060	4,005,819	11,653	6,731	105	180	4	4,573		54
57,151	78,022	1,234,974	104,948	20,980	40,957	1,528,742	99,878	4,148,008	2,519,388	3,084	467				2,451		55
138,077	66,643	1,390,173	10,742	27,597	35,183	746,875	143,746	2,977,052	2,086,431	8,669	6,274	165	8		2,122		56
127,310	140,372	637,417	650	77,313	51,859	2,894,468	31,648	4,015,343	1,584,237	903	125				778	53	57
166,396	183,189	1,258,277	13,362	78,571	67,572	3,108,276	44,852	5,958,805	2,805,077	628	159				430		58
33,120	9,048	87,397		5,171	1,724	176,592	2,202	393,894	215,100	24					20		59
99,524	184,774	941,505		42,382	58,150	2,199,496	35,892	4,242,700	2,007,312	443	159				259		60
22,011	28,618	108,810	11,032	13,745	3,460	287,609	2,555	607,812	317,647	41					41		61
11,741	9,749	120,565	630	17,273	4,229	444,579	4,202	714,399	265,618	120					120		62

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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	Mineral and soda waters.....	172	1,212	184	96	103	61	768	Jy 1,052	Ja 570	664	641	13	9	1	Dollars.
2	Mineral and carbonated waters..	166	1,201	176	96	103	61	765	Ja 1,052	Ja 570	661	638	13	9	1	4,170,421
3	All other.....	6	11	8	4	4	4	3	De 168	Ap 143	168	107	1			4,169,346
4	Minerals and earths, ground or otherwise treated.....	10	186	19	4	4	4	153	De 80	Mh 68	88	84	4			11,075
5	Mirrors, framed and unframed, not elsewhere specified.....	6	97	5	6	5	4	77	De 433	Ja 322	456	444	8	4		1,182,840
6	Models and patterns, not including paper patterns.....	77	514	100	18	6	15	375	De 3,128	So 2,794	3,128	2,064	377	49	38	211,715
7	Motorcycles, bicycles, and parts.....	8	3,444	3	126	165	150	3,000	De 3,133	Mh 110	133	108	14	10	1	588,442
8	Mucilage, paste, and other adhesives, not elsewhere specified.....	21	236	20	20	37	30	120	De 272	Ja 201	272	222	36	14		10,154,259
9	Musical instruments and materials, not elsewhere specified.....	25	304	22	17	6	13	246	De 155	Ja 128	155	145	10			1,177,306
10	Musical instruments, organs.....	5	166	3	12	3	7	141	De 2,394	Ja 1,885	2,394	2,215	114	57	8	472,119
11	Musical instruments, pianos.....	14	2,419	3	70	67	51	2,228	De 1,810	Ja 1,298	1,810	1,298	412	64	36	8,545,273
12	Musical instruments, piano and organ materials.....	21	1,682	9	51	16	25	1,681	De 1,695	Ja 1,258	1,723	1,220	403	64	36	3,707,883
13	Piano materials.....	15	1,593	5	38	15	25	1,510	De 1,695	Ja 1,258	1,723	1,220	403	64	36	3,438,653
14	Organ materials.....	6	89	4	13	1		71	Ap 75	Ja 63	87	78	9			269,240
15	Needles, pins, and hooks and eyes.....	7	1,492	1	42	34	40	1,375	De 1,658	Mh 1,217	1,370	482	856	13	19	4,337,347
16	Oil, not elsewhere specified.....	15	210	7	20	17	20	146	De 78	Mh 63	162	147	14	1		2,067,421
17	Animal oils.....	8	90	5	8	5	4	68	De 84	Mh 72	78	69	14	1		1,197,922
18	Mineral and composite oils.....	7	120	2	12	16	7	78	De 411	Fe 252	399	331	54	4	10	889,499
19	Oldcloth, enameled.....	4	375		20	7	6	342	De 4,373	Jy 3,683	4,375	2,294	1,849	123	109	2,691,690
20	Optical goods.....	29	4,744	15	219	189	239	4,082	De 3,937	Je 902	4,375	2,294	1,849	95	1	8,636,378
21	Ordinance and accessories.....	4	2,004	128	421	250	1,905	1,969	Ja 2,208	Mh 250	2,080	1,984	95	1		22,690,853
22	Paints.....	19	418	2	36	78	27	275	De 13,223	Fe 11,057	14,115	10,498	3,671	8	38	2,223,528
23	Paper and wood pulp.....	78	14,524	22	432	613	497	12,960	De 13,223	Fe 11,057	14,115	10,498	3,671	8	38	88,302,299
24	Paper exclusively.....	74	13,602	22	408	589	483	12,100	De 13,223	Fe 11,057	13,245	9,701	3,498	8	38	81,765,700
25	All other.....	4	922	24	24	14	880	860	Fe 914	No 834	870	797	73			6,536,599
26	Paper goods, not elsewhere specified.....	44	2,307	17	93	82	146	1,969	De 2,180	My 1,838	2,126	1,390	674	10	52	3,767,063
27	Patent medicines and compounds.....	97	1,072	56	115	118	179	604	No 523	Je 375	650	397	250	7	5	5,394,296
28	Patent and proprietary medicines.....	58	760	30	78	83	137	432	Ja 193	Mh 130	494	278	207	5	4	3,878,191
29	Patent and proprietary compounds, not elsewhere specified.....	39	312	26	37	35	42	172	Ja 193	Mh 130	165	119	43	2	1	1,506,105
30	Paving materials.....	27	725	11	37	22	7	648	So 848	Fe 320	671	671				1,262,736
31	Perfumery and cosmetics.....	18	142	11	17	10	10	87	Ja 95	Fe 80	88	26	58	4		571,230
32	Photo-engraving.....	26	577	16	44	54	41	422	No 477	Ja 372	482	442	27	13		729,787
33	Photographic materials.....	5	55		4	1	1	50	Jy 53	Fe 47	54	32	13	9		172,623
34	Pickles, preserves, and sauces.....	33	645	18	43	63	41	480	De 466	Mh 395	524	268	243	9	4	3,100,885
35	Preserves.....	18	575	6	39	61	39	430	De 466	Mh 395	400	237	223	5	4	2,967,554
36	Pickles and sauces.....	15	70	12	4	2	2	50	Jy 69	Ja 38	55	31	20	4		133,341
37	Plated ware.....	7	554	2	16	26	41	469	No 514	Ja 412	498	451	41	5	1	704,940
38	Plumbers' supplies, not elsewhere specified.....	12	573	3	28	50	32	460	De 554	Ap 404	555	507	36	11	1	1,161,676
39	Pocketbooks.....	10	442	12	17	18	14	381	De 434	Ja 308	434	116	301	3	14	704,537
40	Pottery.....	8	178	5	9	7	8	149	De 434	Ja 308	157	131	23	3		446,619
41	China, earthen, and stone ware.....	5	157	2	8	7	7	133	Oc 146	Ja 123	139	122	14	3		430,796
42	All other.....	3	21	3	1	1	1	16	No 18	Se 14	18	9	9			15,823
43	Printing and publishing, book and job.....	768	11,102	705	598	890	1,275	7,634	De 7,246	Ja 6,217	8,261	5,866	2,125	220	50	31,978,693
44	Job printing.....	698	8,363	652	412	227	398	6,674	De 7,246	Ja 6,217	7,290	5,189	1,849	204	48	14,108,795
45	Book publishing and printing.....	10	1,402	19	53	286	298	746	Je 781	Jy 692	753	538	207	7	1	8,222,937
46	Book publishing without printing.....	51	1,107	28	119	370	573	17	Ja 18	Oc 15	18	11	5	2		9,297,943
47	Linotype work and typesetting.....	9	230	6	14	7	6	197	My 204	Au 188	200	128	64	7	1	348,998
48	Printing and publishing, music.....	15	325	13	17	75	78	142	Ja 18	Oc 15	142	110	26			1,190,277
49	Printing and publishing.....	4	162	2	5	10	5	140	No 144	Ja 133	140	114	26			442,571
50	Publishing without printing.....	11	163	11	12	65	73	2	(*) 2	(*) 2	2	2				747,706
51	Printing and publishing, newspapers and periodicals.....	412	10,405	188	635	2,072	1,625	5,885	Oc 3,608	Ja 3,316	3,584	3,043	302	142	7	13,223,657
52	Printing and publishing.....	64	5,385	32	179	1,047	661	3,466	De 2,150	Ja 1,961	3,584	1,674	436	60	3	7,047,821
53	Printing, publishing, and job printing.....	164	3,047	101	228	286	401	2,031	De 2,150	Ja 1,961	2,173	1,043	436	60	3	2,892,673
54	Publishing without printing.....	184	1,973	55	228	739	563	388	My 404	Ja 373	398	360	33	5		125,066
55	Printing materials.....	4	42		10	4	3	25	So 29	Fe 21	29	29				362,708
56	Pulp goods.....	4	90	1	10	3	2	74	Oc 88	Fe 50	87	81	4	2		10,961,491
57	Pumps, steam.....	7	2,690	1	92	174	143	2,280	Ja 2,881	Jy 1,959	2,057	1,969	86	2		219,398
58	Refrigerators.....	10	132	8	15	13	3	93	Ap 101	Au 81	83	83				228,051
59	Regalia, and society badges and emblems.....	7	134	5	8	6	12	103	Fe 121	Mh 87	101	47	54			4,498,021
60	Roofing materials.....	8	906	2	37	96	76	695	So 800	Ap 610	698	674	23	1		64,948,481
61	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	47	12,185	7	530	1,404	838	9,406	De 10,804	Ja 7,728	10,964	9,336	1,520	62	46	405,457
62	Saddlery and harness.....	15	168	12	9	2	5	140	My 148	Fe 132	138	121	16	1		1,026,753
63	Sausage, not made in slaughtering and meat-packing establishments.....	56	443	50	19	49	13	306			321	309	10	2		954,549
64	Sausage.....	49	384	49	19	36	13	270	De 287	Jy 262	284	274	8	2		72,204
65	Sausage casings.....	7	59	10		13		36	Ja 37	Ap 35	37	35	2			3,636,048
66	Saws.....	15	1,018	12	33	141	77	753	Da 889	Je 677	891	781	109		1	2,068,478
67	Screws, machine.....	23	1,050	9	40	9	29	593	Ja 701	Oc 500	696	570	83	41	2	3,195,478
68	Screws, wood.....	3	1,063	2	74	50	91	848	De 1,119	Jy 762	1,119	938	160	15	6	4,528,910
69	Sewing machines and attachments.....	7	1,002	2	27	39	41	893	De 1,003	Fe 820	1,003	932	59	10	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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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]

⁴ Same number reported for one or more other months.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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	Shipbuilding, wooden, including boat building.	55	1,073	50	41	31	23	928			582	581	1			Dollars. 2,573,663
2	New vessels.	14	848	9	27	27	13	772	Ja 1,150	Se 402	429	429				2,043,818
3	Repair work only.	19	107	17	9	1	3	77	Ja 131	De 62	64	64				311,819
4	Small boats.	17	90	19	4	3	5	59	Je 78	Ja 41	68	68				111,680
5	Masts, spars, oars, and rigging.	5	28	5	1		2	20	Se 23	Ja 16	21	20	1			106,376
6	Shirts.	12	1,153	10	22	16	15	1,090	De 1,146	Au 1,016	1,146	177	962	1	6	1,063,069
7	Show cases.	8	63	8	3	2	4	40	Jy 50	Ja 41	43	41	1			147,059
8	Signs and advertising novelties.	21	395	12	29	23	22	309	Jy 159	Ja 112	357	223	102	4	28	517,028
9	Electric and other signs.	15	199	8	22	13	12	144	De 210	Fe 140	147	135	10	1	1	261,860
10	Advertising novelties.	6	196	4	7	10	10	165			210	88	92	3	27	255,159
11	Silk goods, including throwsters.	21	6,141	14	139	178	113	5,697			6,813	2,518	3,880	131	284	26,614,191
12	Finished products.	15	4,499	10	90	167	89	4,143	De 4,554	Ja 3,634	4,590	1,378	2,843	110	259	20,251,004
13	Throwsters and winders.	6	1,642	4	49	11	24	1,554	De 2,223	Fe 956	2,223	1,140	1,037	21	25	6,363,187
14	Silversmithing and silverware.	18	2,180	7	61	114	122	1,876	Oc 2,038	Ja 1,501	2,035	1,595	365	51	24	8,058,938
15	Slaughtering and meat packing.	40	4,926	33	87	391	108	4,307	Ja 5,354	No 1,501	3,981	3,868	105	8		42,216,147
16	Soap.	27	1,583	13	108	264	185	1,008	No 1,274	Ap 786	1,180	783	370	10	26	14,902,772
17	Sporting and athletic goods.	14	1,582	6	58	50	71	1,397	De 1,681	Ja 1,123	1,684	1,178	444	47	15	4,553,109
18	Springs, steel, car and carriage, not made in steel works or rolling mills.	7	77	8	9	6	3	51			58	58				192,953
19	Automobile.	4	23	2	3	4	2	12	No ¹ 16	Ja ² 9	17	17				85,504
20	All other.	3	54	6	6	2	1	39	Ja ² 41	Ap 36	41	41				107,449
21	Stamped ware, not elsewhere specified.	19	807	6	67	28	30	670	De 800	My 611	806	730	51	23	2	1,996,086
22	Stationery goods, not elsewhere specified.	30	4,232	14	199	389	325	3,305	De 3,628	Ap 3,077	3,628	1,402	2,092	44	90	8,878,995
23	Statuary and art goods.	11	81	11	6		2	62	De 69	Ja 55	69	69				104,139
24	Steam fittings and steam and hot-water heating apparatus.	23	4,885	12	218	281	853	3,521	De 3,002	Jy 3,121	3,904	3,694	108	12		12,383,986
25	Steam packing.	9	147	5	17	17	13	95	No 123	My 79	106	83	22	1		415,602
26	Stencils and brands.	12	47	11	5	2	1	28	De 33	Ja ² 25	33	33				49,453
27	Stereotyping and electrotyping.	9	250	7	17	11	11	204	De 227	Ja 179	226	202	16	8		296,680
28	Stoves and hot-air furnaces.	15	1,567	2	50	79	44	1,386			1,561	1,543	5	13		4,757,077
29	Stoves and ranges.	12	1,550	1	53	79	42	1,375	De 1,549	Fe 1,242	1,549	1,531	5	13		4,057,683
30	Hot-air furnaces.	3	17	1	3		2	11	Je 14	Ap 8	12	12				90,394
31	Stoves, gas and oil.	4	526		30	47	44	405	De 525	My 314	525	478	31	10	6	1,557,390
32	Structural ironwork, not made in steel works or rolling mills.	55	1,498	36	119	93	62	1,188	De 1,314	Je 1,035	1,312	1,308	3	1		4,586,886
33	Surgical appliances.	14	755	8	28	30	80	609	Ja 943	My 464	578	258	286	5	20	3,744,244
34	Suspenders, garters, and elastic woven goods.	29	3,317	19	118	99	116	2,965	De 3,282	Fe 2,733	3,282	1,020	2,130	27	105	10,155,302
35	Textile machinery and parts.	116	10,378	71	490	861	543	17,413	Oc 19,297	Ap 15,399	19,254	17,914	1,058	252	30	76,759,604
36	Tinware, not elsewhere specified.	16	1,051	13	33	47	43	915	Ja 988	My 856	943	750	183	10		3,713,249
37	Tobacco, cigars and cigarettes.	262	3,418	277	83	77	35	2,946			4,698	3,563	1,132	2	1	6,097,133
38	Cigars.	254	3,380	272	81	77	33	2,923	Fe 3,389	Jy 1,358	4,076	3,550	1,123	2	1	5,944,976
39	Cigarettes.	8	32	5	2		2	23	Ap ² 24	Oc ² 21	22	13	9			152,158
40	Tobacco, smoking, and snuff.	7	43	5	5	2	1	30	De 30	My 26	36	23	12	1		184,610
41	Tools, not elsewhere specified.	117	8,552	90	339	397	491	7,226			7,575	6,637	773	113	52	32,682,525
42	Machinists' tools.	40	4,403	28	123	157	305	3,790	De 3,910	My 3,710	3,898	3,327	463	62	46	19,546,867
43	All other.	77	4,149	71	216	240	186	3,436	De 3,615	Je 3,348	3,677	3,310	310	51	6	13,135,658
44	Toys and games.	30	1,860	16	74	28	100	1,642	Jy 1,886	Ja 1,260	1,655	843	637	73	102	3,723,134
45	Trunks and valises.	26	1,753	28	35	47	29	614	Se 702	Ja 504	684	480	180	12	12	1,487,314
46	Umbrellas and canes.	7	71	8	3	4	6	50	No ² 82	Ja 201	83	37	45	1		169,215
47	Upholstering materials, not elsewhere specified.	6	164	5	10	2	8	139			170	167	3			1,269,640
48	Imitation leather and leatheroid.	3	133		9	1	7	116	De 148	Je 97	148	147	1			1,203,944
49	All other.	3	31	5	1	1	1	23	Ja 27	Jy 20	22	20	2			65,696
50	Varnishes.	14	556	3	52	119	66	316	Fe 342	Jy 277	306	272	34			4,007,926
51	Vinegar and cider.	75	204	86	11	5	13	89			215	173	39	3		820,402
52	Vinegar.	6	35	6			4	25	Oc 47	Ja ² 15	25	24				348,518
53	Cider.	69	169	80	11	5	9	64	Oc 162	Ap 30	190	149	39	2		471,884
54	Waste.	6	144	2	16	3	9	114	No 124	Jy ² 107	118	88	30			1,067,093
55	Watch and clock materials, except watch cases.	6	261	7	4	2	12	236	No 266	Ja 214	259	60	180	8	2	402,039
56	Whips.	15	804	16	22	100	40	626	De 651	Ap 604	651	431	102	15	13	2,322,365
57	Window and door screens and weather strips.	17	88	16	3	5	4	60			51	48	2	1		171,927
58	Window and door screens.	13	84	15	3	5	3	58	Jy 95	Fe 35	48	45	2	1		160,590
59	Weather strips.	4	4	1			1	2	Ja ² 3	Ap ² 1	3	3				11,337
60	Window shades and fixtures.	11	91	10	5	7	1	68	De 83	Se 55	83	60	21	1	1	295,584
61	Wire.	9	5,715	4	89	239	180	5,203	De 5,905	Je 4,910	5,905	5,525	325	37	18	22,027,351
62	Wirework, not elsewhere specified.	27	1,700	13	53	82	82	1,470	Ja 1,569	Jy 1,396	1,562	1,074	405	50	23	6,286,191
63	Wood, turned and carved.	46	832	47	19	11	13	742	De 786	Je 698	786	699	42	45		1,387,217
64	Wooden goods, not elsewhere specified.	15	400	16	17	14	12	341	Ap ² 349	Se 333	348	320	23	5		1,011,261

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—MASSACHUSETTS.

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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	

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

Dollars. 127,831	Dollars. 43,752	Dollars. 1,401,973	Dollars. 4,657	Dollars. 24,166	Dollars. 64,160	Dollars. 1,954,938	Dollars. 22,783	Dollars. 4,101,573	Dollars. 2,213,852	2,074	653	251	1,170	1			
97,041	30,749	1,210,331	4,589	13,729	55,956	1,765,644	15,286	3,653,598	1,872,668	1,549	473	115	961	2			
22,796	2,733	97,859	68	6,402	5,748	84,186	4,406	251,580	102,928	348	180	98	70	3			
7,175	4,546	73,431		3,183	1,431	70,672	1,433	200,732	128,727	112		38	74	4			
820	1,724	20,352		702	1,025	34,536	1,598	85,663	49,529	65			65	5			
36,889	24,303	781,207	77,998	12,702	04,481	2,847,727	10,899	5,107,697	2,243,077	407	365		42	6			
9,434	8,608	59,448	184	5,102	803	183,052	4,351	290,872	100,409	117		25	92	7			
70,772	80,426	318,041	12,049	20,486	8,226	336,434	7,070	1,059,602	717,152	198			198	8			
60,722	37,199	193,509	11,541	14,742	5,120	159,834	3,190	633,983	470,059	61			61	9			
20,050	52,227	124,442	1,108	5,744	3,106	175,000	3,886	425,679	246,193	137			137	10			
674,927	560,575	5,039,801	1,370,674	15,689	707,824	19,000,721	242,762	34,193,961	14,950,408	0,811	2,469	660	1,749	11			
472,828	501,543	3,576,700	1,344,488	11,202	525,643	13,073,326	152,567	25,810,966	11,985,073	0,354	1,609	635	1,200	12			
102,099	59,032	1,462,901	26,186	4,307	272,181	5,327,395	90,195	8,382,985	2,965,395	3,457	860	25	450	13			
273,830	422,032	1,976,151	5,114	18,974	141,881	3,732,485	98,099	8,494,941	4,053,757	1,843	1,070		200	14			
350,184	686,928	5,391,004	109,110	55,750	542,061	100,653,710	581,030	110,238,038	9,002,698	8,050	3,345	410	14	15			
367,966	391,135	984,138		22,807	1,104,860	10,847,792	325,440	18,729,572	7,556,340	2,785	597			16			
131,948	153,533	1,247,570	41,912	6,789	106,803	2,938,946	64,556	5,774,346	2,770,844	1,012	520	14	300	17			
24,448	6,065	00,058		3,438	1,707	77,408	6,887	210,569	132,274					18			
5,424	2,454	13,947		1,478	258	40,690	1,728	73,975	31,557	53			53	19			
19,024	3,611	46,111		1,900	1,530	30,718	5,159	142,594	100,717	103			103	20			
272,193	69,310	764,775	836	29,057	91,885	1,042,138	3,442	2,089,607	1,550,027	903	280		653	21			
760,453	1,089,209	2,019,462	89,484	93,075	700,378	7,107,757	97,260	15,161,819	7,896,802	1,500	365	18	907	22			
11,180	1,970	84,826	1,318	8,259	3,174	44,435	1,080	208,295	162,780	13			13	23			
675,504	566,585	3,967,954	1,907	14,058	609,683	5,130,372	307,743	13,472,559	6,028,444	4,795	1,254	1	3,540	24			
70,562	40,342	107,558		3,380	15,233	346,099	15,512	688,380	323,878	178	55		123	25			
12,287	3,395	27,588		6,788	1,091	22,770	1,570	109,178	81,832	17			17	26			
62,903	19,806	245,310		18,249	2,809	126,734	18,527	646,364	502,103	564			564	27			
209,666	230,932	1,785,095		5,013	176,310	1,550,900	119,952	5,677,181	3,906,329	2,420	1,002		1,417	28			
203,806	229,934	1,771,435		4,305	175,718	1,515,005	110,313	5,509,499	3,874,281	2,418	1,002		1,400	29			
5,860	998	13,090		648	592	34,995	639	67,882	32,148	11			11	30			
123,872	92,330	475,532		4,483	126,393	592,579	19,489	1,934,267	1,322,199	544	148		306	31			
444,072	223,282	1,509,096	43,671	34,700	138,433	3,251,533	95,038	6,086,528	3,399,627	2,464	480	150	1,824	32			
145,669	118,247	581,904	85,432	25,834	42,012	4,302,308	43,312	6,571,631	2,225,911	728	300		428	33			
581,716	313,490	2,469,532	142,534	43,355	97,450	8,214,920	136,105	14,971,000	6,620,505	1,956	1,133	40	783	34			
2,209,299	1,545,893	20,712,227	81,003	66,712	3,655,076	22,633,109	844,263	65,901,370	42,423,998	22,402	12,134	1,250	230	35			
95,563	102,657	968,389		37,718	160,422	2,539,196	27,425	4,589,881	2,023,260	434	120		308	36			
200,303	136,435	3,327,209	545	97,510	1,429,907	4,896,169	20,298	11,560,443	6,703,986	172			148	37			
197,716	135,425	3,308,947	545	93,475	1,406,303	4,707,002	19,876	11,302,648	6,636,470	165			141	38			
2,837	1,010	29,202		4,035	24,004	128,557	422	197,495	68,516	7			7	39			
19,490	3,400	27,153		2,540	74,870	126,921	1,209	339,021	202,701	143	25		100	40			
1,234,400	1,117,273	8,393,949	58,873	82,022	2,862,462	7,456,743	530,674	20,158,834	21,171,417	14,607	2,030	102	1,713	41			
375,153	555,846	4,321,030	45,424	29,328	2,002,238	3,208,251	208,636	15,084,676	11,607,789	5,293	1,600	35	498	42			
659,243	581,427	4,042,919	13,440	52,694	850,224	4,248,492	322,038	14,074,158	9,503,628	9,314	1,330	650	1,215	43			
271,535	135,063	1,100,781	20,699	19,680	110,310	1,841,005	51,470	4,704,280	2,811,185	1,716	610		185	44			
106,558	133,687	541,587	1,105	29,690	64,532	1,842,242	7,000	3,206,473	1,350,322	88			88	45			
3,915	4,219	38,832		5,900	1,549	272,108	2,002	4,436,290	180,460	63			63	46			
37,585	8,769	157,303		1,867	33,354	917,400	39,290	1,467,640	510,971	766	135		187	47			
35,985	6,519	136,030		667	32,390	867,979	34,966	1,375,055	472,110	644	90		167	48			
1,600	2,240	21,278		1,200	964	49,421	4,303	92,585	38,861	122	45		20	49			
276,919	300,279	302,083		4,421	380,194	3,569,244	31,802	6,159,190	2,558,153	557	9		548	50			
27,300	12,143	99,405	346	4,022	21,500	706,931	14,205	1,263,002	542,766	1,140	299	249	317	51			
27,300	2,772	31,456		112	1,969	252,870	3,282	384,065	127,913	140	110		30	52			
27,300	9,371	67,049	346	3,010	10,531	454,001	10,023	670,837	414,853	1,000	189	249	317	53			
84,629	12,564	101,987		13,775	11,141	1,408,090	17,487	1,751,743	325,296	770	225		375	54			
6,356	10,047	166,494	340	615	4,569	67,013	8,229	339,027	263,785	53			6	55			
111,587	303,684	496,012	12,287	15,579	938,809	28,793	2,685,313	1,717,711	750	130	40	35	545	56			
5,980	9,664	55,596	100	4,222	49,858	78,529	4,050	202,753	120,174	231	70	60	61	57			
6,980	9,144	53,232	100	3,062	1,879	74,270	3,707	192,311	114,334	221	70	58	40	58			
520	2,304	2,304		1,160	72	4,250	343	10,442	5,840	10		2		59			
11,453	11,890	60,650	493	4,196	1,982	340,994	2,169	542,033	189,870	166			130	60			
409,217	737,190	7,359,007	4,380	40,222	469,923	10,774,689	1,099,930	24,552,410	12,678,791	24,799	7,577	2,210	14,812	61			
217,034	220,270	1,308,578	1,015	20,003	153,413	1,613,009	33,454	4,518,865	2,812,402	1,099	1,122	4	573	62			
84,333	29,101	612,245	696	9,514	61,861	953,336	15,476	2,250,046	1,264,234	1,979	1,187	71	315	63			
40,876	28,216	338,436	1,457	7,233	31,762	602,840	14,162	1,331,738	714,746	1,682	1,107	12	430	64			

* Same number reported for one or more other months.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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	Wool scouring.....	13	1,074	4	43	9	6	1,012	De 1,195	Mh 758	1,195	1,161	34	.....	2,679,702
2	Wool shoddy.....	23	740	16	53	32	16	623	De 677	Fe 578	711	609	65	2	4,731,554
3	Woolen goods.....	111	18,064	50	625	202	219	17,568	Se 20,235	Fe 12,544	20,242	13,950	5,833	241	77,465,511
4	Worsted goods.....	71	37,997	32	789	385	495	36,296	De 43,872	Fe 23,755	43,245	22,629	17,905	1,124	190,358,441
5	All other industries *.....	172	40,616	66	899	1,668	1,197	36,786	.....	.....	.....	.....	.....	.....	145,814,475

* All other industries embrace—	Candles.....	2	2	Coke, not including gas-house coke..	1	Files.....	3
Aeroplanes, seaplanes, and airships, and parts.....	Canning and preserving, fruits.....	2	2	Collars and cuffs, men's.....	1	Fire extinguishers, chemical.....	2
Agricultural implements.....	Cardboard, not made in paper mills.....	2	2	Condensed milk.....	2	Fireworks.....	5
Artificial flowers.....	Cars, steam-railroad, not including operations of railroad companies.....	2	2	Crucibles, graphite.....	1	Furs, dressed.....	2
Asbestos products, not including steam packing.....	Cash registers and calculating machines.....	3	3	Dairymen's and poultrymen's supplies.....	4	Galvanizing.....	2
Babbitt metal and solder.....	Charcoal, not including production in the lumber and wood distillation industries.....	2	2	Drug grinding.....	4	Gas machines and gas and water meters.....	3
Baking powders.....	Cheese.....	1	1	Engines, steam, gas, and water.....	4	Glass.....	1
Bluing.....	Chewing gum.....	2	2	Engravers' materials.....	3	Gloves and mittens, cloth, not including gloves made in textile mills.....	2
Bone black and lampblack.....	.....	1	1	Engraving, wood.....	1	Glucose and starch.....	1
Butter, reworking.....	.....	2	2	Explosives.....	2	.....	.....
.....	.....	1	1	Fertilizers.....	2	.....	.....

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

1	BOSTON—All industries.....	3,077	110,713	2,436	4,691	8,205	6,622	88,759	De 93,522	Je 85,220	95,495	62,165	30,113	1,349	1,803	351,261,054
2	Artificial limbs.....	6	38	3	5	3	3	24	Au 27	De 20	20	20	.....	.....	.....	96,631
3	Artificial stone products.....	4	32	4	4	4	2	68	Se 72	Je 66	66	66	.....	.....	.....	129,197
4	Automobile bodies and parts.....	22	320	16	18	16	13	257	De 304	Ja 218	305	303	2	.....	.....	631,021
5	Automobile repairing.....	32	779	16	14	44	21	684	Je 738	Fe 574	707	691	15	1	.....	795,672
6	Awning, tents, and sails.....	21	226	19	16	8	15	168	Je 236	Fe 119	150	94	56	.....	.....	442,982
7	Balting, leather.....	3	64	.....	10	10	5	39	No 42	Ap 35	40	38	1	1	.....	552,552
8	Blacking, stains, and dressings.....	14	194	10	14	42	14	114	Se 119	Ja 97	121	75	43	1	2	603,778
9	Bookbinding and blank-book making.....	52	1,412	40	57	52	61	1,212	No 1,265	Ja 1,135	1,275	524	703	31	17	1,330,925
10	Boot and shoe cut stock.....	23	1,122	14	50	53	28	977	Jy 1,059	Ja 922	920	780	53	75	3	10,661,723
11	Boot and shoe findings.....	20	501	7	40	27	19	408	Se 447	Ja 345	425	243	172	0	4	1,528,005
12	Boots and shoes, not including rubber boots and shoes.....	14	7,097	2	136	310	503	6,146	My 6,941	Je 4,803	6,473	3,095	2,015	377	386	18,789,753
13	Boxes, set-up paper boxes and cartons.....	21	1,077	15	48	9	34	971	No 1,059	Ja 839	1,066	268	697	18	83	1,148,835
14	Brass, bronze, and copper products.....	24	270	20	21	6	5	218	De 237	My 205	237	237	.....	.....	.....	448,238
15	Bread and other bakery products.....	306	3,588	318	50	334	88	2,798	De 2,979	Ja 2,613	2,986	1,977	996	6	7	4,988,685
16	Brushes.....	10	815	9	23	24	37	722	De 848	Ap 617	850	377	473	.....	.....	3,103,109
17	Buttons.....	5	31	5	1	.....	4	21	My 27	Fe 15	21	7	14	.....	.....	11,487
18	Canning and preserving, fish.....	6	137	2	8	7	5	115	Oc 167	Ja 95	122	67	53	.....	2	361,936
19	Carriages and wagons, including repairs.....	8	210	8	11	7	3	181	Mh 205	Ja 144	178	178	.....	.....	.....	234,102
20	Cars and general shop construction and repairs by steam-railroad companies.....	6	1,955	.....	40	51	4	1,860	Fe 1,947	Au 1,809	1,923	1,885	38	.....	.....	1,856,997
21	Chemicals.....	7	91	2	12	11	11	55	De 81	Ja 33	81	62	18	1	.....	420,420
22	Chocolate and cocoa products.....	3	1,823	.....	25	111	43	1,644	Jy 1,795	My 1,480	1,543	1,103	429	1	10	11,515,501
23	Cleansing and polishing preparations.....	14	71	6	8	14	12	81	.....	.....	31	22	8	1	.....	340,909
24	Metal polish.....	6	29	3	1	6	5	14	Ja 15	Je 12	13	5	7	1	.....	33,379
25	All other.....	8	42	3	7	8	7	17	Jy 18	Au 15	18	17	1	.....	.....	307,530
26	Clothing, men's.....	162	5,190	193	126	209	126	4,536	.....	.....	5,128	2,695	2,390	8	35	15,535,105
27	Men's and youths'.....	52	2,918	59	84	154	75	2,546	Oc 2,923	Ja 1,943	2,917	1,725	1,172	3	17	8,883,284
28	All other.....	37	1,178	39	42	54	48	995	De 1,137	Ja 834	1,155	393	748	2	12	6,511,563
29	Contract work.....	73	1,094	95	.....	1	3	995	De 1,050	Je 940	1,056	577	470	3	6	140,318
30	Clothing, women's.....	173	4,580	201	146	182	169	3,882	.....	.....	3,913	1,080	2,770	1	56	6,501,383
31	Suits, skirts, and cloaks.....	39	937	53	26	40	35	783	Oc 882	Ja 655	799	504	233	.....	2	1,503,337
32	Shirt waists, dresses, and wrap-pers.....	62	2,227	70	67	93	83	1,914	Mh 2,046	De 1,692	1,777	278	1,468	.....	31	2,749,079
33	Undergarments and petticoats.....	21	513	23	16	16	20	438	De 490	Ja 303	490	67	409	.....	14	1,347,546
34	All other.....	36	787	36	36	32	27	656	Oc 743	Ja 530	755	113	633	.....	9	894,632
35	Contract work.....	15	116	19	1	1	4	91	No 118	Je 64	92	64	27	1	.....	16,789
36	Coffee and spice, roasting and grinding.....	14	785	15	36	197	56	481	Au 521	Mh 449	516	315	194	.....	7	5,436,919
37	Confectionery and ice cream.....	68	9,438	47	343	398	392	8,258	.....	.....	8,385	2,343	5,035	172	835	18,859,508
38	Confectionery.....	54	9,318	35	338	397	388	8,160	Oc 8,952	Jy 7,196	8,300	2,262	5,031	172	835	18,348,563
39	Ice cream.....	14	120	12	5	1	4	98	Jy 121	Ja 83	85	81	4	.....	.....	510,945
40	Copper, tin, and sheet-iron work.....	50	1,172	51	99	104	104	814	De 936	My 744	940	895	32	11	2	2,144,093
41	Cordials and flavoring sirups.....	8	94	3	12	11	15	58	Au 60	Se 39	51	31	20	.....	.....	622,869
42	Cotton goods.....	9	943	1	36	22	10	874	De 893	Oc 853	896	385	446	34	31	4,591,709
43	Druggists' preparations.....	9	2,141	2	81	229	432	1,397	Fe 1,706	Au 1,168	1,517	728	785	3	3	14,650,290
44	Dyestuffs and extracts—natural.....	11	109	6	16	19	11	57	De 67	Ja 47	59	59	.....	.....	.....	655,085
45	Electrical machinery, apparatus, and supplies.....	32	3,084	12	127	211	209	2,525	Ja 2,879	Se 2,804	2,627	1,618	971	33	5	9,381,839
46	Electroplating.....	21	137	24	3	6	5	99	De 124	Ja 80	124	117	1	6	.....	96,961
47	Engraving and disinking.....	14	87	14	1	5	6	61	De 64	Ja 57	65	52	7	6	.....	69,280
48	Engraving, steel and copper plate, including plate printing.....	17	400	11	14	13	25	337	Oc 417	Fe 299	358	154	165	16	23	355,869

* 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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10,330,158	20,452,238	96,401,002	9,300,340	5,380,604	20,814,410	343,354,555	9,251,336	618,021,002	269,316,071	101,004	39,042	4,187	1,398	595	56,432	10,607	Y
7,221	6,258	21,817	.....	4,407	350	21,388	1,081	90,186	67,719	24	.....	.....	.....	.....	24	.....	1
9,820	5,940	90,373	.....	4,080	3,820	139,089	3,454	288,067	154,624	100	.....	.....	10	.....	29	.....	2
70,563	26,184	326,074	3,385	32,442	9,607	306,144	10,669	917,778	504,965	265	.....	.....	.....	.....	96	.....	3
35,026	91,564	629,598	5,712	31,154	49,424	774,160	23,313	2,644,072	1,746,590	300	.....	.....	9	.....	265	.....	4
33,289	24,837	156,264	30	20,606	9,754	501,042	3,281	877,334	373,011	55	.....	.....	.....	.....	55	.....	5
77,737	27,439	106,801	.....	15,079	18,079	1,125,822	2,627	1,455,088	326,339	55	.....	.....	.....	.....	55	.....	6
104,314	91,576	106,801	.....	15,279	32,551	729,800	12,867	1,402,007	650,850	228	145	.....	.....	.....	83	10	7
146,730	115,090	1,033,428	5,680	94,403	17,047	853,009	24,245	2,786,086	1,000,132	620	.....	.....	.....	.....	520	.....	8
371,551	181,139	974,218	3,331	100,200	202,184	30,343,332	54,238	35,443,382	5,013,812	634	245	.....	.....	.....	389	4	9
133,464	61,808	364,145	1,826	40,080	45,183	2,187,773	30,124	3,450,700	1,238,893	680	250	.....	.....	.....	436	100	10
716,985	1,023,808	6,293,718	90	70,918	538,524	10,028,460	120,008	27,526,886	11,372,418	3,762	1,250	.....	.....	.....	2,512	600	11
122,468	63,280	684,715	.....	69,934	70,896	924,254	20,104	2,313,635	1,369,277	474	150	.....	.....	.....	324	54	12
72,721	13,539	304,086	3,718	19,646	20,895	691,296	34,086	1,410,098	654,716	244	50	.....	8	.....	186	.....	13
244,454	600,430	2,987,285	184	371,789	394,272	12,589,383	307,334	21,680,032	3,783,915	2,413	1,260	.....	15	.....	1,138	1,260	14
163,028	96,481	603,134	10,532	23,811	186,205	1,847,337	28,558	1,601,597	1,025,702	522	610	.....	.....	.....	12	344	15
1,590	2,236	14,897	.....	2,870	176	4,900	196	44,273	30,177	5	.....	.....	.....	.....	5	.....	16
19,990	15,190	98,035	.....	7,100	4,700	554,480	8,206	787,323	224,577	125	46	.....	22	.....	57	.....	17
33,878	12,015	213,365	16	12,294	3,350	172,093	11,613	543,943	359,937	156	25	.....	45	.....	86	.....	18
96,924	72,696	2,600,623	.....	14,896	1,851,059	91,996	4,728,105	2,785,110	700	312	.....	.....	6	.....	352	113	19
22,227	20,264	67,081	.....	21,497	4,058	220,914	11,020	357,085	119,151	467	.....	.....	.....	.....	467	.....	20
271,969	389,097	1,677,518	1,463	37,260	729,824	18,874,202	205,678	24,277,494	5,197,714	3,940	2,150	.....	150	.....	1,346	31	21
30,443	50,297	31,330	2,807	5,915	10,316	278,376	1,595	672,773	392,802	55	.....	.....	.....	.....	55	.....	22
2,800	12,830	1															

* Same number reported for one or more other months.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

BOSTON—Continued.															Dollars.	
1	Fancy articles, not elsewhere specified.	15	235	12	16	28	29	150			187	46	134	1	0	392,821
2	Metal and paper novelties.	8	183	7	9	24	27	116	Oc 155 Ja 91	140	29	104	1	0		300,675
3	All other.	7	52	5	7	4	2	34	No 49 Ja 20	47	17	30				92,146
4	Flavoring extracts.	13	133	6	20	31	9	67	Oc 83 Ja 59	81	38	42	1			591,526
5	Food preparations, not elsewhere specified.	20	688	24	37	57	68	502		528	379	135	10	4		2,773,729
6	Breadstuffs, macaroni, vermicelli, and noodles.	12	239	13	12	8	13	193	No 209 Fe 178	207	171	25	0	2		1,078,812
7	All other.	17	449	11	25	49	55	309	Ja 410 Au 210	321	208	110	1	2		1,694,917
8	Foundry and machine-shop products.	141	8,463	78	399	583	416	6,987	No 237 Au 175	7,004	6,836	138	30			26,242,983
9	Boiler shops.	4	250	16	6	5	5	223	Ja 6,512 Jy 5,262	232	231	1				615,348
10	Machine shops.	128	6,918	75	324	534	383	5,002	De 1,259 Je 1,040	5,513	5,304	123	26			21,949,653
11	All other.	9	1,295	3	59	43	28	1,102	De 330 Mh 242	1,259	1,211	14	4			3,877,982
12	Fur goods.	18	364	18	15	37	12	282	De 235 Ja 178	330	158	171	1			1,090,087
13	Furnishing goods, men's, neckwear.	11	275	14	9	27	18	207		235	42	191	2			873,323
14	Furniture.	61	1,267	54	69	69	45	1,030	No 715 Ja 484	1,238	1,136	81	19	2		2,438,908
15	Wood, other than rattan and willow.	45	756	46	38	35	20	617		713	671	35	7			1,236,322
16	Rattan and willow.	5	118	2	9	4	7	96	De 114 Fe 86	114	74	38	2			224,314
17	Metal.	4	147	2	7	16	5	117	No 125 Ja 101	124	112	2	8	2		383,567
18	Store and office fixtures.	7	246	4	15	14	13	200	De 287 My 117	287	279	6	2			594,703
19	Gas and electric fixtures.	4	35	3	2	2	1	27	No 32 Ja 24	33	31	1	1			66,348
20	Glass, cutting, staining, and ornamenting.	15	110	13	4	3	4	80	De 98 Ja 71	101	98	2	1			121,261
21	Glue, not elsewhere specified.	3	103		11	1	4	87	De 94 Se 78	94	94					1,677,208
22	Gold, leaf and foil.	5	40	6				34	Ap 36 Ja 30	36	26	10				31,294
23	Grease and tallow, not including lubricating greases.	3	187	1	11	13	5	157	De 175 Je 150	175	166	8	1			865,120
24	Hand stamps.	10	65	11	5	5	2	42	No 44 Fe 40	43	38	3	2			80,193
25	Hardware.	13	91	10	10	1	6	64	No 81 Ja 53	79	68	7	3	1		142,237
26	Hat and cap materials.	5	26	4	2		1	19	Je 21 Ja 15	21	12	4	3	2		18,891
27	Hats and caps, other than felt, straw, and wool.	31	464	43	15	30	24	352	Oc 380 Ja 319	375	257	111	5	2		850,338
28	House-furnishing goods, not elsewhere specified.	30	708	27	29	59	40	553		642	96	491	6	49		2,071,065
29	Mops and dusters.	5	76	1	6	5	5	59	Oc 70 Ja 45	65	21	44				97,627
30	All other.	25	632	26	23	54	35	494	No 578 Ja 409	577	75	447	6	49		1,973,428
31	Instruments, professional and scientific.	12	602	8	70	44	39	441		461	353	93	12	3		1,366,260
32	Medical and surgical.	4	330	2	55	34	28	211	De 227 Se 195	227	152	62	10	3		504,322
33	All other.	8	272	6	15	10	11	230	Fe 304 Mh 177	234	201	31	2			861,898
34	Iron and steel, tempering and welding.	9	43	6	8	1	4	24	Au 27 Mh 22	22	22					47,621
35	Jewelry.	32	298	35	7	25	33	198	De 231 Ja 180	231	208	16	7			800,821
36	Jewelry and instrument cases.	5	77	5	3	1	3	65	Se 105 Ja 43	104	43	00	1			92,358
37	Knit goods.	11	985	8	37	37	39	864	De 1,018 Mh 737	1,018	160	774	2	82		3,239,686
38	Lamps and reflectors.	3	19	2				17	(*) 17 (*) 17	18	17		1			14,701
39	Leather goods, not elsewhere specified.	14	175	7	12	17	7	132	No 152 Ap 112	152	93	59				612,562
40	Liquors, malt.	10	968		48	98	20	802	Je 867 Fe 637	648	643	5				11,908,792
41	Lithographing.	7	177		13	8	7	149	De 155 Fe 142	154	142	11	1			315,914
42	Looking-glass and picture frames.	16	91	18	1	4	4	64	No 69 Ja 59	69	67		2			100,215
43	Lumber, planing-mill products, not including planing mills connected with sawmills.	35	719	24	44	21	15	615	De 783 Je 412	768	758		10			1,900,300
44	Marble and stone work.	17	228	17	15	13	6	177		203	203					593,726
45	Monuments and tombstones.	9	66	13	3	2	1	47	Se 56 Ja 38	47	47					116,161
46	All other.	8	162	4	12	11	5	130	De 155 Mh 118	156	156					477,595
47	Mattresses and spring beds, not elsewhere specified.	22	511	20	24	62	24	381	Oc 423 Ja 319	401	278	110	8	5		1,572,550
48	Millinery and lace goods, not elsewhere specified.	51	1,076	57	40	37	46	896		1,124	219	891	6	8		1,236,307
49	Trimmed hats and hat frames.	20	600	25	16	24	32	563	De 738 Jy 387	738	165	568	4	1		815,455
50	All other.	31	418	32	24	13	14	333	No 382 Ja 279	386	54	323	2	7		430,852
51	Mineral and soda waters.	29	303	26	23	34	22	198	Jy 255 Ja 164	174	173					1,127,811
52	Models and patterns, not including paper patterns.	22	119	27	4		3	85	Au 99 Se 62	86	80	5	1			128,122
53	Musical instruments and materials, not elsewhere specified.	14	225	10	12	6	10	187	Au 208 Ja 147	200	167	28	5			311,998
54	Musical instruments, pianos.	6	1,220	3	27	19	24	1,147	De 1,214 Ja 1,010	1,214	1,122	57	33	2		3,648,654
55	Oil, not elsewhere specified.	4	54	1	3	9	1	40	Je 44 Mh 35	43	43					672,108
56	Paints.	6	192		13	48	12	119	Se 134 Mh 103	121	112	9				893,286
57	Paper goods, not elsewhere specified.	6	189	4	3	7	14	161	De 204 Ap 137	206	119	85		2		609,416
58	Patent medicines and compounds.	45	390	20	55	61	43	211		226	135	87	2	2		1,353,386
59	Patent and proprietary medicines.	30	298	9	42	45	31	171	No 188 Je 163	183	105	76	1	1		1,077,260
60	Patent and proprietary compounds, not elsewhere specified.	15	92	11	13	16	12	40	Fe 54 Se 35	43	30	11	1	1		276,126
61	Paving materials.	8	190	5	9	6	1	169	Se 219 Fe 71	208	208					326,338
62	Perfumery and cosmetics.	12	110	4	15	17	6	68	Ja 77 My 61	69	17	48	4			465,731
63	Photo-engraving.	16	477	7	32	49	32	357	No 398 My 301	400	366	22	12			534,211
64	Pickles, preserves, and sauces.	13	532	3	39	52	34	404		445	219	218	5	3		2,536,564
65	Preserves.	9	501	1	35	52	34	379	De 418 Ja 351	420	207	209	1	3		2,793,622
66	Pickles and sauces.	4	31	2	4			25	Jy 40 Ja 15	25	12	9	4			42,942

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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MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

BOSTON—Con.														Dollars.				
1	Plumbers' supplies, not elsewhere specified.	4	35	3	3	29	Oc ²	36	Ja	17	34	34	13	2	23,491			
2	Pocketbooks.	4	29	7	1	21	Fe	25	Ja	17	19	4	14	2	98,113			
3	Pottery.	3	78	3	2	60	Au	77	My	64	67	53	14	12	15,177,000			
4	Printing and publishing, book and job	311	5,127	244	320	550	3,283	De	3,321	Ja	2,989	3,406	2,633	717	104	6,079,775		
5	Job work only.	262	3,897	219	215	138	3,181	Je	154	Jy ²	64	3,348	2,553	686	99	543,313		
6	Book printing and publishing.	6	207	2	17	86	5	(*)	5	(*)	5	72	52	16	3	8,472,738		
7	Book publishing without printing.	39	917	21	86	328	479	My ²	41	Jy	38	41	24	14	2	82,083		
8	Linotype work and typesetting.	4	46	2	2	40	142	No	144	Ja	133	142	116	26	1	1,190,277		
9	Printing and publishing, music.	15	325	13	17	75	78	(*)	2	(*)	2	140	114	26	1	747,708		
10	Printing and publishing.	4	162	2	5	10	5					2	2			13,712,774		
11	Publishing without printing.	11	163	11	12	65	73	2				3,233	2,602	433	99	9	9,530,536	
12	Printing and publishing, newspapers and periodicals.	137	5,972	38	317	1,524	1,002	3,091	Oc	2,352	Ja	2,123	2,330	1,078	262	83	7	1,736,174
13	Printing and publishing.	16	3,014	8	94	750	517	2,245	Oc ²	526	Fe ²	434	515	360	141	12	2	2,446,064
14	Printing, publishing, and job printing.	27	755	6	61	101	119	468	My	394	Ja	363	388	354	30	4	1	125,068
15	Publishing without printing.	94	1,603	24	162	673	366	378	Se ²	29	Fe	21	29	29				188,024
16	Printing materials.	4	42	10	4	3	25	58	Oc	63	Au	48	48	48				74,030
17	Refrigerators.	6	79	3	12	3	3	40	Ap	47	Se	35	37	12	25			940,768
18	Regalia, and society badges and emblems.	3	56	1	3	5	7	Au	438	Ap	371	407	245	156	5	1		490,821
19	Rubber tires, tubes, and rubber goods, not elsewhere specified.	8	463	2	27	8	25	401	De	153	Ap	121	150	149	1			12,517
20	Sausage, not made in slaughtering and meat-packing establishments.	14	184	10	12	22	8	132	Ja	207	Ap	123	179	168	14	7		446,014
21	Saws.	3	11	2	2	1	6	De	8	Se ²	5	7	6	1				128,617
22	Screws, machine.	7	173	4	9	4	7	Ja	207	Ap	123	179	168	14	7			446,014
23	Shipbuilding, wooden, including boat building.	5	82	5	3	3	71	My	100	No	40	49	49					132,364
24	Shirts.	6	134	8	1	1	124	De	150	Au	107	150	13	132	1	4		601,621
25	Show cases.	5	46	4	3	2	3	34	Jy	38	Ja	29	31	30	1			101,591
26	Signs and advertising novelties.	10	282	6	15	15	230	De	255	Ja ²	212	255	133	90	4	28		355,743
27	Silversmithing and silverware.	5	54	4	5	3	42	De	50	Ja	36	50	44		6			67,511
28	Slaughtering and meat packing.	8	224	5	9	39	7	164	Ja	197	No	142	106	156	10			552,006
29	Soap.	8	82	2	12	13	11	44	Jy	57	Fe	37	41	39	2			482,322
30	Springs, steel, automobile and carriage and wagon.	4	43	6	5	5	2	25	De	29	Ja	22	29	29				110,669
31	Stationery goods, not elsewhere specified.	4	295	4	20	56	35	180	Oc ²	180	Ja	165	189	62	107	5	15	763,197
32	Statuary and art goods.	8	69	6	6	2	55	De	61	Ja	51	61	61					153,598
33	Steam fittings and steam and hot-water heating apparatus.	9	2,744	3	151	229	184	2,177	De	2,300	My	2,066	2,200	2,100	189	1		6,467,128
34	Steam packing.	4	25	1	5	8	1	10	(*)	10	(*)	10	10	9	1			65,182
35	Stencils and brands.	6	37	4	5	2	1	25	De	29	Ja ²	22	29	29				42,654
36	Stereotyping and electrotyping.	4	148	2	10	6	6	121	No ²	131	Ja	106	131	124		7		114,006
37	Stoves and hot-air furnaces.	3	134	14	22	9	89	Oc	142	Ap	44	129	129					1,002,079
38	Structural ironwork, not made in steel works or rolling mills.	22	271	16	27	11	12	205	De	235	Je	164	235	235				541,734
39	Surgical appliances.	8	163	5	8	5	12	133	Au	155	Fe	113	116	37	73	1	5	168,379
40	Suspenders, garters, and elastic-woven goods.	9	893	7	31	71	44	740	Oc	895	Fe	612	850	99	712	5	34	2,322,908
41	Textile machinery and parts.	5	760	1	35	40	19	665	Ja	912	My	486	912	803	12	7		4,312,314
42	Tinware, not elsewhere specified.	11	752	10	27	39	33	643	Ja	708	Au	578	621	463	151	7		3,326,052
43	Tobacco, cigars and cigarettes.	94	2,297	93	64	65	29	2,046	Fe ²	2,577	Jy	514	3,624	2,919	703	1	1	4,339,169
44	Tobacco, smoking.	3	8	2				6	Oc ²	7	Se ²	5	7	4	2	1		9,335
45	Tools, not elsewhere specified.	16	633	16	34	14	30	539	De	604	Je	497	605	567	32	6		1,589,842
46	Toys and games.	5	139	3	10	4	2	120	Oc	180	Fe	68	154	31	122		1	124,834
47	Trunks and valises.	16	290	17	9	30	12	222	De	259	Ja	167	259	210	47	2		411,661
48	Varnishes.	4	28	5	5	2	16	18	Se	18	Mh	14	15	15				362,462
49	Window and door screens and weather strips.	4	13	2	1	1	2	7	Je	12	Ap	5	7	7				19,304
50	Window shades and fixtures.	4	26	3	2	1	20	Au	25	Ja ²	15	23	19	4				100,480
51	Wirework, not elsewhere specified.	7	47	5	4	2	4	32	Fe ²	35	Je	29	31	22	5	4		35,799
52	Wool scouring.	3	75	1	4	3	1	66	De	94	Fe	41	94	94				278,016
53	All other industries*.	217	14,058	133	571	943	653	11,758				12,428	9,279	3,009	68	72		73,420,903

* All other industries embrace—Aeroplanes, seaplanes, and airships, and parts. Aluminum manufactures. Ammunition. Asbestos textile-mill products, not including steam packing. Bags, other than paper, not including bags made in textile mills. Bags, paper, not including bags made in paper mills. Baking powders. Baskets, and rattan and willow ware. Belting, rubber. Bolting, woven. Billiard tables and accessories. Bluing. Boxes, cigar.

Boxes, wooden packing, except cigar boxes. Brooms. Butter. Butter, reworking. Card cutting and designing. Carriage and wagon materials. Cars and general shop construction and repairs by electric-railroad companies. Cars, steam-railroad, not including operations of railroad companies. Cash registers and calculating machines. Cheese. Chewing gum. Clocks. Cloth, sponging and refinishing.

Clothing, men's, buttonholes. Coffins, burial cases, and undertakers' goods. Coopers, hogsheads and barrels. Cordage and twine. Cork, cutting. Corsets. Cotton small wares. Cutlery and edge tools. Dairyman's supplies. Dental goods. Drug grinding. Dyeing and finishing textiles, exclusive of that done in textile mills. Emery and other abrasive wheels. Enameling. Engravers' materials.

Engraving, wood. Envelopes. Felt goods. Fire extinguishers, chemical. Flags and banners. Flour-mill and gristmill products. Furs, dressed. Galvanizing. Gas, illuminating and heating. Gas and water meters. Gloves and mittens, cloth, not including gloves made in textile mills. Gloves and mittens, leather. Hair work. Hammocks. Hats, fur-felt. Hats, straw. Ice, manufactured.

* 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—MASSACHUSETTS.

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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.	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. 4,950	Dollars. 2,156	Dollars. 33,297	Dollars. 2,050	Dollars. 4,280	Dollars. 506	Dollars. 48,737	Dollars. 4,582	Dollars. 136,045	Dollars. 82,726	82	40				42	1
624	11,976	3,256	67	44,191	399	69,832	25,251	12	12						12	2
5,100	5,003	73,853	1,800	1,534	62,256	11,534	165,725	141	141		75				66	3
1,204,055	1,583,503	3,780,597	3,138,893	415,519	383,750	6,143,932	139,925	22,899,951	16,526,004	3,160	248				2,891	25
770,586	413,521	3,616,120	132,594	320,526	200,295	3,867,440	130,889	12,037,364	8,039,038	3,032	248				2,773	5
48,579	115,499	114,300	6,664	13,887	18,215	119,737	5,366	574,358	448,255	107					107	6
437,920	1,051,681	5,410	2,999,635	78,683	164,095	2,149,808	1,137	10,000,290	7,945,345							7
7,090	2,802	44,787		2,423	1,145	6,977	2,530	102,939	91,426	11					11	8
73,407	162,813	123,371	546,107	40,437	40,552	303,183	3,850	1,708,990	1,401,957	147					147	9
14,300	16,558	119,571	248,859	12,500	19,704	187,787	3,832	739,322	547,703	144					144	10
59,107	146,255	3,800	297,248	33,937	26,858	115,399	18	969,068	854,254	3					3	11
1,394,957	3,440,417	4,815,576	1,350,859	411,888	907,058	12,638,237	213,462	33,607,374	20,755,075	5,088	80		119		4,889	12
661,138	1,854,570	3,614,736	1,747	181,391	789,329	9,845,986	155,961	22,774,201	12,772,254	3,581	80				3,501	13
168,691	254,290	538,483	66,010	78,838	22,316	538,337	29,572	1,991,501	1,423,592	782			119		663	14
555,128	1,331,557	662,357	1,280,102	151,657	95,413	2,253,014	27,929	8,841,672	6,559,829	725					725	15
36,170	9,516	28,931		10,553	16,371	128,021	2,150	275,054	144,883	21					21	16
31,350	3,516	71,329		4,600	1,614	124,835	2,536	285,550	158,185	170	125		28		17	17
7,804	13,220	39,855	1,000	4,790	1,000	121,962	430	213,174	90,782	4					4	18
98,376	49,853	351,197	388	6,644	49,224	698,553	43,802	1,545,196	802,751	703	708		40		45	37
34,550	36,069	183,573		34,253	6,307	2,010,184	22,612	2,510,142	477,346	498					498	20
	2,056	0,205		2,050	288	4,792	840	24,526	18,894	19					19	21
34,379	12,007	175,168		11,778	8,890	263,047	11,077	694,598	330,444	290					290	22
22,782	2,957	79,993		0,168	1,079	113,374	3,207	275,597	158,936	179	50		30		99	23
333	634	88,155	62,644	4,740	2,540	715,004	2,033	1,036,850	349,723	29					29	24
9,434	7,804	40,543	184	3,332	505	113,426	3,212	190,405	79,767	67			25		42	25
49,843	69,165	238,065	4,186	15,981	4,712	250,189	4,332	745,154	400,633	96					96	26
10,961	2,320	49,679	2,037	5,006	348	70,566	2,546	188,070	114,964	49					49	27
59,203	70,205	225,646	13,339	31,702	6,669	5,938,702	13,656	6,651,615	690,257	200					200	28
76,878	59,605	52,113	8,503	80,256	558,198	14,433	3,709	1,090,934	488,303	177	104				13	29
11,524	3,498	28,990	3,438	53,113				80,906		73					73	30
51,010	153,984	138,297	86,935	20,020	21,739	620,052	7,077	1,360,957	721,928	90			18		78	31
11,180	1,970	75,300	1,318	7,659	3,041	39,506	706	189,421	140,209							32
602,997	437,846	2,605,762	1,907	7,592	482,854	2,371,870	185,642	8,134,716	5,577,204	2,767	635				2,162	315
15,020	15,140	12,883		3,140	557	50,889	1,299	134,419	82,231	17					17	34
12,287	3,395	24,636		5,643	1,003	20,588	1,234	87,324	65,504	14					14	35
36,804	14,217	155,045		9,451	1,107	84,105	10,881	402,678	307,692	257					257	36
27,120	56,955	104,455		1,825	15,918	144,204	3,735	342,785	194,829	77					77	37
78,563	30,106	271,130	43,671	22,912	9,366	443,922	20,904	1,062,021	597,195	499	150		35		314	38
27,012	28,572	92,858	82	14,469	3,317	156,606	1,802	402,249	243,841	30					30	39
132,402	184,162	512,821	90,778	36,727	78,294	2,175,322	15,113	3,939,800	1,749,365	263	143				120	40
139,323	82,711	829,259	1,607	5,892	57,231	817,093	24,923	2,274,025	1,432,606	453	150		40		263	216
66,967	83,717	644,975		34,358	153,502	2,104,149	21,393	3,557,154	1,431,612	333	120				213	75
162,548	105,169	2,441,426		57,605	1,067,821	3,446,619	11,917	8,460,426	4,941,690	110					110	43
		2,799		2,300	1,217	22,803	130	39,106	13,233	1					1	44
102,848	52,248	631,350	750	8,031	127,078	598,448	61,753	2,181,278	1,521,077	1,007	17		12		978	45
24,155	3,778	71,644	2,966	7,512	1,423	124,517	2,195	300,413	173,701	48					48	46
21,898	69,093	231,321	120	18,096	3,313	763,474	3,897	1,283,312	515,971	46					46	47
18,679	11,453	25,838		2,895	6,918	421,666	2,011	729,245	305,638	61	9				52	48
780	1,986	7,301		1,910	133	11,025	833	30,469	17,711	20					20	49
2,413	750	20,640		2,687	298	87,750	143	149,545	61,052	4					4	50
6,848	5,804	33,993	272	4,488	474	20,334	868	90,158	71,956	18			2		16	51
13,741	3,273	100,732		1,920	8,312	65,731	29,280	270,959	175,949	396	325				71	52
2,199,925	2,005,801	12,627,169	70,709	375,525	4,860,835	75,510,107	2,051,430	113,464,010	35,902,413	24,279	11,596	1,435	172	35	11,041	6,705

Ink, printing.....	2	Liquors, distilled, grain alcohol and rum.....	2	Ordnance and accessories.....	2	Sporting and athletic goods.....	2
Ink, writing.....	3	Lubricating greases.....	1	Paper and wood pulp.....	1	Stoves, gas and oil.....	3
Iron and steel, steel works and rolling mills.....	3	Lumber and timber products.....	2	Peanuts, grading, roasting, cleaning, and shelling.....	1	Sugar, refining, not including beet sugar.....	2
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	2	Machine tools.....	3	Pens, fountain and stylographic.....	2	Type founding.....	2
Iron and steel, forgings, not made in steel works or rolling mills.....	1	Minerals and earths, ground or otherwise treated.....	1	Photographic materials.....	1	Typewriter supplies, carbon paper and ribbon.....	2
Iron and steel, wire nails and spikes, not made in steel works or rolling mills.....	1	Mirrors, framed and unframed, not elsewhere specified.....	4	Pipes, tobacco.....	1	Umbrellas and canes.....	5
Japanning.....	2	Mucilage, paste, and other adhesives, not elsewhere specified.....	5	Plated ware.....	2	Upholstering materials, curled hair.....	1
Labels and tags.....	2	Musical instruments, organs.....	2	Pumps, not including power pumps.....	4	Vault lights and ventilators.....	2
Lapidary work.....	1	Musical instruments, piano and organ materials.....	2	Roofing materials, metal shingles and ceiling.....	1	Waste, cotton.....	2
Leads.....	1	Needles, pins, and hooks and eyes.....	2	Saddlery and harness.....	2	Wood, turned and carved.....	2
Lead, bar, pipe, and sheet.....	1	Oleomargarine and other butter substitutes.....	1	Sewing machines.....	5	Wooden goods, not elsewhere specified.....	1
Leather, tanned, curried, and finished.....	2	Optical goods.....	3	Shipbuilding, steel, repair work only.....	3	Wool shoddy.....	1
				Silk goods.....	3	Woolen goods.....	1
				Smelting and refining, not from the ore.....	3	Worsted goods.....	1
				Soda-water apparatus.....	3		

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

		217	20,555	166	734	694	902	18,059	De 18,936	Ja 17,156	19,176	12,762	5,929	253	232	Dollar.
1	BROCKTON—All industries....	217	20,555	166	734	694	902	18,059	De 18,936	Ja 17,156	19,176	12,762	5,929	253	232	54,715,520
2	Blacking, stains, and dressings.....	13	97	17	8	19	10	43	No 45	Ja 41	45	36	9	7	16	340,799
3	Boot and shoe cut stock.....	11	921	7	33	13	22	846	Oc 905	De 787	786	476	287	7	16	2,351,696
4	Boot and shoe findings.....	42	1,560	36	71	38	50	1,865	De 1,562	Ja 1,196	1,564	946	572	20	26	5,511,405
5	Boots and shoes, not including rubber boots and shoes.....	39	14,383	13	415	420	657	12,878	Au 13,530	Ja 12,281	13,457	8,751	4,381	184	141	36,063,484
6	Boxes, set-up paper boxes and cartons.....	4	204	1	0	3	0	182	Ap 195	Ja 166	191	56	116	2	17	288,138
7	Bread and other bakery products.....	10	120	10	7	20	8	84	No 93	De 77	88	80	7	1	1	194,831
8	Clothing, men's.....	4	110	2	9	4	0	86	De 107	Je 63	107	41	55	7	4	227,086
9	Cotton small wares.....	4	182	2	11	4	7	158	Se 181	Ja 136	166	64	96	2	4	645,659
10	Cutlery and edge tools.....	7	89	5	15	1	2	66	De 70	Ja 63	70	70	70	70	70	117,496
11	Foundry and machine-shop products.....	9	331	8	13	17	17	276	De 329	My 229	329	321	8	8	8	692,703
12	Lasts.....	0	421	4	22	20	10	365	Oc 416	Ja 275	448	420	25	3	3	1,362,007
13	Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	19	1	3	1	2	12	De 14	Ja 9	14	14	14	14	14	60,901
14	Models and patterns, not including paper patterns.....	5	80	7	7	6	2	58	De 71	Mh 48	71	71	71	71	71	80,548
15	Mucilage, paste, and other adhesives, not elsewhere specified.....	4	40	4	5	8	4	19	(*) 19	(*) 10	19	18	1	1	1	280,150
16	Printing, job.....	14	273	16	27	22	25	183	De 198	Ja 164	199	160	36	2	1	429,624
17	All other industries*.....	42	1,716	33	79	98	68	1,438			1,622	1,238	336	25	23	6,069,303
	*All other industries embrace—															
	Automobile repairing.....	1					1		Copper, tin, and sheet-iron work.....	2						Furniture, metal.....
	Awnings, tents, and sails.....	1					1		Electrical machinery, apparatus, and supplies.....	1						Gas, illuminating and heating.....
	Boxes, wooden packing, except cigar boxes.....	2					1		Electroplating.....	1						Hand stamps.....
	Carpets, rag.....	1					2		Fancy articles, wood novelties.....	1						House-furnishing goods, mops and dusters.....
									Flavoring extracts.....	1						Iron and steel, nails and spikes, not made in steel works or rolling mills.....
									Flour-mill and gristmill products.....	1						
1	CAMBRIDGE—All industries....	339	27,334	227	1,051	1,956	1,550	22,550	No 24,781	Ap 21,038	24,730	16,355	7,682	295	398	98,741,850
2	Automobile repairing.....	7	95	4	6	10	2	73	Je 80	Ja 67	74	73	1	1	1	142,311
3	Bookbinding and blank-book making.....	7	472	6	10	9	10	437	No 465	Fe 400	462	214	234	5	9	668,013
4	Boxes, set-up paper boxes.....	6	668	1	20	2	13	632	Jy 600	Ja 553	640	144	423	20	63	998,440
5	Bread and other bakery products.....	42	1,479	41	30	113	50	1,245	De 1,381	Mh 1,071	1,382	918	442	8	14	5,176,347
6	Chemicals.....	3	170	1	11	39	26	93	Se 105	Ap 85	97	85	12	1	1	815,634
7	Clothing, women's.....	7	236	6	14	7	6	203			209	10	185	8	8	239,942
8	Shirt waists, dresses, and wrappers.....	4	116	1	12	6	4	93	Mh 130	Jy 44	95	10	85	1	1	141,876
9	All other.....	3	120	5	2	1	2	110	My 135	Ja 87	114	6	100	8	8	97,164
10	Confectionery and ice cream.....	26	2,255	25	80	115	83	1,952	Oc 1,921	Je 1,563	2,066	603	1,212	33	158	4,494,007
11	Confectionery.....	18	2,041	12	75	106	71	1,777	De 1,921	Je 1,563	1,867	465	1,211	33	158	4,114,375
12	Ice cream.....	8	214	13	5	9	12	175	Jy 251	Ja 134	139	138	1	1	1	379,632
13	Copper, tin, and sheet-iron work.....	9	400	5	35	60	26	284	De 322	Je 260	313	302	6	5	5	973,777
14	Electrical machinery, apparatus, and supplies.....	8	2,697	3	106	84	105	2,399	Oc 2,953	Ap 1,781	2,702	2,167	501	34	34	6,278,218
15	Foundry and machine-shop products.....	21	1,338	11	70	72	47	1,138			1,293	1,227	61	5	5	2,751,246
16	Machine shops.....	16	674	10	43	36	33	552	De 669	Ja 451	609	604	61	4	4	1,678,017
17	All other.....	5	664	1	27	36	14	580	Se 662	Ap 494	624	623	1	1	1	1,073,229
18	Furniture.....	11	820	3	33	34	22	728	Oc 859	Je 574	837	795	36	0	0	1,795,827
19	Glass, cutting, staining, and ornamenting.....	3	50	3	4	1	1	42	No 52	Je 34	50	30	18	1	1	91,560
20	Instruments, professional and scientific.....	3	47	3	1	1	1	42	No 52	Ja 23	51	49	1	1	1	149,973
21	Marble and stone work.....	8	113	7	11	4	4	87			113	112	1	1	1	206,264
22	Monuments and tombstones.....	3	9	3	1	1	1	6	Ap 8	Fe 4	6	6	1	1	1	11,900
23	All other, except slate.....	5	104	4	11	4	4	81	De 108	Fe 54	107	106	1	1	1	194,394
24	Musical instruments, pianos.....	3	498	17	38	14	420	De 470	Ja 345		470	463	4	3	3	2,694,883
25	Printing and publishing, book and job.....	25	2,014	36	63	208	251	1,456	De 1,574	Ja 1,326	1,674	983	581	10	10	9,743,801
26	Printing and publishing, newspapers and periodicals.....	15	262	7	11	17	19	208			227	171	40	7	7	653,626
27	Printing, publishing, and job printing.....	7	262	5	8	16	15	208	De 227	Ja 197	227	171	40	7	7	638,404
28	Publishing without printing.....	8	10	2	3	1	4		(*) 3	(*) 3	3	3	3	3	3	15,122
29	Slaughtering and meat packing.....	3	6	3	3	1	4	3	Fe 362	Se 299	329	329	329	329	329	8,050
30	Structural ironwork, not made in steel works or rolling mills.....	9	399	5	18	37	5	334			329	329	329	329	329	1,383,136
31	Tobacco, cigars.....	7	13	7	1	1	1	5	De 12	My 3	12	7	5	5	5	10,058
32	Wood, turned and carved.....	3	22	3	4	1	1	15	Je 20	Ja 12	13	13	13	13	13	79,877
33	All other industries*.....	113	13,280	50	504	1,116	865	10,745			11,873	7,651	3,911	156	155	59,499,467
	*All other industries embrace—															
	Automobile bodies and parts.....	4					2		Dental goods.....	1						Grease and tallow, not including lubricating greases.....
	Automobiles.....	1					1		Druggists' preparations.....	1						House-furnishing goods, not elsewhere specified.....
	Babbit and white metal.....	1					1		Electroplating.....	1						Ink, writing.....
	Belting and hose, rubber.....	1					1		Engraving, steel and copper plate, including plate printing.....	1						Iron and steel, welding.....
	Belting, leather.....	1					1		Envelopes.....	1						Jewelry.....
	Blacking, stains, and dressings.....	2					2		Fancy articles, not elsewhere specified.....	1						Jewelry and instrument cases.....
	Boot and shoe cut stock.....	2					2		Felt goods.....	1						Knit goods.....
	Boot and shoe findings.....	2					2		Flags and banners.....	1						Liquors, distilled, grain alcohol.....
	Boots and shoes, not including rubber boots and shoes.....	2					2		Food preparations, not elsewhere specified.....	1						Lithographing.....
	Boots and shoes, rubber.....	1					1		Gas, illuminating and heating.....	2						Looking-glass and picture frames.....

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—MASSACHUSETTS.

69

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.	13,205	4,798	614	25	7,798	807	1
2,937,554	2,067,948	20,896,087	61,201	226,162	2,930,613	73,824,775	888,506	117,855,025	43,141,744								
34,100	36,639	51,635	-----	8,239	18,006	443,672	2,612	837,536	390,952	57	20	-----	-----	-----	37	-----	2
183,295	44,135	791,895	-----	12,000	71,612	4,298,908	24,099	5,978,865	1,655,853	408	50	-----	-----	-----	358	-----	3
876,293	126,777	1,261,764	965	44,919	157,279	10,061,280	61,816	14,075,890	3,953,204	1,307	700	-----	-----	-----	607	150	4
1,665,937	1,948,461	15,557,692	420	76,343	2,171,911	52,286,434	308,350	81,543,541	28,948,767	6,780	2,373	450	-----	-----	3,957	1	5
33,597	12,192	142,327	-----	5,800	15,859	234,344	4,948	537,255	297,963	50	-----	-----	-----	-----	50	-----	6
9,802	43,094	108,112	-----	12,942	4,110	490,140	17,019	809,788	302,629	119	-----	-----	-----	-----	119	-----	7
21,700	13,297	67,084	-----	4,020	7,105	225,777	1,019	384,968	157,272	56	-----	-----	-----	-----	56	-----	8
31,028	8,529	125,688	-----	2,950	9,393	517,846	10,305	800,950	272,739	116	-----	-----	-----	-----	116	-----	9
25,925	2,694	90,842	-----	3,880	7,203	63,317	0,072	280,845	211,456	96	-----	-----	-----	-----	96	-----	10
46,887	50,979	328,982	-----	5,740	44,355	239,080	14,458	929,057	675,513	255	150	-----	-----	-----	105	-----	11
107,119	41,015	470,383	38,739	2,628	111,796	479,544	18,494	1,867,436	1,359,398	631	530	-----	-----	-----	101	454	12
5,696	3,081	20,174	-----	4,500	459	41,491	1,823	91,229	47,015	85	-----	-----	-----	-----	85	-----	13
41,877	6,727	70,149	-----	4,584	1,325	30,171	1,016	213,527	182,340	27	-----	-----	-----	-----	27	-----	14
14,600	19,124	24,713	-----	480	8,340	364,830	9,003	565,570	101,677	278	125	-----	-----	-----	153	-----	15
100,435	69,943	185,395	17,051	17,974	12,292	341,538	6,042	920,823	573,243	181	-----	-----	-----	-----	181	-----	16
259,293	241,269	1,699,252	4,017	18,793	289,598	3,709,397	400,610	8,027,745	3,920,738	2,759	850	164	25	-----	1,720	202	17

Leather goods, not elsewhere specified.....	1	Mineral and carbonated waters.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Structural ironwork, not made in steel works or rolling mills.....	1
Leather, tanned, curried, and finished.....	1	Patent and proprietary medicines.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	1	Suspenders, garters, and elastic woven goods.....	2
Looking-glass and picture frames.....	1	Perfumery and cosmetics.....	1	Springs, steel, not made in steel works or rolling mills.....	1	Tools, not elsewhere specified.....	2
Marble and stone work, monuments and tombstones.....	1	Printing and publishing, newspapers and periodicals.....	3				
		Pulp goods, wall board.....	1				

3,520,068	4,324,116	22,842,488	190,153	474,610	4,854,535	60,802,784	2,824,139	127,864,901	58,737,978	28,421	10,339	5,400	480	12,193	9,856	1
22,991	16,637	86,002	-----	9,870	588	139,088	4,891	305,836	161,857	68	-----	-----	35	33	-----	2
68,278	28,225	413,740	-----	29,738	10,887	456,787	9,220	1,280,108	814,121	304	190	-----	2	112	-----	3
126,780	13,187	445,605	2,318	10,170	33,993	611,920	9,052	1,447,157	820,185	236	75	15	-----	146	-----	4
68,404	254,578	1,214,903	-----	14,150	122,515	5,181,548	97,709	9,094,101	3,814,844	1,030	857	-----	-----	173	166	5
13,127	58,930	95,948	-----	900	217,814	28,568	28,568	702,986	457,104	427	150	-----	175	102	95	6
26,078	15,717	132,055	17,856	8,576	3,371	368,200	2,921	669,427	308,246	44	-----	-----	-----	44	-----	7
21,728	13,600	67,258	10,440	0,050	2,199	199,801	1,480	370,810	175,469	26	-----	-----	-----	26	-----	8
3,350	2,117	64,797	7,416	2,520	1,172	163,899	1,441	292,617	127,777	18	-----	-----	-----	18	-----	9
295,672	202,278	1,424,687	-----	26,313	806,025	6,672,652	125,388	11,400,261	4,762,221	1,907	695	-----	-----	1,302	213	10
281,496	274,565	1,218,457	-----	16,320	797,054	5,641,118	70,208	9,901,062	4,180,736	1,491	670	-----	-----	821	213	11
34,176	17,713	206,280	-----	9,993	11,971	931,634	46,180	1,559,199	581,485	506	25	-----	-----	481	-----	12
117,339	72,255	340,517	-----	21,536	43,973	701,859	14,119	1,509,124	793,046	473	85	-----	-----	388	100	13
829,387	209,304	2,344,895	-----	22,378	306,880	3,792,338	111,724	8,718,570	4,814,508	3,064	1,175	-----	-----	1,889	755	14
319,504	124,657	1,438,635	9,775	17,977	73,400	2,064,917	72,830	5,033,915	2,896,269	1,807	408	-----	66	773	6	15
190,686	64,407	706,374	3,683	11,080	20,194	801,085	25,713	2,511,931	1,595,133	580	88	-----	66	432	-----	16
128,838	60,250	732,281	6,092	6,207	47,206	1,173,232	47,626	2,521,084	1,301,126	721	380	-----	-----	341	6	17
110,384	110,206	937,780	1,970	65,525	30,181	709,873	59,039	2,178,731	1,409,819	809	150	-----	-----	659	-----	18
10,475	1,144	27,885	-----	2,540	995	11,822	1,859	84,098	71,017	31	-----	-----	-----	31	-----	19
8,150	750	38,023	-----	6,383	7,305	89,405	1,759	157,704	66,540	31	-----	-----	-----	31	-----	20
27,468	7,979	131,596	14,600	9,096	2,379	125,794	8,891	863,705	229,020	505	450	-----	-----	55	-----	21
27,468	7,979	120,470	14,600	1,430	108	10,960	407	49,363	37,936	10	-----	-----	-----	10	-----	22
114,489	66,825	571,537	-----	7,666	2,271	114,834	8,424	314,342	181,084	495	450	-----	-----	45	-----	23
184,724	651,038	1,581,148	28,575	16,165	121,235	470,562	24,883	1,601,707	1,097,262	462	287	-----	-----	175	61	24
31,612	40,443	262,821	57,545	45,374	59,440	2,987,385	45,279	7,821,316	4,788,652	1,380	900	-----	-----	480	850	25
29,562	45,300	262,821	1,500	2,210	8,986	209,982	8,103	908,392	690,247	295	-----	-----	-----	295	-----	26
1,950	4,143	-----	56,045	750	1	4,450	-----	85,726	81,276	-----	-----	-----	-----	-----	-----	28
83,484	67,791	4,004	-----	508	-----	137,280	-----	193,020	25,740	-----	-----	-----	-----	-----	-----	29
490	-----	7,553	350	5,196	52,044	703,502	24,830	1,543,477	815,145	675	310	70	-----	295	480	30
6,534	-----	11,739	-----	393	-----	1,810	-----	1,916	24,079	-----	-----	-----	-----	-----	-----	31
1,896,798	2,283,112	10,923,111	57,164	150,172	3,087,870	41,226,773	1,070,476	72,747,124	29,849,875	15,216	4,497	5,400	126	5,193	7,100	33

Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	Oleomargarine and other butter substitutes.....	1	Pottery, earthen and stone ware.....	1	Stamped ware, not elsewhere specified.....	2
Machine tools.....	1	Optical goods.....	1	Pumps, steam.....	1	Stationary goods, not elsewhere specified.....	1
Mineral and carbonated waters.....	2	Paints.....	1	Roofing materials.....	2	Statuary and art goods.....	1
Models and patterns, not including paper patterns.....	2	Paper goods, not elsewhere specified	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Steam fittings and steam and hot-water heating apparatus.....	2
Mucilage, paste, and other adhesives, not elsewhere specified.....	1	Patent and proprietary compounds, not elsewhere specified.....	2	Sausage casings.....	1	Suspenders, garters, and elastic woven goods.....	1
Musical instruments, piano and organ materials.....	3	Pens, fountain and stylographic.....	1	Saw.....	1	Tinware, not elsewhere specified.....	1
Needles, pins, and hooks and eyes.....	1	Photographs and graphophones.....	1	Sawing machine.....	1	Tools, not elsewhere specified.....	1
Nets and seines.....	1	Photo-engraving.....	1	Shipbuilding, wooden, small boats..	1	Window and door screens.....	1
		Pickles, preserves, and sauces.....	2	Silk goods, throwsters and winders..	4	Wirework, not elsewhere specified...	1
		Plumbers' supplies, not elsewhere specified.....	1	Soap.....	1		
				Springs, steel, carriage and wagon...	1		

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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	FALL RIVER—All industries..	293	38,717	231	553	524	394	37,015	No 38,065	Mh 35,900	38,454	20,219	15,944	1,086	1,205	Dollars.
2	Belting, leather.....	4	121	2	3	7	2	107	No 115	Au 67	111	95	14	2	.....	321,740
3	Bread and other bakery products....	68	362	70	4	7	27	254	Oc 270	Ja 232	270	247	19	8	2	494,700
4	Clothing, women's, shirt waists, dresses, and wrappers.....	3	70	6	.....	.....	1	63	Mh 75	Ja 40	68	.....	32	.....	36	77,163
5	Confectionery and ice cream.....	8	44	10	.....	3	3	28	Je 34	Ja 21	29	27	2	.....	.....	49,853
6	Copper, tin, and sheet-iron work....	10	35	8	.....	.....	.....	27	Oc 35	Fe 17	35	34	.....	1	.....	70,727
7	Cotton goods.....	40	32,746	.....	359	371	211	31,805	No 32,696	Mh 31,070	32,893	16,442	14,474	932	1,045	118,706,783
8	Cotton small wares.....	4	514	.....	19	3	9	483	Ja 525	Se 442	473	113	298	20	42	1,486,046
9	Dyeing and finishing textiles, exclusive of that done in textile mills.	4	1,096	1	14	28	27	1,026	No 1,095	Mh 911	1,089	850	223	4	3	5,281,889
10	Foundry and machine-shop products	11	171	10	9	2	5	139	Ap 147	Je 133	147	146	.....	1	.....	737,922
11	Hats and caps, other than felt, straw, and wool.....	3	7	3	.....	.....	.....	4	(*) 4	(*) 4	5	2	1	.....	2	1,812
12	Iron and steel, welding.....	3	11	3	1	1	.....	6	Jy 7	Fe 5	7	7	.....	.....	.....	6,923
13	Lumber, planing-mill products, not including planing mills connected with sawmills.	4	68	5	2	10	4	47	De 53	Fe 41	53	53	.....	.....	.....	51,786
14	Marble and stone work.....	10	65	10	2	3	.....	50	.....	.....	53	53	.....	.....	.....	63,201
15	Monuments and tombstones.....	7	21	7	.....	.....	.....	14	My 15	Mh 11	14	14	.....	.....	.....	26,120
16	All other, except slate.....	3	44	3	2	3	.....	36	Je 52	Fe 8	39	39	.....	.....	.....	37,081
17	Mineral and carbonated waters.....	6	27	7	2	.....	.....	18	Au 25	Fe 14	18	18	.....	.....	.....	42,292
18	Printing, job.....	15	73	12	5	.....	3	53	De 58	Mh 51	58	43	7	8	.....	107,021
19	Printing and publishing, newspapers and periodicals.....	7	171	5	8	6	9	143	De 148	Ja 138	146	123	8	15	.....	394,638
20	Sausage, not made in slaughtering and meat-packing establishments.	7	34	7	.....	.....	.....	27	Ja 28	Au 25	28	24	3	1	.....	31,447
21	Textile machinery and parts.....	17	852	15	22	18	17	780	De 886	Fe 739	887	713	130	35	9	2,144,837
22	Trunks and valises.....	3	36	3	5	.....	2	26	No 31	Ap 20	31	30	1	.....	.....	77,399
23	All other industries*.....	56	2,214	48	98	65	74	1,020	.....	.....	2,047	1,190	732	59	66	7,559,306

* All other industries embrace—
 Artificial stone products..... 1
 Automobile bodies and parts..... 1
 Automobile repairing..... 2
 Awnings, tents, and sails..... 1
 Bags, other than paper, not including bags made in textile mills..... 2

Bookbinding and blank-book making..... 1
 Boot and shoe cut stock..... 1
 Boxes, set-up paper boxes..... 1
 Brass and bronze products..... 1
 Brooms, from broom corn..... 1
 Brushes..... 1

Carpets, rag..... 2
 Cleansing and polishing preparations..... 2
 Clothing, men's..... 2
 Cordage and twine..... 4
 Dyestuffs and extracts—natural..... 1
 Electroplating..... 1
 Flour-mill and gristmill products... 1

Food preparations, not elsewhere specified..... 2
 Furs, dressed..... 1
 Gas, illuminating and heating..... 1
 Glass, cutting, staining, and ornamenting..... 2

1	HAVERHILL—All industries..	405	17,833	407	765	285	613	15,783	De 18,089	Jy 14,108	18,297	11,602	6,355	201	139	39,601,758
2	Boot and shoe cut stock.....	66	1,019	77	45	29	27	841	No 941	Au 758	939	712	201	22	4	6,002,178
3	Boot and shoe findings.....	79	1,864	91	90	30	79	1,574	De 1,738	Ja 1,371	1,849	1,300	523	18	8	3,529,309
4	Boots and shoes, not including rubber boots and shoes.....	137	12,748	107	523	151	438	11,529	.....	.....	13,456	8,131	5,055	157	113	22,235,772
5	Regular factory products.....	122	12,432	92	514	151	433	11,242	De 13,043	Jy 9,861	13,141	8,020	4,861	152	108	22,221,433
6	Contract work.....	5	117	4	6	.....	2	105	Oc 118	Ja 84	111	102	4	5	.....	25,313
7	Stitching and crimping.....	10	199	11	3	.....	3	182	De 203	Ap 159	204	9	190	.....	5	49,026
8	Boxes, set-up paper boxes and cartons.....	5	191	6	5	.....	4	176	De 205	Jy 153	205	75	128	1	1	333,174
9	Boxes, wooden packing, except cigar boxes.....	3	209	1	9	1	5	193	Ja 234	Je 167	200	139	60	.....	1	500,497
10	Bread and other bakery products....	22	123	24	9	1	8	81	No 102	Ja 60	102	74	27	.....	1	184,606
11	Confectionery and ice cream.....	8	70	13	2	2	3	50	No 46	Je 23	58	33	22	.....	3	117,726
12	Confectionery.....	4	43	8	1	2	2	32	No 46	Je 23	45	23	19	.....	3	60,390
13	Ice cream.....	4	27	5	2	1	1	18	Au 25	No 11	13	10	3	.....	.....	57,338
14	Cutlery and edge tools.....	3	24	5	.....	.....	.....	19	Jy 20	Ja 17	20	20	.....	.....	.....	37,013
15	Foundry and machine-shop products	7	96	10	5	6	3	72	De 97	Fe 56	97	95	1	1	.....	156,137
16	Mineral and carbonated waters.....	3	14	6	.....	.....	1	7	Jy 12	Ja 4	4	4	.....	.....	.....	32,068
17	Models and patterns, not including paper patterns.....	6	45	9	2	.....	2	32	De 41	Ja 25	41	39	2	.....	.....	62,049
18	Printing, job.....	13	32	13	.....	.....	.....	19	Mh 21	Jy 16	21	16	4	1	.....	45,953
19	Signs and advertising novelties.....	3	8	4	.....	.....	.....	4	My 5	Ja 3	5	5	.....	.....	.....	3,699
20	Tobacco, cigars.....	3	7	3	.....	.....	.....	4	Oc 6	Mh 3	6	6	2	.....	.....	5,550
21	All other industries*.....	47	1,383	38	75	45	43	1,182	.....	.....	1,294	955	330	1	8	6,295,919

* All other industries embrace—
 Automobile bodies and parts..... 1
 Automobile repairing..... 1
 Blacking, stains, and dressings..... 2
 Brick, building..... 1
 Carpets, rag..... 2

Cleansing preparations..... 1
 Clothing, men's..... 2
 Electrical machinery, apparatus, and supplies..... 1
 Emery and other abrasive wheels... 1
 Engravers' materials..... 1

Fancy articles, not elsewhere specified..... 1
 Flour-mill and gristmill products... 2
 Gas fixtures..... 1
 Gas, illuminating and heating..... 1
 Hats, fur-felt..... 1

Hats, wool-felt..... 1
 Iron and steel, welding..... 1
 Lamps, automobile..... 3
 Lasts..... 1
 Leather goods, not elsewhere specified..... 1

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—MASSACHUSETTS.

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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 ed.
											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. 2,445,444	Dollars. 1,013,871	Dollars. 30,513,600	Dollars. 54,107	Dollars. 106,759	Dollars. 12,136,150	Dollars. 91,992,342	Dollars. 4,183,042	Dollars. 163,246,082	Dollars. 67,065,698	145,646	109,985	15,962	390	1,115	18,188	13,623	1
9,850	14,281	111,433	.....	4,120	5,783	494,899	6,511	738,944	237,534	141	135	.....	.....	.....	6	.....	2
7,928	20,940	283,494	.....	18,335	4,595	1,103,873	39,574	1,874,950	672,509	195	.....	.....	.....	.....	195	.....	3
.....	832	39,777	.....	1,020	290	114,308	965	213,174	98,201	22	.....	.....	.....	.....	22	.....	4
.....	3,293	37,410	194	4,331	363	163,590	4,272	271,106	103,235	67	.....	.....	.....	.....	67	.....	5
.....	.....	37,587	.....	1,433	642	34,235	1,353	94,925	59,387	11	.....	.....	.....	.....	11	.....	6
1,641,267	648,611	25,997,711	.....	14,440	10,833,934	77,045,717	3,262,226	135,783,717	55,475,774	134,876	100,585	13,675	.....	1,070	13,546	12,741	7
67,548	9,209	321,023	14,861	4,424	45,486	1,229,448	50,419	1,947,518	667,651	996	.....	.....	25	.....	971	.....	8
275,445	83,609	894,207	.....	4,882	404,250	4,806,950	232,081	8,250,120	3,210,489	3,533	150	2,077	.....	.....	1,306	285	9
13,987	4,987	157,407	2,502	2,008	8,435	182,138	6,982	445,523	256,403	196	.....	46	.....	.....	150	.....	10
.....	.....	2,995	.....	1,345	92	21,450	295	35,250	13,535	3	.....	.....	.....	.....	3	.....	11
3,040	200	7,492	75	788	50	9,776	191	29,357	19,300	3	.....	.....	.....	.....	3	.....	12
4,750	15,008	55,174	.....	1,354	2,620	158,686	1,252	270,790	110,952	427	350	.....	.....	.....	77	.....	13
2,800	2,746	61,119	200	425	663	26,040	7,688	124,153	80,819	220	125	16	22	.....	58	.....	14
.....	.....	19,384	200	125	154	14,443	958	50,375	34,074	40	.....	.....	22	.....	18	.....	15
2,000	2,746	41,735	.....	300	509	12,203	6,730	73,778	54,845	189	125	16	.....	.....	40	.....	16
1,938	.....	13,819	.....	810	584	32,862	1,600	79,777	45,315	17	.....	.....	.....	.....	17	.....	17
9,994	3,101	50,873	1,100	6,042	1,189	61,802	2,040	171,003	107,161	51	.....	.....	.....	.....	51	.....	18
18,719	17,500	140,136	128	0,851	5,570	94,361	7,735	398,847	296,751	98	25	.....	.....	.....	73	.....	19
.....	.....	30,413	.....	1,654	334	265,190	2,375	337,577	70,012	47	24	.....	.....	.....	23	.....	20
135,260	55,732	740,661	.....	0,003	370,968	1,590,670	43,278	3,432,321	1,798,373	1,178	455	37	.....	.....	686	234	21
5,293	3,458	20,623	.....	1,000	273	96,026	428	150,076	53,622	7	.....	.....	.....	.....	7	.....	22
247,068	135,864	1,510,247	35,047	21,744	450,020	4,399,800	517,507	8,500,948	3,679,635	2,558	2,136	158	303	45	916	863	23

Grease and tallow, not including lubricating greases.....	1	Jewelry.....	2	Musical instruments, pianos.....	1	Slaughtering and meat packing.....	1
Hardware, vehicle.....	1	Knit goods.....	1	Paper goods, not elsewhere specified.....	2	Tobacco, cigars and cigarettes.....	2
Hats, fur-felt.....	1	Liquors, malt.....	1	Patent and proprietary compounds, not elsewhere specified.....	1	Tobacco, smoking.....	1
House-furnishing goods, not elsewhere specified.....	1	Lumber and timber products.....	1	Pipes, tobacco.....	1	Toys and games.....	1
.....	1	Mattresses and spring beds, not elsewhere specified.....	2	Silk goods.....	2	Varnishes.....	1
.....	1	.....	1	.....	1	Wood, turned and carved.....	1

2,457,575	1,312,419	18,351,696	630,327	638,049	808,022	56,418,093	790,290	66,276,853	39,058,570	12,747	5,092	136	19	40	7,409	503	1
189,294	80,246	934,717	2,423	65,062	50,387	11,570,772	24,881	14,024,501	3,328,838	653	.....	.....	3	.....	650	.....	2
255,141	94,912	1,680,358	68,870	91,339	80,081	5,316,457	56,202	9,424,749	4,052,090	1,662	100	.....	.....	.....	1,562	18	3
1,662,115	985,464	13,766,655	551,002	373,075	487,370	33,016,102	199,685	59,690,812	26,454,025	4,465	467	.....	.....	.....	3,998	15	4
1,648,760	981,274	13,468,858	551,002	304,290	480,567	32,985,426	193,043	50,231,873	26,052,504	4,355	467	.....	.....	.....	3,888	15	5
9,395	1,632	137,936	.....	5,038	633	30,273	2,422	215,415	182,720	53	.....	.....	.....	.....	53	.....	6
3,990	2,608	159,891	.....	3,747	170	30,403	3,320	252,624	218,801	57	.....	.....	.....	.....	57	.....	7
15,760	4,236	169,091	.....	10,179	5,200	334,441	5,331	720,455	389,683	144	.....	.....	.....	.....	144	.....	8
40,023	7,657	193,061	.....	14,070	33,512	490,301	35,701	964,350	432,348	1,143	1,000	.....	.....	.....	143	.....	9
10,040	5,938	102,134	55	13,169	1,575	412,197	17,237	694,375	264,011	80	.....	.....	.....	.....	80	.....	10
7,000	6,113	47,612	.....	11,005	1,730	200,338	4,033	377,026	172,655	91	.....	.....	.....	.....	91	.....	11
.....	4,313	31,008	.....	8,477	402	90,787	2,759	200,113	106,567	25	.....	.....	.....	.....	25	.....	12
7,000	1,800	16,604	.....	2,528	1,328	109,551	1,274	176,913	66,088	66	.....	.....	.....	.....	66	.....	13
.....	.....	26,827	.....	1,400	77	13,607	2,290	63,272	47,360	21	.....	.....	.....	.....	21	.....	14
12,886	12,151	99,351	.....	4,992	1,071	125,409	2,676	320,261	192,176	62	.....	7	.....	.....	55	.....	15
.....	792	6,195	.....	1,574	242	37,131	754	70,026	32,141	18	.....	.....	.....	.....	18	.....	16
4,647	1,800	40,661	.....	3,750	944	12,957	852	143,746	129,937	15	.....	.....	.....	.....	15	.....	17
.....	.....	14,800	.....	3,331	290	28,135	1,082	82,786	53,599	36	.....	.....	.....	.....	36	.....	18
.....	.....	4,860	.....	1,080	.....	3,510	252	18,171	14,400	1	.....	.....	.....	.....	1	.....	19
.....	.....	5,025	.....	240	.....	5,012	.....	17,369	11,457	.....	.....	.....	.....	.....	.....	.....	20
260,079	113,170	1,279,437	7,977	44,083	128,064	4,815,715	448,325	8,746,954	3,482,914	4,356	3,525	136	.....	40	655	470	21

Leather, tanned, curried, and finished.....	2	Mattresses and spring beds, not elsewhere specified.....	1	Musical instruments and materials, not elsewhere specified.....	1	Saws.....	1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1	Millinery and lace goods, not elsewhere specified.....	1	Optical goods.....	1	Shipbuilding, wooden, small boats.....	1
Marble and stone work, monuments and tombstones.....	2	Mucilage, paste, and other adhesives, not elsewhere specified.....	1	Paper and wood pulp.....	1	Slaughtering and meat packing.....	1
.....	.....	.....	.....	Pickles and sauces.....	1	Tools, machinists'.....	1
.....	.....	.....	.....	Printing and publishing, newspapers and periodicals.....	2	Vinegar and cider.....	1
.....	.....	.....	.....	.....	.....	Woolen goods.....	1

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

		176	20,215	119	511	1,002	810	17,773	De 18,922	Fe 16,685	18,904	10,543	7,349	420	583	Dollars.
1	HOLYOKE—All industries.....	176	20,215	119	511	1,002	810	17,773	De 18,922	Fe 16,685	18,904	10,543	7,349	420	583	92,506,563
2	Automobile repairing.....	12	53	11	1	1	5	35	Jy 42	Ja 28	35	34	251	76	39	60,135
3	Bookbinding and blank-book making.....	5	884	3	17	42	28	794	De 831	Fe 755	832	406	21	1	1	2,268,295
4	Bread and other bakery products.....	26	174	29	5	13	7	120	Au 126	No 112	111	90	21	1	1	490,057
5	Copper, tin, and sheet-iron work.....	3	92	3	9	4	1	75	De 102	Mh 49	102	102	5	4	1	238,119
6	Foundry and machine-shop products.....	11	618	7	25	43	25	518	De 305	My 260	468	450	5	4	1	1,886,377
7	Machine shops.....	8	360	2	19	38	20	281	De 305	My 260	305	298	3	4	1	1,542,634
8	All other.....	3	258	5	6	5	5	237	My 319	De 163	163	101	2	1	1	343,843
9	Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	188	16	7	3	162	Se 180	Ap 132	170	170	109	1	1	1	786,147
10	Marble and stone work.....	3	16	5	1	1	9	Oc 14	Ja 4	11	11	6	3	1	1	60,758
11	Mineral and carbonated waters.....	5	25	5	2	1	4	13	Ap 18	No 7	174	3,094	1,080	1	1	29,664
12	Paper and wood pulp.....	20	4,353	114	338	273	3,628	De 4,174	Fe 3,034	4,174	3,094	1,080	202	1	1	26,738,894
13	Paper goods, not elsewhere specified.....	5	617	30	27	52	508	De 563	Jy 470	563	361	222	2	1	1	2,452,757
14	Printing, job.....	11	93	8	8	4	73	Oc 88	Fe 61	76	48	26	2	1	1	183,278
15	Printing and publishing, newspapers and periodicals.....	6	127	2	11	6	30	(*) 78	(*) 78	78	60	10	2	1	1	192,243
16	Sausage, not made in slaughtering and meat-packing establishments.....	4	16	5	1	1	11	Au 12	Ap 10	12	11	1	1	1	1	16,344
17	Stationery goods, not elsewhere specified.....	8	1,330	53	175	91	1,011	No 1,096	Ap 974	1,067	466	561	20	20	1	3,511,056
18	Tobacco, cigars.....	7	44	9	1	1	34	My 36	Ja 32	35	25	10	1	1	1	47,444
19	All other industries*.....	47	11,585	32	210	345	285	10,704			11,101	5,135	5,183	319	524	53,586,045

*All other industries embrace—
 Artificial stone products..... 1
 Automobile bodies and parts..... 1
 Awnings, tents, and sails..... 2
 Belting, leather..... 1
 Bluing..... 1
 Boxes, set-up paper boxes..... 1

Brass and bronze products..... 1
 Brick, building..... 1
 Brooms, from broom corn..... 1
 Cars and general shop construction and repairs by electric-railroad companies..... 1

Chemicals..... 1
 Confectionery, ice cream..... 1
 Corsets..... 1
 Cotton goods..... 3
 Cotton small wares..... 1

Dyeing and finishing textiles, exclusive of that done in textile mills..... 1
 Dyestuffs and extracts—natural..... 1
 Envelopes..... 3
 Flour-mill and gristmill products..... 1

		194	31,940	143	652	382	444	30,319	De 37,083	Fe 18,209	30,050	21,595	13,262	838	955	171,477,984
1	LAWRENCE—All industries.....	194	31,940	143	652	382	444	30,319	De 37,083	Fe 18,209	30,050	21,595	13,262	838	955	171,477,984
2	Bread and other bakery products.....	48	222	44	9	3	8	158	De 175	Fe 135	175	146	25	4	1	371,707
3	Carpets, rag.....	3	8	3	1	1	5	5	Ap 6	Ja 4	6	4	2	1	1	2,125
4	Cotton goods.....	6	3,703	1	44	26	31	3,601	De 4,373	Fe 2,218	4,373	2,055	2,083	134	101	22,861,083
5	Foundry and machine-shop products.....	14	520	11	26	20	9	454			485	484	1	1	1	1,024,192
6	Boiler shops and foundries.....	3	112	2	2	1	107	De 123	My 96	97	97	1	1	1	1	280,247
7	Machine shops.....	11	408	9	24	20	8	347	De 385	My 323	388	387	1	1	1	1,337,945
8	Leather goods, not elsewhere specified.....	3	35	2	1	1	2	29	Mh 33	Jy 24	28	26	2	1	1	48,100
9	Marble and stone work.....	4	15	4	1	1	11	Je 13	Ja 7	13	13	6	2	1	1	67,816
10	Mattresses and spring beds, not elsewhere specified.....	3	13	4	1	1	9	My 10	Ja 7	8	8	2	1	1	1	65,290
11	Paper and wood pulp.....	3	812	17	17	7	771	Fe 824	Jy 744	791	663	128	1	1	1	3,504,907
12	Printing, job.....	10	35	11	5	5	24	Se 25	Ja 23	25	19	6	1	1	1	62,800
13	Printing and publishing, newspapers and periodicals.....	9	141	5	9	5	114	De 119	Ja 109	119	101	9	9	1	1	271,557
14	Sausage, not made in slaughtering and meat-packing establishments.....	6	20	7	1	1	13	Oc 14	Se 11	14	12	2	1	1	1	58,000
15	Textile machinery and parts.....	5	513	5	7	13	475	De 506	Mh 433	506	382	108	9	7	1	1,315,970
16	Tobacco, cigars.....	3	5	3	1	1	2	My 3	No 1	2	2	1	1	1	1	2,535
17	Worsteds.....	11	19,966	398	214	253	19,101	De 24,377	Fe 9,681	23,935	12,819	9,694	635	787	1	114,688,196
18	All other industries*.....	60	5,932	43	141	83	113	5,552			6,170	4,863	1,204	47	56	20,652,811

*All other industries embrace—
 Artificial stone products..... 2
 Automobile bodies and parts..... 3
 Automobiles..... 1
 Automobile repairing..... 2
 Awnings, tents, and sails..... 1
 Belting and hose, woven, other than rubber..... 1

Belting, leather..... 3
 Boots and shoes, not including rubber boots and shoes..... 2
 Boxes, wooden packing, except cigar boxes..... 1
 Brass and bronze products..... 2
 Brooms, from broom corn..... 2
 Brushes..... 1

Butter..... 1
 Carpets and rugs, other than rag..... 1
 Carriages and wagons..... 2
 Clothing, women's..... 1
 Coffee, roasting and grinding..... 1
 Confectionery, ice cream..... 1
 Copper, tin, and sheet-iron work..... 1

Cotton small wares..... 1
 Dyeing and finishing textiles, exclusive of that done in textile mills..... 3
 Electroplating..... 1
 Files..... 1
 Flour-mill and gristmill products..... 1
 Food preparations, macaroni, vermicelli, and noodles..... 1

		291	32,139	236	580	543	669	30,111	Ja 34,851	Mh 27,896	31,154	17,068	13,020	534	532	114,940,546
1	LOWELL—All industries.....	291	32,139	236	580	543	669	30,111	Ja 34,851	Mh 27,896	31,154	17,068	13,020	534	532	114,940,546
2	Belting, leather.....	3	22	2	2	1	17	No 21	Ja 12	20	17	3	1	1	1	90,094
3	Boots and shoes, not including rubber boots and shoes.....	5	784	1	39	40	30	De 984	Au 443	984	580	307	55	42	1	1,506,094
4	Boxes, wooden packing, except cigar boxes.....	7	307	6	10	3	10	De 293	Ap 265	293	285	8	1	1	1	684,167
5	Bread and other bakery products.....	57	309	62	2	22	5	218	Mh 226	Se 200	221	186	34	1	1	273,038
6	Confectionery and ice cream.....	10	44	14	1	1	23	3	(*) 3	(*) 3	25	21	3	1	1	71,239
7	Confectionery.....	4	9	6	1	1	3	(*) 3	(*) 3	4	4	2	1	1	1	7,164
8	Ice cream.....	6	35	8	1	1	1	25	Au 32	Ja 18	21	19	2	1	1	64,085
9	Copper, tin, and sheet-iron work.....	6	51	6	2	1	3	39	No 44	Ja 32	40	40	1	1	1	96,996
10	Cotton goods.....	9	12,339	1	161	93	105	12,479	Oc 13,322	Mh 11,377	13,429	7,178	5,780	245	226	56,078,188
11	Cotton small wares.....	4	88	1	6	1	5	De 24	My 56	94	36	60	1	1	1	226,788
12	Dyeing and finishing textiles, exclusive of that done in textile mills.....	5	1,065	30	42	46	947	No 1,064	Ap 854	1,039	838	184	16	1	1	3,999,576

* 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—MASSACHUSETTS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										POWER.					
Salaries and wages.				Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clarks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.	Owned.	Owned.	Rent- ed. 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. 2,447,410	Dollars. 2,359,093	Dollars. 17,318,128	Dollars. 990,371	Dollars. 120,224	Dollars. 4,188,780	Dollars. 40,231,283	Dollars. 1,928,699	Dollars. 93,426,775	Dollars. 42,260,793	70,893	28,162	10,475	.....	27,427	10,829	13,310	1
1,991	4,480	56,270	.....	3,014	512	52,005	1,935	160,223	105,083	42	.....	.....	.....	.....	42	.....	2
109,978	131,002	708,460	.....	918	94,078	1,228,980	15,190	2,852,417	1,008,238	275	200	.....	.....	.....	75	.....	3
22,798	22,798	139,331	300	10,088	7,085	561,420	22,313	950,597	303,864	145	.....	.....	.....	.....	145	.....	4
11,687	5,775	94,207	.....	1,020	10,006	186,923	2,034	307,834	178,872	133	.....	.....	.....	.....	133	.....	5
123,135	84,034	606,476	525	10,906	77,227	833,216	50,211	2,387,961	1,504,534	1,155	325	.....	.....	150	680	238	6
82,918	62,420	324,355	525	7,382	66,233	519,821	22,053	1,403,012	831,138	700	200	.....	.....	150	350	230	7
33,220	22,505	282,121	.....	3,524	10,994	313,395	28,158	981,919	643,390	455	125	.....	.....	.....	330	8	8
43,677	12,275	187,079	.....	8,500	13,329	899,130	3,241	1,349,854	417,493	431	370	.....	.....	.....	61	.....	9
1,940	700	11,306	.....	330	411	16,305	1,615	37,591	19,671	58	.....	.....	.....	.....	58	.....	10
3,200	3,760	17,984	.....	936	1,200	42,713	2,228	87,555	42,609	29	.....	.....	.....	.....	29	.....	11
878,785	694,319	4,013,999	17,308	283	705,132	12,104,982	906,897	21,375,891	8,364,015	37,776	14,593	1,075	.....	20,652	856	4,436	12
108,123	108,087	507,398	19	0,266	141,511	2,190,109	50,775	3,614,794	1,394,910	1,407	536	.....	.....	.....	871	.....	13
13,980	3,079	63,572	.....	0,035	1,673	51,657	3,292	201,780	146,831	86	.....	.....	.....	.....	84	.....	14
37,806	26,099	83,621	78,763	7,010	3,124	98,921	8,082	398,925	291,912	329	.....	.....	.....	.....	329	.....	15
.....	.....	12,479	.....	1,736	664	97,451	750	127,105	28,901	27	.....	.....	.....	.....	27	.....	16
214,340	319,106	784,139	.....	20,206	195,317	2,181,376	17,916	4,491,361	2,292,039	519	40	.....	.....	100	379	.....	17
.....	750	36,100	.....	2,551	12,352	49,212	786	124,223	74,225	1	.....	.....	.....	.....	1	.....	18
1,114,762	941,830	9,965,014	893,456	39,765	2,802,090	28,621,283	811,415	54,868,661	25,402,053	31,480	12,098	8,800	.....	6,523	7,060	8,636	19

Furniture, store and office fixtures.....	1	Millinery and lace goods, not elsewhere specified.....	1	Photo-engraving.....	1	Toys and games.....	1
Gas, illuminating and heating.....	1	Mucilage and paste.....	1	Pumps, steam.....	1	Vault lights and ventilators.....	1
Grease, soap stock.....	1	Musical instruments and materials, not elsewhere specified.....	1	Saddlery and harness.....	1	Wire.....	1
Hand stamps.....	1	.....	1	Silk goods.....	2	Wirework, not elsewhere specified.....	1
Iron and steel, welding.....	1	.....	1	Steam fittings and steam and hot-water heating apparatus.....	1	Woolen goods.....	2
Mattresses and spring beds, not elsewhere specified.....	1	.....	1	.....	1	Worsted goods.....	5

\$,151,748	1,178,385	32,361,598	1,514,033	76,818	12,441,991	106,500,196	4,452,414	183,449,096	72,490,486	124,155	30,312	71,223	853	16,630	5,137	74,283	1
25,170	6,068	199,840	.....	17,350	9,262	861,705	28,254	1,409,364	519,405	108	.....	.....	.....	.....	198	.....	2
182,380	62,768	2,470	.....	596	0	7,520	109	7,520	4,816	4	.....	.....	.....	.....	4	.....	3
130,855	44,006	3,478,794	2,992	1,236	1,872,667	12,500,458	305,202	20,937,148	8,131,488	25,811	3,320	14,159	850	7,069	353	15,098	4
.....	.....	615,049	.....	4,490	66,000	835,041	42,874	1,037,456	1,050,435	1,147	426	.....	.....	80	641	240	5
4,387	1,040	158,327	.....	2,400	1,041	138,204	14,478	332,751	180,069	200	.....	.....	.....	.....	200	.....	6
126,468	43,026	456,722	.....	2,090	64,959	697,437	27,895	1,004,699	879,866	947	426	.....	.....	80	441	240	7
2,075	3,598	28,720	.....	2,196	525	54,942	432	103,617	48,143	44	.....	.....	.....	14	30	.....	8
.....	.....	14,424	.....	193	605	23,123	1,435	67,087	43,120	84	.....	.....	.....	.....	84	.....	9
.....	.....	0,485	.....	1,040	326	54,760	624	73,038	18,545	13	.....	.....	.....	.....	13	.....	10
113,796	40,534	1,037,869	.....	48,317	1,042,598	272,218	3,697,646	1,482,330	4,070	2,290	300	.....	.....	1,480	.....	525	11
49,156	11,615	24,623	1,304	4,100	172	27,870	1,056	54,636	40	.....	.....	.....	.....	.....	40	.....	12
.....	.....	148,176	7,758	5,325	9,772	104,727	7,253	419,934	307,954	138	.....	.....	.....	.....	138	.....	13
.....	.....	13,303	.....	1,320	285	118,116	2,483	167,916	47,317	63	20	.....	.....	.....	43	.....	14
59,895	52,705	458,650	903	2,400	101,772	789,690	14,165	1,054,892	1,151,037	563	315	.....	.....	.....	248	300	15
1,984,420	731,621	20,026,556	1,431,747	2,896	7,150,936	76,788,069	2,573,118	125,700,608	46,399,421	78,021	20,023	51,624	.....	5,957	417	47,367	16
604,195	224,510	6,301,886	62,238	32,837	3,089,004	12,397,978	1,202,887	26,815,104	13,214,239	13,959	3,918	5,140	3	2,000	2,898	10,753	17

Furniture, wood, other than rattan and willow.....	1	Lumber, planing-mill products, not including planing mills connected with sawmills.....	2	Patent and proprietary compounds, not elsewhere specified.....	1	Steam fittings and steam and hot-water heating apparatus.....	1
Gas, illuminating and heating.....	1	Mineral and carbonated waters.....	1	Paving materials.....	1	Tools, not elsewhere specified.....	1
House-furnishing goods, not elsewhere specified.....	1	Models and patterns, not including paper patterns.....	2	Pumps, steam.....	2	Wood, turned and carved.....	1
Iron and steel, welding.....	1	Oil, animal.....	1	Soap.....	1	Wooden goods, not elsewhere specified.....	1
Knit goods.....	1	.....	1	Stationary goods, not elsewhere specified.....	2	Wool scouring.....	1
Liquors, malt.....	2	.....	1	.....	1	Woolen goods.....	1

2,571,481	1,527,806	29,864,920	506,121	278,810	6,932,266	74,204,498	2,788,010	137,801,538	60,800,030	85,556	10,929	28,500	70	25,860	11,188	30,351	1
6,822	728	20,711	.....	1,441	1,307	113,556	513	164,880	50,811	9	.....	.....	.....	.....	9	.....	2
161,489	97,875	584,790	.....	12,093	25,510	1,732,665	20,310	3,137,655	1,384,080	476	304	.....	.....	.....	172	.....	3
49,270	15,667	245,795	.....	3,000	44,192	753,339	209	1,245,871	492,323	1,430	1,140	250	.....	.....	40	307	4
7,392	80,160	240,407	.....	24,383	6,361	1,092,985	38,772	1,723,508	591,750	169	.....	.....	.....	.....	169	.....	5
1,500	886	37,026	.....	4,895	2,024	182,635	2,243	296,520	111,642	142	80	.....	10	.....	52	.....	6
.....	.....	3,549	.....	1,128	122	16,303	635	33,052	16,114	2	.....	.....	.....	.....	2	.....	7
1,000	936	33,477	.....	3,767	1,902	166,332	1,608	283,468	95,528	140	80	.....	10	.....	50	.....	8
613,330	3,764	48,245	.....	2,162	1,843	54,545	1,619	168,300	112,136	5	.....	.....	.....	.....	5	.....	9
23,330	263,305	11,661,528	88,824	40,000	2,941,534	34,734,841	1,260,325	60,451,404	24,456,238	54,217	5,875	25,108	10	22,535	689	32,433	10
23,185	3,402	45,763	246	3,997	6,179	216,596	3,930	379,918	159,392	131	.....	.....	.....	.....	131	.....	11
207,899	96,539	997,893	.....	5,893	281,466	2,906,819	116,153	5,369,860	2,346,888	3,020	1,010	1,860	.....	.....	150	1400	12

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

LOWELL—Continued.															Dollars.		
																14,432	
1	Food preparations, not elsewhere specified.	3	28	4				24	De	36	Oc	4	36	11	25		3,940,555
2	Foundry and machine-shop products	17	681	13	23	50	48	547	Ap	218	Jy	118	627	620	2	5	3,529,559
3	Boiler shops and foundries.	5	174	3	10		7	154	De	461	Je	353	160	160			3,587,996
4	Machine shops.	12	507	10	13	50	41	303	De	5,679	My	5,041	461	454	2	5	10,647,355
5	Knit goods.	5	5,471	2	22	14	76	5,357	No	116	Fe	91	5,679	1,598	3,932	50	540,558
6	Lumber, planing-mill products, not including planing mills connected with sawmills.	6	130	1	13	3	9	104					110	110			
7	Marble and stone work, monuments and tombstones.	5	9	5				4	Je ^a	6	Ja	1	5	5			13,349
8	Mattresses and spring beds, not elsewhere specified.	3	26	3			2	21	Fe ^a	23	My ^a	19	22	19	3		38,503
9	Mineral and soda waters.	6	25	7	2		1	15	Je ^a	18	De	12	14	14			88,238
10	Patent medicines and compounds.	5	198	2	12	11	28	145	No	203	Je	106	184	98	86		1,562,804
11	Printing, job.	9	65	10	2			53	Oc ^a	56	Je	47	56	51	5		85,541
12	Printing and publishing, newspapers and periodicals.	9	152	6	14	22	12	98					105	94	11		598,609
13	Printing and publishing.	3	124	2	11	22	11	78	De	84	Je ^a	72	85	77	8		414,989
14	Printing, publishing, and job printing.	3	24	3	1			20	(*)	20	(*)	20	20	17	3		181,850
15	Publishing without printing.	3	4	1	2		1										1,200
16	Textile machinery and parts.	12	2,333	5	72	50	66	2,140	Oc	2,603	Ap	1,775	1,828	1,668	129	25	5,674,722
17	Tobacco, cigars and cigarettes.	8	22	7	1			13	De	15	So	11	14	12	2		28,813
18	Wirework, not elsewhere specified.	3	28	2	2	1	2	21	De	35	My	13	45	23		10	51,789
19	Woolen goods.	5	787		44	13	7	733	Je	841	Fe	331	784	533	248	3	3,372,736
20	Worsted goods.	8	1,258	9	29	5	13	1,202	De	1,391	Fe	783	1,391	448	787	32	3,075,021
21	All other industries *	81	5,417	67	91	172	199	4,888					4,109	2,583	1,429	75	22,188,971

*All other industries embrace—
Ammunition.
Artificial limbs.
Artists' materials, crayons.
Automobile bodies and parts.
Automobile repairing.
Awning, tents, and sails.
Bookbinding and blank-book making.
Boot and shoe cut stock.

Boxes, set-up paper boxes.
Brass and bronze products.
Brooms.
Brushes.
Carpets and rugs, other than rag.
Carpets, rag.
Carriages and wagons.
Cars and general shop construction and repairs by electric-railroad companies.

Cleansing preparations.
Clothing, women's.
Coffee, roasting and grinding.
Combs and hairpins, not made from metal or rubber.
Druggists' preparations.
Electrical machinery, apparatus, and supplies.
Electroplating.

Engraving, steel and copper plate, including plate printing.
Fancy articles, not elsewhere specified.
Felt goods.
Furniture, wood, other than rattan and willow.
Gas, illuminating and heating.
Glass, cutting, staining, and ornamenting.

LYNN—All industries.....		442	32,266	388	1,208	1,543	1,772	27,365	De 30,400	Ap 25,531	28,522	21,131	7,065	210	110	97,501,713
1	Automobile repairing.....	4	23	3	.....	.....	.....	.....	My ^a 21	Fe 13	19	19	.....	.....	.....	27,654
2	Blacking, stains, and dressings.....	11	149	6	10	23	28	77	De 84	Ap 71	84	54	30	.....	.....	328,385
3	Boot and shoe cut stock.....	39	958	45	53	26	38	706	De 846	Ap 738	846	650	159	36	1	9,012,328
4	Boot and shoe findings.....	57	1,146	64	44	32	44	982	De 1,141	My 777	1,151	757	349	18	27	2,667,728
5	Boots and shoes, not including rubber boots and shoes.....	105	13,480	72	471	270	544	12,123	.....	.....	13,164	7,061	5,315	127	61	27,728,162
6	Regular factory products.....	93	13,368	59	470	260	542	12,028	De 12,953	My 11,253	13,024	7,620	5,219	127	58	27,602,268
7	All other.....	12	112	13	1	1	2	95	No 135	Je 72	140	41	96	.....	8	35,594
8	Boxes, set-up paper boxes.....	4	137	4	14	2	3	114	No 117	Ap ^a 112	115	47	67	1	.....	245,114
9	Bread and other bakery products.....	43	274	47	9	21	21	176	Au 190	Ja ^a 163	187	141	46	.....	.....	247,445
10	Clothing, women's.....	3	55	3	2	.....	.....	43	No 66	Ja 25	60	1	58	.....	1	66,265
11	Confectionery and ice cream.....	7	59	4	4	2	11	38	.....	.....	44	23	21	.....	.....	105,677
12	Confectionery.....	3	24	3	2	.....	.....	19	Je 29	Se 14	29	14	15	.....	.....	40,422
13	Ice cream.....	4	35	1	2	2	11	19	Je 27	Ja 14	15	9	6	.....	.....	56,235
14	Cutlery and edge tools.....	3	28	2	3	.....	.....	21	Ap ^a 22	Mh ^a 20	21	21	.....	.....	.....	24,660
15	Electrical machinery, apparatus, and supplies.....	6	12,433	1	465	1,020	873	10,084	De 11,591	Mh 9,270	9,501	9,085	505	1	.....	38,278,597
16	Foundry and machine-shop products.....	19	464	18	20	43	26	357	No ^a 403	Ja 282	395	388	7	.....	.....	1,047,658
17	Lasts.....	8	399	6	21	16	9	347	Je 411	Ja 263	300	332	17	11	.....	738,536
18	Leather, tanned, curried, and finished.....	11	1,105	3	26	12	23	1,041	De 1,188	Ja 828	1,188	1,038	150	.....	.....	11,508,052
19	Lumber, planing-mill products, not including planing mills connected with sawmills.....	5	29	3	2	.....	3	21	De 27	My 15	27	27	.....	.....	.....	79,209
20	Marble and stone work, monuments and tombstones.....	4	20	5	.....	.....	2	13	My 17	Ja ^a 10	12	12	.....	.....	.....	28,499
21	Mattresses and spring beds, not elsewhere specified.....	3	9	3	.....	1	.....	5	(^a) 5	(^a) 5	5	5	4	1	.....	10,800
22	Mineral and carbonated waters.....	4	36	6	3	2	2	23	Je ^a 35	Ja 17	18	18	.....	.....	.....	68,448
23	Models and patterns, not including paper patterns.....	12	62	16	.....	.....	3	43	Je 48	Oc ^a 35	49	48	.....	1	.....	75,915
24	Mudclage, paste, and other adhesives, not elsewhere specified.....	4	67	4	6	12	6	39	No ^a 46	Ap 33	46	36	4	6	.....	296,310
25	Printing, job.....	20	185	19	8	5	15	138	No 168	Ja 115	167	118	43	5	1	339,558
26	Tools, not elsewhere specified.....	4	27	3	3	1	1	19	De 35	Ja 8	35	35	.....	.....	.....	52,335
27	All other industries *.....	66	1,121	51	54	50	114	852	.....	.....	938	616	293	10	19	4,463,805

* All other industries embrace—
Artificial stone products.
Automobile bodies and parts.
Awning, tents, and sails.
Babbitt metal and solder.
Baking powders.
Boxes, wooden packing, except cigar boxes.

Brass and bronze products.
Brick, building.
Brushes.
Butter.
Carriage and wagon materials.
Carriages and wagons, repair work only.

Cars and general shop construction and repairs by electric-railroad companies.
Clothing, men's, buttonholes.
Copper, tin, and sheet-iron work.
Druggists' preparations.
Electroplating.
Flavoring extracts.

Flour-mill and gristmill products.
Food preparations, not elsewhere specified.
Gas, illuminating and heating.
Grease, soap stock.
Hair work.
Iron and steel, cut nails and spikes, not made in steel works or rolling mills.

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—MASSACHUSETTS.

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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- 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.	15	15	15	15	1
72,500	91,614	602,956	385,029	15,535	34,050	1,086,820	44,944	2,284,779	1,153,015	747	312	56	23	358	150
31,277	7,302	179,070	423,886	6,505	13,661	231,393	13,209	551,746	304,144	238	75	56	23	168	150
41,223	84,812	5,008,872	131,248	9,030	21,098	852,427	31,735	1,733,033	818,871	509	237	1,035	2,200	193	948
105,876	112,813	46,287	11,446	8,791	44,166	9,873,481	121,699	17,172,099	7,176,919	8,211	4,650	15		326	211
								1,131,274	381,359	220					
		4,257	7,701	400	176	5,532	553	30,554	24,489	22	12			10	
	1,374	20,862	150	2,940	528	51,122	491	90,293	38,680	33				33	
2,500	750	13,173		3,094	3,624	50,782	1,170	87,909	36,047	36				36	
84,236	28,941	127,464		4,395	113,568	595,011	7,042	1,512,540	909,887	621	571			50	6
9,800	3,696	61,223		5,993	2,399	106,956	3,266	254,530	144,308	105				105	
33,525	40,895	187,779	5,616	4,200	18,991	172,406	10,997	661,323	477,920	161				161	
28,525	38,420	143,509		2,480	15,855	122,657	9,093	511,895	410,145	140				140	
	1,875	24,270		720	3,011	49,749	1,904	101,617	49,904	21				21	
5,000	600		5,616	1,000	125			17,811							
220,571	157,495	2,565,036		7,476	181,258	2,832,532	101,849	7,185,191	4,250,763	2,734	585			590	1,550
1,560	200	12,429		2,104	8,870	28,009	317	57,903	28,947	1				25	
2,688	2,918	19,351	544	1,492	896	53,307	837	89,888	35,744	60				60	
162,770	22,720	880,150	534	6,200	375,879	3,127,221	84,350	5,398,558	2,156,981	1,969	1,200			310	450
100,610	76,522	1,017,382		41,195	101,538	2,260,063	101,515	4,429,638	2,067,100	2,870	1,675			225	976
641,744	464,046	5,330,655	17,477	73,330	2,015,918	11,389,059	855,601	21,443,848	12,199,188	8,150	2,475	200	27	5,448	859

Glucose and starch.....	1	Millinery, trimmed hats and hat frames.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	2	Structural ironwork, not made in steel works or rolling mills.....	3
Clue, fish.....	1	Models and patterns, not including paper patterns.....	1	Scales and balances.....	1	Suspenders, garters, and elastic woven goods.....	1
Iron and steel, welding.....	1	Musical instruments, piano materials.....	1	Signs, other than electric.....	2	Toys and games.....	1
Jewelry.....	1	Paper goods, not elsewhere specified.....	2	Soap.....	2	Vinegar and cider.....	2
Leather goods, not elsewhere specified.....	1	Perfumery and cosmetics.....	1	Stationery goods, not elsewhere specified.....	1	Window and door screens.....	2
Leather, tanned, curried, and finished.....	1	Photographs and graphophones.....	1	Stencils and brands.....	1	Wire.....	1
Liquors, malt.....	1	Pickles and preserves.....	2	Stereotyping and electrotyping.....	1	Wood, turned and carved.....	1
Looking-glass and picture frames.....	1					Wool scouring.....	1

4,405,016	4,295,653	32,992,420	185,265	756,298	5,295,651	83,620,797	1,382,549	160,905,792	75,806,446	29,132	4,114	16,027	15	8,376	29,800	1
33,160	69,131	13,903		3,122	326	44,242	1,346	78,586	32,998	27				27		2
238,058	133,974	93,959		20,131	5,037	560,258	1,922	942,601	374,421	38				38		3
142,267	87,593	926,287	19,009	58,556	395,840	18,512,409	22,526	23,152,402	4,617,467	454	150			304	110	4
1,895,934	1,398,191	15,068,732	14,190	70,917	34,311	4,534,482	22,854	7,057,957	2,500,621	691				691		5
1,895,184	1,395,943	14,992,728	71,874	406,911	1,147,351	37,745,424	153,991	60,457,349	28,557,934	3,470	433			3,043	42	6
				403,735	1,147,130	37,721,498	151,612	60,319,719	28,446,609	3,412	433			2,970	42	7
750	2,248	76,004		3,176	221	23,925	2,370	137,630	111,325	64				64		8
17,693	7,073	89,113		10,786	3,371	211,980	2,874	605,239	290,385	46				46		9
18,503	35,738	199,330		24,145	7,399	1,040,889	27,539	1,631,554	557,126	139				139		10
1,874	1,140	28,273	125	1,384	140	46,007	553	110,340	63,780	12				12		11
5,890	10,940	39,138		0,886	3,088	126,178	4,683	251,153	120,292	99	20			79		12
1,740		16,634		1,550	2,020	58,452	1,292	102,360	42,616	35				15		13
4,150	10,940	22,504		5,336	1,908	67,726	3,391	148,793	77,678	64				64		14
7,022	2,447	32,181		759	168	16,610	2,180	80,231	61,435	23				18		15
1,278,746	2,189,210	12,463,448		9,500	2,071,809	6,548,792	486,857	33,149,457	26,113,808	17,620	1,383	16,000	5	237	29,333	16
60,804	64,061	427,225	1,141	31,828	19,099	387,415	15,158	1,209,363	806,790	358	10			348		17
84,486	41,413	400,493	5,698	9,817	70,563	420,061	20,822	1,479,362	1,037,879	619				619		18
332,425	51,610	1,269,916	52,638	18,745	925,383	10,526,249	75,772	15,824,162	5,222,141	2,301	1,100			1,201		19
8,000	3,124	34,616		3,768	586	50,728	3,449	123,676	69,499	158				158		20
	1,004	21,282		419	339	12,287	2,336	52,856	38,233	72				72		21
	1,750	4,262	500	1,200	47	12,290	225	27,274	14,759	18				18		22
5,420	3,351	22,127		1,500	5,368	92,050	1,020	178,905	84,935	36				36		23
	896	67,374	2,688	7,070	911	25,270	2,026	190,497	150,201	46				46		24
25,980	29,833	43,887		4,400	30,657	411,322	4,017	710,039	294,700	137	105			32	8	25
27,693	18,833	127,159	1,258	13,642	5,030	173,261	3,449	501,081	324,371	152			10	142		26
3,794	1,498	18,132		2,161	306	7,675	860	44,244	35,709	28				28		27
222,387	136,489	860,464	10,164	41,661	566,432	2,108,318	625,184	7,141,464	4,507,962	2,582	918	627		1,042	307	28

Iron and steel, welding.....	1	Paving materials.....	2	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Surgical appliances.....	1
Leather goods, not elsewhere specified.....	2	Perfumery and cosmetics.....	2	Saddlery and harness.....	1	Tobacco, cigars.....	1
Millinery and lace goods, embroideries.....	1	Photo-engraving.....	1	Saws, machine.....	1	Typewriter supplies, carbon paper.....	2
Paper goods, not elsewhere specified.....	1	Printing and publishing, newspapers and periodicals.....	6	Shipbuilding, wooden, repair work only.....	1	Wirework, not elsewhere specified.....	1
Patent and proprietary medicines.....	4	Pulp goods.....	1	Soap.....	1	Wooden goods, not elsewhere specified.....	1

¹ Same number reported for one or more other months.

¹ Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

	267	43,226	231	565	396	404	41,630	De 44,197	Ap 39,852	44,209	25,591	10,689	915	1,014	Dollars.
1 NEW BEDFORD—All industries.	17	66	14	4	2	4	42	Ja 45	Se 38	46	46				80,832
2 Automobile repairing.	55	540	63	16	28	16	417	Ja 448	My 382	419	322	76		21	800,802
3 Bread and other bakery products.	9	86	18	3	2	7	56	Je 64	Ja 50	55	30	25			134,118
4 Confectionery and ice cream.	8	65	7	3		5	50	Au 58	Ap 45	48	48				91,267
5 Copper, tin, and sheet-iron work.	31	35,808	5	281	157	159	35,206	De 37,002	Ap 33,865	36,904	20,165	15,020	805	914	168,900,717
6 Cotton goods.	10	280	7	8	0	2	257	No 267	Au 235	256	238	16	2		358,949
7 Foundry and machine-shop products.	6	77	6	4		2	65	No 75	Ja 56	76	74	1			134,205
8 Lumber, planing-mill products, not including planing mills connected with sawmills.	6	31	5	2		1	26	Se 37	Fe 10	23	23				78,083
9 Marble and stone work.	7	50	7	3		5	41	Jy 52	Ja 29	40	36	3	1		127,650
10 Mineral and carbonated waters.	4	79	2	6	1	5	65	De 74	Mh 62	74	60	14			903,784
11 Oil, animal and composite.	3	9	1	1			7	(4) 7	(4) 7	7	6	1			14,395
12 Patent medicines and compounds.	16	94	19	4	3	3	65	De 71	Ja 60	74	53	21			102,476
13 Printing and publishing, book and job.	9	213	5	19	22	16	151	De 156	Ja 146	153	142	11			215,003
14 Printing and publishing, newspapers and periodicals.	7	46	9	2	2	2	31	Ja 32	Je 30	2	28	4			61,267
15 Sausage, not made in slaughtering and meat-packing establishments.	3	35	3	2		4	26	My 33	Ja 18	32	32				36,716
16 Shipbuilding, wooden, small boats.	9	186	9	10	1	6	190	De 177	My 149	177	134	40	3		225,642
17 Textile machinery and parts.	67	5,552	51	197	172	197	4,965			5,794	4,154	1,457	104	79	17,332,479
18 All other industries*.															

* All other industries embrace—
Artificial stone products.....
Automobile bodies and parts.....
Awnings, tents, and sails.....
Bookbinding and blank-book making.....
Boat and shoe findings.....
Boots and shoes, not including rubber boots and shoes.....

Boxes, set-up paper boxes.....
Boxes, wooden packing, except cigar boxes.....
Brass and bronze products.....
Brooms, from broom corn.....
Card cutting and designing.....
Carpets, rag.....
Carriages and wagons, repair work only.....

Cars and general shop construction and repairs by electric-railroad companies.....
Clothing, women's.....
Coffee and spice, roasting and grinding.....
Cooperage, hogsheds and barrels.....
Cordage and twine.....
Cotton small wares.....

Electrical machinery, apparatus, and supplies.....
Firearms.....
Food preparations, not elsewhere specified.....
Furniture.....
Gas, illuminating and heating.....
Glass.....

	140	6,978	105	209	390	163	6,111	Fe 0,853	No 3,764	5,805	5,211	530	40	24	44,089,118
1 SOMERVILLE—All industries.	3	32	2	2		1	27	My 30	Ja 24	28	28				46,688
2 Automobile bodies and parts.	29	352	32	12	22	7	279	Ap 313	Se 236	245	181	00	1	3	615,668
3 Bread and other bakery products.	3	47	3		1		43	Se 49	De 34	34	1	33			14,600
4 Clothing, women's.	7	65	3	6	2	1	53	(4) 11	(4) 11	42	30	10	2		127,762
5 Confectionery and ice cream.	3	14	3				11	(4) 11	(4) 11	11	2	8	1		26,583
6 Confectionery.	4	51		6	2	1	42	Jy 63	Ja 24	31	28	2	1		101,179
7 Ice cream.	3	89	1	8	4	2	74	No 78	Ja 71	70	70				359,586
8 Grease and tallow, not including lubricating greases.	3	71	1	2	9	4	55	De 71	Ja 34	71	53	12	0		118,764
9 House-furnishing goods, not elsewhere specified.	3	45	1	4		5	35	De 51	Ja 21	51	49		2		168,908
10 Lumber, planing-mill products, not including planing mills connected with sawmills.	3	13	5	1			7	Au 10	Ja 6	6	6				31,553
11 Mineral and carbonated waters.	11	24	12	1	1	1	9	(4) 9	(4) 9	10	10				20,668
12 Printing, job.	5	48	3	3	9	7	26	Fe 28	No 24	26	19	6	1		54,003
13 Printing and publishing, newspapers and periodicals.	5	48	3	3	9	7	26	Fe 28	No 24	26	19	6	1		54,003
14 Slaughtering and meat packing.	5	3,640	1	59	227	63	3,290	Ja 4,154	No 811	2,862	2,786	74	2		35,088,970
15 Tools, not elsewhere specified.	3	15	2	1	1	1	10	(4) 10	(4) 10	10	10				51,896
16 All other industries*.	62	2,537	39	110	114	71	2,203			2,344	1,962	385	26	21	7,395,062

* All other industries embrace—
Artificial limbs.....
Artificial stone products.....
Automobile repairing.....
Bags, paper, not including bags made in paper mills.....
Bookbinding and blank-book making.....

Boots and shoes, not including rubber boots and shoes.....
Boxes, set-up paper boxes.....
Boxes, wooden packing, except cigar boxes.....
Brass, bronze, and copper products.....
Brushes.....
Carriages and wagons.....

Cars and general shop construction and repairs by steam-railroad companies.....
Cleansing and polishing preparations.....
Coffins, burial cases, and undertakers' goods.....
Cutlery and edge tools.....
Dyeing and finishing textiles, exclusive of that done in textile mills.....

Dyestuffs and extracts—natural.....
Fancy articles, celluloid novelties.....
Food preparations, not elsewhere specified.....
Foundry and machine-shop products.....
Furniture, wood, other than rattan and willow.....
Glass, cutting, staining, and ornamenting.....

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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[illegible]

Dollars. 2,406,117	Dollars. 951,212	Dollars. 40,012,121	Dollars. 188,611	Dollars. 874,772	Dollars. 11,830,434	Dollars. 118,520,168	Dollars. 4,041,600	Dollars. 210,773,312	Dollars. 88,202,564	150,248	90,266	19,857	537	39,588	27,720	1
8,751	3,738	46,292	.....	7,447	2,832	51,354	4,061	184,897	129,482	70	.....	.....	2	.....	68	.....	2
37,824	49,526	431,120	.....	24,561	33,061	1,405,422	43,905	2,409,319	959,902	257	.....	49	5	.....	203	.....	3
3,760	6,520	49,469	.....	4,475	2,827	299,123	9,400	445,075	138,402	260	.....	.....	.....	.....	250	.....	4
2,139	3,656	67,611	.....	3,458	308	77,353	1,483	199,090	120,854	37	.....	.....	.....	.....	87	.....	5
1,565,968	407,704	33,186,313	185,741	761,664	10,408,123	101,551,873	3,102,250	177,058,520	72,404,301	134,086	85,812	17,982	450	.....	29,842	26,674	6
17,683	6,976	319,209	.....	7,859	20,402	249,729	15,596	744,740	479,415	243	.....	.....	.....	.....	243	.....	7
7,646	1,488	66,176	187	4,383	2,350	180,744	4,135	290,053	111,174	66	330	.....	.....	.....	336	.....	8
.....
10,400	1,200	29,410	1,385	50	709	15,706	1,742	90,210	72,672	88	.....	.....	.....	.....	88	.....	9
7,790	3,465	42,026	.....	600	24,663	225,488	3,220	385,355	156,647	25	.....	.....	.....	.....	25	.....	10
36,317	5,574	02,804	.....	300	28,283	1,484,832	7,754	1,890,030	397,444	110	81	.....	.....	.....	29	.....	11
682	.....	7,773	189	612	403	11,657	278	27,099	15,104	.....	.....	.....	.....	.....	.....	.....	12
8,428	6,148	54,401	880	6,004	922	64,300	3,588	207,075	139,129	85	.....	.....	.....	.....	85	.....	13
85,573	36,440	172,976	1,555	11,723	13,881	205,987	14,473	650,405	438,945	416	.....	.....	72	.....	344	.....	14
2,600	3,844	39,187	.....	2,626	1,343	468,060	6,000	573,008	98,858	107	.....	.....	.....	.....	107	.....	15
3,500	2,498	41,070	.....	1,348	106	25,680	508	80,740	60,543	38	.....	.....	.....	.....	38	.....	16
20,905	4,260	137,411	1,200	5,034	4,413	295,243	8,797	640,942	836,902	177	40	.....	.....	.....	137	13	17
697,027	408,185	5,258,783	47,474	32,535	1,204,709	11,910,448	814,226	24,876,154	12,144,480	13,583	3,054	1,876	8	.....	7,746	1,033	18

Glass, cutting, staining, and ornamenting.....	1	Leather goods, not elsewhere specified.....	1	Pickles and sauces.....	1	Steam fittings and steam and hot-water heating apparatus.....	1
Grease and tallow, not including lubricating greases.....	2	Liquors, malt.....	2	Plated ware, hollow ware.....	1	Tobacco, cigars.....	1
Hats and caps, other than felt, straw, and wool.....	1	Machine tools.....	1	Saddlery and harness.....	2	Tools, not elsewhere specified.....	1
Ice, manufactured.....	2	Mattresses and spring beds, not elsewhere specified.....	2	Scorers, wood.....	1	Toys and games.....	1
Iron and steel, welding.....	1	Paints.....	2	Show cases.....	1		
Knit goods.....	1	Paper and wood pulp.....	1	Silk goods, including throwsters.....	2		
		Paper goods, not elsewhere specified.....	1	Slaughtering and meat packing.....	1		
				Stationery goods, not elsewhere specified.....	1		

711,029	775,527	7,021,671	112,692	102,258	679,681	86,323,750	773,591	99,658,513	12,461,172	15,293	3,098	350	96	1	11,148	208
1,287	868	39,491	-----	115	684	30,361	2,000	80,916	48,549	38	-----	-----	-----	-----	38	-----
32,506	44,524	287,063	-----	11,199	11,080	987,012	28,080	1,652,912	687,814	136	-----	-----	-----	-----	196	-----
3,786	26,180	-----	-----	1,100	90	44,700	597	86,754	41,527	10	-----	-----	-----	-----	10	-----
22,245	3,018	79,432	3,380	8,842	7,180	336,305	4,923	493,031	151,743	71	-----	-----	-----	-----	7	-----
-----	8,810	-----	-----	562	200	34,271	938	52,939	17,730	9	-----	-----	-----	-----	0	-----
22,245	3,018	70,622	3,380	3,280	6,920	302,094	3,085	440,092	134,013	62	-----	-----	-----	-----	62	-----
15,194	10,498	82,685	-----	160	10,602	302,715	10,813	609,832	200,304	165	105	-----	-----	-----	-----	8
5,000	18,774	46,026	115	2,447	820	111,832	4,192	219,554	103,500	111	-----	-----	38	-----	73	-----
9,896	3,282	46,145	1,442	-----	1,990	45,005	3,854	146,402	97,003	238	225	-----	-----	-----	13	-----
750	-----	8,614	-----	1,525	541	35,793	853	61,201	24,645	18	-----	-----	-----	-----	18	-----
1,900	2,595	11,138	200	1,619	348	21,398	639	56,957	34,920	22	-----	-----	3	-----	19	-----
3,580	13,660	20,585	2,650	1,190	741	16,711	1,770	86,705	68,224	18	-----	-----	-----	-----	18	-----
211,642	428,173	4,112,728	94,761	10,734	339,448	78,168,604	449,967	84,740,246	6,122,215	6,011	2,525	350	-----	-----	3,196	200
1,000	2,322	11,747	-----	1,054	1,345	23,148	48,405	48,901	24,440	26	-----	-----	-----	-----	26	-----
406,629	247,127	2,249,937	10,244	61,213	297,813	6,109,958	259,116	11,274,862	4,905,788	8,429	783	-----	55	1	7,590	-----

Hand stamps.....	1	Patent and proprietary medicines.....	1	Steam fittings and steam and hot-	1	Vinegar.....	1
Hardware.....	1	Paving materials.....	1	water heating apparatus.....	1	Window and door screens.....	1
Jewelry.....	1	Pickles and sauces.....	1	Suspenders, garters, and elastic	1	Wood, turned and carved.....	1
Leather, tanned, curried, and		Pocketbooks.....	1	woven goods.....	1	Wooden goods, not elsewhere speci-	1
finished.....	1	Pulp goods.....	1	Textile machinery and parts.....	1	fied.....	1
Looking-glass and picture frames.....	1	Refrigerators.....	1	Theatrical scenery.....	1		
Mirrors, framed and unframed, not		Show cases.....	1	Tinware, not elsewhere specified.....	1		
elsewhere specified.....	1	Stationary goods, not elsewhere		Tobacco, cigars.....	2		
Optical goods.....	2	specified.....	1	Trunks and valises.....	2		

* Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

		401	22,421	204	986	1,365	1,347	18,429	De 21,083	Ja 15,450	21,558	15,539	5,444	258	317	Dollars.
1	SPRINGFIELD—All industries.	401	22,421	204	986	1,365	1,347	18,429	De 21,083	Ja 15,450	21,558	15,539	5,444	258	317	81,448,826
2	Automobile bodies and parts.	6	512	1	36	14	27	434	Ja 610	No 204	446	439	6	1	1	1,401,909
3	Automobile repairing.	17	156	13	9	19	6	109	De 121	Ja 84	121	118	1	2	2	202,605
4	Awnings, tents, and sails.	3	24	5	2	2	3	10	Je 31	Ja 8	9	5	4			47,690
5	Bookbinding and blank-book making.	3	54	2	2		2	48	Ap 49	Ja 47	40	16	25	5	3	37,974
6	Boxes, set-up paper boxes.	4	65	4			1	60	De 72	Se 51	72	13	50	2	7	35,886
7	Brass and bronze products.	5	830	2	55	61	24	694	Ja 753	Se 653	719	638	44	14	3	2,935,886
8	Bread and other bakery products.	58	611	58	30	62	25	441	Oc 490	Fe 383	477	380	97			1,524,404
9	Carriages and wagons.	3	42	6	1		1	34	Mh 42	Ja 28	36	36				142,715
10	Clothing, women's.	4	74	2	3	2	1	63	My 76	Ja 52	68	3	65			93,322
11	Coffee, roasting and grinding.	3	8	3				5	(*) 5	(*) 5	5	5				37,720
12	Confectionery and ice cream.	12	515	15	19	62	50	369	Oc 425	Je 273	348	144	199	3	40	1,656,356
13	Confectionery.	6	445	8	13	57	40	327	Oc 425	Je 273	348	108	197	3	40	1,296,656
14	Ice cream.	6	70	7	6	5	10	42	Jy 59	Ja 30	38	36	2			390,300
15	Copper, tin, and sheet-iron work.	13	70	15			4	50	Oc 62	My 40	62	61		1		109,655
16	Electrical machinery, apparatus, and supplies.	10	1,838		57	173	170	1,438	De 2,295	Mh 933	2,280	1,578	688	4	16	8,924,183
17	Engraving and diesinking.	5	7	6				1	(*) 1	(*) 1	1	1				2,621
18	Fancy articles, not elsewhere specified.	3	52	2	1		1	48	No 70	Ja 18	63	3	60			64,988
19	Food preparations, not elsewhere specified.	4	17	2	4	1		10	(*) 10	(*) 10	11	9	2			34,084
20	Foundry and machine-shop products.	27	1,629	14	83	78	87	1,367	Se 233	Je 211	1,801	1,767	29	5		5,575,795
21	Boiler shops and foundries.	5	242	1	8	5	5	223	De 1,572	Ja 845	1,575	1,542	29	4		444,115
22	Machine shops.	22	1,387	13	75	73	82	1,144	Oc 59	Ja 48	1,575	1,542	29	4		5,131,680
23	Hand stamps.	4	67	4	7	3		53	De 59	Ja 48	58	28	21	3	6	68,671
24	Leather goods, not elsewhere specified.	3	50	2	3	3	6	36	Au 44	Fe 27	34	8	21	2	3	104,001
25	Mattresses and spring beds, not elsewhere specified.	3	27	3		1	1	22	Oc 25	Ja 20	20	17	3			95,535
26	Mineral and carbonated waters.	6	52	4	7	2	4	35	Jy 51	Ja 23	31	29	2			168,575
27	Models and patterns, not including paper patterns.	6	55	7			2	40	De 62	Ja 26	62	61	1			72,007
28	Paper goods, not elsewhere specified.	5	93	6	8	6	11	62	De 84	Ap 44	80	74	6			627,637
29	Printing and publishing, book and job.	39	583	30	52	37	86	378			394	244	129	14	7	1,743,714
30	Job printing.	32	464	27	34	7	20	378	My 389	Se 366	392	242	129	14	7	1,098,570
31	All other.	7	119	3	18	30	66	2	(*) 2	(*) 2	2	2				645,144
32	Printing and publishing, newspapers and periodicals.	11	770	5	31	174	194	366	Ap 398	No 335	387	325	45	17		2,394,818
33	Saws.	4	257	2	20	47	14	174	De 234	Mh 139	234	153	80		1	1,577,511
34	Stationery goods, not elsewhere specified.	4	630		24	19	29	558	Se 627	Fe 471	580	175	383	5	17	1,679,749
35	Tobacco, cigars.	14	391	19	4			368	Oc 423	My 307	434	282	151	1		546,993
36	Tools, not elsewhere specified.	8	415	5	32	4	11	363	De 384	Mh 353	384	372	8	4		734,790
37	All other industries.*	114	12,521	62	498	596	587	10,778			12,248	8,535	3,324	175	214	48,716,219

*All other industries embrace—
 Artificial limbs. 1
 Belting, leather. 2
 Boxes, wooden packing, except cigar boxes. 1
 Brick, building. 1
 Brooms, from broom corn. 1
 Brushes. 2
 Card cutting and designing. 2
 Cardboard, not made in paper mills. 1
 Carpets and rugs, other than rag. 1

Carpets, rag. 2
 Cars and general shop construction and repairs by steam-railroad companies. 1
 Cash registers and parts. 1
 Chemicals. 3
 Chocolate and cocoa products. 1
 Cleansing and polishing preparations. 1
 Clothing, men's. 3
 Corsets. 1
 Cotton goods. 4

Cotton small wares. 1
 Druggists' preparations. 2
 Dyestuffs and extracts—natural. 1
 Electroplating. 2
 Emery and other abrasive wheels. 1
 Envelopes. 3
 Firearms. 1
 Flavoring extracts. 1
 Flour-mill and gristmill products. 2
 Fur goods. 2
 Furniture. 2

Gas fixtures. 1
 Gas, illuminating and heating. 1
 Glass, decalcomania work. 1
 Gold, leaf and foil. 1
 Hats and caps, other than felt, straw, and wool. 2
 House-furnishing goods, mops and dusters. 1
 Iron and steel, forgings, not made in steel works or rolling mills. 2

		618	45,825	446	1,779	2,656	2,271	38,673	De 43,436	Jy 36,094	44,831	34,345	9,290	639	557	182,501,999
1	WORCESTER—All industries.	618	45,825	446	1,779	2,656	2,271	38,673	De 43,436	Jy 36,094	44,831	34,345	9,290	639	557	182,501,999
2	Automobile repairing.	5	54	3	3	3	3	42	Ap 46	My 36	44	43		1		194,324
3	Bookbinding and blank-book making.	4	68	5	1	2	3	59	An 64	Ja 46	65	24	34	5	2	84,556
4	Boot and shoe cut stock.	3	57	3	5	2	3	44	Oc 48	Mh 35	46	38	7	1		159,807
5	Boots and shoes, not including rubber boots and shoes.	11	1,492	8	57	47	63	1,817	No 1,602	Ja 841	1,870	680	804	46	40	4,019,689
6	Brass and bronze products.	4	31	2	6			23	Ap 51	My 10	22	22				103,625
7	Bread and other bakery products.	51	504	52	20	36	28	368	Oc 382	Ap 359	392	277	87	7	21	746,824
8	Brushes.	3	54	1	7	2	3	41	An 44	Oc 38	43	20	18	5		68,834
9	Carriages and wagons, including repairs.	3	44		4	1		35	My 42	No 29	33	31	1	1		112,967
10	Clothing, men's.	13	223	20	10	15	4	174			202	94	102	1	5	845,970
11	Men's and youths.	10	204	18	9	13	4	160	No 180	Ja 76	183	91	86	1	5	817,233
12	All other.	3	19	2	1	2		14	De 19	Ja 10	19	3	16			28,737
13	Clothing, women's.	21	651	35	19	32	20	545			588	87	483	1	17	1,212,986
14	Suits, skirts, and cloaks.	4	57	12	1		3	41	Ap 62	Jy 17	42	26	18			221,559
15	Shirt waists and dresses, except house dresses.	8	260	13	6	17	8	216	Oc 241	Ja 141	209	30	165	1	13	335,662
16	All other.	9	334	10	12	15	9	288	Je 346	Fe 211	337	31	302		4	655,765
17	Confectionery and ice cream.	12	92	15	5	6	7	59			57	40	14	1	2	186,531
18	Confectionery.	3	17	4				13	Mh 15	Ap 10	14	3	8			12,817
19	Ice cream.	9	75	11	5	6	7	46	Jy 61	Ja 84	43	37	6			173,764

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—MASSACHUSETTS.

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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. 3,777,684	Dollars. 3,290,526	Dollars. 556,420	Dollars. 8,016	Dollars. 11,932	Dollars. 10,257	Dollars. 320,029	Dollars. 19,143	Dollars. 1,759,735	Dollars. 1,414,563	31,024	6,710	3,470	130	2,855	18,459	4,605	1
99,981	49,817	556,420	8,016	11,932	10,257	320,029	19,143	1,759,735	1,414,563	127	500	500	175	175	1,760	249	2
28,640	27,943	131,041	2,032	24,898	13,804	125,488	7,962	418,710	285,200	110	11	11	11	11	110	11	3
7,550	1,600	35,833	.....	2,256	214	24,287	441	67,212	42,484	11	11	11	11	11	11	11	4
.....	936	35,833	.....	3,228	1,485	21,449	690	80,071	58,042	16	16	16	16	16	16	16	5
165,902	133,546	905,710	.....	3,298	369	32,988	480	84,245	60,771	11	11	11	11	11	11	11	6
68,909	124,583	480,505	.....	5,340	414,165	1,241,069	52,370	3,407,771	2,174,332	2,200	500	500	175	175	1,760	249	7
2,190	780	35,847	.....	35,437	19,023	2,834,454	63,899	4,347,014	1,448,001	772	772	772	772	772	772	772	8
11,200	2,424	50,213	3,264	824	1,038	31,618	1,936	92,008	58,454	50	50	50	50	50	50	50	9
69,174	133,153	257,307	.....	4,154	2,800	90,990	310	103,409	102,100	11	11	11	11	11	11	11	10
49,254	113,263	214,297	.....	2,040	584	117,820	904	142,613	23,883	13	13	13	13	13	13	13	11
9,920	19,890	43,010	.....	8,169	131,020	1,637,011	20,178	2,048,450	932,261	601	175	175	175	175	326	249	12
209,612	366,235	1,674,340	209	5,524	127,106	1,270,176	18,736	2,102,570	873,658	329	329	329	329	329	154	249	13
.....	.....	.....	.....	2,045	4,754	300,835	10,442	485,880	108,603	172	172	172	172	172	172	172	14
.....	.....	.....	.....	6,188	2,027	101,807	1,120	223,830	120,807	18	18	18	18	18	18	18	15
.....	14,068	144,068	2,350,557	40,603	7,270,769	4,885,709	1,219	1,219	1,219	1,219	1,219	1,219	1,219	16
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Iron and steel, welding.....	2	Musical instruments, organs.....	1	Saddlery and harness.....	1	Steam fittings and steam and hot-	1
Knit goods.....	2	Optical goods.....	1	Sand-line brake.....	1	water heating apparatus.....	2
Lithographing.....	3	Paints.....	1	Screws, machine.....	2	Stereotyping and electrotyping.....	1
Looking-glass and picture frames.....	1	Patent and proprietary medicines.....	2	Shipbuilding, wooden, masts, spars,	1	Structural ironwork, not made in	1
Lumber, planing-mill products, not	.....	Photographic materials.....	1	oars, and rigging.....	1	steel works or rolling mills.....	2
including planing mills connected	.....	Photo-engraving.....	4	Signs and advertising novelties.....	2	Toys and games.....	1
with sawmills.....	2	Plumbers' supplies, not elsewhere	2	Slaughtering and meat packing.....	2	Type founding.....	2
Machine tools.....	2	specified.....	2	Soap.....	2	Waste.....	2
Motorcycles, bicycles, and parts.....	2	Pocketbooks.....	1	Sporting and athletic goods.....	2	Wirework, not elsewhere specified.....	2
Musical instruments and materials,	.....	Regalia, and society badges and em-	1	Stamped ware, not elsewhere spec-	2	Wooden goods, not elsewhere spec-	1
not elsewhere specified.....	1	blems.....	1	ified.....	2	ified.....	1

7,108,284	5,766,705	44,439,967	400,776	817,485	7,935,610	101,205,207	4,075,795	208,705,773	102,524,771	94,712	37,081	4,592	727	129	52,184	18,061	1
5,440	5,344	45,099	.....	2,424	8,244	53,093	4,783	150,033	97,587	40	.....	.....	.....	.....	40	.....	2
1,780	3,572	30,342	.....	5,866	730	17,789	420	95,978	77,763	37	.....	.....	.....	.....	37	.....	3
30,817	4,522	35,814	.....	2,503	1,111	319,865	840	430,572	109,867	16	.....	.....	.....	.....	16	.....	4
220,225	224,394	1,174,550	12,777	32,349	113,890	4,315,455	25,681	7,396,821	3,055,785	603	110	.....	.....	.....	493	.....	5
10,900	.....	38,201	2,500	.....	1,145	113,404	7,345	191,799	70,990	25	.....	.....	.....	.....	25	.....	6
68,269	103,109	385,801	.....	24,855	30,839	1,872,261	48,049	2,865,707	945,397	388	125	.....	.....	.....	263	.....	7
18,440	6,007	30,061	1,901	3,208	1,237	70,326	688	148,722	71,710	17	.....	.....	.....	.....	17	.....	8
9,877	3,035	45,630	.....	5,500	2,700	53,006	1,819	171,118	85,693	60	.....	.....	.....	.....	60	.....	9
26,091	31,274	187,748	47,963	6,907	6,505	712,787	4,311	1,238,117	521,019	92	55	.....	.....	.....	37	.....	10
24,096	29,258	175,733	47,963	5,275	6,289	572,560	4,106	1,159,142	497,476	87	55	.....	.....	.....	32	.....	11
1,395	2,016	12,015	.....	1,632	266	55,227	205	78,975	23,543	5	.....	.....	.....	.....	5	.....	12
68,714	90,842	391,547	7,236	30,236	8,584	1,683,482	10,158	2,701,668	1,008,028	224	150	.....	.....	.....	74	.....	13
3,840	2,716	42,702	6,036	2,597	704	317,239	2,410	447,193	127,544	12	.....	.....	.....	.....	12	.....	14
20,452	44,782	157,819	1,200	7,028	1,878	554,621	1,954	979,717	423,142	28	.....	.....	.....	.....	28	.....	15
35,422	43,344	191,026	.....	20,611	5,912	811,622	5,794	1,274,758	457,342	184	150	.....	.....	.....	34	.....	16
9,715	19,100	66,980	.....	13,961	1,066	433,596	8,800	695,346	250,950	132	.....	.....	.....	.....	132	.....	17
.....	.....	8,885	.....	1,965	98	24,630	780	50,376	24,966	1	.....	.....	.....	.....	1	.....	18
9,715	19,100	58,095	.....	11,998	998	413,966	5,020	644,970	225,984	131	.....	.....	.....	.....	131	.....	19

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.

WORCESTER—Continued.															Dollars.
1	Copper, tin, and sheet-iron work.....	8	65	7	5	1	6	46	My	51	No	42	48	48	174,679
2	Cossets.....	7	1,387	23	77	59	1,228	Oc	1,305	My	1,155	1,286	145	1,033	3,329,245
3	Cotton goods.....	5	557	33	24	14	486	Ja	649	Ap	322	591	155	418	4,001,454
4	Cotton small wares.....	3	72	2	5	5	65	Oc	77	Ja	53	77	10	45	147,424
5	Cutlery and edge tools.....	6	538	2	14	21	484	Jy	521	No	439	490	398	74	616,217
6	Dyeing and finishing textiles, exclusive of that done in textile mills.	3	220	1	0	3	206	Oc	214	Ja	195	210	175	85	670,553
7	Electrical machinery, apparatus, and supplies.	10	770	5	26	17	685	De	933	Ja	401	933	567	341	1,464,805
8	Electroplating.....	8	140	4	17	6	115	No	152	Fe	77	125	119	3	150,860
9	Engraving and diesinking.....	3	6	3			3	(*)	3	(*)	3	4	3	1	500
10	Envelopes.....	7	1,420	33	46	74	1,267	De	1,397	Au	1,199	1,397	439	951	3,945,261
11	Flavoring extracts.....	3	8	4	1	1	2	(*)	2	(*)	2	2	1	1	10,306
12	Food preparations, not elsewhere specified.	7	13	7			6					6	6		18,620
13	Breadstuffs, cereals, and breakfast food.	3	6	3			3	(*)	3	(*)	3	3	3		5,080
14	All other.....	4	7	4			3	(*)	3	(*)	3	3	3		13,540
15	Foundry and machine-shop products.	48	3,245	27	155	122	2,772	De	2,377	Au	2,046	2,378	3,119	78	11,829,248
16	Machine shops.....	38	2,555	20	118	107	2,156	De	822	Je	353	2,378	2,296	78	10,013,262
17	All other.....	10	690	7	37	15	616	Mh	43	Fe	28	857	853	4	1,815,960
18	Furniture.....	4	47	3	6	2	36	De	14	Ja	5	39	36	1	62,064
19	Hats and caps, other than felt, straw, and wool.	3	11	3			8	Se	14	Ja	5	13	7	6	19,197
20	Jewelry.....	4	50	4	2	5	30	Oc	44	Je	35	44	28	4	33,899
21	Leather goods, not elsewhere specified.	4	79	5	3	8	62	Ja	69	Ja	62	69	34	28	120,324
22	Lumber, planing-mill products, not including planing mills connected with sawmills.	8	199	5	8	5	173	De	197	Ap	151	197	193	4	585,499
23	Machine tools.....	15	2,878	9	109	175	2,433	De	2,760	Jy	2,206	2,760	2,679	79	12,242,331
24	Marble and stone work.....	8	27	9		1	17	My	23	Ja	10	18	18		62,906
25	Mineral and carbonated waters.	7	42	8	8	2	22	Je	52	De	8	28	28		76,504
26	Models and patterns, not including paper patterns.	7	60	11	4	2	43	De	58	Ja	28	61	59	2	44,447
27	Motorcycles, bicycles, and parts.	4	170	3	5	4	151	Fe	201	Au	104	139	97	27	411,997
28	Musical instruments, piano and organ materials.	5	752	1	17	6	712	No	837	Ja	529	834	572	242	1,281,510
29	Printing, job, linotype work and typesetting.	33	263	37	15	8	186	No	209	My	175	206	157	34	355,500
30	Printing and publishing, newspapers and periodicals.	19	654	5	33	101	464					479	417	46	1,414,774
31	Printing and publishing.....	3	528	18	81	35	394	Oc	406	Ja	377	402	359	34	1,187,715
32	Printing, publishing, and job printing.	7	108	3	14	8	70	De	77	Au	65	77	58	12	225,589
33	Publishing without printing.....	9	18	2	1	12	8								1,460
34	Sausage, not made in slaughtering and meat-packing establishments.	4	46	3	3	13	26	My	31	No	18	21	21		114,789
35	Screws, machine.....	6	302	19	5	15	263	Fe	311	Oc	151	326	242	64	1,043,797
36	Stamped ware, not elsewhere specified.	9	459	3	35	12	395	De	465	Je	343	405	417	32	1,127,217
37	Structural ironwork, not made in steel works or rolling mills.	6	261	3	15	9	217	Au	263	Ap	169	250	250		845,109
38	Textile machinery and parts.....	20	3,669	10	99	423	2,851	No	3,213	Fe	2,412	3,181	3,042	107	12,246,544
39	Tobacco, cigars.....	9	77	10	1		66	No	104	Ap	30	102	76	26	90,877
40	Tools, not elsewhere specified.	17	711	11	45	58	546					626	598	41	1,726,606
41	Machinists' tools.....	7	174	4	11	3	149	Ja	198	My	114	172	103	2	578,533
42	All other.....	10	537	7	34	55	397	De	454	My	365	454	405	39	1,845,073
43	Wirework, not elsewhere specified.	6	679	1	20	60	552	Ja	616	Jy	503	614	351	225	1,303,039
44	Wood, turned and carved.....	5	61	5	1	2	53	No	57	Fe	49	61	39	12	49,206
45	Wooden goods, not elsewhere specified.	4	23	1	6	1	15	Ap	19	De	13	13	11	2	24,397
46	Woolen goods.....	8	776	5	31	2	730	De	846	Fe	448	846	530	304	3,351,346
47	Worsted goods.....	5	795	4	17	3	757	De	857	Mh	601	857	328	443	3,819,971
48	All other industries*.....	150	21,027	81	824	1,295	17,784					21,111	17,604	3,052	106,464,496

*All other industries embrace—
 Agricultural implements.....
 Aluminum manufactures.....
 Ammunition.....
 Artificial limbs.....
 Artificial stone products.....
 Asbestos textile-mill products, not including steam packing.....
 Automobile bodies and parts.....
 Awnings, tents, and sails.....
 Bags, other than paper, not including bags made in textile mills.....
 Belting, leather.....
 Billiard tables, bowling alleys, and accessories.....
 Blacking, stains, and dressings.....
 Boot and shoe findings.....

Boxes, cigar.....
 Boxes, paper cartons.....
 Boxes, wooden packing, except cigar boxes.....
 Carpets and rugs, other than rag.....
 Carriage and wagon materials.....
 Cars and general shop construction and repairs by electric-railroad companies.....
 Cars and general shop construction and repairs by steam-railroad companies.....
 Chemicals.....
 Cleansing preparations.....
 Cloth, sponging and refinishing.....
 Coffee, roasting and grinding.....

Coffins, burial cases, and undertakers' goods.....
 Combs and hairpins, not made from metal or rubber.....
 Dental goods.....
 Druggists' preparations.....
 Emery and other abrasive wheels.....
 Enameling.....
 Engines, steam, gas, and water.....
 Engraving, steel and copper plate, including plate printing.....
 Fancy articles, paper novelties.....
 Files.....
 Firearms.....
 Flour-mill and gristmill products.....
 Furnishing goods, men's.....

Gas and electric fixtures.....
 Gas and water meters.....
 Gas, illuminating and heating.....
 Glass, cutting, staining, and ornamenting.....
 Hand stamps.....
 Hardware.....
 House-furnishing goods, mops and dusters.....
 Ice, manufactured.....
 Iron and steel, steel works and rolling mills.....
 Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....
 Iron and steel, forgings, not made in steel works or rolling mills.....

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—MASSACHUSETTS

81

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.				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.							
26,470	14,812	55,670		3,998	4,289	97,798	464	245,626	147,364	16				12	1	
151,906	297,193	843,013		13,885	124,571	2,377,849	10,364	5,235,051	2,840,338	624	520		4	104	2	
225,999	95,930	434,249	30,680	21,526	450,054	3,789,125	29,719	5,864,459	2,045,615	1,200	525	100		575	3	
18,860		37,444		2,065	3,335	154,806	2,847	262,049	104,396	40				40	4	
75,476	40,019	488,553	1,875	3,600	33,403	233,595	21,946	1,132,696	377,155	459	200			259	5	
68,100	9,890	188,372		20,000	27,035	500,667	29,218	1,016,184	486,299	310	270			40	6	
22,446	73,513	675,512		28,563	54,029	1,703,892	10,097	3,110,670	1,330,681	402	30			372	7	
48,048	10,799	117,419		8,016	2,283	42,415	7,787	305,466	255,264	214				214	8	
		4,941		950	0	50	25	12,333	12,261	2				2	9	
141,409	145,801	1,116,969		11,825	148,313	3,745,839	25,689	6,469,355	2,697,827	807	585			222	10	
	1,626	700		105	54	12,612	45	21,700	9,103					30	11	
		6,580		2,204	111	41,803	2,406	53,709	9,506	44	14			30	12	
		3,540		780		20,501	484	22,147	1,162	25	14			11	13	
		3,046		1,424	111	21,302	1,076	31,622	8,344	19				19	14	
786,258	363,409	3,488,796	56,659	51,134	518,889	5,682,037	261,809	13,564,481	7,711,135	6,335	923			5,407	15	
645,120	330,312	2,654,452	56,059	42,324	409,402	4,812,902	190,805	11,251,223	6,247,516	5,288	853			4,485	16	
138,136	33,097	834,344		8,810	49,487	769,135	70,504	2,303,258	1,463,619	1,047	75			972	17	
9,910	2,155	39,840	3,285	7,471	513	73,437	1,180	145,578	71,261	70				70	18	
		6,455		1,017	82	24,930	240	40,470	21,300	5				5	19	
4,898	3,773	33,378	300	2,506	519	25,169	1,504	103,785	77,112	80				30	20	
9,155	10,692	41,006		2,621	694	88,251	1,401	166,141	76,489	67	15			42	21	
16,399	23,502	221,510		14,552	14,054	372,661	7,617	819,024	438,746	1,117	975			142	22	
357,834	410,805	2,855,419	31,038	75,740	238,041	3,107,998	125,979	9,595,959	6,361,982	4,273	1,170			3,103	23	
	1,000	22,863		562	711	39,058	1,491	119,614	79,370	54			18	86	24	
11,085	2,645	20,765	379	4,852	1,760	40,460	1,827	117,488	60,201	93	35		1	57	25	
5,200	1,088	70,315		4,071	703	18,367	1,193	133,833	114,023	65				65	26	
17,057	13,994	154,434		10,281	1,835	465,051	9,433	778,782	804,298	191				191	27	
65,558	19,796	785,500		30,849	9,413	995,108	19,282	2,259,892	1,245,472	535	375			160	28	
53,150	22,894	182,765	18,061	24,484	11,504	317,230	4,969	808,201	486,002	160				100	29	
112,135	134,111	553,238	20,393	18,000	40,600	531,088	26,254	2,132,057	1,575,015	453				453	30	
67,692	111,505	470,549		9,910	29,931	422,761	23,429	1,720,600	1,274,419	359				359	31	
44,405	21,580	82,689	3,120	8,690	10,729	108,012	2,825	387,130	275,402	94				94	32	
83	1,076		17,273			15		25,209	25,104						33	
7,032	14,366	30,770		2,484	4,405	366,988	3,866	458,434	87,630	81	20			61	34	
46,537	15,424	316,053		6,505	37,547	425,510	27,352	939,220	483,358	564				564	35	
140,887	34,790	475,115		17,324	46,074	580,750	28,169	1,511,601	907,772	567	175			392	36	
51,642	26,377	274,446		1,800	13,121	590,060	11,601	1,142,849	590,798	551	20			331	37	
443,083	564,459	3,795,977	77,282	23,705	980,953	4,172,093	144,756	12,953,937	8,636,183	4,230	1,975		6	2,249	38	
1,945		71,088		2,404	20,836	109,650	452	224,634	120,623	6				6	39	
189,944	122,501	680,907	162	32,046	129,389	1,072,796	80,893	3,020,205	1,866,511	1,269	50		20	1,199	40	
66,323	8,809	181,801	153	13,831	21,322	75,077	5,890	515,492	433,925	265				265	41	
123,621	113,692	499,106	4	18,215	105,067	997,110	75,008	2,504,713	1,432,586	1,004			20	934	42	
96,837	131,468	481,227	199	10,500	51,159	541,835	17,232	1,750,514	1,161,447	468	125			343	43	
	3,488	46,704	635	1,787	743	29,536	2,836	109,425	76,953	111	75			36	44	
6,500	400	18,741	1,457	2,060	149	19,533	1,282	50,982	30,167	36			12	24	45	
228,008	10,803	775,037	121,633	10,395	164,774	2,354,556	75,742	4,782,280	2,351,982	2,324	225			2,099	46	
90,658	18,982	719,127	2,114	20,202	80,741	2,344,776	64,336	4,082,705	1,073,593	1,483	64			1,419	47	
3,068,106	2,683,716	21,892,390	51,697	185,354	4,528,875	54,477,055	3,802,135	107,075,570	48,796,380	63,826	28,269	4,492	687	108	15,170	48

Iron and steel, nails and spikes, not made in steel works or rolling mills.
 Iron and steel, tempering and welding.
 Japaning.
 Jewelry and instrument cases.
 Knit goods.
 Laths.
 Lead, bar, pipe, and sheet.
 Leather, tanned, curried, and finished.
 Liquors, malt.
 Lithographing.
 Looking-glass and picture frames.
 Matches.
 Mattresses and spring beds, not elsewhere specified.

Musical instruments and materials, not elsewhere specified.
 Musical instruments, pianos.
 Needles, pins, and hooks and eyes.
 Oil, composite.
 Optical goods.
 Ordnance and accessories.
 Patent medicines and compounds.
 Paying materials.
 Perfumery and cosmetics.
 Photo-engraving.
 Photographic materials.
 Pickles and sauces.
 Refrigerators.
 Regalia, and society badges and emblems.

Rubber tires, tubes, and rubber goods, not elsewhere specified.
 Saddlery and harness.
 Saws.
 Screws, wood.
 Shirts.
 Show cases.
 Signs, other than electric.
 Silk goods, including throwsters.
 Slaughtering and meat packing.
 Sporting and athletic goods.
 Stationery goods, not elsewhere specified.
 Statuary and art goods.
 Steam fittings and steam and hot-water heating apparatus.
 Steam packing.

Stencils and brands.
 Stereotyping and electrotyping.
 Surgical appliances.
 Suspenders, garters, and elastic woven goods.
 Tobacco, smoking.
 Toys and games.
 Trunks and valises.
 Umbrellas and canes.
 Vinegar and cider.
 Wall paper, not made in paper mills.
 Window and door screens.
 Window shades and fixtures.
 Wire.
 Woolshoddy.

* Same number reported for one or more other months.

* Same number reported throughout the year.

MANUFACTURES—MASSACHUSETTS.

TABLE 40.—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.			16 and over.		Under 16.						
						Male.	Female.	Average number.	Number, 15th day of		Total.	Male.	Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	ADAMS.....	32	4,114	28	43	31	38	3,974	De	4,185	Au	3,524	4,199	2,558	1,448	105	88	11,298,790	
2	AMESBURY.....	44	3,457	38	97	40	109	3,173	De	3,565	Ap	2,710	3,683	3,154	492	27	10	8,747,338	
3	ARLINGTON.....	27	294	20	24	7	15	228	De	240	Ja	208	262	236	24	2	.....	1,602,207
4	ATTLEBORO.....	144	7,748	160	300	235	290	6,763	De	7,719	Ja	5,842	7,589	5,434	1,843	166	146	22,632,192	
5	BELMONT.....	6	108	4	4	3	4	93	De	106	Fe	52	106	92	13	1	.....	200,282
6	BEVERLY.....	70	7,624	63	359	364	343	6,495	De	7,766	Mh	5,615	7,770	6,470	1,195	75	30	18,064,021	
7	BRAINTREE.....	19	2,392	10	32	71	103	2,176	De	2,386	Ap	2,017	2,386	1,505	697	112	72	6,601,205	
8	BROOKLINE.....	32	593	24	37	15	33	484	Ja	822	Je	360	494	267	197	6	24	1,514,915	
9	CHELSEA.....	123	7,870	107	342	466	375	6,580	Au	6,919	My	6,249	6,945	4,906	1,775	128	136	25,618,972	
10	CHICOPEE.....	60	12,065	37	405	1,420	735	10,068	De	11,043	Je	9,634	12,126	9,424	2,384	154	164	69,411,199	
11	CLINTON.....	33	4,394	28	63	68	80	4,155	De	4,441	Fe	3,847	4,439	2,499	1,597	160	174	15,916,555	
12	DANVERS.....	25	1,653	15	62	42	60	1,474	Fe	1,515	My	1,430	1,527	1,003	450	28	40	6,035,247	
13	DEDHAM.....	20	524	17	26	8	10	463	Au	542	Ja	372	535	304	185	22	24	1,278,193	
14	DEATHAMPTON.....	28	4,299	20	48	49	40	4,142	De	4,359	Ja	3,918	4,380	2,556	1,600	123	101	18,489,006	
15	EVERETT.....	104	5,437	58	304	301	251	4,523	De	4,961	My	4,147	4,959	4,154	658	85	62	65,718,095	
16	FITCHBURG.....	121	10,948	82	341	307	311	9,907	De	10,534	My	9,409	10,563	7,090	3,045	223	235	51,829,392	
17	FRAMINGHAM.....	59	5,191	43	204	189	393	4,862	De	5,557	Ja	3,549	5,557	3,560	1,867	61	69	13,908,197	
18	GARDNER.....	73	4,525	48	182	140	119	4,036	De	4,723	Ap	3,638	4,728	3,657	851	149	71	20,063,351	
19	GLOUCESTER.....	90	3,012	61	107	73	117	2,684	De	3,023	Ap	2,531	2,986	2,163	766	18	39	11,635,710	
20	GREENFIELD.....	53	3,337	38	107	204	238	2,750	De	3,125	Jy	2,569	3,165	2,620	510	23	12	13,932,977	
21	LEOMINSTER.....	92	6,843	64	220	107	159	5,793	De	6,480	Ja	5,307	6,533	4,084	2,232	129	88	13,515,034	
22	MALDEN.....	108	5,689	94	260	341	271	4,723	De	5,169	Je	4,338	5,154	2,909	2,066	65	114	24,669,731	
23	MARLBOROUGH.....	48	4,116	40	89	56	133	3,798	De	4,037	Ap	3,466	4,054	2,553	1,344	90	67	7,972,139	
24	MEDFORD.....	54	1,259	34	92	51	51	1,031	De	1,260	Ja	922	1,260	827	394	14	25	4,771,891	
25	MELROSE.....	27	1,938	19	42	180	91	1,606	Ja	1,787	Jy	1,459	1,726	765	905	12	44	7,062,576	
26	METHUEN.....	33	2,687	27	41	16	32	2,571	De	2,830	Fe	2,149	2,696	999	1,472	111	114	13,135,692	
27	MILFORD.....	48	2,006	48	71	36	42	1,809	De	2,132	My	1,671	2,135	1,395	654	49	87	3,897,536	
28	NATICK.....	49	1,686	56	67	58	42	1,463	De	1,690	Ja	1,196	1,779	1,343	420	12	4	6,712,228	
29	NEWBURYPORT.....	64	4,410	50	138	118	144	3,960	Ap	4,044	Au	3,842	4,325	2,652	1,651	46	66	13,554,071	
30	NEWTON.....	49	2,866	31	65	108	115	2,547	De	2,777	Mh	2,319	2,769	1,842	867	41	29	10,466,233	
31	NORTH ADAMS.....	65	6,630	53	184	181	189	6,023	De	6,499	My	5,451	6,459	4,217	1,992	141	109	25,331,703	
32	NORTHAMPTON.....	63	3,870	44	104	85	105	3,532	De	3,797	Ja	3,274	3,893	2,330	1,346	123	94	13,969,947	
33	NORTHBRIDGE.....	13	4,033	13	45	71	33	3,871	De	4,259	Mh	3,603	4,263	3,519	578	97	69	14,535,992	
34	NORWOOD.....	26	3,286	19	140	139	153	2,835	De	3,150	Ja	2,512	3,142	2,441	652	32	17	13,620,156	
35	PEABODY.....	91	8,676	67	280	146	170	8,013	De	8,801	Ja	7,303	8,781	7,853	852	54	22	32,786,949	
36	PITTSFIELD.....	90	10,733	76	470	865	740	8,570	De	10,255	Ja	6,756	10,313	7,471	2,622	77	143	35,847,896	
37	PLYMOUTH.....	31	3,232	18	72	82	89	2,971	De	3,225	Ja	2,515	3,225	2,446	751	18	10	28,525,538	
38	QUINCY.....	162	21,276	188	257	743	435	19,653	Mh	22,079	De	12,666	12,677	12,087	571	8	11	30,466,341	
39	REVERE.....	31	181	32	12	5	6	126	De	161	Ap	89	167	143	23	1	.....	815,301
40	SALEM.....	163	6,352	124	269	99	188	5,672	De	6,523	My	4,894	6,530	3,956	2,343	114	117	21,198,391	
41	SAUGUS.....	14	150	14	5	1	4	126	No	193	Ap	66	166	152	0	3	2	654,325	
42	SOUTHBRIDGE.....	41	6,034	33	240	197	235	5,329	De	5,675	Mh	4,935	5,676	3,221	2,183	150	122	15,790,232	
43	TAUNTON.....	167	9,946	114	316	282	253	8,981	No	9,385	Mh	8,521	9,715	6,808	2,540	194	173	31,649,631	
44	WAKEFIELD.....	32	2,034	19	70	31	45	1,889	De	2,126	Ap	1,666	2,102	1,313	753	16	20	7,640,532	
45	WALTHAM.....	93	8,669	75	228	104	193	8,069	De	8,909	Mh	7,430	8,907	5,716	3,076	76	39	26,888,296	
46	WATERTOWN.....	25	9,926	16	270	581	639	8,420	De	9,439	Ja	7,720	9,439	5,962	3,299	117	61	21,428,115	
47	WEBSTER.....	24	4,149	15	61	117	107	3,849	Cc	4,345	Mh	3,286	4,128	2,653	1,112	189	174	13,548,524	
48	WESTFIELD.....	85	3,890	77	147	253	170	3,243	De	3,701	Je	2,913	3,709	2,878	727	48	56	12,449,307	
49	WEST SPRINGFIELD.....	23	3,358	17	116	292	142	2,791	De	3,171	Fe	2,426	3,174	2,825	341	5	3	9,073,174	
50	WEYMOUTH.....	34	2,462	22	86	92	116	2,146	Au	2,298	Ja	1,977	2,333	1,531	673	70	59	13,624,739	
51	WINCHESTER.....	17	1,233	9	65	16	31	1,112	De	1,198	Fe	1,009	1,236	1,096	135	5	.....	4,327,880
52	WINTHROP.....	19	91	19	7	1	3	61	'u'	64	Ja	59	64	31	33	.....	.....	164,637
53	WOBURN.....	53	2,264	36	91	77	49	2,011	De	2,323	Ap	1,688	2,341	2,005	311	16	9	10,170,388	

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]

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

[illegible]

^a Same number reported for one or more other months.