

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

WASHINGTON

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 \$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 1908 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 overcome 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.

WASHINGTON.

GENERAL STATISTICS.

General character of the state.—Washington has a gross area of 69,127 square miles, of which 66,836 represent land surface. The inhabitants of the state in 1900 numbered 518,103; in 1910, 1,141,990; and in 1920, 1,356,621. In total population Washington ranked thirtieth among the states in 1920. The number of inhabitants per square mile in 1910 was 17.1, the corresponding figure for 1920 being 20.3.

In 1920 there were 10 cities in the state—Aberdeen, Bellingham, Everett, Hoquiam, Seattle, Spokane, Tacoma, Vancouver, Walla Walla, and Yakima—having more than 10,000 inhabitants. The combined population of these 10 cities in that year was 642,017, which formed 63.8 per cent of the total for Washington. These cities in 1919 reported 63.8 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 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 increases shown, however, in average 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 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. Of the 39 counties in the state, King and Pierce, containing the cities of Seattle and Tacoma, reported 56 per cent of the total value of products in the state and 50.6 per cent of the average number of wage earners.

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

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 31.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 500 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. Seattle is by far the most important city in the state and shows an increase during this five-year period of 28,414, or 228.6 per cent, in the average number of wage earners, and \$209,955,797, or 325.6 per cent, in value of products.

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, this table gives similar data for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more. The table also shows a number of industries in the state in 1919 employing a considerable proportion of female wage earners.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Washington. In that year only 15.7 per cent of the wage earners were reported in the group "48 and under" as against 93.9 per cent in 1919. In 1914, the "60" and "Over 60" groups constituted 64.9 per cent of the total number of wage earners, as compared with 1.5 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 average number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 94.7 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 31.3 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 5.3 per cent of the total

manufacturing establishments in the state, but reported 68.7 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 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 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 38.9 per cent of the total number of establishments in the state in 1919, they reported 90.5 per cent of the aver-

age number of wage earners and 91.4 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 61,190, or 103.4 per cent, and the value of products, \$522,977,978, or 241.4 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 10 cities in 1919 represented 50.3 per cent of the total in the state. They reported in that year 55.5 per cent of the average number of wage earners and 63.8 per cent of the total value of products.

Principal industries in Seattle, Spokane, and Tacoma, with per cent of total for the state (Table 16).—This table includes all industries in the cities of Seattle, Spokane, and Tacoma having products of \$700,000 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 297,869 horsepower, or 76.5 per cent. Of this increase, 162,761 horsepower, or 54.6 per cent, was owned power, and 135,108, or 45.4 per cent, rented power. During this five-year period, owned power increased 53.5 per cent and rented power 158.6 per cent.

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.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE.			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	4,918	3,829	3,674	2,751	1,926	28.4	4.2	33.0	42.8
Persons engaged.....	150,479	78,448	80,118	51,459	(¹)	91.8	-2.1	55.7	.....
Proprietors and firm members.....	4,195	3,155	3,284	2,002	(²)	33.0	-3.3	25.4	.....
Salaried employees.....	13,356	8,088	7,734	3,058	2,103	65.1	4.6	111.4	73.9
Wage earners (average number).....	132,928	67,205	69,120	45,199	31,523	97.8	-2.8	52.9	43.4
Primary horsepower.....	657,436	359,567	297,897	108,342	87,601	76.5	30.8	77.0	92.2
Capital.....	\$574,235,183	\$277,715,262	\$222,261,229	\$96,952,021	\$41,574,744	106.8	24.9	129.2	133.2
Salaries and wages.....	225,341,988	63,207,140	59,592,947	34,180,206	19,128,588	256.5	6.1	74.3	78.7
Salaries.....	30,373,766	11,504,088	9,826,579	4,092,919	2,063,443	164.0	17.1	140.1	98.4
Wages.....	194,968,222	51,703,052	49,766,368	30,087,287	17,065,140	277.1	3.0	65.4	76.3
Paid for contract work.....	5,376,513	2,132,242	2,175,766	2,480,710	(³)	152.2	-2.0	-12.3	.....
Rent and taxes.....	23,851,653	5,150,538	3,457,250	1,129,380	(³)	365.1	49.0	.....	.....
Cost of materials.....	443,177,531	136,609,309	117,887,688	66,166,165	38,276,944	224.4	15.9	78.2	72.9
Value of products.....	809,622,984	245,326,456	220,740,421	128,821,667	70,831,345	230.0	11.1	71.4	81.9
Value added by manufacture.....	306,445,453	108,717,147	102,858,733	62,665,502	32,564,401	237.1	5.7	64.2	92.6

¹ A minus sign (-) denotes decrease.

² Figures not available.

³ Exclusive of internal revenue.

⁴ Value of products less cost of materials.

MANUFACTURES—WASHINGTON.

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.....	4,618	132,928	\$194,968,222	\$23,851,553	\$143,177,531	\$809,622,984	\$366,445,453	687,436
Adams.....	22	175	287,159	15,857	1,875,684	2,336,434	460,750	577
Asotin.....	14	92	80,220	4,906	580,820	796,705	215,876	425
Benton.....	29	89	118,851	16,893	874,238	1,214,806	340,568	653
Chelan.....	77	728	1,029,327	61,424	2,260,195	4,170,533	1,910,338	4,082
Clallam.....	57	1,633	2,465,748	115,123	3,006,200	6,547,924	3,544,724	\$975
Clarke.....	110	6,134	9,450,452	257,649	16,117,662	30,613,359	14,495,697	33,411
Columbia.....	22	85	112,077	9,497	1,061,268	1,331,503	270,235	574
Cowlitz.....	55	1,145	1,906,827	229,851	1,971,734	5,019,919	3,049,185	16,283
Douglas.....	29	31	48,387	8,060	153,418	286,591	133,173	331
Ferry.....	18	68	94,555	3,852	191,475	406,266	214,791	744
Franklin.....	13	354	463,502	29,523	1,759,085	2,416,482	657,397	670
Garfield.....	12	25	34,863	3,069	437,607	565,060	107,453	244
Grant.....	16	21	28,920	3,787	469,727	541,700	78,053	467
Grays Harbor.....	199	10,405	16,139,339	1,444,904	21,374,872	47,875,238	26,500,366	107,320
Island.....	30	158	224,836	4,874	304,012	792,467	488,455	1,374
Jefferson.....	46	686	915,761	68,522	1,355,614	2,962,415	1,606,801	7,455
King.....	1,405	47,474	72,841,759	12,659,457	162,708,895	304,501,932	141,883,037	135,253
Kitsap.....	73	1,068	1,351,639	129,407	2,668,189	4,823,990	2,155,891	7,781
Kittitas.....	46	372	547,539	27,687	829,093	1,717,739	888,646	1,890
Klickitat.....	49	257	435,775	14,062	359,215	1,144,229	755,011	2,382
Lewis.....	192	4,192	6,749,114	352,618	7,106,515	18,713,019	11,606,504	33,498
Lincoln.....	44	166	234,662	57,758	4,120,444	4,730,425	609,981	1,815
Mason.....	38	732	1,197,116	96,472	1,028,514	2,885,190	1,876,676	5,108
Okanogan.....	72	135	167,681	13,324	586,170	957,055	370,885	1,767
Pacific.....	104	2,539	3,968,300	195,384	4,880,462	11,456,328	6,575,866	20,056
Pend Oreille.....	46	969	1,054,352	69,733	1,102,312	3,182,368	2,080,026	8,969
Pierce.....	480	19,728	27,338,826	2,633,922	95,873,318	148,846,696	52,973,378	95,631
San Juan.....	19	244	252,634	14,865	1,139,515	2,012,175	872,660	663
Skagit.....	116	3,851	6,144,397	707,669	11,057,506	23,375,730	12,318,234	23,488
Skamania.....	18	267	469,844	11,550	228,866	890,455	631,589	1,203
Snohomish.....	294	9,418	13,832,988	1,880,496	24,797,351	51,714,143	26,916,792	53,229
Spokane.....	424	7,707	8,720,897	1,138,510	31,985,385	50,973,532	18,988,117	36,959
Stevens.....	67	702	773,485	48,044	2,709,637	4,041,823	1,355,186	9,284
Thurston.....	106	3,261	4,679,575	300,618	4,832,707	12,877,163	8,044,456	17,837
Wahkiakum.....	36	774	1,111,391	112,059	2,289,504	4,346,048	2,106,544	9,840
Walla Walla.....	89	492	627,646	107,535	4,509,254	6,270,166	1,769,912	2,321
Whatecom.....	210	4,726	6,635,523	727,409	17,632,973	33,133,401	12,500,488	27,599
Whitman.....	98	288	412,188	38,781	2,155,289	2,663,761	778,475	1,331
Yakima.....	143	1,047	1,924,113	239,472	4,768,764	9,106,091	4,337,327	5,336

MANUFACTURES—WASHINGTON.

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.....	4,918	132,928	100.0	\$509,623	100.0	\$366,445	100.0	Furniture.....	59	787	0.6	\$2,777	0.3	\$1,724	0.5
Lumber and timber products.....	1,130	53,393	40.2	220,512	27.2	135,208	36.9	Copper, tin, and sheet-iron work.....	110	409	0.3	2,547	0.3	1,405	0.4
Shipbuilding, steel.....	9	29,391	22.1	190,980	17.4	77,631	21.2	Engines, steam, gas, and water.....	13	546	0.4	2,527	0.3	1,402	0.4
Flour-mill and gristmill products.....	119	1,536	1.1	81,141	10.0	7,986	2.2	Clothing, men's.....	9	468	0.4	2,231	0.3	1,312	0.4
Slaughtering and meat packing.....	29	1,222	0.9	34,389	4.2	5,264	1.4	Food preparations, not elsewhere specified.....	40	128	0.1	2,005	0.3	663	0.2
Shipbuilding, wooden, including boat building.....	67	5,185	3.9	25,539	3.2	14,842	4.1	Pickles, preserves, and sauces.....	17	256	0.2	2,041	0.3	780	0.2
Foundry and machine-shop products.....	233	3,641	2.7	20,801	2.6	12,705	3.5	Liquors, malt.....	8	141	0.1	1,833	0.2	815	0.2
Condensed milk.....	14	734	0.5	19,587	2.4	3,940	1.1	Brick and tile, terra-cotta, and fire-clay products.....	35	664	0.5	1,783	0.2	1,227	0.3
Canning and preserving, fish.....	66	1,683	1.3	15,860	2.0	5,559	1.5	Brass, bronze, and copper products.....	16	163	0.1	1,068	0.2	603	0.2
Bread and other bakery products.....	364	1,743	1.3	15,043	1.9	5,806	1.6	Cars and general shop construction and repairs by electric-railroad companies.....	16	679	0.5	1,580	0.2	1,001	0.3
Cars and general shop construction and repairs by steam-railroad companies.....	35	6,480	4.9	14,935	1.8	9,211	2.5	Mattresses and spring beds, not elsewhere specified.....	12	226	0.2	1,365	0.2	634	0.2
Butter.....	101	475	0.4	12,991	1.6	2,260	0.6	Chemicals.....	8	90	0.1	1,369	0.2	828	0.2
Printing and publishing, newspapers and periodicals.....	316	1,404	1.1	11,954	1.5	9,156	2.5	Mineral and soda waters.....	53	123	0.1	1,257	0.2	585	0.2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	86	1,946	1.5	10,932	1.4	4,871	1.3	Automobile bodies and parts.....	58	276	0.2	1,226	0.2	761	0.2
Paper and wood pulp.....	6	1,610	1.2	10,653	1.3	5,591	1.5	Awnings, tents, and sails.....	15	107	0.1	1,174	0.1	422	0.1
Confectionery and ice cream.....	119	1,506	1.2	10,302	1.3	4,618	1.3	Clothing, women's.....	20	282	0.2	1,171	0.1	562	0.2
Canning and preserving, fruits.....	30	1,348	1.0	9,296	1.1	3,416	0.9	Electrical machinery, apparatus, and supplies.....	12	190	0.1	1,067	0.1	421	0.1
Automobile repairing.....	562	1,687	1.3	6,953	0.9	4,538	1.2	Jewelry.....	16	215	0.2	1,022	0.1	568	0.2
Tinware, not elsewhere specified.....	6	610	0.5	6,684	0.8	1,182	0.3	Boxes, paper and other, not elsewhere specified.....	11	329	0.2	973	0.1	521	0.1
Printing and publishing, book and job.....	232	906	0.7	4,710	0.6	3,199	0.9	Wooden goods, not elsewhere specified.....	8	280	0.2	944	0.1	653	0.2
Coffee, roasting and grinding.....	24	215	0.2	4,357	0.5	1,191	0.3	Marble and stone work.....	27	150	0.1	928	0.1	608	0.2
Gas, illuminating and heating.....	12	637	0.5	3,680	0.5	2,074	0.6	Saddlery and harness.....	42	74	0.1	922	0.1	436	0.1
Boxes, wooden packing, except cigar boxes.....	16	679	0.5	3,381	0.4	1,645	0.4	Agricultural implements.....	9	146	0.1	913	0.1	467	0.1
Cement.....	4	436	0.3	3,241	0.4	1,521	0.4	Vinegar and cider.....	19	98	0.1	902	0.1	477	0.1
Iron and steel forgings, not made in steel works or rolling mills.....	11	346	0.3	3,155	0.4	1,361	0.4	All other industries ¹	694	7,198	5.3	82,328	10.2	22,791	6.2

¹ Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are seven having products in excess of some for which figures are shown in the table. These industries are as follows: "Bags, other than paper, not including bags made in textile mills"; "cars, steam-railroad, not including operations of railroad companies"; "explosives"; "iron and steel, steel works and rolling mills"; "smelting and refining, copper"; "smelting, lead"; and "wood preserving."

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	150,479	139,977	10,502	93.0	7.0	Clerks and other subordinate salaried employees.....	1919	8,135	5,405	2,730	66.4	33.6
	1914	78,448	73,957	4,491	94.3	5.7		1914	5,169	4,158	1,011	80.4	19.6
	1909	80,118	76,342	3,776	95.3	4.7		1909	4,684	3,880	804	82.8	17.2
Proprietors and officials.....	1919	9,416	9,169	247	97.4	2.6	Wage earners (average number)...	1919	132,928	125,403	7,525	94.3	5.7
	1914	6,074	5,913	161	97.3	2.7		1914	67,205	63,886	3,319	95.1	4.9
	1909	6,314	6,201	113	98.2	1.8		1909	69,120	66,261	2,859	95.9	4.1
Proprietors and firm members...	1919	4,195	4,084	111	97.4	2.6	16 years of age and over.....	1919	132,655	125,202	7,453	94.4	5.6
	1914	3,155	3,028	127	96.0	4.0		1914	66,955	63,686	3,269	95.1	4.9
	1909	3,261	3,178	86	97.4	2.6		1909	68,854	66,012	2,842	95.9	4.1
Salaried officers of corporations...	1919	1,584	1,566	78	95.1	4.9	Under 16 years of age.....	1919	273	201	72	73.6	26.4
	1914	1,063	1,038	25	97.6	2.4		1914	250	200	50	80.0	20.0
	1909	1,094	1,078	16	98.5	1.5		1909	266	219	47	82.3	17.7
Superintendents and managers...	1919	3,637	3,579	58	98.4	1.6							
	1914	1,856	1,847	9	99.5	0.5							
	1909	1,956	1,945	11	99.4	0.6							

MANUFACTURES—WASHINGTON.

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.		Under 16 years of age.				16 years of age and over.		Under 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919	132,928	94.2	5.6	0.2	Flour-mill and gristmill products.....	1919	1,536	97.1	2.7	0.1
	1914	67,205	94.8	4.9	0.4		1914	928	97.7	2.3	0.1
	1909	69,120	95.5	4.1	0.4	Foundry and machine-shop products ¹	1919	3,661	99.7	0.3	0.1
Automobile repairing.....	1919	1,687	99.3	0.6	0.1		1914	1,850	99.8	0.1	0.1
	1914	67	100.0			Furniture.....	1919	787	83.4	16.4	0.3
Boxes, wooden packing, except cigar boxes.....	1919	679	90.7	7.7	1.6		1914	534	97.4	1.5	1.1
	1914	338	91.7	5.0	3.3	Gas, illuminating and heating.....	1919	637	99.7	0.3	
Bread and other bakery products.....	1919	1,743	66.4	32.5	1.1		1914	630	100.0		
	1914	1,419	66.6	31.9	1.5	Lumber and timber products.....	1919	53,393	98.9	1.1	(2)
Brick and tile, terra-cotta, and fire-clay products.....	1919	664	99.2	0.2	0.6		1914	36,461	99.7	0.2	0.1
	1914	362	99.1		0.9	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.....	1919	1,946	95.0	5.0	
Canning and preserving, fish.....	1919	1,683	83.5	16.2	0.3		1914	1,273	99.1		0.9
	1914	1,715	82.0	16.2	1.7	Paper and wood pulp ²	1919	1,610	91.0	9.0	
Canning and preserving, fruits.....	1919	1,348	31.6	64.5	3.9	Printing and publishing, book and job.....	1919	966	74.5	22.6	2.9
	1914	367	50.1	48.2	1.6		1914	962	82.7	11.8	2.5
Cars and general shop construction and re- pairs by electric-railroad companies.....	1919	679	98.5	1.3	0.1	Printing and publishing, newspapers and periodicals.....	1919	1,494	90.4	7.5	2.1
	1914	382	100.0				1914	1,302	86.6	11.6	1.8
Cars and general shop construction and re- pairs by steam-railroad companies.....	1919	6,480	98.6	1.4		Shipbuilding, including boat building.....	1919	34,576	99.7	0.1	0.2
	1914	4,643	100.0				1914	1,444	99.9	0.1	
Condensed milk.....	1919	734	78.7	21.3		Slaughtering and meat packing.....	1919	1,222	99.2	9.8	
	1914	436	83.9	13.1	3.0		1914	864	96.2	3.8	
Confectionery and ice cream.....	1919	1,596	33.3	66.4	0.3	Tinware, not elsewhere specified.....	1919	610	59.8	49.0	0.2
	1914	638	41.5	58.0	0.5		1914	60	88.3	10.0	1.7
Engines, steam, gas, and water.....	1919	546	99.8		0.2	All other industries.....	1919	12,801	78.9	29.7	0.4
	1914	21	100.0				1914	10,029	84.7	14.7	0.6

¹ Includes "iron and steel, welding."

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.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.										VALUE OF PRODUCTS.										
	Total.			16 years of age and over.						Under 16 years of age.			1919			1914			1909		
				Male.			Female.														
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909			
Aberdeen.....	2,715	1,568	1,500	2,684	1,523	1,480	31	43	26		2	3	\$15,757,723	\$4,815,113	\$3,590,230						
Bellingham.....	3,088	1,922	1,566	2,945	1,828	1,456	140	76	78	3	18	37	17,897,631	6,264,307	4,599,637						
Everett.....	3,273	1,959	2,200	3,149	1,914	2,142	118	41	46	6	4	12	21,886,682	6,530,405	6,593,071						
Hoquiam.....	2,194	1,657		2,117	1,621		39	36		8			11,872,031	5,009,410							
Seattle.....	40,843	12,429	11,523	37,740	10,924	10,397	3,047	1,450	1,080	56	55	46	274,431,239	64,475,442	30,813,641						
Spokane.....	4,752	3,020	3,901	3,850	2,532	3,492	886	451	395	16	37	14	40,149,381	16,626,309	18,617,367						
Tacoma.....	10,714	6,765	6,820	9,901	6,366	6,485	800	387	322	13	12	13	103,171,756	27,707,606	24,462,198						
Vancouver.....	4,522	360		4,458	327		64	33					21,251,700	1,391,048							
Walla Walla.....	428	311	388	401	289	370	25	14	16	2	2	2	4,322,636	2,014,676	2,316,833						
Yakima.....	1,326	582	601	1,144	561	558	173	9	23	9	12	20	5,766,980	1,937,461	2,152,167						

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.....	128,313	58,748	<i>54,719</i>	87.4	78.1	74.0	July.....	141,701	72,996	70,744	96.5	97.1	95.7
February.....	<i>89,914</i>	62,691	60,410	61.2	83.4	81.7	August.....	140,135	73,757	72,990	99.5	98.1	98.7
March.....	122,770	69,411	66,778	83.6	92.3	90.3	September.....	146,872	70,227	73,617	100.0	93.4	99.6
April.....	137,395	73,351	71,091	93.5	97.6	96.1	October.....	142,083	64,047	73,949	96.7	85.2	100.0
May.....	141,028	74,736	72,717	96.0	99.4	98.3	November.....	133,821	58,243	72,614	91.1	77.5	98.2
June.....	141,474	75,182	72,159	96.3	100.0	97.6	December.....	123,630	<i>55,071</i>	67,045	84.2	70.6	91.5

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.	132,928	128,313	<i>89,914</i>	122,770	137,395	141,028	141,474	141,701	146,135	146,872	142,083	133,821	123,630	61.2
Males.	125,403	121,934	<i>83,964</i>	116,676	131,249	134,008	134,382	133,621	137,543	137,671	132,791	124,980	115,427	61.0
Females.	7,525	6,379	<i>5,950</i>	6,094	6,146	6,420	7,092	8,080	8,592	9,201	9,292	8,841	8,203	64.1
Automobile repairing.	1,687	<i>1,456</i>	1,468	1,525	1,587	1,649	1,727	1,766	1,814	1,840	1,817	1,803	1,702	79.1
Boxes, wooden packing, except cigar boxes.	679	602	<i>598</i>	642	652	671	708	720	781	734	724	642	614	76.6
Bread and other bakery products.	1,743	1,628	<i>1,599</i>	1,622	1,657	1,672	1,728	1,741	1,745	1,812	1,878	1,912	1,922	83.2
Brick and tile, terra-cotta, and fire-clay products.	664	465	<i>389</i>	492	544	680	755	837	818	804	810	757	672	46.1
Canning and preserving, fish.	1,683	610	<i>672</i>	810	1,220	1,730	1,686	2,137	3,041	2,952	2,830	1,788	720	20.1
Canning and preserving, fruits.	1,348	487	<i>303</i>	287	315	580	950	1,995	2,126	2,718	2,461	2,291	1,663	10.6
Cars and general shop construction and repairs by electric-railroad companies.	679	497	<i>490</i>	<i>495</i>	663	678	716	730	742	766	782	787	784	62.9
Cars and general shop construction and repairs by steam-railroad companies.	6,480	6,371	<i>6,457</i>	6,496	6,280	<i>6,280</i>	6,357	6,365	6,305	6,479	6,707	6,811	6,832	91.9
Condensed milk.	734	<i>691</i>	602	659	680	806	887	843	818	728	728	699	667	71.1
Confectionery and ice cream.	1,596	1,441	<i>1,422</i>	1,501	1,448	1,448	1,550	1,516	1,542	1,630	1,873	1,888	1,923	75.1
Engines, steam, gas, and water.	546	568	<i>335</i>	435	530	656	680	712	661	602	563	480	392	72.8
Flour-mill and grist-mill products.	1,536	1,473	<i>1,468</i>	1,360	1,459	1,449	1,418	1,332	1,417	1,688	1,768	1,829	1,771	79.8
Foundry and machine-shop products.	3,641	4,289	<i>2,119</i>	3,677	3,967	4,030	4,111	3,814	3,814	3,665	3,572	3,532	3,402	42.4
Furniture.	787	665	<i>693</i>	658	739	701	812	841	854	856	858	888	879	67.9
Gas, illuminating and heating.	697	558	<i>533</i>	539	566	578	591	629	646	731	772	742	759	69.0
Lumber and timber products.	53,393	58,318	<i>42,108</i>	47,129	51,480	54,249	54,993	54,866	59,799	61,725	61,910	60,008	54,131	61.9
Lumber, planing-mill products, not including planing mills connected with sawmills.	1,946	1,468	<i>1,446</i>	1,579	1,642	1,754	1,825	2,091	2,219	2,297	2,341	2,349	2,342	61.5
Paper and wood pulp.	1,610	1,480	<i>1,442</i>	1,521	1,578	1,584	1,566	1,597	1,619	1,682	1,705	1,745	1,801	80.1
Printing and publishing, book and job.	906	920	<i>880</i>	905	904	905	942	891	890	749	905	952	1,039	84.7
Printing and publishing, newspapers and periodicals.	1,404	1,334	<i>1,301</i>	1,312	1,391	1,414	1,369	1,397	1,438	1,425	1,481	1,463	1,523	85.4
Shipbuilding, steel.	29,391	39,105	<i>3,714</i>	26,858	36,195	37,087	36,385	35,219	33,530	32,362	27,514	22,773	20,950	12.1
Shipbuilding, wooden, including boat building.	5,185	9,287	<i>6,572</i>	8,429	7,635	6,459	5,441	4,746	4,254	3,397	2,225	2,048	<i>1,628</i>	17.5
Slaughtering and meat packing.	1,222	1,357	<i>1,175</i>	1,105	1,102	1,117	1,200	1,189	1,203	1,207	1,234	1,303	1,371	80.4
Tinware, not elsewhere specified.	610	617	<i>650</i>	640	688	651	754	750	593	637	628	410	<i>402</i>	53.3
All other industries.	12,821	12,746	<i>10,605</i>	12,104	12,473	12,130	12,403	12,948	13,366	13,526	13,889	13,921	13,681	76.2
<i>Industries showing large proportion of females.</i>														
Bread and other bakery products.	568	557	<i>522</i>	530	<i>509</i>	514	541	533	542	606	639	666	657	76.4
Canning and preserving, fish.	275	50	<i>64</i>	52	106	155	197	295	699	613	612	365	92	7.2
Canning and preserving, fruits.	905	256	<i>118</i>	104	118	336	608	1,437	1,563	1,964	1,724	1,491	1,081	5.3
Condensed milk.	156	128	<i>127</i>	131	133	173	196	205	179	162	160	149	129	62.0
Confectionery and ice cream.	1,062	967	<i>955</i>	1,022	951	923	993	970	975	1,051	1,283	1,310	1,335	69.1
Furniture.	120	109	<i>97</i>	106	117	129	135	140	135	133	145	147	155	62.6
Paper and wood pulp.	145	125	<i>115</i>	137	126	129	148	150	160	163	156	169	162	71.9
Printing and publishing, book and job.	211	224	<i>184</i>	192	190	207	208	202	211	196	217	234	287	68.9
Slaughtering and meat packing.	120	144	<i>119</i>	110	108	114	112	113	117	111	145	129	118	74.5
Tinware, not elsewhere specified.	244	250	<i>266</i>	253	288	290	309	314	219	201	263	140	126	40.1
Total for cities.	73,825	79,970	<i>45,618</i>	69,395	78,834	79,682	78,472	78,264	79,114	78,660	79,091	72,875	66,025	56.9
Males.	68,473	75,200	<i>49,939</i>	64,841	74,239	74,885	73,516	72,909	73,675	72,606	72,538	66,469	59,856	54.4
Females.	5,352	4,770	<i>4,679</i>	4,554	4,595	4,794	4,956	5,355	5,439	6,054	6,553	6,406	6,169	69.5
ABERDEEN.	2,715	2,380	<i>2,300</i>	2,790	2,935	2,702	2,555	2,767	2,979	2,969	2,723	2,775	2,459	79.2
Males.	2,684	2,541	<i>2,346</i>	2,786	2,897	2,702	2,514	2,753	2,963	2,938	2,723	2,713	2,443	79.2
Females.	31	16	<i>14</i>	19	38	45	41	14	16	31	66	62	16	19.7
BELLINGHAM.	3,088	2,815	<i>3,200</i>	3,098	3,277	3,628	3,516	3,023	3,311	3,352	3,122	2,705	<i>2,189</i>	60.3
Males.	2,948	2,754	<i>3,119</i>	3,041	3,204	3,565	3,355	2,802	2,906	3,008	2,927	2,500	<i>2,085</i>	58.5
Females.	140	61	<i>81</i>	57	73	63	161	101	225	344	195	155	104	16.6
EVERETT.	3,273	2,867	<i>2,832</i>	2,978	3,147	3,184	3,239	3,381	3,697	3,724	3,554	3,506	3,167	76.0
Males.	3,155	2,794	<i>2,769</i>	2,919	3,092	3,128	3,153	3,296	3,503	3,533	3,336	3,286	3,051	78.4
Females.	118	73	<i>63</i>	59	55	56	86	85	194	191	218	220	116	25.0
HOQUIAM.	2,164	1,863	<i>1,761</i>	1,760	2,047	1,934	2,159	2,421	2,497	2,457	2,492	2,292	2,285	70.5
Males.	2,126	1,822	<i>1,722</i>	1,724	2,011	1,903	2,125	2,383	2,456	2,408	2,447	2,250	2,249	70.1
Females.	39	41	<i>39</i>	36	36	31	34	38	41	49	45	42	36	63.3
SEATTLE.	40,843	49,001	<i>15,704</i>	36,744	45,607	46,122	45,625	45,000	44,697	44,021	44,344	39,430	33,821	32.0
Males.	37,778	46,107	<i>12,921</i>	33,967	42,808	43,349	42,723	41,799	41,576	40,844	40,903	36,041	30,298	28.0
Females.	3,065	2,894	<i>2,783</i>	2,777	2,799	2,773	2,902	3,201	3,121	3,177	3,441	3,389	3,523	78.7
SPOKANE.	4,752	4,334	<i>4,305</i>	4,268	4,421	4,537	4,722	4,756	4,838	5,084	5,302	5,219	5,238	80.5
Males.	3,862	3,567	<i>3,542</i>	3,507	3,655	3,766	3,870	3,927	4,037	4,103	4,223	4,092	4,135	83.0
Females.	890	767	<i>763</i>	761	766	771	852	829	881	981	1,079	1,127	1,103	67.5
TACOMA.	10,714	10,539	<i>9,015</i>	11,388	11,049	10,949	10,170	10,272	10,685	10,857	11,371	11,293	10,980	79.2
Males.	9,911	9,743	<i>8,256</i>	10,623	10,307	10,183	9,386	9,465	9,920	10,077	10,478	10,406	10,098	77.7
Females.	803	796	<i>759</i>	765	742	766	784	807	765	780	903	887	882	82.2
VANCOUVER.	4,522	4,795	<i>5,178</i>	5,061	4,927	4,842	4,937	4,872	4,690	3,823	3,775	<i>3,497</i>	3,874	67.5
Males.	4,458	4,780	<i>5,163</i>	5,045	4,911	4,826	4,924	4,761	4,612	3,672	3,637	<i>3,515</i>	3,850	64.2
Females.	64	15	<i>13</i>	16	16	16	19	111	78	151	138	177	24	7.3
WALLA WALLA.	428	388	<i>390</i>	401	408	434	440	428	431	441	461	455	459	84.2
Males.	403	367	<i>370</i>	377	385	410	417	407	413	415	430	422	423	85.3
Females.	25	21	<i>20</i>	24	23	24	23	21	18	26	31	33	36	50.0
YAKIMA.	1,326	811	<i>776</i>	898	1,016	1,350	1,109	1,344	1,469	1,932	1,947	1,708	1,553	39.8
Males.	1,149	725	<i>731</i>	852	969	1,101	1,049	1,256	1,369	1,608	1,594	1,394	1,224	45.1
Females.	177	86	<i>44</i>	46	47	249	60	88						

MANUFACTURES—WASHINGTON.

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	132,928	41,473	3,264	80,036	730	2,835	2,612	1,679	290
	1914	67,205	(?)	(?)	16,518	1,464	7,331	4,259	40,855	2,778
	1909	69,120	(?)	(?)	5,077	1,725	7,986	1,619	48,781	3,332
Automobile repairing.....	1919	1,687	239		924	17	439	22	40	6
	1914	67	(?)	(?)	12		41		14	
Boxes, wooden packing, except cigar boxes.....	1919	679	48		631					
	1914	338	(?)	(?)	17	27	5	44	245	
Bread and other bakery products.....	1919	1,743	65	29	1,596	2	16	29	6	
	1914	1,419	(?)	(?)	861	137	237	55	105	24
Brick and tile, terra-cotta, and fire-clay products.....	1919	664			595		61		8	
	1914	903	(?)	(?)	29	368	261	90	214	
Canning and preserving, fish.....	1919	1,683	25		1,251	14	59		273	61
	1914	1,715	(?)	(?)	51		604		820	240
Canning and preserving, fruits.....	1919	1,348			441	215	76		616	
	1914	367	(?)	(?)	12	21	4		330	
Cars and general shop construction and repairs by electric-railroad companies.....	1919	679			483		180	16		
	1914	382	(?)	(?)	5		218	2		157
Cars and general shop construction and repairs by steam-railroad companies.....	1919	6,480		2,369	3,778			333		
	1914	4,543	(?)	(?)	1,791	111	288	2,192	26	135
Condensed milk.....	1919	734					536	112	29	57
	1914	436					3	3	43	390
Confectionery and ice cream.....	1919	1,596	415	84	1,014	22	5	34	17	5
	1914	638	(?)	(?)	436	39	53	15	38	57
Engines, steam, gas, and water.....	1919	546	527		19					
	1914	21	(?)	(?)	4	10	5		2	
Flour-mill and gristmill products.....	1919	1,536	1	6	1,129	2	79		300	19
	1914	928	(?)	(?)	156	59	8	43	655	7
Foundry and machine-shop products ²	1919	3,661	1,777	5	1,482	140	72	162	23	
	1914	1,860	(?)	(?)	361	18	1,443		28	
Furniture.....	1919	787	113		666		7		1	
	1914	544	(?)	(?)	87	167	19		271	
Gas, illuminating and heating.....	1919	637			156			425		56
	1914	630	(?)	(?)	63	76	18	84	333	6
Lumber and timber products.....	1919	53,393	255	89	52,533		338	20	158	
	1914	38,461	(?)	(?)	297	7	1,051	268	34,767	71
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	1,946	172	4	1,702		23		45	
	1914	1,273	(?)	(?)	71	4	349	33	816	
Paper and wood pulp ⁴	1919	1,610			1,610					
Printing and publishing, book and job.....	1919	906	144	9	745	8				
	1914	932	(?)	(?)	913	9	7	2		1
Printing and publishing, newspapers and periodicals.....	1919	1,404	449	227	715	6	6			1
	1914	1,302	(?)	(?)	1,190	19	55	25	13	
Shipbuilding, including boat building.....	1919	34,576	33,203		1,373					
	1914	1,444	(?)	(?)	351		1,085		8	
Slaughtering and meat packing.....	1919	1,222	4		785	5	422		6	
	1914	864						100	764	
Tinware, not elsewhere specified.....	1919	610	84		351	159		16		
	1914	60	(?)	(?)	1		43	5	11	
All other industries.....	1919	12,801	3,052	442	6,057	140	516	1,443	157	94
	1914	10,029	(?)	(?)	3,810	392	1,537	1,298	1,302	1,690
Total for cities.....	1919	73,825	36,159	2,942	30,815	531	1,272	1,760	264	82
	1914	36,573	(?)	(?)	8,337	950	5,510	2,335	13,083	358
ABERDEEN.....	1919	2,715	705	3	2,003	1		3		
	1914	1,568	(?)	(?)	125		40		1,400	3
BELLINGHAM.....	1919	3,088	89	26	2,918		37	18		
	1914	1,922	(?)	(?)	130	7	607	40	1,052	80
EVERETT.....	1919	3,273	259	44	2,856	2	45	48	18	1
	1914	1,959	(?)	(?)	198	31	39	1	1,655	35
HOQUIAM.....	1919	2,164	56		2,107		1			
	1914	1,687	(?)	(?)	57		71		1,529	
SEATTLE.....	1919	40,843	29,812	733	9,068	147	479	552	51	1
	1914	12,429	(?)	(?)	4,581	568	3,225	793	3,092	170
SPOKANE.....	1919	4,762	171	81	3,793	66	472	148	14	57
	1914	3,020	(?)	(?)	1,107	99	712	117	958	27
TACOMA.....	1919	10,714	1,078	1,783	6,856	99	46	849	1	2
	1914	6,765	(?)	(?)	1,669	244	620	1,354	2,821	27
VANCOUVER.....	1919	4,522	3,945	322	138		34	2	76	5
	1914	360	(?)	(?)	260	1	17		82	
WALLA WALLA.....	1919	428			190		115	63	44	16
	1914	311	(?)	(?)	82		95	24	102	8
YAKIMA.....	1919	1,326	44		886	216	43	77	60	
	1914	582	(?)	(?)	98		84		392	8

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

³ Includes "iron and steel, welding."
⁴ Not shown separately in 1914.

MANUFACTURES—WASHINGTON.

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.....	4,918	132,928	651	2,474	5,345	959	10,924	397	12,744	175	12,657	190	30,899	44	14,822	20	14,392	8	31,145
Automobile repairing.....	562	1,687	78	403	822	79	812	2	53	1	75	3	401						
Boxes, wooden packing, except cigar boxes.....	16	679		4	8	4	38	4	157		1	4	401						
Bread and other bakery products.....	304	1,743	79	225	462	50	573	4	117	2	126	4	465						
Brick and tile, terra-cotta, and fire-clay products.....	35	664		10	27	14	166	9	346	2	125								
Canning and preserving, fish.....	66	1,683		13	33	29	364	18	576	5	335			1	375				
Canning and preserving, fruits.....	30	1,348	2	7	19	6	53	9	328	3	182	2	344	1	422				
Cars and general shop construction and repairs by electric-railroad companies.....	16	679		6	14	2	29	4	120	2	111	1	109	1	296				
Cars and general shop construction and repairs by steam-railroad companies.....	35	6,480		3	14	4	58	6	231	4	290	11	1,543	4	1,518	2	1,751	1	1,075
Condensed milk.....	14	734		2	6	3	47	2	76	5	335	2	270						
Confectionery and ice cream.....	119	1,596	13	58	151	32	308	11	302	3	228	1	197	1	410				
Engines, steam, gas, and water.....	13	546	1	2	6	4	62	1	36	4	314	1	128						
Flour-mill and gristmill products.....	119	1,536	10	72	148	22	276	8	240	3	222	4	650						
Foundry and machine-shop products.....	233	3,641	21	118	265	57	630	18	572	11	742	6	911	2	521				
Furniture.....	59	787	11	28	78	12	143	4	131	2	161	2	274						
Gas, illuminating and heating.....	12	637		3	4	2	22	4	99	2	152			1	360				
Engines, steam, gas, and water.....	1,130	53,393	25	415	920	29	3,383	171	5,609	81	6,164	118	20,068	27	8,794	9	6,186	2	2,269
Lumber, planing-mill products, not including planing mills connected with sawmills.....	86	1,946	5	31	85	25	325	21	659	1	54	2	324	1	499				
Paper and wood pulp.....	6	1,610								2	159	3	623			1	828		
Printing and publishing, book and job.....	232	908	56	128	241	40	398	8	267										
Printing and publishing, newspapers and periodicals.....	316	1,404	139	144	264	22	262	4	102	3	235	4	541						
Shipbuilding, steel.....	9	29,391						1	39			1	128			2	1,423	5	27,801
Shipbuilding, wooden, including boat building.....	67	5,185	7	23	39	13	180	5	153	6	434	8	1,384	2	677	3	2,318		
Slaughtering and meat packing.....	29	1,222	3	13	39	5	42	1	28	3	198	2	307	2	608				
Tinware, not elsewhere specified.....	6	610		1	3	2	22			1	84	1	159	1	342				
All other industries.....	1,344	12,821	201	765	1,697	253	2,731	82	2,503	26	1,931	14	2,073	3	1,886				
Total for cities.....	2,474	73,325	318	1,210	2,790	558	6,194	193	6,029	78	5,687	81	13,030	18	5,816	13	9,897	5	24,382
ABERDEEN.....	73	2,715	9	32	66	14	148	3	73	6	400	8	1,345	1	683				
BELLINGHAM.....	110	3,038	16	57	128	20	241	8	238	1	83	5	914	2	661	1	823		
EVERETT.....	127	3,273	11	65	139	27	307	15	467	2	154	5	1,015	1	314	1	877		
HOQUIAM.....	38	2,164	1	19	36	5	49	6	219	1	89	5	1,061	1	710				
SEATTLE.....	1,229	40,843	163	579	1,329	297	3,271	102	3,158	42	3,004	30	4,589	8	2,438	5	3,660	3	19,394
SPOKANE.....	364	4,752	51	200	472	73	816	20	660	7	505	11	1,009	2	690				
TACOMA.....	348	10,714	52	154	371	75	857	27	846	16	1,258	16	2,282	4	1,401	3	2,525	1	1,174
VANCOUVER.....	39	4,522	3	22	60	6	65	4	133	2	138			1	312			1	3,814
WALLA WALLA.....	69	428	8	43	91	13	152	4	129	1	50								
YAKIMA.....	77	1,326	4	39	98	28	288	4	106			1	215			1	619		

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
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	4,918	3,829	3,674	132,928	67,205	69,120	\$809,022,984	\$245,326,456	\$220,746,421	\$366,445,453	\$108,717,147	\$102,858,733
Less than \$5,000.....	1,100	1,327	902	530	1,069	963	2,884,351	3,277,559	2,397,468	1,053,854	2,225,976	1,639,474
\$5,000 to \$20,000.....	1,517	1,213	1,276	3,606	4,537	5,918	16,171,987	13,043,612	13,824,059	10,282,117	7,828,292	8,598,987
\$20,000 to \$100,000.....	1,330	850	1,073	12,810	13,280	18,671	61,124,524	39,264,264	47,224,421	33,852,870	19,981,501	26,287,103
\$100,000 to \$500,000.....	673	361	403	26,962	38,400	37,553	148,750,550	84,468,833	114,920,746	71,145,504	55,608,769	55,916,269
\$500,000 to \$1,000,000.....	163	47	20	21,908	9,919	6,015	112,442,853	33,012,139	42,379,727	58,025,068	22,982,609	10,416,910
\$1,000,000 and over.....	135	31		67,112			468,248,689	71,360,049		100,285,150		
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.....	22.4	34.7	24.6	0.4	1.6	1.4	0.4	1.3	1.1	0.5	2.0	1.6
\$5,000 to \$20,000.....	30.8	31.7	34.7	2.7	6.8	8.6	2.0	5.3	6.3	2.8	7.2	8.4
\$20,000 to \$100,000.....	27.0	22.2	29.2	9.6	19.8	27.0	7.5	16.0	21.4	9.2	18.4	25.6
\$100,000 to \$500,000.....	13.7	9.4	11.0	20.3	57.1	54.3	18.4	34.4	52.1	19.4	51.2	54.4
\$500,000 to \$1,000,000.....	3.3	1.2		16.5			13.9	13.8		16.1		
\$1,000,000 and over.....	2.7	0.8	0.5	50.5	14.8	8.7	87.8	29.1	19.2	51.9	21.1	10.1

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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.	
			1019	1914			1919	1914			1919	1914			1919	1914
AUTOMOBILE REPAIRING.....	562	26	100.0	100.0	1,687	67	100.0	100.0	\$6,952,681	\$149,183	100.0	100.0	\$4,537,659	\$111,065	100.0	100.0
Less than \$5,000.....	211	16	37.5	61.5	126	22	7.5	32.8	580,853	45,921	8.4	30.8	429,795	36,335	9.5	32.5
\$5,000 to \$20,000.....	259	10	46.1	38.5	737	45	43.7	67.2	2,664,752	103,262	38.3	69.2	1,853,584	75,330	40.8	67.5
\$20,000 to \$100,000.....	88	4	15.7	0.7	735	89	43.6	5.3	3,214,086		46.2		2,011,730		44.3	
\$100,000 to \$500,000.....	4		0.7		89		5.3		492,990		7.1		242,550		5.3	
BREAD AND OTHER BAKERY PRODUCTS.....	364	300	100.0	100.0	1,743	1,419	100.0	100.0	15,043,030	6,572,356	100.0	100.0	5,806,022	3,024,636	100.0	100.0
Less than \$5,000.....	63	166	17.3	42.6	12	73	0.7	5.1	177,741	464,511	1.2	7.1	72,898	220,146	1.3	7.3
\$5,000 to \$20,000.....	158	169	43.4	43.3	205	347	11.8	24.5	1,789,843	1,730,841	11.9	26.3	709,082	796,833	12.2	26.3
\$20,000 to \$100,000.....	112	46	30.8	11.3	538	443	30.9	31.2	4,024,275	1,697,350	30.7	25.4	1,721,879	748,837	29.7	24.8
\$100,000 to \$500,000.....	26	49	7.1	2.3	459	1,556	26.3	39.2	4,709,362	2,709,654	31.2	41.2	1,656,060	1,258,820	28.5	41.6
\$500,000 to \$1,000,000.....	5		1.4		529		30.3		3,750,809		24.9		1,646,133		28.4	
BUTTER.....	101	88	100.0	100.0	475	412	100.0	100.0	12,900,585	6,133,788	100.0	100.0	2,260,404	1,188,212	100.0	100.0
Less than \$20,000.....	10	26	9.9	29.5	7	30	1.5	8.8	125,165	476,240	1.0	7.8	26,684	119,481	1.2	10.0
\$20,000 to \$100,000.....	55	49	54.5	55.7	135	147	28.4	35.7	3,209,736	2,311,116	24.7	37.7	511,271	331,017	22.6	37.0
\$100,000 to \$500,000.....	31	13	30.7	14.8	157	229	33.1	55.6	6,290,811	3,346,432	48.2	54.6	933,099	737,714	41.3	62.1
\$500,000 to \$1,000,000.....	5		5.0		176		37.1		3,395,173		26.1		789,350		34.9	
CANNING AND PRESERVING, FISH.....	66	48	100.0	100.0	1,683	1,715	100.0	100.0	15,860,143	7,634,076	100.0	100.0	5,539,408	3,524,944	100.0	100.0
Less than \$5,000.....	3		4.5		4		0.2		8,175		0.1		4,405		0.1	
\$5,000 to \$20,000.....	5	9	7.6	18.7	20	37	1.2	2.2	51,843	84,295	0.3	1.1	23,898	41,016	0.4	1.2
\$20,000 to \$100,000.....	16	15	24.2	31.2	133	295	7.9	17.2	834,714	824,202	5.6	10.8	277,487	434,169	5.0	12.3
\$100,000 to \$500,000.....	37	24	56.1	50.0	874	1,383	51.9	80.6	10,047,078	6,725,579	63.3	88.1	3,008,460	3,048,859	54.1	86.5
\$500,000 and over.....	5		7.6		652		38.7		4,898,301		30.7		2,245,158		40.4	
CANNING AND PRESERVING, FRUITS.....	30	18	100.0	100.0	1,348	367	100.0	100.0	9,295,891	1,120,149	100.0	100.0	3,416,145	305,604	100.0	100.0
Less than \$20,000.....	9	9	30.0	50.0	44	48	3.3	13.1	80,067	90,464	0.9	8.1	36,445	34,284	1.1	11.2
\$20,000 to \$100,000.....	7	9	23.3	50.0	94	119	7.0	86.9	293,484	1,029,685	3.2	91.9	121,928	1,271,320	3.6	88.8
\$100,000 to \$500,000.....	8		26.7		276		20.5		1,408,205		15.1		699,428		17.5	
\$500,000 to \$1,000,000.....	3		10.0		329		24.4		2,062,178		22.2		887,643		26.0	
\$1,000,000 and over.....	3		10.0		605		44.9		5,456,957		58.7		1,770,401		51.8	
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	35	20	100.0	100.0	6,480	4,543	100.0	100.0	14,935,008	7,926,916	100.0	100.0	9,211,197	3,947,008	100.0	100.0
\$5,000 to \$20,000.....	4	3	11.4	11.5	22	22	0.3	0.5	38,089	40,306	0.3	0.6	35,752	29,103	0.4	0.7
\$20,000 to \$100,000.....	7	11	20.0	42.3	185	392	2.9	8.6	385,676	611,539	2.6	8.7	280,842	406,263	3.0	10.3
\$100,000 to \$500,000.....	16	8	45.7	30.8	1,755	4,129	27.1	90.9	3,745,754	2,092,786	25.1	28.5	2,776,081	3,511,642	30.1	89.0
\$500,000 to \$1,000,000.....	4	4	11.4	15.4	1,230		19.0		2,094,782	4,372,285	20.1	62.2	1,838,113		20.0	
\$1,000,000 and over.....	4		11.4		3,288		50.7		7,770,707		52.0		1,250,409		46.5	
CONFECTIONERY AND ICE CREAM.....	119	100	100.0	100.0	1,596	638	100.0	100.0	10,301,924	2,474,506	100.0	100.0	4,618,204	1,114,151	100.0	100.0
Less than \$5,000.....	14	27	11.8	27.0	3	18	0.2	2.8	42,096	76,372	0.4	3.1	20,939	44,770	0.5	3.0
\$5,000 to \$20,000.....	28	43	23.5	43.0	57	113	3.6	17.7	296,984	456,327	2.9	18.4	133,209	227,935	2.9	20.4
\$20,000 to \$100,000.....	55	25	46.2	25.0	334	274	20.9	42.9	2,173,590	968,892	21.1	39.2	954,894	470,505	20.7	42.2
\$100,000 to \$500,000.....	18	5	15.1	5.0	475	233	29.8	36.5	2,973,437	972,955	28.9	36.3	1,231,694	371,841	26.7	33.4
\$500,000 and over.....	4		3.4		727		45.6		4,815,817		46.7		2,277,468		49.3	
FLOUR-MILL AND GRISTMILL PRODUCTS.....	119	100	100.0	100.0	1,536	928	100.0	100.0	81,141,020	23,665,382	100.0	100.0	7,986,078	3,392,887	100.0	100.0
Less than \$5,000.....	5	7	4.2	7.0		2		0.2	11,444	24,895	(*)	0.1	2,540	6,188	(*)	0.2
\$5,000 to \$20,000.....	22	25	18.5	25.0	13	30	0.8	3.2	237,774	289,065	0.3	1.2	51,778	65,933	0.6	1.9
\$20,000 to \$100,000.....	35	30	29.4	30.0	64	74	4.2	5.0	1,743,103	1,436,694	2.1	6.1	289,996	250,720	3.6	7.4
\$100,000 to \$500,000.....	20	31	24.4	31.0	147	362	9.6	39.0	6,699,354	8,938,838	8.3	37.8	703,476	1,250,315	8.8	36.9
\$500,000 to \$1,000,000.....	10		8.4		147		9.6		7,433,239		9.2		618,645		7.8	
\$1,000,000 and over.....	18	7	15.1	7.0	1,165	400	75.8	40.6	65,016,106	12,978,890	80.1	54.8	6,319,743	1,819,731	79.1	53.6
FOUNDRY AND MACHINE-SHOP PRODUCTS.....	249	190	100.0	100.0	3,661	1,850	100.0	100.0	20,972,524	5,975,823	100.0	100.0	12,831,201	3,328,098	100.0	100.0
Less than \$5,000.....	52	66	20.9	34.7	23	42	0.6	2.3	131,642	169,460	0.6	2.7	85,886	110,677	0.7	3.3
\$5,000 to \$20,000.....	78	59	30.5	31.1	164	261	4.5	14.1	730,702	660,872	3.5	11.1	490,423	413,860	3.9	18.3
\$20,000 to \$100,000.....	83	52	33.3	27.4	763	596	20.8	32.2	3,587,138	2,035,573	17.1	34.1	2,205,854	1,125,230	17.2	33.8
\$100,000 to \$500,000.....	27	13	10.8	6.8	1,057	1,951	28.0	51.4	5,590,485	3,113,918	26.7	52.1	3,146,274	1,646,322	24.5	49.5
\$500,000 to \$1,000,000.....	5		2.0		652		18.1		3,314,123		15.8		2,478,078		19.3	
\$1,000,000 and over.....	6		2.4		1,102		30.1		7,618,434		36.3		4,417,786		34.4	
LUMBER AND TIMBER PRODUCTS.....	1,130	821	100.0	100.0	53,393	36,461	100.0	100.0	220,512,359	78,130,004	100.0	100.0	135,205,688	42,627,279	100.0	100.0
Less than \$5,000.....	178	192	15.3	23.4	154	336	0.3	0.9	459,436	446,867	0.2	0.6	362,197	324,958	0.3	0.8
\$5,000 to \$20,000.....	264	196	23.4	23.9	853	1,371	1.6	3.8	2,874,113	2,220,719	1.3	2.8	2,198,942	1,450,654	1.6	3.4
\$20,000 to \$100,000.....	316	237	28.0	28.9	4,651	6,040	8.7	16.6	14,966,057	12,082,105	6.8	15.5	11,033,863	6,853,415	8.2	16.1
\$100,000 to \$500,000.....	242	168	21.4	20.5	13,830	25,991	25.9	70.2	56,608,080	41,054,300	25.7	52.5	34,514,146	30,637,649	25.5	71.9
\$500,000 to \$1,000,000.....	85	22	7.5	2.7	14,861		27.8		60,025,812	15,674,564	27.2	20.1	36,402,188		26.9	
\$1,000,000 and over.....	50	6	4.4	0.7	19,044	3,123	35.7	8.6	85,578,861	6,651,449	38.8	8.5	50,094,252	3,351,703	37.5	7.9

* Includes the group "\$500,000 to \$1,000,000."
 † Includes the group "Less than \$5,000."
 ‡ Includes the group "\$1,000,000 and over."

* Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."
 † Less than one-tenth of 1 per cent.
 ‡ Includes "Iron and steel, welding."

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

Table with 13 main columns: Industry and Value of Product, Number of Establishments (1919, 1914, Per cent distribution), Average Number of Wage Earners (1919, 1914, Per cent distribution), Value of Products (1919, 1914, Per cent distribution), and Value Added by Manufacture (1919, 1914, Per cent distribution). Rows include Lumber, Printing and Publishing, Shipbuilding, and Slaughtering and Meat Packing, with detailed sub-rows for value ranges.

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

3 Includes the group "\$1,000,000 and over." 4 Includes the group "\$500,000 to \$1,000,000."

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

Table with 13 main columns: City and Value of Product, Number of Establishments, Wage Earners (Average number, Per cent of total), Value of Products (Amount, Per cent of total), Value Added by Manufacture (Amount, Per cent of total), and Value Added by Manufacture (Amount, Per cent of total). Rows list cities like Aberdeen, Bellingham, Everett, Hoquiam, Seattle, Spokane, Tacoma, Vancouver, Walla Walla, and Yakima, with detailed sub-rows for value ranges.

MANUFACTURES—WASHINGTON.

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

INDUSTRY AND CITY.	Cens- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
All industries.....	1919	2,011	1,913	994	132,928	6,918	120,391	5,649		5.2	90.5	4.2	\$809,622,084	\$38,257,362	\$739,639,897	\$31,725,735	4.7	91.4	3.9			
	1914	1,714	1,454	661	67,205	4,643	59,171	3,391		6.9	88.0	5.0	245,320,456	17,304,674	216,661,919	11,350,863	7.1	88.3	4.6			
	1909	1,445	1,444	785	69,120	6,814	57,107	5,199		9.9	82.6	7.5	220,746,421	20,580,962	185,171,875	14,993,584	9.3	83.9	6.8			
Automobile repairing.....	1919	265	128	169	1,687	541	793	353		32.1	47.0	20.9	6,952,681	2,362,255	3,029,393	1,561,033	34.0	43.6	22.5			
	1914	15	7	4	67	24	35	8		35.8	52.2	11.0	149,183	63,017	61,182	24,984	42.2	41.0	16.7			
Bread and other bakery products.	1919	246	44	74	1,743	494	1,004	245		28.3	57.6	14.1	15,043,030	4,605,851	7,570,009	2,567,179	30.6	52.3	17.1			
	1914	303	27	00	1,419	553	689	177		39.0	48.6	12.5	6,572,356	2,596,081	3,160,105	816,170	39.5	48.1	12.4			
Butter.....	1919	25	52	21	475	61	356	58		12.8	74.9	12.2	12,990,885	1,282,922	9,160,525	2,547,438	9.9	70.5	19.6			
	1914	23	42	23	412	57	284	71		13.8	68.9	17.2	6,133,788	1,014,143	3,504,975	1,614,670	16.5	57.1	26.3			
Canning and preserving, fish.	1919	10	54	2	1,683	170	1,613			4.2	95.8		15,860,141	1,756,028	15,104,113		4.8	95.2				
	1914	6	38	4	1,716	47	1,604	64		2.7	93.5	3.7	7,634,076	259,723	7,157,430	216,923	3.4	93.8	2.8			
Canning and preserving, fruits.	1919	6	14	10	1,348	13	1,336	199		1.0	84.3	14.8	9,295,891	74,148	7,537,549	1,684,194	0.8	81.1	18.1			
	1914	5	8	5	307	20	1,75	272		5.4	20.4	74.1	1,120,149	95,611	291,509	733,629	8.5	26.0	65.4			
Cars and general shop con- struction and repairs by steam - railroad com- panies.	1919		35		6,480		6,480			100.0			14,935,008		14,935,008			100.0				
	1914		26		4,543		4,543			100.0			7,026,916		7,026,916			100.0				
Condensed milk.....	1919		14		734		734			100.0			19,586,736		19,586,736			100.0				
	1914		6		439		436			100.0			5,584,908		5,584,908			100.0				
Confectionery and ice cream.	1919	48	50	21	1,596	146	1,315	135		9.1	82.4	8.5	10,301,924	1,038,317	8,415,579	848,028	10.1	81.7	8.2			
	1914	48	32	20	638	119	446	73		18.7	69.9	11.4	2,474,506	423,370	1,749,775	301,361	17.1	70.7	12.2			
Flour-mill and gristmill products.	1919	27	72	20	1,536	34	1,464	38		2.2	95.3	2.5	81,141,020	1,162,489	78,343,365	1,635,166	1.4	96.6	2.0			
	1914	28	56	16	928	55	846	27		5.9	91.2	2.9	23,665,382	1,519,630	21,735,290	411,062	6.4	91.8	1.7			
Foundry and machine- shop products. ¹	1919	88	110	51	3,661	221	3,010	430		6.0	82.2	11.7	20,972,524	1,101,957	17,504,283	2,366,284	5.3	83.5	11.3			
	1914	74	70	40	1,850	127	1,524	199		6.9	82.4	10.8	5,975,823	411,657	4,973,303	590,863	6.9	83.2	9.9			
Lumber and timber prod- ucts.	1919	343	494	293	53,393	3,009	47,089	2,695		5.6	89.3	5.0	220,512,359	10,993,496	199,756,060	9,762,794	5.0	90.6	4.4			
	1914	219	450	152	36,461	1,612	33,354	1,495		4.4	91.5	4.1	78,130,004	3,287,309	71,981,898	2,877,536	4.2	92.1	3.7			
Lumber, planing - mill products, not including planing mills connected with sawmills.	1919	22	50	14	1,945	125	1,688	133		6.4	86.7	6.8	10,931,701	885,253	9,336,208	710,240	8.1	85.4	6.5			
	1914	30	50	11	1,273	76	1,094	103		6.0	85.9	8.1	4,595,765	339,770	3,953,131	302,864	7.4	86.0	6.6			
Printing and publishing, newspapers and period- icals.	1919	186	77	53	1,404	231	1,118	55		16.5	79.6	3.9	11,954,252	1,346,283	10,227,222	380,747	11.3	85.6	3.2			
	1914	233	99	70	1,302	286	948	68		22.0	72.8	5.2	6,856,299	1,014,138	5,534,835	307,266	14.8	80.7	4.5			
Shipbuilding, including boat building.	1919	23	40	13	34,576	75	33,953	548		0.2	98.2	1.6	166,519,787	292,085	163,895,783	2,331,919	0.2	98.4	1.4			
	1914	35	11	18	1,444	95	1,234	115		6.6	85.5	8.0	3,101,446	273,295	2,551,020	277,161	8.8	82.3	8.0			
Slaughtering and meat packing.	1919	8	17	4	1,222	61	1,135	6		5.1	92.9	0.5	34,388,584	2,754,566	31,483,029	150,989	8.0	91.6	0.4			
	1914	2	7	2	854	144	820			6.6	94.9		18,443,526	1,161,873	17,281,653		6.3	93.7				
Total for cities.....	1919	956	1,109	415	73,825	3,293	68,631	1,901		4.5	93.0	2.6	516,417,759	21,819,596	481,145,069	13,452,194	4.2	93.2	2.6			
	1914	804	792	338	39,573	2,268	26,667	1,543		7.7	87.2	5.0	136,691,774	9,784,062	121,320,607	5,587,105	7.2	88.8	4.1			
ABERDEEN.....	1919	28	32	13	2,715	275	2,402	38		10.1	88.5	1.4	15,757,723	1,725,276	13,730,474	301,973	10.9	87.1	1.9			
	1914	21	27	12	1,568	140	1,255	273		2.6	80.0	17.4	4,815,113	154,260	3,910,576	750,277	3.2	81.2	15.6			
BELLINGHAM.....	1919	52	38	20	3,088 ¹	121	2,899	77		3.9	93.6	2.5	17,807,631	692,240	16,701,412	413,979	3.9	93.8	2.3			
	1914	41	32	13	1,922	95	1,792	35		4.9	93.2	1.8	6,264,307	371,217	5,784,700	108,390	5.9	92.3	1.7			
EVERETT.....	1919	56	53	18	3,273	130	3,031	112		4.0	92.6	3.4	21,880,682	749,588	20,393,652	743,492	3.4	93.2	3.4			
	1914	49	35	14	1,959	107	1,748	104		5.5	89.2	5.3	6,530,405	346,443	5,873,365	310,627	5.3	90.9	4.8			
HOQUIAM.....	1919	13	18	7	2,164	34	2,144	16		1.6	97.7	0.7	11,872,031	191,911	11,552,680	127,440	1.6	97.3	1.1			
	1914	10	18	5	1,657	28	1,622	7		1.7	97.9	0.4	5,069,410	90,549	4,890,129	28,732	1.8	97.6	0.6			
SEATTLE.....	1919	466	566	197	40,843	1,702	38,183	958		4.2	93.5	2.3	274,431,239	12,354,630	255,592,020	6,484,589	4.5	93.1	2.4			
	1914	456	301	167	12,429	1,315	10,406	708		10.6	83.7	5.7	64,475,442	5,760,442	55,879,904	2,835,096	8.9	86.7	4.4			
SPOKANE.....	1919	144	160	60	4,752	381	4,178	193		8.0	87.9	4.1	40,149,381	1,854,596	36,985,129	1,309,746	4.6	92.1	3.2			
	1914	119	111	47	3,020	311	2,546	163		10.3	84.3	5.4	16,636,309	1,003,097	15,013,615	619,687	6.0	90.2	3.7			
TACOMA.....	1919	130	155	63	10,714	440	9,909	365		4.1	92.5	3.4	103,171,756	2,622,100	97,401,351	3,148,305	2.5	94.3	2.1			
	1914	154	129	56	6,765	448	6,282	185		5.1	92.1	2.7	27,707,606	1,198,131	25,909,340	600,135	4.3	93.5	2.2			
VANCOUVER.....	1919	13	10	7	4,522	25	4,454	43		0.6	98.5	1.0	21,251,700	284,515	20,765,185	202,000	1.3	97.7	1.0			
	1914	14	9	5	360	30	312	18		8.3	86.7	5.0	1,301,048	113,906	1,083,592	103,550	8.8	83.3	8.0			
WALLA WALLA.....	1919	30	24	15	428	74	322	32		17.3	75.2	7.5	4,322,636	633,848	3,362,650	326,138	14.7	77.8	7.5			
	1914	14	21	12	311	39	251	21		12.5	80.7	6.8	2,014,673	315,347	1,566,931	132,395	15.7	77.8	6.6			
YAKIMA.....	1919	24	38	15	1,325	111	1,148	67		8.4	86.6	5.1	5,766,980	711,032	4,661,416	394,532	12.3	80.8	6.8			
	1914	16	19	7	582	50	503	29		8.6	86.4	5.0	1,937,461	430,760	1,405,485	98,216	22.2	72.7	5.1			

¹ Includes the group "All others."

² Includes "iron and steel, welding."

MANUFACTURES—WASHINGTON.

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		10		5		3		2			
	1914		10		5		2		3			
	1909		8		5		1		2			
Population ¹	1920	1,356,621	642,017	47.3	72,074	5.3	150,194	11.1	419,749	30.9	714,604	52.7
	1915	1,407,865	696,791	49.5	82,702	5.9	61,985	4.4	552,104	39.2	711,074	50.5
	1910	1,141,990	521,557	45.7	96,218	8.4	83,743	7.3	341,596	29.9	620,433	54.3
Number of establishments.....	1919	4,918	2,474	50.3	296	6.0	585	11.9	1,593	32.4	2,444	49.7
	1914	3,829	2,024	52.9	210	5.5	184	4.8	1,630	42.6	1,805	47.1
	1909	3,674	1,629	44.3	315	8.6	277	7.5	1,037	28.2	2,045	55.7
Average number of wage earners.....	1919	132,928	73,825	55.5	11,155	8.4	17,075	12.8	45,595	34.3	59,103	44.5
	1914	67,205	30,373	45.5	4,478	6.7	3,881	5.8	22,214	33.1	36,632	54.5
	1909	60,120	28,508	41.2	6,264	9.1	6,820	9.9	15,424	22.3	40,612	58.8
Value of products.....	1919	\$809,622,984	\$516,417,750	63.8	\$58,971,070	7.3	\$142,866,060	17.6	\$314,580,620	38.0	\$293,205,225	36.2
	1914	245,326,450	136,691,774	55.7	15,077,705	6.1	12,794,712	5.2	108,819,357	44.4	108,634,682	44.3
	1909	220,746,421	113,145,124	51.3	19,251,918	8.7	24,462,198	11.1	15,424,008	31.5	107,601,297	48.7
Value added by manufacture.....	1919	366,445,453	214,602,715	58.6	27,607,820	7.5	47,716,227	13.0	139,278,668	38.0	151,842,738	41.4
	1914	108,717,147	56,409,858	51.0	6,778,223	6.2	5,427,963	5.0	44,203,672	40.7	52,307,289	48.1
	1909	102,858,733	48,932,527	47.6	8,857,786	8.6	9,516,417	9.3	30,558,324	29.7	53,920,206	52.4

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

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase over 1914.			Amount, 1919.	Per cent of total for the state.	Increase over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
SEATTLE.				SPOKANE.					
Flour-mill and gristmill products.....	\$29,128,890	35.9	\$21,528,181	283.2	Flour-mill and gristmill products.....	\$6,966,188	8.6	\$5,155,953	284.8
Slaughtering and meat packing.....	18,031,098	52.4	6,808,391	62.0	Confectionery and ice cream.....	2,760,691	26.8	2,517,225	1,033.9
Foundry and machine-shop products ¹	14,261,830	68.0	11,249,886	373.5	Bread and other bakery products.....	2,542,900	16.9	653,624	34.6
Lumber and timber products.....	12,737,497	5.8	7,434,435	140.2	Printing and publishing, newspapers and periodicals.....	2,408,351	20.1	1,080,027	82.5
Shipbuilding, wooden, including boat building.....	11,093,450	43.4	10,633,217	2,310.4	Butter.....	2,164,385	16.7	(?)	
Bread and other bakery products.....	6,817,522	45.3	4,462,674	189.5	Lumber, planing-mill products, not including planing mills connected with saw-mills.....	1,700,145	15.6	486,935	40.1
Printing and publishing, newspapers and periodicals.....	5,646,748	47.2	2,575,475	83.9	Boxes, wooden packing, except cigar boxes.....	1,176,514	34.8	(?)	
Confectionery and ice cream.....	5,257,504	51.0	3,737,959	246.0	Printing and publishing, book and job.....	854,884	18.2	295,690	52.9
Coffee, roasting and grinding.....	3,297,246	75.7	1,698,673	106.3	Automobile repairing.....	791,140	11.4	736,893	1,358.4
Iron and steel forgings, not made in steel works or rolling mills.....	2,934,249	93.0	(?)		Lumber and timber products.....	(?)	(?)	(?)	(?)
Printing and publishing, book and job.....	2,532,383	54.2	1,184,861	86.6	Slaughtering and meat packing.....	(?)	(?)	(?)	(?)
Butter.....	2,386,018	18.4	1,477,234	162.6	Structural ironwork, not made in steel works or rolling mills.....	(?)	(?)	(?)	(?)
Lumber, planing-mill products, not including planing mills connected with saw-mills.....	2,083,733	19.1	1,203,132	136.6	TACOMA.				
Engines, steam, gas, and water.....	1,824,664	72.2	(?)		Flour-mill and gristmill products.....	21,080,220	26.0	14,393,989	215.0
Automobile repairing.....	1,687,366	24.3	1,660,599	3,203.9	Lumber and timber products.....	10,367,165	4.7	9,335,693	905.1
Copper, tin, and sheet-iron work.....	1,392,980	54.7	719,571	106.9	Lumber, planing-mill products, not including planing mills connected with saw-mills.....	4,591,675	42.0	680,422	17.4
Clothing, men's.....	1,381,596	61.9	(?)		Shipbuilding, wooden, including boat building.....	4,293,954	16.8	4,243,863	8,472.3
Brass, bronze, and copper products.....	1,380,955	85.9	1,254,304	990.4	Foundry and machine-shop products.....	2,533,334	12.4	1,297,947	101.0
Pickles, preserves, and sauces.....	1,111,643	54.5	922,686	488.3	Bread and other bakery products.....	2,035,708	13.5	1,201,112	143.9
Electrical machinery, apparatus, and supplies.....	1,024,794	96.1	(?)		Furniture.....	1,530,527	55.1	909,727	146.5
Furniture.....	676,880	35.2	703,884	257.8	Confectionery and ice cream.....	1,299,081	12.6	910,998	234.7
Jewelry.....	672,783	95.2	(?)		Printing and publishing, newspapers and periodicals.....	1,281,863	10.7	541,716	73.2
Cars and general shop construction and repairs by electric-railroad companies.....	873,253	55.3	(?)		Automobile repairing.....	755,704	10.9	(?)	
Awnings, tents, and sails.....	842,308	71.7	565,755	204.6	Food preparations, not elsewhere specified.....	747,715	38.2	591,338	373.1
Clothing, women's.....	836,707	71.4	(?)		Cars and general shop construction and repairs by steam-railroad companies.....	(?)	(?)	(?)	(?)
Mattresses and spring beds, not elsewhere specified.....	794,401	58.2	406,058	104.6	Slaughtering and meat packing.....	(?)	(?)	(?)	(?)
Boxes, wooden packing, except cigar boxes.....	761,392	22.5	(?)		Smelting and refining, copper.....	(?)	(?)	(?)	(?)
Food preparations, not elsewhere specified.....	755,555	36.6	429,022	131.4					
Cars and general shop construction and repairs by steam-railroad companies.....	742,297	5.0	28,618	4.0					
Canning and preserving, fish.....	704,677	4.4	116,846	19.9					
Babbitt and white metal.....	(?)	(?)	(?)	(?)					
Bags, other than paper, not including bags made in textile mills.....	(?)	(?)	(?)	(?)					
Boots and shoes.....	(?)	(?)	(?)	(?)					
Canning and preserving, fruits.....	(?)	(?)	(?)	(?)					
Chemicals.....	(?)	(?)	(?)	(?)					
Gas, illuminating and heating.....	(?)	(?)	(?)	(?)					
Iron and steel, steel works and rolling mills.....	(?)	(?)	(?)	(?)					
Liquors, malt.....	(?)	(?)	(?)	(?)					
Shipbuilding, steel.....	(?)	(?)	(?)	(?)					
Tinware, not elsewhere specified.....	(?)	(?)	(?)	(?)					

¹ Includes "Iron and steel, welding."

² Figures can not be shown without disclosing individual operations.

MANUFACTURES—WASHINGTON.

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.....	18,196	9,280	6,149	687,436	389,567	297,897	100.0	100.0	100.0
Owned.....	4,252	3,275	3,291	467,152	304,391	266,808	68.0	78.1	89.6
Steam ¹	3,629	2,899	2,957	453,306	291,923	257,249	65.9	74.9	86.4
Engines.....	3,543	(²)	(²)	402,007	(²)	(²)	58.5		
Turbines.....	86	(²)	(²)	51,239	(²)	(²)	7.5		
Internal-combustion engines.....	536	260	178	6,123	3,162	1,494	0.9	0.8	0.5
Water.....	87	116	156	7,723	9,306	8,065	1.1	2.3	2.7
Water wheels and turbines.....	62	82	117	7,293	9,068	7,842	1.1	2.3	2.6
Water motors.....	25	34	39	430	238	223	0.1	0.1	0.1
Rented.....	13,944	6,005	2,858	220,284	85,176	31,089	32.0	21.9	10.4
Electric.....	13,944	6,005	2,858	215,921	84,953	30,951	31.4	21.8	10.4
Other.....				4,363	223	138	0.6	0.1	(³)
Electric.....	16,996	7,344	3,564	278,155	112,485	43,616	100.0	100.0	100.0
Rented.....	13,944	6,005	2,858	215,921	84,953	30,951	77.6	75.5	71.0
Generated by establishments reporting.....	3,052	1,339	706	62,234	27,532	12,664	22.4	24.5	29.0

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).
	1919.	1914.					Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).
All industries.....	4,502	4,325	68,205	1,732,750	36,337	215,611
Per cent of increase ²	—0.5	31.0	69,555	1,496,057	(1)	88,491
Brick and tile, terra-cotta, and fire-clay products.....			1,370	1,150	39	
Canning and preserving, fruits.....			5,885	6,629	56	
Cars and general shop construction and repairs by steam-railroad companies.....			66,752	105,791	182	
Cars, steam-railroad, not including operations of railroad companies.....	197		6,698	5,983	196	
Cement.....			77,634	26,500		
Coke, not including gas-house coke.....			54,800			
Explosives.....			166	48,000		
Flour-mill and gristmill products.....	113	1,748	9	13,659	691	220
Foundry and machine-shop products.....	373	2,892	11,013	17,300	11,425	10,592
Gas, illuminating and heating.....			163,504	111,132		
Ice, manufactured.....			3,873	350		
Iron and steel, steel works and rolling mills.....			1	210,232	25	
Iron and steel forgings, not made in steel works or rolling mills.....			201	41,272	60	
Liquors, malt.....			4,915	19,914		
Lumber and timber products.....	67	71,425	12	348,262	8,734	
Paper and wood pulp.....		19,218		347,651	28	
Shipbuilding, steel.....	100	6,804	10,403	149,424	2,271	47,274
Slaughtering and meat packing.....		12,863	2,100	1	50	
Sugar, beet.....		5,208	157			
All other industries.....	3,653	84,000	36,430	289,940	12,580	151,425
Total for cities.....	710	203,898	49,682	839,355	6,811	202,468
ABERDEEN.....	9	6,829	70	5,138	417	1,138
BELLINGHAM.....		8,999	574	63,693	812	1,774
EVERETT.....		1,150	2,260	9,575	459	3,666
HOQUIAM.....	4	538	222	10	27	424
SEATTLE.....	661	148,572	18,288	490,515	3,715	123,559
SPOKANE.....	33	42,302	778	5,069	29	28,310
TACOMA.....		61,836	24,459	254,526	260	15,929
VANCOUVER.....		6,392	2,267	6,404	935	24,180
WALLA WALLA.....		5,558	396	141	137	630
YAKIMA.....	3	11,722	432	4,224	20	2,958

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 in Washington are here presented.

Lumber and timber products (Table 19).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909.

Lumbering is carried on in Washington by large, well-equipped sawmills. The average cut of the 592 sawmills reporting in 1919 was 8,380,439 feet; 143 of the mills each reported a cut of over 10,000,000 feet. A large part of the logging is done with the aid of donkey engines and other mechanical equipment.

The development of this industry has been very rapid. In 1899 the state ranked sixth, but since 1905 it has been the leading state in the production of lumber, except for the year 1914 when Louisiana reported a larger cut.

In 1919 Washington produced nearly one-seventh of the total lumber cut from all species in the United States and nearly two-thirds of the total quantity cut from Douglas fir. The total cut from this species for the state was 3,876,631,000 feet, board measure, or 78.1 per cent of the total lumber cut of the state. The cut of hemlock was 286,854,000 feet, or 5.8 per cent; spruce, 229,145,000 feet, or 4.6 per cent; western yellow pine, 217,839,000 feet, or 4.4 per cent; and cedar, 205,393,000 feet, or 4.1 per cent of the total cut for the state. Other species sawed in considerable quantities were larch, Idaho white pine, and white fir.

TABLE 19.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY. ¹		
	1919	1914	1909
Lumber.....M feet b. m.	4,961,220	3,946,189	3,862,916
Lath.....thousands..	339,058	(2)	451,384
Shingles.....thousands..	7,095,122	(2)	8,870,467

¹ The output of custom mills is included in 1919 and 1909, but not in 1914.
² Not reported.

More than three-fourths of the total cut of shingles in the United States for 1919 was reported from this state. In most states the manufacture of shingles is carried on in connection with the sawing of lumber, but in Washington more than two-thirds of the total shingle output was produced by mills engaged exclusively in the manufacture of this product.

This state also led in the production of lath in 1919, contributing 18.1 per cent of the total output for the country.

Shipbuilding, including boat building (Tables 20 and 21).—This industry includes the building of steel and wooden vessels, as well as small craft, and the repair of such vessels. Comparisons of the 1919 figures for this industry, unlike those for any other for which totals are presented, are made with that of the special census for shipbuilding, 1916.

The number and tonnage of all vessels of 5 gross tons and over launched in 1919 and 1916 are shown, by classes, in Table 20.

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

	1919		1916	
	Num-ber.	Gross tonnage.	Num-ber.	Gross tonnage.
Vessels, 5 gross tons and over.....	195	634,272	69	33,320
Steel:				
Steam.....	78	477,538	5	19,695
Motor.....	15	2,450	1	412
Unrigged.....	1	10		
Wooden:				
Steam.....	36	115,651	7	4,224
Motor.....	38	4,258	39	3,384
Sail.....	9	22,603	3	4,988
Unrigged.....	28	11,762	14	623
Power boats, less than 5 gross tons..	43		52	

¹ Concrete.

The total number of vessels of 5 gross tons and over launched increased from 69 in 1916 to 195 in 1919, and the gross tonnage from 33,326 to 634,272. Over three-quarters of the total tonnage launched in 1919 were steel vessels, and with very few exceptions propelled by steam power. On an average these steel vessels exceeded 6,000 tons each as compared with an average of slightly less than 4,000 in 1916. They were nearly all of a uniform type and designed for freight service.

With the single exception of wooden-motor vessels, which show a decrease of one in number, and but a small increase in tonnage, all types of craft show large increases in number and tonnage. The large increase in tonnage in 1919 was due to the exigencies growing out of the World War, and the figures can not properly be used to measure the growth of shipbuilding under normal conditions.

Nearly all of the wooden-motor vessels were constructed for the fisheries.

The value of work done upon vessels and boats of all kinds during 1919 and 1916 is shown in Table 21.

TABLE 21.—SHIPBUILDING, INCLUDING BOAT BUILDING—VALUE: 1919 AND 1916.

	1919	1916
Total value of work.....	\$166,519,787	\$10,829,812
Work done during the year on boats and vessels launched or under construction.....	160,722,562	9,147,402
Vessels of 5 gross tons and over.....	160,102,809	9,049,726
Steel.....	135,423,901	6,908,483
Wooden.....	24,768,908	2,141,243
Boats of less than 5 gross tons.....	529,753	97,676
Power boats of all kinds.....	47,650	29,916
Sailboats, rowboats, etc.....	482,103	67,760
Repair work.....	5,320,346	1,600,617
All other.....	476,879	81,793

¹ Includes statistics for 2 establishments engaged in the construction of concrete vessels, to avoid disclosure of the operations of individual establishments.

Flour-mill and gristmill products (Table 22).—Wheat flour was the product of chief value in 1919, as in 1914, forming 75.1 per cent and 66.3 per cent, respectively, of the total value of products of the industry in the state. Feed and offal and bran and middlings, combined, were next in value, with 23.2 per cent of the total in 1919, and 26.5 per cent in 1914. The total value of wheat flour increased \$45,218,132, or 288.3 per cent, and the quantity 2,145,311 barrels, or 57 per cent, from 1914 to 1919. During this five-year period the value of feed and offal increased 214.8 per cent, and the quantity 43.9 per cent; while for bran and middlings, the value increased 182.6 per cent, and the quantity 60.4 per cent.

TABLE 22.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$81,141,020	\$23,665,282	\$17,852,944
Wheat flour:			
Barrels.....	5,910,381	3,765,070	2,804,242
Value.....	\$60,903,485	\$15,685,353	\$12,484,701
Rye flour:			
Barrels.....	6,772	6,343	5,500
Value.....	\$67,977	\$34,887	\$27,500
Corn meal and corn flour:			
Barrels.....	6,433	620	6,240
Value.....	\$55,207	\$3,453	\$23,669
Bran and middlings:			
Tons.....	104,970	121,537	
Value.....	\$7,561,139	\$2,675,237	\$4,788,673
Feed and offal:			
Tons.....	173,633	120,260	
Value.....	\$11,205,474	\$3,688,665	
Breakfast foods:			
Pounds.....	13,081,512	8,413,648	(¹)
Value.....	\$786,931	\$251,117	(¹)
All other cereal products, value.....	\$268,769	\$182,195	\$451,292
All other products, value.....	\$201,948	\$1,244,475	\$77,109

¹ Not reported separately.

Slaughtering and meat packing (Table 23).—This table presents for the census years 1919, 1914, and 1909 the kind, number, and cost of all animals slaughtered, except goats and kids, and the cost of all other materials, which includes that for goats and kids, dressed meat purchased for curing and for making lard compounds, cottonseed oil, refrigeration, curing materials, seasoning, containers, fuel, rent of power, mill supplies, and freight. The quantities and

values are presented separately for the principal products that can be shown without disclosing the operations of individual establishments. The value of the products that can not be shown separately, and that for minor and specified auxiliary products are grouped under "All other products," and include beef pickled and other cured, canned pork, canned sausage, meat puddings, scrapple, etc., oleo and other oils, hoofs, horns, etc., goat and kid skins, hog and cattle hair, wool, ice, and poultry food, to the amount of \$815,754.

TABLE 23.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$29,124,452	\$15,900,774	\$13,759,982
Animals slaughtered, cost.....	\$26,645,804	\$13,208,769	\$11,543,546
Beeves—			
Number.....	132,213	85,774	117,522
Cost.....	\$12,672,900	\$5,770,209	\$5,851,681
Calves—			
Number.....	15,718	3,571	14,218
Cost.....	\$350,564	\$51,031	\$190,168
Sheep and lambs—			
Number.....	237,440	362,854	290,383
Cost.....	\$2,488,850	\$1,879,239	\$1,304,189
Hogs—			
Number.....	301,420	373,321	239,352
Cost.....	\$11,133,490	\$5,508,290	\$4,107,598
All other materials, cost.....	\$2,478,648	\$2,692,005	\$2,216,336
PRODUCTS.			
Total value.....	\$34,388,584	\$18,443,526	\$15,653,998
Fresh meat, value.....	\$17,616,323	\$10,349,059	\$9,669,627
Beef—			
Pounds.....	64,975,261	48,921,674	60,288,504
Value.....	\$10,784,982	\$5,296,910	\$6,035,883
Veal—			
Pounds.....	2,062,623	490,047	1,949,493
Value.....	\$383,899	\$52,871	\$219,574
Mutton and lamb—			
Pounds.....	9,427,326	15,187,952	13,393,776
Value.....	\$1,828,684	\$1,887,127	\$1,361,955
Pork—			
Pounds.....	15,589,312	27,016,711	16,774,450
Value.....	\$4,000,612	\$2,744,224	\$1,876,529
Edible offal and other fresh meat—			
Pounds.....	3,689,620	4,862,441	2,060,561
Value.....	\$618,146	\$367,927	\$175,686
Pork, pickled and other cured:			
Pounds.....	21,311,428	22,352,555	17,116,659
Value.....	\$6,544,903	\$3,061,477	\$2,486,833
Sausage:			
Pounds.....	5,778,222	4,985,362	3,453,182
Value.....	\$1,032,894	\$540,609	\$300,188
Lard:			
Pounds.....	7,579,586	22,914,041	9,050,739
Value.....	\$2,198,685	\$1,702,903	\$1,069,633
Lard compounds:			
Pounds.....	7,649,806	11,126,466	(¹)
Value.....	\$1,928,338	\$540,750	(¹)
Tallow, oleo stock, and stearin:			
Pounds.....	4,488,372	4,080,450	2,939,617
Value.....	\$619,307	\$201,140	\$168,144
Casings:			
Pounds.....	662,861	(²)	(¹)
Value.....	\$90,059	(²)	(¹)
Fertilizers and fertilizer materials:			
Tons.....	8,408	2,657	2,045
Value.....	\$234,811	\$81,346	\$55,310
Hides and pelts:			
Cattle—			
Number.....	132,213	85,774	
Pounds.....	7,918,166	5,398,177	
Value.....	\$2,333,834	\$902,678	
Calf—			
Number.....	13,782	2,790	
Pounds.....	251,126	37,146	
Value.....	\$112,046	\$5,476	
Sheep—			
Number.....	234,564	362,854	290,298
Value.....	\$578,270	\$334,931	\$326,207
All other products, value.....	\$1,079,114	\$720,098	\$675,103

¹ Not reported separately.

² No oleo stock reported.

³ Included in "All other products" to avoid disclosure of individual operations.

The total cost of materials increased \$13,223,678, or 83.2 per cent, and the total value of products \$15,945,058, or 86.5 per cent, from 1914 to 1919. These increases are due to the increase per unit of cost and value in 1919 as compared with 1914, since the total number of animals slaughtered, which is representative of the actual growth of the industry, decreased 138,720, or 16.8 per cent, in the last census period; the increase for the decade was only 25,325, or 3.8 per cent.

In value of products the industry ranked fourth in the manufacturing industries of the state.

The operations of the industry are largely centered in Seattle, the total value of products for the industry in this city in 1919 being \$18,031,098, or 52.4 per cent of the entire slaughtering and meat-packing operations in the state.

Butter, cheese, and condensed milk (Table 24).—This table presents the quantity and value of the principal products of the industry in the state for 1919, 1914, and 1909. In 1919 the value of condensed milk formed 49.1 per cent of the total for the industry and butter 35.9 per cent. The value of condensed milk could not be shown separately for 1914, without the possibility of the disclosure of individual operations, but the proportionate value of butter was greater than in 1919, forming 43.3 per cent. During the five-year period 1914-1919, the value of all products for the industry increased \$21,319,990, or 180.6 per cent; the value of butter increased \$6,788,764, or 132.9 per cent, while the quantity increased 3,424,638 pounds, or 20.4 per cent.

TABLE 24.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$33,127,887	\$11,807,897	\$7,271,047
Butter:			
Pounds.....	20,237,632	16,813,044	11,302,591
Value.....	\$11,896,567	\$5,107,803	\$3,692,931
Packed solid—			
Pounds.....	6,537,278	5,407,664	1,418,308
Value.....	\$3,788,104	\$1,550,648	\$434,227
Prints or rolls—			
Pounds.....	13,700,404	11,405,380	9,884,283
Value.....	\$8,108,463	\$3,557,155	\$3,258,704
Cream sold:			
Pounds.....	1,294,885	2,740,350	3,009,180
Value.....	\$499,076	\$407,957	\$341,981
Cheese:			
Pounds.....	2,201,428	1,355,423	422,290
Value.....	\$697,819	\$214,710	\$65,597
Condensed and evaporated milk:			
Pounds.....	141,887,777	(¹)	53,614,242
Value.....	\$16,250,911	(¹)	\$2,076,326
All other butter, cheese, and condensed-milk factory products, value.....	\$3,309,481	\$5,926,480	\$47,960
All other products, value.....	\$384,033	\$150,947	\$146,262

¹ Included in "All other butter, cheese, and condensed-milk factory products," to avoid the disclosure of individual operations.

Canning and preserving (Table 25).—This table shows in detail the quantity and value of the different products of the combined industry for the census years 1919, 1914, and 1909.

TABLE 25.—CANNING AND PRESERVING: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$27,515,650	\$9,449,540	\$9,595,887
Canning and preserving, fruits and vegetables.....	9,295,891	1,120,149	482,895
Canning and preserving, fish and oysters.....	16,178,381	7,877,288	8,856,656
Pickles, preserves, and sauces.....	2,041,378	452,112	255,836
Canned vegetables:			
Cases.....	54,152	47,072	30,585
Value.....	\$174,235	\$78,677	\$65,594
Canned fruits:			
Cases.....	1,172,144	324,723	78,036
Value.....	\$6,611,206	\$757,175	\$154,392
Berries—			
Cases.....	432,249	218,922	36,549
Value.....	\$3,224,080	\$537,866	\$72,892
Blackberries—			
Cases.....	242,157	(¹)	(¹)
Value.....	\$1,533,625	(¹)	(¹)
Raspberries—			
Cases.....	101,791	(¹)	(¹)
Value.....	\$901,188	(¹)	(¹)
Loganberries—			
Cases.....	63,950	(¹)	(¹)
Value.....	\$572,333	(¹)	(¹)
Strawberries—			
Cases.....	24,351	(¹)	(¹)
Value.....	\$217,834	(¹)	(¹)
Apples—			
Cases.....	308,072	33,745	22,533
Value.....	\$1,043,548	\$54,912	\$12,319
Pears—			
Cases.....	175,105	25,850	11,549
Value.....	\$1,038,830	\$71,096	\$26,058
Cherries—			
Cases.....	146,749	(²)	(¹)
Value.....	\$827,750	(²)	(¹)
Prunes—			
Cases.....	50,365	(¹)	(¹)
Value.....	\$220,903	(¹)	(¹)
Peaches—			
Cases.....	26,352	(¹)	(¹)
Value.....	\$127,337	(¹)	(¹)
All other canned fruits—			
Cases.....	33,252	46,206	8,205
Value.....	\$127,858	\$92,701	\$13,183
Dried fruits:			
Pound.....	4,621,485	1,766,313	5,445,017
Value.....	\$520,856	\$115,335	\$258,909
Apples—			
Pounds.....	4,044,090	(²)	(¹)
Value.....	\$466,214	(²)	(¹)
All other—			
Pounds.....	577,395	1,766,313	5,445,017
Value.....	\$54,642	\$115,338	\$268,909
Canned fish, clams, etc.:			
Cases.....	1,736,205	1,132,325	(¹)
Value.....	\$13,891,955	\$6,406,955	\$7,690,370
Salmon—			
Cases.....	1,661,490	1,096,366	(¹)
Value.....	\$13,506,149	\$6,156,518	\$7,354,569
Clams—			
Cases.....	70,964	53,000	(¹)
Value.....	\$359,192	\$230,716	\$178,566
All other—			
Cases.....	3,751	2,959	(¹)
Value.....	\$26,524	\$10,721	\$157,205
Smoked fish:			
Pounds.....	1,840,034	1,619,831	4,173,700
Value.....	\$315,354	\$167,039	\$415,204
Salmon—			
Pounds.....	1,471,093	1,231,193	3,827,000
Value.....	\$282,112	\$123,217	\$389,620
Halibut—			
Pounds.....	(¹)	129,143	191,600
Value.....	(¹)	\$12,421	\$18,662
All other—			
Pounds.....	368,941	259,495	155,100
Value.....	\$33,242	\$31,401	\$9,892
Salted fish:			
Pounds.....	7,050,298	8,337,998	9,763,799
Value.....	\$658,532	\$456,530	\$519,143
Cod—			
Pounds.....	5,297,113	5,790,747	4,910,329
Value.....	\$500,862	\$247,230	\$201,118
Herring—			
Pounds.....	1,169,135	61,997	96,500
Value.....	\$85,445	\$2,693	\$3,305
All other—			
Pounds.....	584,050	2,485,254	4,756,970
Value.....	\$72,225	\$206,697	\$314,720
All other products, including pickles, preserves, and sauces, value.....	\$5,343,602	\$1,467,835	\$491,775

¹ In addition, canned fruits and vegetables, dried fruits, and pickles, preserves, and sauces, to the value of \$229,716 were reported by establishments in other industries in 1919; and to the value of \$16,300 in 1914.

² Not reported separately.

³ Reported in pounds in 1909.

⁴ Included in "All other smoked fish" to avoid disclosure of individual operations.

From 1914 to 1919 the total value of all products increased \$18,066,101, or 191.2 per cent. Of this increase, \$8,175,742, or 45.3 per cent, was for canned fruits and vegetables; \$8,301,093, or 45.9 per cent, for canned fish and oysters; and \$1,589,266, or 8.8 per cent, for pickles, preserves, and sauces. The canning of fish, clams, oysters, etc., continued to be the most important branch of the industry in Washington, the value of these products canned in 1919 constituting 58.8 per cent of the total value of all products in that year. This proportion, however, is considerably less than that shown for 1914, 83.4 per cent, due to the very large increase in 1919 over 1914 in canned fruits and vegetables, the proportion for which products increased from 11.9 per cent in 1914 to 33.8 per cent in 1919.

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

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.....	363	438	369	1,267,768	1,376,495	1,068,554
Daily.....	42	43	41	518,628	456,489	317,158
Sunday.....	13	12	13	288,724	276,212	243,663
Semiweekly.....	10	11	10	32,940	46,038	59,937
Weekly.....	255	307	268	313,718	276,979	252,396
Monthly.....	40	59	37	112,433	317,452	195,400
All other classes.....	3	6	.....	1,325	3,325	.....

¹ Includes in 1919 and 1914, 2 triweeklies.

² Includes in 1919, 3, and in 1914, 6 semimonthlies; and in 1909, 4 semimonthlies and 1 classed as "All other."

³ Includes in 1919, 2 bimonthlies and 1 quarterly; and in 1914, 4 quarterlies and 2 semiannuals.

There was a slight decrease in total circulation during the five-year period from 1914 to 1919, due to the discontinuance of a number of monthly publications devoted to agricultural interests, reform, and trade.

The daily newspaper circulation increased by 62,139, or 13.6 per cent, during the five-year period, and 201,470, or 63.5 per cent, during the decade. Of this daily circulation in 1919, 376,696, or 72.6 per cent,

were reported for newspapers published in the afternoon. The increase in the afternoon circulation during the five-year period was 66,458, or 21.4 per cent, and 170,596, or 83.1 per cent, during the decade.

The Sunday newspaper circulation increased 12,512, or 4.5 per cent, during the five years, and 45,061, or 18.5 per cent, during the decade.

Notwithstanding a considerable decrease in number, the aggregate circulation of the weekly newspapers and periodicals increased 36,739, or 13.3 per cent, from 1914 to 1919, and 61,322, or 24.3 per cent, for the ten-year period.

Seventeen foreign-language publications, with a circulation of 33,022, were reported for 1919. This is a considerable reduction from the total of 31 in 1914 and a circulation of 54,660. In 1919, as in 1914, the largest class was the weekly newspaper, with a total of 12 and a circulation of 21,850. Of these weeklies, 4 were Swedish, 2 German, 2 Norwegian, 2 Italian, and 1 each English and Norwegian and English and Yiddish. The other foreign-language publications, 5 in number, were Japanese—3 afternoon newspapers with a circulation of 10,222, and 2 monthly publications.

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 for 1919 and 1914.

TABLE 27.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1914-1919.
	1919	1914	
Number of establishments.....	177	192	-7.8
Persons engaged.....	4,032	3,744	7.7
Proprietors and firm members.....	180	206	-12.2
Salaries and wages.....	313	241	29.9
Wage earners (average number).....	3,539	3,296	7.3
Primary horsepower.....	4,932	4,022	22.6
Capital.....	\$3,595,777	\$2,838,858	26.7
Salaries and wages.....	3,003,312	2,160,303	89.7
Salaries.....	515,812	265,015	94.6
Wages.....	3,387,500	1,895,288	78.7
Paid for contract work.....	10,728	7,160	49.8
Rent and taxes.....	252,571	131,329	92.3
Cost of materials.....	1,359,049	655,300	107.4
Amount received for work done.....	7,336,715	4,251,620	72.6

¹ A minus sign (-) denotes decrease.

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 the hand trades, household industries, etc.

TABLE 28.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	46
Persons engaged.....	549
Proprietors and firm members.....	54
Salaried employees.....	58
Wage earners (average number).....	437
Primary horsepower.....	395
Capital.....	\$445,964
Salaries and wages.....	587,383
Salaries.....	107,150
Wages.....	480,233
Paid for contract work.....	8,273
Rent and taxes.....	37,633
Cost of materials.....	210,689
Amount received for work done.....	1,127,528

Custom gristmills (Table 29).—Statistics for custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom gristmills were not collected in 1914. Table 29, however, summarizes the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled.

TABLE 29.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1909-1919.
	1919	1909	
Number of establishments.....	35	21	.....
Persons engaged.....	43	35	.....
Proprietors and firm members.....	37	26	.....
Wage earners (average number).....	6	9	.....
Primary horsepower.....	579	410	41.2
Capital.....	\$120,256	\$52,458	129.2
Wages.....	7,287	4,855	50.1
Rent and taxes.....	2,258	1,040	117.1
Cost of materials ²	888,214	237,127	274.6
Value of products ²	954,732	286,590	258.1

¹ Percentages are omitted where base is less than 100.
² Includes estimate of all grain ground.

GENERAL TABLES.

Table 30 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 the cities of Seattle, Spokane, and Tacoma, and for cities having from 10,000 to 50,000 inhabitants, similar data for all industries combined.

Table 31 presents, for 1919, for the state as a whole and for Seattle, Spokane, and Tacoma, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants.

MANUFACTURES—WASHINGTON.

TABLE 30.—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 earners (aver-age num-ber).	Pri-mary horse-power.	Wages.	Cost of materials.	Value of prod-ucts.	INDUSTRY AND CITY.	Cen-sus year.	Num-ber of estab-lish-ments	Wage earners (aver-age num-ber).	Pri-mary horse-power.	Wages.	Cost of materials.	Value of prod-ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All Industries.....	1919	4,018	132,928	687,436	\$194,968	\$443,178	\$809,623								
	1914	3,820	67,206	359,567	51,703	136,609	245,326								
	1909	3,674	69,120	297,897	49,766	117,888	220,746								
Agricultural implements.....	1919	9	146	320	178	446	913	Food preparations, not else-where specified.	1919	40	128	644	\$127	\$1,401	\$2,065
	1914	7	134	202	116	184	392		1914	27	101	491	456	456	663
	1909	7	146	202	116	184	392		1909	30	121	157	72	372	695
Automobile bodies and parts.	1919	58	276	420	402	466	1,226	Foundry and machine-shop products. ³	1919	539	6,157	18,306	9,563	12,275	31,782
	1914	13	58	48	57	57	170		1914	243	2,128	6,645	1,834	3,000	6,837
	1909	5	14	15	22	22	56		1909	178	2,439	5,117	1,967	3,724	7,988
Awnings, tents, and sails.....	1919	15	107	59	165	752	1,174	Fur goods.....	1919	22	124	31	168	282	681
	1914	19	72	40	59	277	468		1914	14	55	17	38	60	164
	1909	19	121	42	88	562	828		1909	15	71	14	55	144	316
Boots and shoes.....	1919	9	146	175	153	445	846	Furniture.....	1919	59	787	2,077	899	1,653	2,777
	1914	11	178	194	112	500	707		1914	50	544	1,407	353	452	1,008
	1909	9	170	148	88	450	599		1909	36	582	1,284	410	602	1,389
Boxes, paper and other, not elsewhere specified.	1919	11	329	213	249	452	973	Gas, illuminating and heat-ing.	1919	12	637	2,969	838	1,606	3,660
	1914	8	133	60	58	85	216		1914	13	630	2,568	487	759	2,369
	1909	6	110	42	46	97	197		1909	12	465	1,479	273	661	1,684
Brass, bronze, and copper products.	1919	16	163	311	285	1,006	1,608	Ice, manufactured.....	1919	42	181	4,318	271	180	820
	1914	11	45	118	42	84	180		1914	32	159	3,080	147	144	551
	1909	7	40	60	33	60	136		1909	25	163	2,210	140	141	558
Bread and other bakery products.	1919	364	1,743	1,726	2,230	9,237	15,043	Iron and steel forgings, not made in steel works or roll-ing mills.	1919	11	346	1,795	605	1,794	3,155
	1914	300	1,410	1,265	1,001	3,548	6,572		1914	4	19	123	12	26	49
	1909	298	969	1,265	704	2,856	4,570	Jewelry.....	1919	16	215	381	324	454	1,022
Brick and tile, terra-cotta, and fire-clay products.	1919	35	604	5,291	789	555	1,783		1914	17	173	190	156	189	418
	1914	40	662	5,404	626	529	2,027	Leather goods ⁴	1919	58	153	110	189	683	1,331
	1909	66	1,589	6,060	989	763	3,052		1914	43	101	67	82	365	646
Butter, cheese, and condensed milk.	1919	130	1,228	5,095	1,582	26,848	33,128		1909	34	160	76	123	602	1,012
	1914	101	860	3,212	657	9,512	11,808	Liquors, malt.....	1919	8	141	2,967	222	1,017	1,833
	1909	97	735	2,203	457	5,676	7,271		1914	25	883	6,315	933	2,801	9,458
Canning and preserving ¹	1919	127	3,394	8,244	3,154	17,613	27,516		1909	31	795	5,675	709	2,281	6,903
	1914	86	2,362	4,565	1,322	5,279	9,450	Lumber and timber prod-ucts. ⁵	1919	1,236	56,035	436,407	83,659	93,128	234,881
	1909	80	2,020	2,433	1,272	5,046	9,595		1914	939	88,079	265,848	29,356	38,474	83,536
Cars and general shop construction and repairs by electric-railroad companies.	1919	16	679	1,390	940	579	1,580		1909	1,263	49,749	224,456	31,327	36,879	59,155
	1914	13	382	1,223	341	259	633	Marble and stone work.....	1919	27	150	836	222	370	928
	1909	11	410	598	346	342	733		1914	27	149	1,612	160	277	673
Cars and general shop construction and repairs by steam-railroad companies.	1919	35	6,480	6,785	8,477	5,724	14,935		1909	38	473	1,210	410	269	1,022
	1914	26	4,543	7,160	3,541	3,080	7,027	Mattresses and spring beds, not elsewhere specified.	1919	12	226	726	277	731	1,365
	1909	17	2,716	3,600	1,990	2,484	4,666		1914	10	190	680	142	332	614
Cement.....	1919	4	436	10,536	716	1,720	3,241		1909	12	166	485	131	437	718
	1914	5	620	18,237	405	1,512	2,039	Mineral and soda waters.....	1919	53	123	431	166	671	1,257
Chemicals.....	1919	8	90	1,165	123	536	1,363		1914	60	108	293	97	212	513
	1914	4	32	89	25	259	374		1909	49	115	158	91	171	492
Clothing, women's.....	1919	20	282	81	253	609	1,171	Printing and publishing ⁶	1919	569	2,453	3,710	3,608	4,553	17,349
	1914	12	159	35	103	207	413		1914	638	2,341	3,093	2,092	2,435	9,824
	1909	6	62	16	41	81	168		1909	506	2,624	2,232	2,140	2,224	9,286
Coffee, roasting and grinding.	1919	24	215	414	237	3,166	4,357	Shipbuilding, including boat building.	1919	76	34,576	50,696	56,053	74,046	166,620
	1914	25	193	299	117	1,592	2,237		1914	64	1,444	5,866	1,152	987	3,101
	1909	15	131	280	76	824	1,399		1909	60	744	2,105	643	562	1,550
Confectionery and ice cream.	1919	119	1,596	1,491	1,339	5,684	10,302	Slaughtering and meat pack-ing.	1919	20	1,222	3,821	1,526	29,124	34,389
	1914	100	1,038	642	366	1,360	2,475		1914	11	864	2,140	691	15,901	18,444
Copper, tin, and sheet-iron products. ⁷	1919	116	1,019	1,182	1,276	6,645	9,232		1909	14	828	1,883	575	13,760	15,654
	1914	112	415	273	355	829	1,620	Stoves and hot-air furnaces....	1919	8	131	176	188	171	530
	1909	81	583	207	521	963	1,946		1914	4	53	60	44	50	143
Flour-mill and gristmill prod-ucts.	1919	119	1,536	20,785	2,144	73,155	81,141		1909	9	72	99	53	113	211
	1914	100	928	13,401	744	20,272	23,665	Tobacco, cigars and cigarettes.	1919	56	144	4	155	189	540
	1909	96	644	11,773	464	15,474	17,853		1914	115	215	.....	185	217	563
									1909	114	305	.....	205	240	681
								All other industries.....	1919	510	8,473	82,399	11,187	63,863	91,186
									1914	410	4,806	32,596	3,591	20,137	32,589
									1909	435	4,952	21,360	3,312	19,406	28,333

¹Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; "canning and preserving, oysters"; and "pickles, preserves, and sauces."
²Includes "tinware, not elsewhere specified."
³Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."
⁴Includes "saddlery and harness" and "trunks and valises."
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" and "lithography" in all years, and "engraving, steel and copper plate, including plate printing" in 1919.

TABLE 30.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.			INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Wages.		
					Expressed in thousands.	Cost of materials.	Value of products.						Expressed in thousands.	Cost of materials.	Value of products.
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
SEATTLE	1919	1,229	40,843	90,073	\$63,395	\$149,650	\$274,431	SEATTLE—Continued.							
All industries.	1914	1,014	12,429	44,001	9,935	37,770	64,475	Mineral and carbonated waters.	1914	10	30	49	\$45	\$174	\$341
	1909	753	11,523	38,267	8,589	28,783	50,814		1914	12	32	50	35	79	167
Automobile bodies and parts.	1919	21	159	170	241	244	643		1909	10	54	83	42	62	191
	1914	6	41	26	44	44	127	Models and patterns, not including paper patterns.	1919	7	24	64	57	20	107
Awnings, tents, and sails....	1919	7	77	44	123	572	842		1914	7	16	52	11	6	35
	1914	8	47	19	36	171	277	Printing and publishing ⁴	1919	193	1,053	1,651	1,778	2,361	8,669
	1909	9	72	27	58	278	428		1914	214	1,057	1,264	952	1,148	4,613
Boxes, paper and other, not elsewhere specified.	1919	7	191	106	149	205	542		1909	133	1,042	791	904	1,042	4,009
	1914	5	88	43	39	60	150	Shipbuilding, wooden, including boat building.	1919	28	2,430	5,907	2,985	4,211	11,093
Brass, bronze, and copper products.	1919	12	133	245	248	834	1,381		1914	26	198	355	147	208	460
	1914	5	35	81	33	52	127	Slaughtering and meat packing.	1919	4	503	1,438	676	15,529	18,081
Bread and other bakery products.	1919	117	788	690	1,024	4,276	6,818		1914	3	482	900	379	9,706	11,133
	1914	132	534	653	416	1,283	2,355	Tobacco, cigars.....	1919	4	325	468	240	6,430	7,171
	1909	78	295	148	260	893	1,550		1914	8	61	1	73	72	258
Brick and terra-cotta products.	1919	7	151	900	220	86	423		1914	24	56	.....	45	52	146
	1914	5	79	430	69	42	176	All other industries.....	1919	24	65	.....	45	46	140
	1909	5	137	482	100	37	259		1914	371	26,776	40,504	43,291	69,200	145,319
Butter.....	1919	10	73	342	108	2,067	2,386		1914	283	4,519	13,805	3,563	9,538	20,410
	1914	4	46	250	32	751	909	SPOKANE	1919	282	4,326	9,653	3,137	8,378	16,831
	1909	6	22	55	19	439	514	All industries.	1914	277	3,020	10,362	2,465	25,652	40,149
Canning and preserving ¹	1919	14	138	211	150	1,316	1,816		1914	277	3,020	10,362	2,465	25,652	40,149
	1914	10	210	1,123	169	424	777	Bread and other bakery products.	1919	364	4,752	13,246	5,419	25,052	40,149
	1909	7	59	233	44	234	394		1914	277	3,020	10,362	2,465	25,652	40,149
Cars and general shop construction and repairs by steam-railroad companies.	1919	3	300	376	395	277	742		1914	283	4,519	13,805	3,563	9,538	20,410
	1914	5	437	207	367	303	714	Confectionery and ice cream.	1919	26	331	304	357	1,508	2,543
Coffee, roasting and grinding.	1919	14	161	242	173	2,420	3,297		1914	22	414	301	256	1,889	1,889
	1914	12	140	163	87	1,097	1,599	Copper, tin, and sheet-iron work.	1919	14	497	371	274	1,568	2,761
	1909	7	90	90	54	548	1,019		1914	13	66	55	45	135	243
Confectionery and ice cream.	1919	52	745	564	731	2,775	5,258	Flour-mill and gristmill products.	1919	15	73	58	115	193	456
	1914	41	381	301	209	850	1,520		1914	16	64	46	66	125	266
Flour-mill and gristmill products.	1919	11	559	4,926	710	25,907	29,129		1909	13	111	50	120	195	408
	1914	10	279	3,425	6,202	7,601	4,430	Food preparations, not elsewhere specified.	1919	6	110	1,646	164	6,495	6,966
	1909	7	155	2,365	111	3,872	4,430		1914	3	62	963	55	1,052	1,810
Food preparations, not elsewhere specified.	1919	17	60	214	56	476	756	Foundry and machine-shop products. ²	1919	4	61	680	47	1,444	1,832
	1914	15	52	91	32	219	327		1914	9	9	65	8	180	237
	1909	11	65	48	39	220	442	Furniture.....	1919	4	14	49	8	16	46
Foundry and machine-shop products. ²	1919	203	3,165	11,117	5,171	7,214	18,148		1914	9	9	65	8	16	46
	1914	82	1,004	3,125	880	1,367	3,262	Lumber planing-mill products, not including planing mills connected with sawmills.	1919	75	658	979	867	1,230	2,768
	1909	71	1,230	2,787	1,023	2,042	4,290		1914	23	221	565	202	317	730
Fur goods.....	1919	13	77	15	99	155	372		1909	14	288	531	213	415	871
	1914	8	32	8	20	33	91	Furniture.....	1919	13	38	113	41	70	168
	1909	7	37	4	32	75	150		1914	6	18	46	14	22	47
Furniture.....	1919	27	214	593	298	380	977		1909	4	16	35	12	12	37
	1914	24	100	227	75	98	273	Ice, manufactured.....	1919	10	340	1,198	345	1,151	1,700
	1909	17	166	239	139	140	405		1914	11	359	1,568	281	699	1,213
Ice, manufactured.....	1919	6	71	1,617	99	60	253	Mineral and carbonated waters.	1919	13	634	1,613	446	937	1,835
	1914	4	49	1,155	43	37	209		1914	6	16	22	17	90	159
	1909	5	61	721	53	68	225	Pickles and sauces.....	1919	4	7	54	8	23	53
Knit goods.....	1919	5	67	15	55	136	297		1914	4	8	10	8	25	60
	1914	6	41	15	22	54	130	Printing and publishing ⁴	1919	3	13	15	12	43	63
Lumber and timber products. ³	1919	52	2,669	17,629	4,259	8,284	15,583		1914	3	9	11	5	45	82
	1914	55	2,337	15,917	1,893	3,705	6,420		1919	54	376	608	553	762	3,354
	1909	65	3,208	19,971	2,242	3,918	8,148		1914	56	338	400	329	596	1,942
Marble and stone work, monuments and tombstones.	1919	5	30	123	43	27	156		1909	46	365	387	376	477	2,120
	1914	4	27	26	28	35	80	Tobacco, cigars.....	1919	10	29	.....	21	29	65
	1909	5	54	38	47	81	218		1914	14	30	.....	23	38	68
Mattresses and spring beds, not elsewhere specified.	1919	5	108	230	138	372	794	All other industries.....	1919	15	46	.....	38	39	108
	1914	4	110	290	87	206	388		1914	102	1,418	6,304	1,173	4,950	8,247
	1909	139	2,112	5,740	1,606	5,849	10,135		1909	139	2,112	5,740	1,606	5,849	10,135

¹ Includes "canning and preserving, fish," and "pickles, preserves, and sauces."
² Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, welding"; "machine tools"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills," in all years, and "plumbers' supplies, not elsewhere specified," in 1919 and 1914.
³ Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "window and door screens" in 1914 and 1909.
⁴ Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
⁵ Includes "automobile repairing"; "iron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "engines, steam, gas, and water" in 1919.

MANUFACTURES—WASHINGTON.

TABLE 30.—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.			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.					Cost of mate- rials.	Value of prod- ucts.	Expressed in thousands.	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
TACOMA	1919	348	10,714	59,557	\$14,510	\$73,273	\$103,172	TACOMA—Continued.							
All industries.	1914	359	6,765	24,086	4,964	17,391	27,708								
	1909	277	6,820	22,666	4,714	14,946	24,462								
Automobile bodies and parts.	1919	9	52	74	71	104	289	Furniture.....	1919	9	495	1,229	\$512	\$566	\$1,531
	1914	3	5	3	4	5	13		1914	10	337	742	213	283	621
	1914	3	5	3	4	5	13		1909	7	285	625	194	348	690
Bread and other bakery products.	1919	29	256	242	307	1,197	2,036	Lumber and timber prod- ucts. ²	1919	35	3,700	21,671	5,141	7,110	15,519
	1914	36	180	122	116	412	835		1914	26	2,146	10,323	1,548	2,611	5,060
	1909	26	104	109	84	333	567		1909	31	2,935	12,802	1,959	2,889	6,040
Coffee, roasting and grinding.	1919	4	18	75	27	367	469	Marble and stone work.....	1919	4	62	378	94	144	399
	1914	7	35	78	17	287	409		1914	5	70	225	63	180	374
	1909	4	25	69	12	191	239	Mineral and carbonated waters.	1919	3	13	10	23	50	114
Confectionery and ice cream.	1919	14	217	132	187	797	1,299		1914	5	14	10	10	17	48
	1914	11	106	106	59	206	388		1909	3	10	2	7	13	45
Copper, tin, and sheet-iron products. ¹	1919	15	67	66	85	171	388	Printing and publishing ⁴	1919	47	362	411	446	543	1,631
	1914	18	65	50	60	79	200		1914	58	293	546	260	252	1,158
	1909	13	69	37	67	89	231		1909	42	293	264	253	247	1,094
Flour-mill and gristmill prod- ucts.	1919	8	359	5,176	588	18,910	21,089	Shipbuilding, wooden, in- cluding boat building.	1919	7	639	2,420	754	1,693	4,294
	1914	7	258	3,047	215	6,695	6,071		1914	5	17	22	14	21	50
	1909	5	118	2,630	76	3,430	3,844		1909	6	31	58	29	38	90
Food preparations, not else- where specified.	1919	8	41	125	41	516	748	Tobacco, cigars and cigarettes.	1919	7	19	.....	23	33	76
	1914	4	21	61	11	102	156		1914	15	54	.....	36	46	120
	1909	5	24	82	15	98	148		1909	17	77	.....	47	53	150
Foundry and machine-shop products. ³	1919	57	549	2,248	871	1,477	3,615	All other industries.....	1919	92	3,845	25,200	5,340	39,595	49,475
	1914	27	370	1,014	260	665	1,321		1914	102	2,794	7,734	2,078	6,138	10,260
	1909	23	392	649	289	697	1,368		1909	65	2,399	5,279	1,682	6,520	9,956
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
ABERDEEN	1919	73	2,715	14,504	\$4,474	\$7,661	\$15,758	VANCOUVER	1919	30	4,522	8,553	\$7,068	\$11,030	\$21,252
	1914	60	1,568	13,280	1,219	2,612	4,815		1914	28	360	936	262	557	1,301
	1909	43	1,509	9,582	995	2,172	3,590	WALLA WALLA	1919	69	428	1,744	538	2,856	4,323
BELLINGHAM	1919	110	3,088	13,717	4,344	9,969	17,808		1914	47	311	1,737	250	1,216	2,015
	1914	86	1,922	10,170	1,318	3,366	6,264		1909	48	388	1,500	323	1,385	2,317
	1909	96	1,566	5,176	1,027	2,422	4,600	YAKIMA	1919	77	1,326	2,851	1,508	2,609	5,767
EVERETT	1919	127	3,273	21,702	4,817	11,907	21,887		1914	42	582	2,343	402	873	1,837
	1914	98	1,959	13,553	1,610	4,000	6,530		1909	35	601	1,967	373	930	2,152
	1909	93	2,200	10,021	1,585	3,485	6,593								
HOQUIAM	1919	38	2,164	14,732	3,400	6,307	11,872								
	1914	33	1,657	12,377	1,287	3,042	5,009								

¹Includes "tinware, not elsewhere specified" in 1914.
²Includes "automobile repairing"; "engines, steam, gas, and water"; "iron and steel, welding"; and "structural iron work, not made in steel works or rolling mills," in all years; "steam fittings and steam and hot-water heating apparatus" in 1914; and "hardware" in 1919.
³Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."
⁴Includes "bookbinding and blank-book making" and "lithographing" in 1914.

MANUFACTURES—WASHINGTON.

TABLE 31.—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.

	4,918	150,479	4,195	5,221	5,405	2,730	132,928	Se 146,872	Fe 89,914	(*)	(*)	(*)	(*)	(*)	Dollars. 574,235,183
1 All industries.....	4,918	150,479	4,195	5,221	5,405	2,730	132,928	Se 146,872	Fe 89,914	(*)	(*)	(*)	(*)	(*)	574,235,183
2 Agricultural implements.....	9	177	8	16	6	1	146	Je 207	De 84	123	122		1		805,226
3 Artificial limbs.....	5	24	5	2	1	1	16	No 4 19	Ap 4 14	15	14				11,030
4 Artificial stone products.....	34	124	25	13	4		82	Je 109	Ja 34	107	107		1		633,173
5 Automobile bodies and parts.....	58	377	58	22	9	12	276	My 4 292	Fe 247	275	270		5		731,895
6 Automobile repairing.....	562	2,591	638	119	65	82	1,687	Sc 1,840	Ja 1,456	1,844	1,829		13	2	3,997,777
7 Awnings, tents, and sails.....	15	143	13	10	7	6	107	Au 118	Ja 97	107	77		30		689,552
8 Belting, leather.....	5	18	6	2	1	1	8	Sc 4 9	Ja 4 7	8	8				96,739
9 Bookbinding and blank-book making	14	52	14	1			8	De 44	Se 27	41	22		17		121,587
10 Boots and shoes.....	9	189	4	22	11	6	146	Oc 4 150	Je 140	164	113		46	2	727,570
11 Boxes, paper and other, not elsewhere specified.....	11	369	4	22	6	8	329			422	101	319		2	662,563
12 Shipping containers and set-up paper boxes.....	6	212	3	11	4	3	191	De 273	Mh 136	275	63	210		2	367,994
13 Cartons.....	5	157	1	11	2	5	138	De 200	Ja 94	147	38	109			294,569
14 Boxes, wooden packing, except cigar boxes.....	16	729	4	25	13	8	679	Au 781	Fe 598	673	609	53	8	3	2,021,071
15 Brass, bronze, and copper products.....	16	212	12	20	10	7	163	Ja 195	Fe 70	171	168		2	1	453,884
16 Bread and other bakery products.....	364	2,494	406	81	153	111	1,743			1,956	1,266	669	10	2	4,565,105
17 Biscuit and crackers.....	5	537	15	73	19	430	No 516	Ap 364		611	181	323	5	2	1,017,469
18 All other.....	359	1,957	406	66	80	92	1,313	De 1,412	Fe 1,202	1,445	1,085	346	14		3,547,616
19 Brick and tile, terra-cotta, and fire-clay products.....	35	771	20	59	19	9	664			821	815		1	5	4,649,919
20 Building brick.....	23	385	16	37	5	5	322	Jy 460	Fe 125	387	385		1	1	1,752,092
21 Fire brick, sewer pipe, and drain-tile.....	8	233	3	12	10	2	206	Au 235	Ja 160	236	232		4		1,769,070
22 Terra-cotta products.....	4	153	1	10	4	2	136	De 198	Mh 4 84	198	198				1,123,737
23 Brooms, from broom corn.....	6	91	6	5	8	3	69	De 90	Fe 61	88	62		26		1,236,466
24 Butter.....	101	798	40	146	67	70	475	Jy 559	Fe 410	482	431	50		1	3,952,981
25 Buttons.....	3	10	5				5	(*)	(*)	5	5				4,610
26 Canning and preserving, fish.....	66	1,930	15	133	65	34	1,683	Au 3,041	Ja 610	3,122	2,434	679	5	4	16,603,445
27 Canning and preserving, fruits.....	30	1,518	29	69	47	25	1,348			2,871	782	1,970	30	80	4,320,371
28 Canned fruits.....	22	1,390	20	61	42	24	1,243	Se 2,548	Fe 274	2,576	652	1,814	30	80	3,887,450
29 Dried fruits.....	8	128	9	8	5	1	105	No 293	Mh 10	295	130	165			3,489,891
30 Canning and preserving oysters.....	14	137	15	12	2	1	107	Mh 287	Jy 6	345	169	176			335,751
31 Carpets, rag.....	8	26	10		1		15	Ap 4 17	Fe 12	17	17				13,800
32 Carriages and wagons, including repairs.....	13	36	16				20	Mh 4 21	No 4 18	20	19			1	73,629
33 Cars and general shop construction and repairs by electric-railroad companies.....	16	711		16	13	3	679	No 787	Mh 495	975	966	8	1		1,536,856
34 Cars and general shop construction and repairs by steam-railroad companies.....	35	6,813		177	103	53	6,480	De 6,832	Ap 4 6,280	6,572	6,490	82			11,903,741
35 Cement.....	4	484		22	18	8	436	Au 549	Ja 242	468	463	5			6,209,923
36 Cheese.....	15	36	9	6	1	1	19	Jy 27	Ja 4 12	24	21		3		135,149
37 Chemicals.....	8	164		26	27	21	99	De 108	Ap 4 76	108	108				1,461,509
38 Cleansing preparations.....	4	11	5	1	2		3	Oc 4 4	Ja 4 2	4	4		1		11,700
39 Clothing, men's.....	9	562	3	21	52	18	468	De 543	Ap 411	543	65	473	4	1	1,482,709
40 Clothing, women's.....	20	342	13	17	20	10	282			285	47	234	2	2	431,823
41 Suits, skirts, and cloaks.....	7	71	5	3	2	3	58	Mh 72	No 41	58	31	26	1		141,012
42 Wrappers and house dresses.....	5	72	2	5	4		61	My 70	Mh 53	61	3	58			97,624
43 All other.....	8	199	6	9	14	7	163	Jy 210	Ja 94	166	13	150	1	2	193,187
44 Coal-tar products.....	3	36	1	8		1	26	Au 4 55	Ja 18	21	21				235,988
45 Coffee, roasting and grinding.....	24	372	11	30	89	27	215	Jy 238	Oc 203	227	127	100			1,847,770
46 Coffins, burial cases, and undertakers' goods.....	5	90	3	10	4	1	72	Ja 82	Jy 61	69	46	23			354,158
47 Condensed milk.....	14	964		41	125	64	734	Je 887	Ja 631	674	545	129			8,778,228
48 Confectionery and ice cream.....	119	1,931	101	105	31	98	1,596			1,896	570	1,320	2	4	4,314,598
49 Confectionery.....	86	1,688	70	84	19	79	1,436	De 1,751	My 1,284	1,738	433	1,299	2	4	3,739,537
50 Ice cream.....	33	243	31	21	12	19	160	Jy 190	Fe 134	158	137	21			574,761
51 Copper, tin, and sheet-iron work.....	110	604	115	39	25	16	409	Oc 465	Fe 233	442	437	3	2		1,479,653
52 Cutlery and edge tools.....	3	10	2	1			7	No 4 8	Ja 4 6	8	7				37,775
53 Druggists' preparations.....	7	29	8	1			20	Se 23	Fe 4 18	22	15		7		99,516
54 Electrical machinery, apparatus, and supplies.....	12	268	2	32	21	23	190	Ja 274	Fe 134	225	178	48			1,931,181
55 Electroplating.....	5	15	6	1		1	7	No 4 10	Ja 4 5	10	10				13,251
56 Engines, steam, gas, and water.....	13	639	6	47	31	9	546	Jy 712	Fe 233	552	551		1		2,609,331
57 Engraving, steel and copper plate, including plate printing.....	3	33	2	3		4	24	No 4 29	My 4 21	24	10	14			38,333
58 Fancy articles, not elsewhere specified.....	3	12	3				9	Se 14	Je 6	8	7				4,005
59 Flour-mill and gristmill products.....	119	2,153	67	175	272	103	1,536	No 1,829	Jy 1,332	1,735	1,680	53	2		39,058,570
60 Food preparations, not elsewhere specified.....	40	226	23	31	29	15	128			142	82	59	1		927,140
61 Breadstuffs, cereals, and breakfast foods.....	5	12		5	1		6	Oc 4 8	Ja 4 5	9	5	4			115,988
62 Macaroni, vermicelli, and noodles.....	10	61	3	12	2	3	41	De 44	Fe 4 40	44	31	13			307,068
63 Sweetening sirups, other than cane.....	4	24		6	5	3	10	Se 15	Mh 7	10	5	5			92,016
64 Other preparations for human consumption.....	17	113	16	8	20	9	60	Je 72	Ja 49	67	29	37	1		381,370
65 For animals and fowls.....	4	16	4	1		1	11	Au 4 13	Je 4 8	12	12				30,698

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—WASHINGTON.

25

COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.									POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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	Rent- ² .		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
18,564,269	11,809,497	194,968,222	5,376,513	2,807,238	21,044,415	431,806,276	11,281,255	809,622,984	356,445,453	687,436	402,007	51,280	6,123	7,723	220,284	62,234	1	
39,518	12,133	178,460	80	1,388	40,207	433,985	11,760	912,946	467,192	320								
10,238	351	20,810		3,610	170	13,879	421	55,936	41,636	53							320	
30,012	7,898	114,520		5,077	3,181	162,478	5,845	429,524	261,201	404	180						53	
53,632	10,024	402,079		36,908	14,711	448,588	10,621	1,226,303	761,094	429			29	6			249	
219,555	145,848	2,404,747		36,906	60,592	60,592	2,311,886	6,952,681	4,537,659	2,311	32						429	
34,916	18,651	165,253		1,814	17,034	34,112	751,152	1,174,066	421,710	59				225			2,054	
2,500	882	11,635			2,712	933	99,678	141,073	41,046	18							57	
1,800		42,604		1,400	5,225	1,570	34,390	133,622	97,857	19							18	
53,845	24,166	153,008		3,080	20,330	424,847	19,712	846,077	401,518	175							19	
69,414	18,138	249,117		16,251	11,558	445,506	6,963	973,316	520,847	213							175	
37,121	8,948	146,003		11,250	7,420	300,677	3,621	611,317	307,019	123							213	
32,293	9,100	103,114		5,001	4,138	144,829	3,342	361,999	213,828	90							123	
92,487	28,595	747,571		12,135	60,241	1,706,241	29,859	3,380,997	1,644,867	4,060	1,670	1,000					90	
83,874	13,073	284,880		20,608	10,127	9,500	20,773	1,608,367	602,537	311							311	
259,600	375,608	2,228,892		13,917	224,372	217,036	9,000,945	236,063	15,043,030	1,726	45						1,671	
58,806	155,678	360,188		11,357	24,200	125,459	1,242,372	28,988	2,489,412	264	45		5	5			219	
200,884	219,930	1,869,704		2,560	200,072	91,577	7,758,573	207,075	12,553,618	1,462							44	
133,486	34,805	789,328		1,250	7,450	39,066	185,384	369,834	1,782,566	5,291	3,384						1,452	
73,008	11,137	409,976		1,250	7,450	17,708	83,371	183,065	901,708	2,952	1,300						1,642	
40,155	16,037	216,850			13,928	63,521	147,449	584,489	373,510	1,424	1,409						15	
20,293	7,631	162,502			7,430	35,492	39,320	296,372	218,560	915	675						65	
10,857	14,733	50,329			679	209,704	1,716	816,071	107,651	102							160	
180,859	138,376	588,555		3,321	35,498	60,432	10,611,350	119,131	2,260,404	2,877	1,127						102	
		8,972		96	510	3	3,531	30	11,386	1							57	
437,783	159,000	1,781,027		226,383	22,655	449,883	10,137,203	163,470	15,890,141	6,775	4,224	72	844	4			1,632	
138,636	125,037	1,033,944		1,000	13,726	5,795,372	84,474	9,295,891	3,416,145	1,032	409						1,631	
126,761	120,232	894,274		1,000	10,430	95,442	5,550,422	24,886	530,154	820	259						61	
11,875	4,805	141,670		3,296	8,040	244,850	24,886	8,765,737	3,155,727	212	150						27	
12,400	4,393	69,624		420	2,752	172,307	4,663	318,240	141,270	175	134						28	
	634	20,413		1,770	345	10,110	1,374	48,601	37,117	56	10						30	
		33,583		72	2,712	1,097	29,901	4,214	99,546	66							13	
27,370	15,671	939,984		832	17,028	547,968	30,781	1,550,174	1,001,485	1,390	30						31	
441,668	204,632	8,476,604			91,282	5,290,982	432,829	14,935,008	9,211,107	6,785	1,853						60	
64,138	40,745	716,093			57,180	988,175	731,971	3,241,114	1,520,968	19,530	100						47	
5,300	630	26,879		965	1,350	1,007	463,652	6,561	550,266	140	89						35	
69,473	64,637	123,135		2,334	123,673	469,069	66,825	1,323,434	827,540	1,165	40						36	
1,512	1,818	3,181		1,622	98	11,989	4,449	27,490	15,052	8							37	
72,361	83,890	370,093		17,294	136,087	913,503	4,371	2,230,828	1,312,454	115							38	
48,077	31,469	252,922		20,027	10,690	607,048	2,263	1,171,227	561,916	81							38	
10,983	7,394	90,731		5,588	5,536	222,254	502	381,308	158,552	9							41	
9,166	3,568	44,300		3,638	1,984	115,924	437	236,308	119,947	30							41	
27,928	20,507	117,891		500	9,743	268,870	1,324	553,611	283,417	42							42	
16,441	5,475	28,373		2,710	4,745	222,218	14,946	367,588	130,424	115	100						42	
109,740	238,870	236,651		300,294	35,793	41,003	3,151,773	14,320	4,350,971	414							44	
36,228	5,559	61,426		484	18,832	245,142	4,530	453,019	203,347	152							45	
199,096	291,813	966,545		2,440	756,038	15,395,573	251,418	19,586,736	3,939,745	2,072	1,124	255					46	
328,140	517,195	1,339,181		15,743	108,245	273,682	5,582,959	101,361	10,301,924	1,491	75						47	
256,067	482,953	1,101,664		15,743	90,664	258,183	4,509,088	78,701	8,401,406	790	25						48	
72,083	34,242	237,517		17,591	15,499	1,073,271	27,570	1,900,518	799,677	701	50						49	
126,934	51,469	630,915		872	43,721	1,132,553	10,222	2,647,367	1,404,592	332							50	
1,200		16,166		1,920	272	12,932	800	37,300	23,568	28							51	
2,000		22,862		1,205	700	425	87,417	1,743	283,475	12							52	
73,704	40,293	201,890		8,668	27,982	640,064	5,638	1,066,512	420,810	632							53	
2,120	180	12,754		3,185	111	7,155	1,447	36,168	27,566	48							54	
175,562	63,817	774,258		5,000	13,228	49,852	1,095,500	29,966	2,527,275	1,519							55	
8,070	2,540	26,446		3,895	198	18,255	496	79,884	61,133	9							56	
517,564	552,184	2,144,047		17,878	30,808	621,684	72,753,382	401,500	81,141,020	20,785	2,650						57	
65,215	79,554	127,120		215	19,779	26,744	1,378,982	22,111	2,064,511	644							58	
10,275	680	10,720		1,860	19,790	205,336	1,921	314,246	106,989	52							59	
19,960	4,578	43,300		4,456	3,151	295,585	8,700	433,772	129,487	252							60	
14,980	7,606	6,679		1,587	483	124,027	1,082	172,584	47,475	7							61	
20,000	65,190	52,195		215	10,031	2,707	606,735	7,358	959,274	183							62	
	1,500	14,217		1,845	1,845	147,299	3,050	184,635	34,286	170							63	

¹ No figures given for reasons stated under "Explanation of terms."
² Same number reported for one or more other months.

³ Same number reported throughout the year.

MANUFACTURES—WASHINGTON.

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

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

1,308,809	516,801	5,881,174	13,390	166,312	560,405	7,685,308	410,784	20,801,412	12,705,320	13,838	379	237	188	300	12,734	60	1
346,236	92,764	998,278	000	44,740	39,580	1,156,006	50,646	4,049,795	2,837,143	3,876	50	87	111	300	3,328	60	2
185,064	56,131	923,592	308	12,842	129,777	1,179,849	123,399	3,139,433	1,836,185	1,507	8				1,409		3
490,862	202,478	1,965,715	10,880	97,750	119,965	3,620,561	101,521	7,726,288	3,998,206	4,474	66	150	72		4,186		4
286,047	165,428	1,993,589	6,602	10,900	271,077	1,722,892	129,218	5,885,896	4,033,786	3,981	255		5		3,721		5
14,278	10,588	167,573	6,592	25,204	2,477	280,470	1,755	680,681	398,456	31					31		6
129,180	42,339	898,863	475	19,708	59,535	1,016,069	36,780	2,776,615	1,723,766	2,077	890		40		1,147	62	7
76,077	27,207	583,347		10,768	28,862	661,205	21,731	1,761,485	1,078,549	1,070	540		40		490	62	8
53,103	15,042	315,516	475	8,940	30,673	354,894	15,049	1,015,130	645,217	1,007	350				657		9
36,943	27,926	3,649		644	63	2,515	411	14,989	12,063	8					8		10
49,046	197,016	838,340	2,762	124	291,828	174,922	3,068	393,360	215,370	83					83		11
15,326	4,449	41,790		4,817	408	80,485	1,147	186,126	104,494	2,969	1,455	630	286		598	349	12
	9,835	46,129		3,292	1,261	203,196	1,173	277,423	73,054	48					48		13
1,680	2,300	64,889		3,990	1,282	130,359	1,009	243,778	112,410	12					12		15
6,980	12,180	51,377	480	1,900	135	10,813	75	40,310	29,422	2					2		16
57,862	10,874	271,390	950	7,433	1,602	55,828	1,382	172,523	115,313	63					63		17
3,860	3,074	37,523	888	9,031	37,270	70,496	109,342	819,665	639,827	4,318	724		45		3,549	90	18
150,896	54,876	605,054	600	8,695	72,657	1,657,457	136,256	3,154,940	1,361,227	34					34		19
12,900	1,575	34,284	14,920	694	7,746	35,693	9,538	171,112	125,881	1,795	25	45			1,725		20
14,473	46,094	323,593	7,611	14,879	10,994	446,178	7,468	1,021,726	508,080	48					48		21
26,039	26,861	71,375	100	12,410	5,409	157,340	2,280	400,002	241,282	381					381		22
4,800		8,298		1,040	306	27,288	207	53,911	24,326	33					33		23
20,585	10,983	144,254		1,524	190	26,135	122	41,690	15,739	16					16		24
85,339	40,335	221,962		8,408	95,206	90,368	51,295	341,361	194,890	4					4		25
32,210	26,445	95,475		2,400	90,111	908,368	108,787	1,832,547	815,992	447	87		60		300		26
5,008,467	1,967,092	80,482,668	1,693,738	250,038	5,604,991	83,873,101	1,433,670	220,512,359	135,205,588	2,907	1,050	65			1,252	660	27
331,498	151,551	2,442,734	2,500	49,183	239,625	5,970,182	84,145	10,931,701	4,871,374	153					153		28
46,182	27,430	221,683	1,197	17,070	304,192	15,736	75,426	927,586	607,608	3					3		29
27,140	21,417	122,698	1,197	8,870	9,034	171,146	7,542	565,842	337,154	347					347		30
19,042	6,013	98,985		3,151	8,036	133,046	8,184	361,744	220,514	489	114		15	4	360		31
24,445	20,340	277,418	225	13,140	23,815	721,171	9,936	1,365,252	634,145	726					726		32
11,653	18,740	118,202		11,340	2,883	239,439	1,908	467,747	226,400	48	2				48		33
7,400	5,225	41,223		4,300	1,925	56,599	645	147,973	87,729	21					21		34
4,253	13,515	76,970		7,040	958	179,840	1,263	319,774	138,671	27	2				25		35
26,161	17,399	165,713	252	19,341	30,111	652,035	19,084	1,250,605	585,486	431	184		10	1	236		36
600		8,320		245	269	8,394	882	13,898	9,622	121	100		21				37
5,318	590	75,215		3,570	996	23,670	2,279	144,415	118,466	93					93		38
21,073	5,429	62,035		1,715	62	831	29	6,640	5,780	2					2		39
20,028	15,831	37,244	1,468	7,336	12,267	200,927	11,020	394,381	182,434	465	440		25		465		40
38,400	18,187	37,420		12,147	2,279	102,000	489	238,294	135,805	26					26		41
232,490	208,786	2,173,628		3,080	4,790	263,737	3,350	486,783	219,696	175					175		42
5,575	6,016	32,864		4,716	538,094	4,286,770	775,660	10,653,361	5,590,931	31,809	6,520	795		1,800	22,694	680	43
600		2,810		2,682	2,236	107,271	5,078	189,494	77,145	87	77				10		44
4,975	6,016	30,054		900	73	2,839	80	13,026	10,107								45
7,625	6,864	78,632		1,722	2,163	104,432	4,998	176,468	67,038	87	77				10		46
2,595	700	3,525		2,211	1,812	36,708	17,823	209,217	154,636	812	664	75	3		70		47
29,847	15,595	90,630	948	1,355	300	19,110	61	37,074	17,903	2					2		48
4,080	1,716	10,770		7,125	1,656	37,693	2,044	287,592	247,592	46					46		49
50,489	59,435	267,659		2,466	371	14,220	730	52,303	37,353	5					5		50
22,544	25,977	148,400		8,747	50,165	1,240,958	14,669	2,041,378	785,761	262	3		2		257		51
77,945	33,458	119,259		882	35,430	72,969	8,447	1,084,428	353,012	169					169		52
874	420	12,929		7,865	11,735	517,989	6,212	956,950	432,749	103	3		2		154		53
310,047	252,014	1,192,789	120,771	134,008	64,861	1,475,340	35,325	4,710,048	3,199,383	1,041					1,039		54
298,547	191,846	58,622	88,622	128,070	63,555	1,462,674	32,613	4,476,308	2,981,021	1,023					1,021		55
6,340	59,908	4,245	32,149	2,132	277	8,617	255	122,511	113,639	5					5		56
0,160	260	47,874		3,804	1,029	4,049	2,457	111,229	104,723	13					13		57
637,658	1,289,076	2,250,200	623,478	192,787	336,927	2,679,459	118,434	11,954,252	9,156,359	2,488			67	16	2,405		58
285,822	739,675	1,333,269	10,901	91,504	233,402	1,746,068	41,108	6,334,357	4,546,521	1,282					1,282		59
218,599	275,969	892,066	10,493	78,853	50,010	881,024	75,621	4,037,128	3,080,483	1,176			67	16	1,093		60
133,597	243,432	24,865	593,084	22,430	53,515	51,767	1,045	1,582,767	1,529,355	30					30		61
		5,593		2,020	547	300,218	795	323,639	22,626	34					34		62
63,020	31,970	97,668	364	20,700	15,078	480,881	5,065	921,074	455,728	83			2		81		63
	390	11,990		2,310	335	86,850	530	134,188	46,808	37					37		64
2,575	2,060	37,001		2,700	312	39,372	3,166	103,248	66,710	166			5		161		65

¹ Same number reported for one or more other months.

² Same number reported throughout the year.

³ None reported for one or more other months.

MANUFACTURES—WASHINGTON.

TABLE 31.—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, steel.....	9	30,896	.....	545	681	279	29,391	Ja	39,105	Fe	4,714	10,938	16,879	32	27	.....	Dollars.
2 Shipbuilding, wooden, including boat building.....	67	5,528	56	101	122	64	5,185	.....	.....	.....	.....	7,020	7,015	5	.....	.....	17,703,202
3 New vessels.....	37	5,094	35	74	112	58	4,815	Ja	8,992	De	1,300	6,677	6,670	5	.....	.....	16,538,035
4 Repair work only.....	15	122	6	18	8	5	275	Au	468	Fe	142	260	260	.....	.....	.....	807,074
5 All other.....	15	122	15	9	2	1	95	Ja	131	No	71	83	83	.....	.....	.....	308,153
6 Signs, electric and other.....	5	40	.....	.....	.....	.....	29	Se	34	Fe	24	31	30	1	.....	.....	20,989
7 Slaughtering and meat packing.....	29	1,489	17	47	132	71	1,222	De	1,371	Ap	1,102	1,355	1,244	111	.....	.....	12,759,109
8 Soap.....	5	19	3	2	3	1	10	De	18	Mh	6	19	15	4	.....	.....	99,590
9 Springs, steel, automobile.....	3	24	2	2	.....	1	19	Au	20	Ja	15	20	20	.....	.....	.....	53,548
10 Statuary and art goods.....	3	11	3	.....	.....	.....	8	No	11	Ja	4	11	11	.....	.....	.....	31,914
11 Steam packing.....	4	64	3	5	18	1	37	Je	47	Ja	14	41	41	.....	.....	.....	199,217
12 Stoves and hot-air furnaces.....	8	155	5	9	5	5	131	No	198	Fe	55	152	152	.....	.....	.....	275,417
13 Structural ironwork, not made in steel works or rolling mills.....	8	210	7	10	13	1	179	De	214	Mh	155	205	205	.....	.....	.....	709,989
14 Tinware, not elsewhere specified.....	6	693	1	20	36	26	610	Je	754	De	402	401	274	126	1	.....	5,053,302
15 Tobacco, cigars and cigarettes.....	56	209	58	4	3	.....	144	De	160	Mh	130	162	119	42	1	.....	197,237
16 Tools, not elsewhere specified.....	7	74	2	6	6	4	56	Je	71	Fe	25	78	76	2	.....	.....	206,721
17 Toys and games.....	6	38	7	3	1	1	26	No	56	Ja	9	59	27	32	.....	.....	54,901
18 Trunks and valises.....	13	108	15	6	10	4	73	No	82	Fe	67	83	63	17	3	.....	240,982
19 Vinegar and cider.....	19	140	15	18	6	3	98	.....	.....	.....	.....	104	102	2	.....	.....	1,939,161
20 Vinegar.....	4	16	4	3	1	1	8	Oc	19	Ja	5	14	14	.....	.....	.....	94,906
21 Cider.....	15	124	11	15	5	3	90	Oc	191	Fe	51	90	88	2	.....	.....	1,844,255
22 Window and door screens.....	4	26	5	3	.....	1	17	Je	24	Ja	10	12	12	.....	.....	.....	38,220
23 Window shades and fixtures.....	3	12	3	.....	1	.....	8	Au	9	Ja	7	9	6	3	.....	.....	46,239
24 Wooden goods, not elsewhere specified.....	8	301	4	11	4	2	280	Ja	332	Je	57	313	280	24	.....	.....	1,092,860
25 All other industries *.....	146	5,232	59	326	370	210	4,267	.....	.....	.....	.....	.....	.....	.....	.....	.....	49,282,912

*All other industries embrace— Aeroplanes, seaplanes, and airships, and parts.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Automobiles.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Babbitt and white metal.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bags, other than paper, not including bags made in textile mills.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baking powders and yeast.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baskets, and rattan and willow ware.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blacking, stains, and dressings.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bluing.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boot and shoe findings.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boxes, cigar.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brushes.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carriage and wagon materials.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carrages and sleds, children's.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars, steam-railroad, not including operations of railroad companies.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charcoal, not including production in lumber and wood distillation industries.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
China decorating, decalcomania work.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coke, not including gas-house coke.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperage, hogsheads and barrels.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cordage and twine.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cordials and flavoring sirups.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cork, cutting.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corsets.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dairymen's and poultrymen's supplies.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dental goods.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emery and other abrasive wheels.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engraving and diesinking.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Explosives.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feathers and plumes.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ferroalloys.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fertilizers.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fireworks.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flags and banners.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flavoring extracts.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fuel, briquetted.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Furnishing goods, men's.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Galvanizing.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glass, other than fish.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gold and silver, reducing and refining, not from the ore.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grease and tallow, not including lubricating greases.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hardware.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hats and caps, other than felt, straw, and wool.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hats, fur-felt.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hats, wool-felt.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
House-furnishing goods, comforts and quilts.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iron and steel, blast furnaces.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

1 SEATTLE—All industries.....	1,229	47,074	894	1,858	2,362	1,117	40,843	Ja	49,001	Fe	15,704	32,507	28,930	3,514	43	20	.....	157,915,135
2 Artificial stone products.....	5	24	2	4	.....	.....	18	Se	26	Ja	6	21	21	.....	.....	.....	.....	115,525
3 Automobile bodies and parts.....	21	204	21	13	4	7	159	Je	174	Fe	144	148	144	4	.....	.....	.....	272,000
4 Automobile repairing.....	85	551	83	54	18	27	309	Jy	400	Fe	327	388	381	7	.....	.....	.....	648,920
5 Awnings, tents, and sails.....	7	98	4	7	5	5	75	Au	86	Fe	73	74	51	23	.....	.....	.....	393,439
6 Bookbinding and blank-book making.....	10	36	10	1	.....	.....	27	Ap	28	Se	13	29	17	11	1	.....	.....	101,124
7 Boxes, paper and other, not elsewhere specified.....	7	216	2	17	3	3	191											

MANUFACTURES—WASHINGTON.

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.				
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	Rent. ²		

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
2,803,430	1,547,386	48,728,066	223,520	462,869	7,634,062	62,417,092	931,068	140,980,461	77,631,401	36,692	2,215				34,477		1	
756,246	301,520	7,325,227	1,479,638	69,835	345,579	10,558,057	139,100	25,539,326	14,842,169	14,004	1,634				12,239		2	
646,730	266,101	6,782,883	1,478,200	53,696	323,820	10,157,584	123,606	24,198,393	13,917,203	13,027	1,184				11,787		3	
45,728	21,028	408,438		5,083	18,935	249,071	13,003	902,654	640,490	686	400				229		4	
63,788	14,400	133,906	1,438	11,056	3,118	151,492	2,401	438,279	284,476	291	50				18		5	
	1,040	51,811	24	4,786	415	28,492	358	112,454	83,604	2					2		6	
195,436	229,888	1,525,762	2,397	7,306	113,354	28,972,511	151,941	34,388,554	5,204,132	3,821	813				2,901		7	
3,680	4,132	12,047		360	818	46,215	1,894	98,247	50,138	125	100				62		8	
7,800	1,300	24,669		2,140	1,674	31,384	2,737	95,565	61,441	10					62		9	
		11,134		322	386	6,022	383	26,078	19,668	35					10		10	
20,200	17,634	92,555		5,552	18,821	154,934	1,504	504,455	347,997	35				2	33		11	
36,315	10,028	188,052	1,200	3,770	4,380	164,713	0,007	529,759	359,039	176					176		12	
48,532	18,720	252,555		3,502	18,463	436,530	12,161	880,811	432,120	390					390		13	
76,485	83,778	644,471		4,203	161,574	5,467,337	34,868	6,684,165	1,181,960	850					850		14	
8,618	14,000	155,038	20	9,021	54,475	180,972	1,775	539,688	359,941	4					4		15	
17,621	15,769	85,748		5,166	1,739	54,646	2,940	216,804	159,212	111					105		16	
3,600	1,440	22,241		1,963	412	28,379	1,349	71,773	42,045	62					62		17	
11,303	21,298	85,712		11,850	1,623	170,080	772	367,163	196,311	23					23		18	
37,280	17,467	135,270	1,336	4,074	56,116	401,759	23,633	902,492	477,100	1,147	210				924		19	
8,400	3,725	11,322		364	1,371	33,924	760	78,638	43,954	60	15				45		20	
28,880	13,742	123,948	1,336	3,710	54,745	367,835	22,873	823,854	433,146	1,087	195				879		21	
6,820	897	16,299		770	272	23,810	756	56,053	31,487	42					42		22	
	240	13,369		1,826	115	88,651	78	109,770	21,041	4					4		23	
44,241	8,977	381,557	300	120	51,403	288,929	1,569	943,537	653,639	1,381	1,126	200			55		24	
1,286,935	941,289	6,123,024	11,036	108,548	963,824	50,374,345	2,071,464	66,797,442	14,351,633	42,970	7,134	250	118	795	34,673	647	25	

Iron and steel, steel works and rolling mills..... 3	Mirrors, framed and unframed, not elsewhere specified..... 4	Rubber tires, tubes, and rubber goods, not elsewhere specified..... 4	Stereotyping and electrotyping..... 1
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills..... 1	Motorcycles, bicycles, and parts..... 1	Screws, machine..... 4	Stoves, gas and oil..... 1
Iron and steel, wrought pipe..... 1	Mucilage, paste, and other adhesives, not elsewhere specified..... 2	Shirts..... 3	Sugar, beet..... 1
Ivory, shell, and bone work, not including combs and hairpins..... 2	Musical instruments, piano materials..... 1	Show cases..... 1	Surgical appliances..... 1
Lapidary work..... 1	Nets and seines..... 1	Smelting and refining, copper..... 1	Typewriter supplies, ribbon..... 1
Lead, bar, pipe, and sheet..... 1	Oil, linseed..... 1	Smelting, lead..... 1	Upholstering materials, excelsior..... 1
Leather, tanned, curried, and finished..... 2	Plumbers' supplies, not elsewhere specified..... 1	Sporting and athletic goods..... 2	Wall plaster and composition flooring..... 2
Liquors, vinous..... 1	Printing and publishing, music..... 2	Stamped ware, not elsewhere specified..... 1	Wirework, including wire rope and cable, not elsewhere specified..... 3
Lubricating greases..... 1	Pumps, not including power pumps..... 2	Stationery goods, not elsewhere specified..... 1	Wood preserving..... 3
Machine tools..... 1	Pumps, steam..... 1	Steam fittings and steam and hot-water heating apparatus..... 1	Wood, turned and carved..... 3
Matches..... 1	Refrigerators..... 1	Stencils and brands..... 1	Wool pulling..... 1
			Woolen goods..... 3

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

7,581,242	5,080,157	63,394,584	3,015,328	1,197,859	10,724,763	146,649,664	3,000,711	274,431,239	124,780,864	90,073	15,138	3,875	420	300	70,340	3,190	1	
5,800		24,977		1,620	873	45,615	578	96,567	50,374	36					36		2	
73,642	7,837	240,646	501,739	18,373	7,898	236,451	7,984	642,721	398,286	170					170		3	
92,807	45,896	548,870	26,318	76,437	10,610	632,874	14,098	1,687,366	1,040,394	364					364		4	
26,650	11,178	123,290	1,614	12,483	30,652	570,906	787	842,308	270,615	44					44		5	
1,300		31,266	1,400	4,035	1,443	22,656	867	97,228	73,705	15					15		6	
57,393	7,363	148,714		11,892	5,184	202,619	2,855	541,730	336,256	106					106		7	
27,263	7,706	197,737		6,900	8,328	456,794	4,500	761,392	300,098	915	465				450		8	
79,674	10,613	247,577	20,608	9,827	8,039	817,587	16,603	1,380,955	546,785	245					245		9	
151,157	166,311	1,024,067	11,957	116,435	84,205	4,179,988	96,293	6,817,522	2,541,301	690					690		10	
21,201	5,919	219,743		6,000	8,506	34,463	51,830	422,566	336,273	900	350				550	50	11	
56,865	39,870	108,010		12,128	22,296	2,053,970	12,957	2,386,018	319,091	342					342		12	
10,170	7,191	62,931	300	5,677	6,619	562,195	14,038	704,677	128,444	84					84		13	
		13,182		750	206	5,775	708	24,970	18,487	28	10				18		14	
		0,665		1,752	203	8,820	1,182	23,511	13,509	22					22		15	
11,675	5,045	546,275				289,908	18,000	873,253	565,345	960					960		16	
42,687	17,899	394,657				235,254	42,153	742,297	484,890	376					376		17	
36,506	67,301	254,942		11,882	100,140	367,960	2,464	1,381,596	1,011,172	82					82		18	
32,095	15,401	185,892	6,088	14,121	11,243	459,280	1,540	836,707	375,887	52					52		19	
10,983	7,394	90,731	5,588	6,646	5,536	222,254	502	381,308	158,552	9					9		20	
21,712	8,007	95,161	500	7,475	1,547	287,026	1,038	455,399	217,355	43					43		21	
84,615	202,780	172,783	300,294	28,691	19,216	2,410,339	9,187	3,297,246	877,720	242					242		22	
203,802	316,788	730,843	15,743	63,195	141,778	2,737,928	37,231	2,737,928	2,482,345	564					564		23	
159,152	302,658	618,150	15,743	58,405	136,026	2,210,099	26,923	4,301,444	2,065,422	332					332		24	
48,650	14,130	112,693		4,790	5,752	527,829	11,308	955,060	416,923	232					232		25	
86,065	28,657	357,477	200	22,954	20,898	648,594	4,464	1,382,980	739,922	174					174		26	
1,200		16,166		1,920	272	12,932	800	37,500	23,558	28					28		27	
70,534	39,083	184,934		8,068	26,650	618,346	5,189	1,024,794	401,259	613					613		28	

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

TABLE 31.—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.

SEATTLE—Continued.														Dollars.		
1	Engines, steam, gas, and water	8	471	3	39	23	8	398	Jy	571	Fe	30	455	455	44	2,164,930
2	Flour-mill and gristmill products	11	790	2	43	135	51	559	No	624	Je	525	576	532	10,390,517	
3	Food preparations, not elsewhere specified	17	97	11	9	12	5	60					65	37	27	344,971
4	Macaroni, vermicelli, and noodles	6	33	3	3	2	1	24	Jy ^a	25	Ja ^a	23	24	18	6	158,806
5	All other	11	64	8	6	10	4	36	Je	44	De	26	41	19	21	186,665
6	Foundry and machine-shop products	93	2,777	55	174	172	51	2,325					2,457	2,452	5	10,105,220
7	Boiler shops	7	520	5	22	28	6	459	Ja	663	Fe	32	508	507	1	1,953,574
8	Foundries	14	409	11	34	12	5	347	Ja	449	Fe	52	391	390	1	642,605
9	Machine shops	66	1,152	37	97	79	27	912	Ja	1,101	Fe	546	939	938	1	4,689,060
10	Machine shop and foundry combined	6	696	2	21	53	13	607	Ja	730	Fe	281	610	617	2	2,819,981
11	Fur goods	13	104	13	4	4	6	77	Oc	88	Mh	67	81	31	50	150,976
12	Furniture	27	270	22	21	11	2	214					253	247	4	554,046
13	Wood, other than rattan and willow	15	133	15	12	7		99	Au ^a	124	Ja ^a	67	120	114	4	347,045
14	All other	12	137	7	9	4	2	115	De	130	Fe	97	133	133		206,997
15	Glass, cutting, staining, and ornamenting	6	44	3	7	3	2	29	De	35	Ja ^a	23	37	35	2	67,721
16	Gloves and mittens, leather	4	33	4	1	1		27	No ^a	32	Ja	23	32	19	13	66,591
17	Ice, manufactured	6	85		10	2	2	71	Jy	89	Ap	58	79	79		549,882
18	Iron and steel forgings, not made in steel works or rolling mills	8	355	2	24	18	6	305	Ja	487	Fe	97	263	263		1,436,857
19	Iron and steel, welding	6	24	8	4	2	1	9	(*)	9	(*)	9	9	9		47,906
20	Jewelry	11	250	10	7	10	20	203	Je	240	Fe	146	199	142	57	308,125
21	Knit goods	5	58	2	8	6	3	67	De	115	Ap	33	115	20	95	174,533
22	Lamps	3	7	2			1	4	De	8	Ja ^a	2	9	7	2	19,333
23	Leather goods, not elsewhere specified	3	11	3	2			6	De ^a	7	Ja ^a	4	7	1	6	23,400
24	Lumber and timber products	28	2,375	6	77	51	23	2,218	Se	2,569	Fe	1,577	2,399	2,394	5	8,004,853
25	Lumber, planing-mill products, not including planing mills connected with sawmills	21	353	11	25	26	10	281	Oc	336	Fe	223	301	298	3	1,200,402
26	Marble and stone work, monuments and tombstones	5	40	4	2	2	2	30	Se	35	Ap	23	32	32		60,632
27	Mattresses and spring beds, not elsewhere specified	5	129	2	7	9	3	108	No	132	Mh	93	130	105	25	432,664
28	Mineral and carbonated waters	10	45	13	1	2	2	30	Jy ^a	30	Ja ^a	23	28	28		154,236
29	Models and patterns, not including paper patterns	7	39	11	2	2		24	Au	32	Fe	10	26	26		53,005
30	Optical goods	7	57	3	4	6	0	35	De	38	Fe	29	38	36	2	77,639
31	Patent medicines and compounds	6	11	4	2	1	1	4	Se ^a	5	No ^a	3	4	4		17,878
32	Perfumery and cosmetics	5	8	2	2	1		3	Jy ^a	4	Ja ^a	2	5	2	3	9,594
33	Pickles, preserves, and sauces	8	121	4	11	15	6	85	Au ^a	110	Fe	56	90	38	52	626,160
34	Printing and publishing, book and job	110	768	97	77	79	36	479					545	409	120	1,474,217
35	Book publishing and printing	101	695	92	72	36	36	459	De	549	Se	295	523	388	119	1,326,028
36	Lithotype work and typesetting	4	47	2	3	4	2									53,135
37	Printing and publishing, newspapers and periodicals	5	26	3	2	1		20	Ja ^a	22	Se	13	21	20	1	95,054
38	Printing and publishing, newspapers and periodicals	67	1,103	44	75	351	150	483					522	498	18	3,341,298
39	Printing, publishing, and job printing	8	859	3	31	298	105	422	De	474	Fe	355	456	443	12	3,018,969
40	Printing, publishing, and job printing	14	116	14	14	20	10	58	Mh ^a	61	Se	54	63	54	5	136,756
41	Publishing without printing	45	128	27	30	33	35	3	(*)	3	(*)	3	3	1	1	185,553
42	Rice, cleaning and polishing	5	6	1				5	(*)	5	(*)	5	5	5		23,456
43	Shipbuilding, wooden, including boat building	28	2,553	14	45	38	26	2,430					2,795	2,795		8,050,934
44	New vessels	11	2,333	5	29	32	21	2,246	Ja	3,511	De	814	2,693	2,603		7,504,988
45	Repair work only	8	112	4	7	4	4	93	Ap ^a	109	Jy	70	113	113		270,128
46	Small boats and masts, spars, oars, and rigging	9	108	5	9	2	1	91	Ja	120	No	71	79	79		255,818
47	Slaughtering and meat packing	4	612	2	21	53	33	503	Ja	601	Jy	466	545	505	40	6,995,433
48	Tobacco, cigars	8	72	7	2	2		61	De	75	Mh	50	74	52	21	50,313
49	Toys and games	3	32	5	3			23	No ^a	53	Ja ^a	8	54	24	30	40,911
50	Trunks and valises	10	103	13	6	10	4	70	No	80	Fe ^a	63	80	60	17	234,869
51	Window shades and fixtures	3	12	3				8	Au ^a	9	Ja ^a	7	9	6	3	46,239
52	All other industries*	221	27,140	130	773	892	424	24,921					14,696	13,705	980	84,844,926

* All other industries embrace—	Cars, steam-railroad, not including operations of railroad companies	1	Feathers and plumes	1	Hardware, builders' and vehicle hardware	2
Aeroplanes, seaplanes, and airships, and parts	Chemicals	6	Fireworks	1	Hats and caps, other than felt, straw, and wool	2
Artificial limbs	China decorating, dealomania work	2	Flags and banners	1	Hats, fur-felt	1
Automobiles	Cleaning preparations	2	Flavoring extracts	3	Hats, wool-felt	1
Babbit and white metal	Collins, burial cases, and undertakers' goods	2	Furnishing goods, men's	2	House-furnishing goods, comforts and quilts	1
Bags, other than paper, not including bags made in textile mills	Cooperage, hogsheads and barrels	1	Furs, dressed	1	Instruments, professional and scientific	3
Baskets, and rattan and willow ware	Cordage and twine	1	Galvanizing	1	Iron and steel, steel works and rolling mills	2
Belting, leather	Cordials and flavoring sirups	1	Gas and electric fixtures	3	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	1
Blacking, stains, and dressings	Cork, cutting	1	Gas, illuminating and heating	1	Iron and steel, wrought pipe	1
Bluing	Cosets	1	Gloves and mittens, cloth, not including gloves made in textile mills	1	Ivory, shell, and bone work, not including combs and hairpins	2
Boot and shoe findings	Dental goods	1	Glue, other than fish	1	Lapidary work	1
Boots and shoes	Druggists' preparations	2	Gold and silver, reducing and refining, not from the ore	1		
Brooms, from broom corn	Engraving, steel and copper plate, including plate printing	4	Grease and tallow, not including lubricating greases	1		
Brushes	Fancy articles, not elsewhere specified	2	Hair work	1		
Buttons			Hand stamps	4		
Canning and preserving, fruits						

* Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
^a Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

MANUFACTURES—WASHINGTON.

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.				
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				Electric horse-power generated in establishments reporting.
									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.

139,952	42,826	586,318	5,000	6,638	36,953	734,801	24,175	1,824,664	1,065,688	1,301					1,301		1
152,299	273,612	709,685		2,293	262,808	25,824,389	82,902	3,221,599	3,221,599	4,926					4,926		2
22,375	20,292	55,521		8,748	3,471	466,975	8,794	755,555	270,786	214					214		3
7,800	3,360	26,025		2,610	2,241	148,363	4,441	219,998	65,594	131					131		4
14,575	25,932	29,496		6,138	1,230	318,012	4,353	535,557	213,192	83					83		5
963,314	352,553	3,883,453	9,834	125,481	273,068	5,409,757	239,491	14,153,684	8,513,496	9,283	150	115	300	8,718	60	6	6
307,536	74,465	780,210		36,700	30,138	876,345	47,565	3,359,957	2,436,047	3,054			105	300	2,649	60	7
122,157	29,073	558,550		308	9,326	20,289	467,739	45,822	1,476,987	542					542		8
422,166	176,113	1,511,539	3,995	70,063	105,862	3,048,125	66,771	6,223,191	3,108,265	3,677	150	10			3,517		9
111,455	102,902	1,033,154	5,621	0,392	116,770	1,008,548	79,273	3,093,549	2,005,728	2,010					2,010		10
9,350	10,588	98,769	3,670	15,214	1,228	154,362	656	372,294	217,276	15					15		11
53,032	16,421	297,740	475	11,650	10,285	360,057	11,442	976,880	596,851	593	150				443	50	12
30,029	9,475	136,141		4,359	17,021	237,905	7,311	523,480	278,174	347	150				197	50	13
23,003	6,946	161,599	475	7,300	2,264	131,652	4,131	453,400	318,207	246					246		14
15,326	4,449	41,790		4,817	408	80,485	1,147	189,126	104,494	48					48		15
1,680	500	38,296		3,660	318	64,321	517	130,859	66,021	7					7		16
20,182	4,825	98,680		1,725	16,600	12,744	47,039	252,748	192,635	1,617					1,617		17
136,123	52,438	538,769	600	8,515	70,418	1,562,083	125,101	2,934,249	1,247,055	1,572	10	20			1,542		18
12,900	1,575	17,981	14,309	4,346	495	21,230	6,822	108,146	80,094	24					24		19
14,473	45,276	307,253	5,111	13,225	10,869	436,582	6,960	972,783	529,241	370					370		20
20,567	15,436	54,529	100	12,110	3,142	134,284	1,730	298,853	160,539	15					15		21
	936	8,208		1,040	308	27,288	297	53,011	29,326	16					16		22
4,800		5,454		1,526	190	26,135	122	41,906	15,739	4					4		23
383,552	135,815	3,595,755	56,997	24,204	325,369	6,653,601	48,213	12,737,497	6,035,083	15,167	8,494	3,300			3,373	1,692	24
63,006	43,726	465,731		17,116	76,491	1,103,310	17,627	2,093,733	962,796	1,547	537				1,010	350	25
2,700	5,226	43,186		5,807	1,321	25,470	1,731	155,948	128,747	123					123		26
14,600	16,420	138,028		3,090	24,324	367,498	4,367	794,401	422,536	230					230		27
3,600	3,656	45,215		6,677	5,213	170,516	3,376	344,130	167,247	49	10				39		28
3,778	590	57,228		3,387	430	18,231	1,585	106,800	87,044	64					64		29
17,814	13,420	27,237	1,468	10,725	1,556	74,793	539	186,175	110,843	18					18		30
1,476	2,387	3,588		1,520	63	14,729	228	28,254	13,297	2					2		31
2,595	700	2,947		780	346	10,653	10	24,081	13,418	2					2		32
26,341	42,243	87,441		4,775	30,979	733,330	6,837	1,114,643	371,476	127					127		33
203,247	140,185	602,107	87,087	77,302	25,582	763,338	15,865	2,552,383	1,773,180	554					554		34
195,047	87,465	622,368	73,023	73,250	24,848	754,190	14,795	2,393,892	1,624,907	543					543		35
3,040	52,460	14,064	1,648	192	6,826	26	77,995	71,143	4	4					4		36
5,160	260	39,739		2,394	542	2,322	1,044	80,496	77,130	7					7		37
285,403	670,066	1,006,853	235,119	91,533	223,091	1,391,414	29,579	5,616,748	4,225,755	966					966		38
182,190	544,025	929,798	8,459	75,495	220,542	1,312,206	27,585	4,728,251	3,388,460	901					901		39
20,963	26,992	75,195	11,338	5,329	658	66,120	1,094	305,427	237,813	65					65		40
82,250	90,049	1,860	215,322	10,709	1,891	13,038		613,070	599,982								41
	5,593	2,020		2,020		300,218	795	323,639	22,626	34					34		42
267,898	125,642	2,985,463	1,475,818	50,403	150,189	4,157,003	54,323	11,093,450	6,882,121	5,997	470		25		5,502		43
191,405	102,970	2,687,617	1,474,380	35,881	152,087	3,889,921	49,766	10,325,590	6,385,993	5,533	429				5,113		44
12,705	8,272	167,880		3,886	4,093	121,812	2,486	349,326	224,998	210					185		45
63,788	14,400	129,996	1,438	10,636	3,096	145,240	2,071	418,534	271,223	254	50				204		46
98,088	82,824	675,750		2,288	42,906	15,478,008	51,399	18,031,098	2,501,691	1,438	400				1,038		47
5,618	12,000	72,788	20	3,160	22,627	71,270	272	258,044	186,602	1					1		48
3,600	1,040	20,320		1,873	241	25,678	1,139	64,007	37,190	42					42		49
11,393	21,298	81,572		10,950	1,491	165,170	760	349,724	183,794	22					22		50
	240	13,369		1,826	115	88,651	78	109,770	21,041	4					4		51
3,446,460	1,888,365	40,820,224	233,468	222,376	8,556,257	62,110,056	1,858,695	134,969,829	71,001,168	36,631	4,242	405	280		31,704	988	52

Lead, bar, pipe, and sheet.....	1	Paints.....	4	Shirts.....	2	Surgical appliances.....	3
Leather, tanned, curried, and finished.....	1	Photo-engraving.....	4	Show cases.....	1	Tinware, not elsewhere specified.....	5
Liquors, malt.....	2	Photographic materials.....	2	Signs.....	4	Tools, not elsewhere specified.....	1
Lithographing.....	2	Plumbers' supplies, not elsewhere specified.....	1	Soap.....	3	Typewriter supplies, ribbon.....	1
Looking-glass and picture frames.....	6	Pottery, earthen and stone ware.....	1	Springs, steel, automobile.....	2	Upholstering materials, excelsior.....	2
Lubricating greases.....	1	Printing and publishing, music.....	2	Stationary goods, not elsewhere specified.....	1	Vinegar and cider.....	1
Machine tools.....	1	Pumps, not including power pumps.....	1	Statuary and art goods.....	2	Wall plaster and composition flooring.....	3
Millinery and lace goods, not elsewhere specified.....	10	Pumps, steam.....	1	Steam fittings and steam and hot-water heating apparatus.....	1	Window and door screens.....	1
Mirrors, framed and unframed, not elsewhere specified.....	2	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Steam packing.....	3	Wirework, including wire rope and cable, not elsewhere specified.....	3
Motorcycles, bicycles, and parts.....	2	Saddlery and harness.....	4	Stereotyping and electrotyping.....	1	Wood preserving.....	1
Mucilage, paste, and other adhesives, not elsewhere specified.....	2	Sausage, not made in slaughtering and meat-packing establishments.....	4	Stoves and hot-air furnaces.....	3	Wood, turned and carved.....	1
Musical instruments and materials, not elsewhere specified.....	3	Saws.....	3	Stoves, gas and oil.....	1	Wooden goods, not elsewhere specified.....	4
Nets and seines.....	1	Serows, machine.....	1	Structural ironwork, not made in steel works or rolling mills.....	5	Wool pulling.....	1
		Shipbuilding, steel.....	6	Oil, linseed.....	1		

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

MANUFACTURES—WASHINGTON.

TABLE 31.—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.

SPOKANE—All industries.....														Dollars.		
														27,040,500		
1	SPOKANE—All industries.....	364	6,145	277	281	550	276	4,752	Oct 5,302	Nov 4,268	5,289	4,217	1,055	12	5	
2	Artificial stone products.....	3	10	4	1			5	Je ^a 9	Ja ^a 1	7	7				17,853
3	Automobile bodies and parts.....	8	52	6	3	1	1	41	My ^a 48	Fe 33	42	42				147,268
4	Automobile repairing.....	46	306	45	6	5	4	246	Se 297	Ja 189	250	278	1	1		150,403
5	Boxes, wooden packing, except cigar boxes.....	4	221		10	3	5	203	Se 255	Mh 170	204	185	10			854,593
6	Bread and other bakery products.....	26	419	22	13	37	16	331	De 389	Ja 276	393	249	144			806,085
7	Butter.....	5	159		6	23	16	114	Jy 126	Ja 103	135	113	22			598,529
8	Confectionery and ice cream.....	14	589	8	16	41	27	497	Oct 612	Ja 404	562	188	374			1,222,930
9	Copper, tin, and sheet-iron work.....	15	106	18	7	6	2	73	No 92	Fe 50	72	72				282,112
10	Flour-mill and gristmill products.....	46	100	2	11	29	8	110	De 146	Jy 78	146	143	3			3,998,476
11	Food preparations, not elsewhere specified.....	9	22	4	8		1	9	Je ^a 11	Fe ^a 7	13	7	6			66,513
12	Foundry and machine-shop products.....	22	183	14	14	2	6	147			162	162				340,202
13	Foundries.....	4	27	6	1			20	Ap ^a 24	No 15	28	28				15,911
14	Machine shops.....	18	156	8	13	2	6	127	Je 160	Ja 103	134	134				333,381
15	Fur goods.....	5	37	5	3			29	Oct ^a 41	Ap ^a 19	40	13	27			94,699
16	Furniture.....	13	55	12	4	1		38	My 44	Ja ^a 33	38	38				65,602
17	Hand stamps.....	3	10	4	1			6	(*) 3	(*) 6	6	5		1		9,765
18	Iron and steel, welding.....	4	8	5				3	(*) 3	(*) 3	3	3				5,853
19	Lumber, planing-mill products, not including planing mills connected with sawmills.....	10	373	4	12	14	3	340	Oct 420	Ap 282	378	358	20			1,036,769
20	Marble and stone work, monuments and tombstones.....	4	22	1	5	3		13	Oct 18	Ja 5	14	14				43,009
21	Mattresses and spring beds, not elsewhere specified.....	3	21		2	1		18	No ^a 22	Ja 13	20	18	2			59,635
22	Mineral and carbonated waters.....	6	30	7	3	3	1	16	Jy 25	Ja ^a 10	14	14				55,106
23	Pickles and sauces.....	3	18	2	2	1		13	Aug 62	Ja ^a 4	21	10	4	3	4	55,164
24	Printing and publishing, book and job.....	39	273	38	12	41	12	170	De 201	Fe 155	193	147	45	1		743,484
25	Printing and publishing, newspapers and periodicals.....	11	486	8	29	159	107	183	De 208	Mh 158	212	198	14			2,168,818
26	Saddlery and harness.....	4	13	6	1			6	No ^a 8	Ja 4	8	8				25,914
27	Tobacco, cigars.....	10	42	10	2	1		29	So ^a 31	Ja ^a 28	31	21	10			37,229
28	Vinegar and cider.....	5	47	2	8	4	1	32	No 42	Ja 22	34	34				798,270
29	All other industries*.....	86	2,483	50	106	181	66	2,080			2,261	1,890	364	6	1	13,347,120

* All other industries embrace—

Agricultural implements.....	2																
Artificial limbs.....	1																
Awnings, tents, and sails.....	1																
Belting, leather.....	1																
Bookbinding and blank-book making.....	2																
Boxes, paper and other, cartons.....	1																
Brick, building.....	1																
Brooms, from broom corn.....	2																
Brushes.....	1																
Buttons.....	1																
Canning and preserving, dried fruits.....	1																
Carpets, rag.....	2																
Cars and general shop construction and repairs by electric-railroad companies.....	2																
Cars and general shop construction and repairs by steam-railroad companies.....	2																
Cleansing preparations.....	1																
Clothing, men's.....	4																
Clothing, women's.....	1																
Coffee, roasting and grinding.....	2																
Coffins, burial cases, and undertakers' goods.....	2																
Cooperage, hogsheds and barrels.....	1																
Druggists' preparations.....	1																
Electrical machinery, apparatus, and supplies.....	1																
Engines, steam, gas, and water.....	1																
Engraving, steel and copper plate, including plate printing.....	1																
Fancy articles, not elsewhere specified.....	3																
Gas and electric fixtures.....	3																
Gas, illuminating and heating.....	1																
Hair work.....	2																
Ice, manufactured.....	2																
Jewelry.....	1																
Liquors, malt.....	1																

TACOMA—All industries.....														Dollars.		
														68,097,799		
1	TACOMA—All industries.....	348	12,355	276	505	570	290	10,714	Mh 11,388	Fe 9,015	13,053	12,145	889	15	4	
2	Artificial stone products.....	6	14	4				10	Oct ^a 13	Ja 4	12	12				239,800
3	Automobile bodies and parts.....	9	72	8	5	4	3	52	Ap 56	Ja 46	52	52				183,912
4	Automobile repairing.....	33	209	40	9	3	7	150	Se 164	Dec 141	146	146				308,066
5	Bread and other bakery products.....	29	344	30	12	30	16	256	De 278	Jy 242	278	146	121	9	2	672,596
6	Coffee, roasting and grinding.....	4	30		4	5	3	18	(*) 18	(*) 18	18	12	6			192,284
7	Confectionery and ice cream.....	14	280	9	21	27	15	217			248	83	165			580,749
8	Confectionery.....	9	233	6	14	21	10	182	No 219	Aug 160	214	51	163			423,230
9	Ice cream.....	5	56	3	7	6	5	35	Jy 49	Fe ^a 28	34	32	2			157,429
10	Copper, tin, and sheet-iron work.....	15	98	14	9	3	5	67	Oct 83	Fe 39	73	73				406,839
11	Flour-mill and gristmill products.....	8	462		30	51	22	359	No 468	Mh 292	438	433	5			7,159,667
12	Food preparations, not elsewhere specified.....	8	80	2	13	15	9	41			44	22	22			418,093
13	Breadstuffs, macaroni, vermicelli, and noodles.....	3	15		4		1	10	Oct ^a 12	Ja ^a 9	13	7	6			145,340
14	All other.....	5	65	2	9	8	3	31	Se 35	Ja 27	31	15	16			272,753
15	Foundry and machine-shop products.....	19	438	10	33	20	11	358			365	365				2,522,895
16	Machine shops.....	11	47	8	8		2	29	Aug 40	Fe 7	30	30				171,362
17	All other.....	8	391	2	25	26	9	329	Aug 428	Fe 198	335	335				2,351,443
18	Furniture.....	9	536	5	19	9	8	495	No 566	Fe 363	522	385	137			1,390,467
19	Ice, manufactured.....	3	36	2	2	2	2	28	Aug 35	De 20	26	26				129,323
20	Lumber and timber products.....	16	2,860	4	55	51	18	2,732	Oct 3,264	Fe 2,126	2,954	2,936	18			7,544,969
21	Lumber, planing-mill products, not including planing mills connected with sawmills.....	16	943	15	41	22	16	840	De 1,116	Fe 554	1,105	1,056	49			2,457,317

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—WASHINGTON.

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.				
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.			Rented. ²	Electric horsepower generated in establishments reporting.
								Steam engines (not turbines).	Steam turbines.		Internal-combustion engines.	Water-power. ¹		

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	13,246	2,892	80	150	10,124	142	1
807,543	953,548	5,419,042	453,707	249,500	762,763	25,022,400	629,087	40,149,381	14,497,804								
1,575	.....	5,700	.....	582	15	9,473	638	26,291	16,180	53	.....	.....	.....	53	.....	2
5,680	2,756	51,681	.....	2,370	2,309	49,808	2,900	143,520	90,812	127	.....	.....	.....	127	.....	3
16,184	9,602	304,450	.....	39,009	2,324	237,093	14,717	701,140	539,330	261	.....	.....	.....	261	.....	4
34,226	10,400	216,828	.....	4,365	11,136	477,187	17,409	1,176,514	681,918	986	550	.....	.....	406	.....	5
49,838	94,079	350,848	.....	27,675	95,604	1,470,023	37,936	2,542,900	1,034,941	304	45	.....	.....	259	44	6
19,777	35,041	93,434	.....	4,245	13,885	1,577,393	22,580	2,164,335	564,412	511	135	.....	.....	376	.....	7
47,528	124,181	273,719	.....	11,540	63,458	1,533,617	34,458	2,760,691	1,192,616	371	.....	.....	.....	371	.....	8
15,319	13,113	114,745	.....	260	6,366	190,591	2,383	456,202	263,228	58	.....	.....	.....	58	.....	9
42,536	52,716	163,542	.....	14,310	57,505	6,449,320	45,869	6,906,188	470,999	1,046	.....	.....	150	1,496	.....	10
10,360	685	8,327	.....	4,051	605	176,219	3,938	237,241	57,084	65	.....	.....	.....	65	.....	11
32,776	9,260	206,950	.....	7,025	4,814	246,834	15,964	625,118	362,320	224	.....	.....	.....	224	.....	12
2,400	.....	31,343	.....	1,740	193	44,007	5,907	105,750	55,842	43	.....	.....	.....	43	.....	13
30,376	9,269	175,607	.....	5,285	4,621	202,827	10,057	519,362	306,478	181	.....	.....	.....	181	.....	14
4,928	.....	45,932	.....	2,270	7,110	61,699	734	186,465	124,062	13	.....	.....	.....	13	.....	15
12,600	600	40,848	.....	4,784	973	66,677	3,076	187,666	97,853	113	.....	.....	.....	113	.....	16
.....	.....	4,976	.....	950	77	7,588	409	24,833	16,917	7	.....	.....	.....	7	.....	17
.....	.....	2,976	.....	1,110	61	5,210	1,041	20,794	14,543	12	.....	.....	.....	12	.....	18
40,725	23,701	345,247	.....	1,778	35,076	1,129,800	21,172	1,700,145	549,173	1,198	230	.....	.....	968	8	19
7,600	2,875	16,941	.....	540	5,640	51,597	2,706	121,271	66,968	76	.....	.....	.....	76	.....	20
3,094	847	15,997	.....	1,600	1,404	51,700	1,522	84,756	31,534	46	.....	.....	.....	46	.....	21
4,751	2,625	17,351	.....	252	5,457	3,978	88,905	1,288	159,165	22	.....	.....	.....	22	.....	22
3,475	480	11,571	.....	1,485	621	42,872	446	63,480	20,162	15	.....	.....	.....	15	.....	23
33,490	44,720	228,981	.....	5,054	17,197	299,934	7,894	854,884	547,056	177	.....	.....	.....	177	.....	24
85,783	220,042	297,141	.....	280,176	29,721	75,683	380,943	34,589	2,408,351	400	.....	.....	.....	400	.....	25
1,820	.....	8,510	.....	2,250	315	35,920	104	56,893	20,699	6	.....	.....	.....	6	.....	26
3,000	2,000	20,547	.....	788	7,800	28,133	457	64,852	36,032	.....	.....	.....	.....	.....	.....	27
17,280	8,785	55,215	.....	1,336	405	39,332	179,193	15,743	484,058	579	.....	.....	.....	579	.....	28
313,779	205,011	2,510,573	.....	156,809	51,001	315,532	10,174,871	339,115	15,892,038	5,976	1,902	80	.....	3,994	90	29

Liquors, vinous..... 1	Models and patterns, not including paper patterns..... 1	Perfumery and cosmetics..... 2	Statuary and art goods..... 1
Lithographing..... 1	Musical instruments and materials, not elsewhere specified..... 1	Photography..... 2	Stoves and hot-air furnaces..... 1
Looking-glass and picture frames..... 1	Optical goods..... 1	Photographic materials..... 1	Structural ironwork, not made in steel works or rolling mills..... 2
Lumber and timber products..... 4	Paints..... 1	Pottery, earthen and stone ware..... 1	Tools, not elsewhere specified..... 1
Millinery and lace goods, not elsewhere specified..... 1	Patent and proprietary compounds, not elsewhere specified..... 2	Sigars, electric..... 1	Toys and games..... 2
Mirrors, framed and unframed, not elsewhere specified..... 1		Slaughtering and meat packing..... 5	Trunks and valises..... 2
		Soap..... 1	Wooden goods, not elsewhere specified..... 1
		Spring, steel, automobile..... 1	

1,857,229	1,134,304	14,509,907	81,701	242,150	1,479,272	71,870,118	1,403,299	103,171,756	29,898,339	59,557	18,471	4,550	17	64	36,455	2,812	1
.....	.....	15,784	.....	1,280	661	17,496	679	53,015	34,840	51	.....	.....	15	.....	36	.....	2
13,200	4,540	70,798	.....	8,005	2,932	101,035	2,476	288,515	185,004	74	.....	.....	.....	.....	74	.....	3
21,272	10,881	215,744	.....	35,154	5,100	349,328	4,142	755,704	402,234	169	.....	.....	.....	.....	169	.....	4
45,287	76,205	306,512	.....	20,049	23,329	1,172,630	24,489	2,035,703	938,539	242	.....	.....	.....	.....	242	.....	5
17,900	20,224	27,226	.....	2,022	6,601	364,238	3,042	498,969	101,639	75	.....	.....	.....	.....	75	.....	6
69,790	45,053	187,373	.....	13,553	58,718	787,754	9,265	1,299,081	502,092	132	.....	.....	.....	.....	132	.....	7
53,477	37,934	145,893	.....	9,371	52,208	589,567	7,264	959,144	362,313	60	25	.....	.....	14	21	.....	8
16,313	7,119	41,480	.....	4,182	6,510	198,187	2,001	339,637	139,749	72	.....	.....	.....	.....	72	.....	9
24,550	6,016	85,147	.....	5,839	10,943	169,146	1,627	387,660	216,893	66	.....	.....	.....	.....	66	.....	10
100,189	123,386	587,607	.....	11,413	5,478	116,575	18,827,686	82,394	21,089,220	5,176	1,775	.....	.....	45	3,356	.....	11
30,480	46,257	41,108	.....	6,320	3,119	511,528	4,400	747,715	231,778	125	.....	.....	.....	.....	125	.....	12
8,500	533	13,056	.....	1,080	1,185	120,725	1,399	191,732	69,608	47	.....	.....	.....	.....	47	.....	13
21,980	45,724	28,052	.....	5,240	1,934	390,803	3,010	555,933	162,170	78	.....	.....	.....	.....	78	.....	14
148,139	4,406	593,477	.....	12,235	194,146	963,428	75,448	2,583,334	1,544,458	1,906	.....	.....	.....	.....	1,906	.....	15
17,019	2,121	52,984	.....	6,515	1,319	102,129	2,743	215,607	110,735	97	.....	.....	.....	.....	97	.....	16
131,120	40,255	540,493	.....	5,720	192,827	801,299	72,705	2,367,727	1,433,723	1,809	.....	.....	.....	.....	1,809	.....	17
60,548	23,513	511,785	.....	2,400	38,773	546,171	19,437	1,530,527	964,919	1,229	.....	.....	.....	.....	1,229	.....	18
5,100	1,860	39,236	.....	.....	2,487	7,480	7,865	90,250	74,059	779	.....	.....	.....	.....	779	.....	19
242,876	88,531	3,923,026	.....	5,471	6,544	213,521	4,374,812	23,221	10,367,165	5,969,132	16,916	8,203	4,265	.....	4,448	1,551	20
133,442	46,114	1,096,987	.....	20,593	72,081	2,342,513	11,691	4,591,675	2,237,471	4,258	2,510	.....	.....	.....	1,748	100	21

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

MANUFACTURES—WASHINGTON.

TABLE 31.—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.

TACOMA—Continued.														Dollars.	
1	Marble and stone work.....	4	83	1	9	8	3	62	No	70	Se	57	61	61	390,936
2	Mineral and carbonated waters.....	3	19	3	1	1	1	13	Au	17	Ja ³	12	13	13	56,639
3	Printing and publishing, book and job.....	32	205	37	20	30	11	107	De	116	Mh ³	96	119	80	452,900
4	Printing and publishing, newspapers and periodicals.....	15	444	11	20	91	47	275	Se	281	Mh	268	276	261	461,021
5	Shipbuilding, wooden, including boat building.....	7	700	7	14	25	15	630	Mh	2,298	De	45	2,145	2,145	2,481,329
6	Tobacco, cigars and cigarettes.....	7	28	9				19	(⁴)	19	(⁴)	19	19	13	25,789
7	All other industries *.....	91	4,465	65	188	187	78	3,967					4,139	3,825	40,052,423

* All other industries embrace—	Brass and bronze products.....	2	Cars and general shop construction and repairs by steam-railroad companies.....	3	Druggists' preparations.....	1
Artificial limbs.....	Brooms, from broom corn.....	2	Cleansing preparations.....	1	Electroplating.....	1
Automobiles.....	Brushes.....	1	Clothing, men's and youths'.....	1	Engines, steam, gas, and water.....	1
Awnings, tents, and sails.....	Butter.....	2	Clothing, women's, wrappers and house dresses.....	3	Ferroalloys.....	1
Babbitt metal.....	Canning and preserving, fish.....	1	Coal-tar products.....	2	Fertilizers.....	1
Belting, leather.....	Carpets, rag.....	1	Cordials and flavoring sirups.....	1	Flavoring extracts.....	2
Boots and shoes.....	Cars and general shop construction and repairs by electric-railroad companies.....	3	Dental goods.....	1	Fur goods.....	2
Boxes, cigar.....					Furs, dressed.....	1
Boxes, set-up paper boxes and cartons					Gas, illuminating and heating.....	1
Boxes, wooden packing, except cigar boxes.....						

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

1	ABERDEEN.....	73	2,949	54	92	47	41	2,715	Au	2,979	Fe	2,360	2,601	2,530	71	8,596,114
2	BELLINGHAM.....	110	3,520	95	196	91	50	3,088	My	3,628	De	2,189	3,315	3,164	148	13,581,271
3	EVERETT.....	127	3,640	97	133	88	49	3,273	Se	3,724	Fe	2,832	3,740	3,507	227	16,479,920
4	HOQUIAM.....	38	2,293	30	41	35	23	2,164	Au	2,497	Mh	1,700	2,354	2,289	55	7,026,479
5	VANCOUVER.....	39	4,827	28	101	119	57	4,522	Fe	5,176	No	3,492	3,882	3,856	26	52,577,128
6	WALLA WALLA.....	69	611	60	47	47	29	428	Oc	461	Ja	388	457	427	28	3,020,340
7	YAKIMA.....	77	1,566	54	59	75	52	1,326	Oc	1,947	Fe	775	1,693	1,253	420	4,920,519

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—WASHINGTON.

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.			Rent-ed. ²	Electric horse-power 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.								
27,082	7,703	93,630	3,700	8,153	140,924	3,107	398,985	254,954	378							378	1
1,851	2,298	22,609	1,020	4,532	49,399	427	113,891	64,065	10							10	2
46,463	24,656	134,101	18,290	19,051	17,544	141,007	3,509	548,773	404,257	151						151	3
84,926	149,769	311,600	24,015	10,251	10,520	392,271	6,277	1,281,863	883,315	260						260	4
212,413	54,828	754,439	2,500	3,500	136,678	1,677,119	15,957	4,293,954	2,600,878	2,420	180					2,240	5
		23,466		2,580	8,214	32,672	263	75,589	42,654								6
560,721	354,113	5,408,162	7,574	62,567	544,639	38,901,475	1,103,634	50,170,157	10,165,048	25,140	4,808	285	2			19,985	7

Gloves and mittens, cloth, not including gloves made in textile mills.	2	Mattresses and spring beds, not elsewhere specified.	3	Patent and proprietary medicines.	1	Soap.	1
Hand stamps.	1	Mirrors, framed and unframed, not elsewhere specified.	1	Perfumery and cosmetics.	1	Stencils and brands.	1
Hardware.	1	Models and patterns, not including paper patterns.	1	Photo-engraving.	2	Stoves and hot-air furnaces.	2
Iron and steel forgings, not made in steel works or rolling mills.	1	Musical instruments and materials, not elsewhere specified.	1	Pickles and sauces.	2	Structural ironwork, not made in steel works or rolling mills.	1
Iron and steel, welding.	2	Oil, vegetable.	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1	Tinware, not elsewhere specified.	1
Jewelry.	2	Optical goods.	1	Saddlery and harness.	2	Wall plaster and composition flooring.	1
Knit goods.	1			Shirts.	1	Window and door screens.	1
Liquors, malt.	2			Slaughtering and meat packing.	1	Wood, turned and carved.	1
Lithographing.	1			Smelting and refining, copper.	1	Wooden goods, not elsewhere specified.	2

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

540,228	180,572	4,474,438	17,200	35,094	451,325	7,526,161	131,987	15,757,723	8,096,575	14,504	11,417	1,200	6	1,881	865	1
314,490	243,179	4,343,985	1,645	42,913	338,329	9,734,404	235,017	17,807,631	7,838,210	13,717	5,539	4,834	48	3,306	5,195	2
439,670	196,512	4,816,742	24,113	40,605	630,656	11,774,130	132,874	21,886,682	9,979,678	21,702	7,712	11,531	190	2,469	12,301	3
199,794	112,075	3,408,581		11,835	293,682	6,287,426	19,447	11,872,631	5,565,158	14,732	10,936	3,000		796	6,218	4
503,838	416,978	7,088,030	5,500	17,180	81,328	11,695,683	233,857	21,251,700	9,322,160	8,553	3,020		9	5,524	74	5
100,153	81,796	537,704	5,130	24,365	42,756	2,774,222	82,108	4,322,636	1,466,306	1,744	426		18	1,130	45	6
153,930	153,326	1,508,107	136,672	38,702	96,791	2,494,490	114,869	5,766,980	3,157,621	2,851	1,784		4	1,063	133	7

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