Twelfth Census of the United States.

CENSUS BULLETIN.

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MANUFACTURES.

MICHIGAN.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of Michigan for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

There were 63 cities and villages in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and villages which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Seven cities in Michigan contain a population exceeding 20,000 each: Bay City, Detroit, Grand Rapids, Jackson, Kalamazoo, Muskegon, and Saginaw. The manufacturing statistics of these 7 cities are presented by specified industries, and the statistics of Bay City, Detroit, Grand Rapids, Jackson, Muskegon, and Saginaw are presented in comparison with the returns of the Eleventh Census. The statistics of Kalamazoo were not shown separately in 1890, and comparisons with that year are, therefore, not possible in this case.

Mr. Harlow S. Person, of the University of Michigan, rendered valuable assistance in the preparation of the text for the accompanying report.

The statistics of Michigan are presented in 9 tables: Table 1 showing the comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics of educational, eleemosynary, and penal institutions, and establishments with a product of less than $500, which two latter classes were not reported at previous censuses; Table 3 showing the statistics of the 15 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Bay City, Detroit, Grand Rapids, Jackson, Muskegon, and Saginaw at the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities and villages withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics for the cities of Bay City, Detroit, Grand Rapids, Jackson, Kalamazoo, Muskegon, and Saginaw by specified industries; and Table 9 showing the totals for all industries in each of the cities and villages withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in Michigan for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in Michigan manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison

with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments.

The reports show a capital of $284,097,133 invested in manufactures and mechanical industries in the 16,807 establishments reporting for the state of Michigan. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is returned at $356,944,082, to produce which involved an outlay of $12,562,855 for salaries of officials, clerks, etc.; $66,467,867 for wages; $25,495,423 for miscellaneous expenses, including rent, taxes, etc.; and $199,559,905 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the product given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of Michigan, $356,944,082, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the value of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for Michigan, the gross value of products for 1900 was $356,944,082. The value of materials purchased in a partly manufactured form was $142,218,456. The difference, $214,725,626, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

Very respectfully,

S. N. D. North

Chief Statistician for Manufactures.

MICHIGAN.

Table 1 shows the manufacturing and mechanical industries of the state of Michigan as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	16,807	12,127	8,873	9,455	3,448	2,033	38.6	36.7	[1]6.2	174.2	69.6
Capital	$284,097,133	$262,412,240	$92,930,959	$71,712,288	$23,808,226	$6,563,660	8.3	182.4	29.6	201.2	262.7
Salaried officials, clerks, etc., number	13,858	[2]15,267	(3)	(3)	(3)	(3)	[1]9.2				
Salaries	$12,562,855	[2]$11,364,892	(3)	(3)	(3)	(3)	10.5				
Wage-earners, average number	162,355	148,674	77,591	63,694	28,190	9,344	9.2	91.6	21.8	174.7	148.2
Total wages	$66,467,867	$54,982,906	$25,313,682	$21,205,355	$6,735,047	$2,717,124	20.9	117.2	19.4	214.9	147.9
Men, 16 years and over	136,627	133,176	68,445	58,347	22,144	8,990	2.6	94.6	17.3	163.5	146.3
Wages	$60,835,081	$51,932,652	(3)	(3)	(3)	(3)	17.1				
Women, 16 years and over	23,092	12,857	4,784	2,941	1,046	354	79.6	168.8	62.7	181.2	195.5
Wages	$5,239,149	$2,720,453	(3)	(3)	(3)	(3)	92.6				
Children, under 16 years	2,636	2,611	4,362	2,406	(3)	(3)	[1]0.2	[1]39.5	81.3		
Wages	$393,637	$329,801	(3)	(3)	(3)	(3)	19.4				
Miscellaneous expenses	$25,495,423	$18,348,381	(4)	(4)	(4)	(4)	39.0				
Cost of materials used	$199,559,905	$154,521,918	$92,900,269	$68,142,515	$17,635,611	$6,136,328	29.1	66.3	36.3	286.4	187.4
Value of products, including custom work and repairing	$356,944,082	$277,896,706	$150,715,025	$118,394,676	$32,658,356	$11,169,002	28.4	84.4	27.3	262.5	192.4
Total population	2,420,982	2,093,889	1,636,937	1,184,059	749,113	397,654	15.6	27.9	38.2	58.1	88.4
Wage-earners engaged in manufactures	162,355	148,674	77,591	63,694	28,190	9,344	9.2	91.6	21.8	174.7	148.2
Per cent of total population	6.7	7.1	4.7	5.4	3.1	2.3					
Assessed value of real estate	[5]$1,017,071,613	$739,690,151	$432,861,884	$224,663,667	$123,605,084	$25,580,371	37.5	70.9	92.7	81.8	383.2
Value of land and buildings invested in manufactures[6]	$78,074,887	$85,827,515	(3)	(3)	(3)	(3)	[1]9.0				
Per cent of assessed value	7.7	11.6									

[1] Decrease.
[2] Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)
[3] Not reported separately.
[4] Not reported.
[5] As given in the Report of the Board of Supervisors of the State of Michigan, June sessions, 1901.
[6] Does not include value of rented property.

Table 1 shows that there has been a large growth in the manufacturing and mechanical industries of Michigan during the half century. The population during these years increased from 397,654 to 2,420,982, while the average number of wage-earners employed in manufacturing establishments increased from 9,344 to 162,355, embracing, in 1900, 6.7 per cent of the entire population, compared with 2.3 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 232,353, or 9.6 per cent of the total population of the state.

The greatest percentage of increase in the value of products, 262.5 per cent, is shown for the decade ending with 1870, but the greatest absolute increase, $127,181,681, was between the years 1880 and 1890. The much smaller absolute increase during the decade from 1890 to 1900, $79,047,376, is due to the decrease in the manufacture of lumber and timber products, by far the most important industry in the state. In 1890, at the close of the decade during which lumbering was at its height, the percentage of wage-earners to total population was 7.1, which is greater than at any other census year included in the half century.

The decrease between 1880 and 1890 in the number of children employed under 16 years of age was 39.5 per cent; during the decade ending with 1900 it was two-tenths of 1 per cent. This is attributed to the factory act of 1889, with its later amendments, and to the compulsory school law of 1895.[1] No child under 14 can be employed in any manufacturing establishment. A register containing a sworn statement of the name, age, birthplace, and residence of all employees under 16 must be kept by the employer, to be open to official inspection. The number of women employed over 16 years of age has increased rapidly during the last two decades, a natural result of the increase in the number of industries in which women are employed.

The large increase in the manufacturing industries of Michigan is due to a steady improvement in the means of communication within the state and with the states adjoining; to the growing markets afforded by the rapidly settling West; and to the state's extraordinary forest resources. It is to the Erie Canal that the first rapid advance of Michigan can be attributed;[2] a close relation

[1] Report of the Michigan Bureau of Labor Statistics, 1898, Appendix, pages 2 and 3.
[2] History of Michigan, by J. H. Lanman, page 233.

may be traced between the development of transportation and of manufactures in the state. Before 1812 there were no roads worthy of the name. Between 1815 and 1817 a few short military roads were constructed along the Erie shore; after 1825 territorial roads were built by Congress to Saginaw, Fort Gratiot, Sandusky, Miami, and Chicago; and by 1845 the road now known as the Grand River road had become the great highway of the state.[1] These roads, and others constructed under the general plank road act of 1848, had their greatest effect upon manufacturing through the stimulus they gave to the lumber industry. During the first half of the century Michigan was dependent upon Lake Erie for its communication with the East. The greater part of the goods which found their way into western Michigan went around by the lakes, and were poled or rafted up the Grand, Kalamazoo, and St. Joseph rivers, and even up their tributaries.[2] After the completion, in the fifth and sixth decades, of the Lake Shore, Michigan Central, and Great Western railroads, the latter giving through connection with the eastern seaboard, this primitive method of transportation disappeared and a marked development in business was at once apparent.

[1] History of Detroit and Michigan, by Silas Farmer, page 925.
[2] Michigan Pioneer and Historical Collections, Vol. III, page 283.

The industrial development of the state has been marked by a steady diversification of its manufactures. There has been a moderate localization of manufacturing in the southern half of the Lower Peninsula, due to the special facilities for transportation in this section, to the offering of bonuses on the part of municipalities, and to certain natural advantages, such as good waterpower and soil specially adapted to the growing of raw material like the sugar beet.

The most serious handicap to manufacturing in Michigan is the insufficient supply of coal. There are extensive coal deposits in the central part of the Lower Peninsula, but they are of an inferior quality, and manufacturers at times find it difficult to secure a supply adequate to their demands. The local production of coal, however, has increased steadily since 1896.[3] The product for 1899 was 624,708 short tons.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for educational, eleemosynary, and penal institutions, and establishments with a product of less than $500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

[3] United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 463.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	20,222	$285,845,087	22,354	163,836	$66,536,992	$25,574,235	$199,906,716	$48,873,501	$142,532,017	$8,501,198	$358,022,727
Hand trades[1]	6,779	8,231,512	7,661	15,591	7,005,853	1,776,193	11,159,312	132,211	10,720,233	306,868	26,661,198
Educational, eleemosynary, and penal institutions	8	517,594		28	8,054	4,823	86,883	500	77,915	8,468	220,343
Establishments with a product of less than $500	3,407	1,230,360	3,674	1,453	61,071	73,989	259,928	24,282	235,646		858,302
All other establishments	10,028	275,865,621	11,019	146,764	59,462,014	23,719,230	188,400,593	48,716,508	131,498,223	8,185,862	330,282,884

[1] Includes bicycle and tricycle repairing, 310; blacksmithing and wheelwrighting, 1,830; boots and shoes, custom work and repairing, 696; carpentering, 524; clothing, men's, custom work and repairing, 703; clothing, women's, dressmaking, 367; dyeing and cleaning, 50; furniture, cabinetmaking, repairing, and upholstering, 172; lock and gun smithing, 42; masonry, brick and stone, 163; millinery, custom work, 705; painting, house, sign, etc., 404; paper hanging, 31; plastering and stuccowork, 89; plumbing, and gas and steam fitting, 295; sewing machine repairing, 7; taxidermy, 3; watch, clock, and jewelry repairing, 438.

Of the 20,222 establishments of all classes shown in this table, 10,186, or 50.4 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than $500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to $27,519,500, or only 7.7 per cent of the total value of the products of the state.

In addition to the 20,222 active establishments in the state during the census year, with a capital of $285,845,087, shown in Table 2, there were 139 idle establishments, with a capital of $2,861,192, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Boxes, wooden packing	2	$20,125	Lumber and timber products	17	$427,772
Brick and tile	20	135,390	Lumber, planing mill products, including sash, doors, and blinds	4	42,300
Chemicals	2	135,000	Matches	1	40,000
Cheese, butter, and condensed milk, factory product	10	16,945	Musical instruments, pianos and materials	2	27,000
Cooperage	1	50,000	Paper and wood pulp	2	84,307
Flouring and grist mill products	11	37,100	Patent medicines and compounds	1	25,000
Foundry and machine shop products	7	36,865	Paving and paving materials	1	49,746
Fruits and vegetables, canning and preserving	7	73,025	Saddlery and harness	1	15,000
Furniture, factory product	2	30,450	Salt	2	30,800
Grease and tallow	1	50,000	Tin and terne plate	1	529,259
Iron and steel	6	688,981	All other industries	33	63,435
Lime and cement	2	226,141			
Liquors, malt	3	76,551			

TABLE 3.—COMPARATIVE SUMMARY OF FIFTEEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS. Average number.	WAGE-EARNERS. Total wages.	Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
Total for selected industries for state	1900	3,818	$172,225,897	81,980	$35,561,887	$11,527,459	$110,989,509	$189,517,713
	1890	3,950	203,569,092	93,141	33,384,125	11,007,927	111,503,880	184,268,704
Increase, 1890 to 1900		[1] 132	[1] 31,343,195	[1] 11,161	2,177,762	519,532	[1] 514,291	5,249,009
Per cent of increase		[1] 3.3	[1] 15.4	[1] 12.0	6.5	4.7	[1] 0.5	2.8
Per cent of total of all industries in state	1900	22.7	60.6	50.5	53.5	45.2	55.6	53.1
	1890	32.6	77.6	62.6	60.7	60.0	72.2	66.3
Agricultural implements	1900	59	8,932,344	1,944	952,636	1,329,530	2,482,235	6,339,508
	1890	65	6,944,005	1,585	759,340	547,244	1,647,579	3,955,306
Carriages and wagons	1900	299	7,935,269	4,890	2,028,530	495,520	6,616,081	11,205,602
	1890	407	5,311,833	2,893	1,282,627	263,967	2,779,806	5,699,941
Cars and general shop construction and repairs by steam railroad companies.	1900	42	2,527,256	3,938	2,026,000	39,642	2,120,166	4,332,927
	1890	17	1,226,163	2,098	1,119,487	([2])	1,492,487	2,645,314
Cars, steam railroad, not including operations of railroad companies.	1900	4	6,693,209	3,187	1,409,580	227,774	7,272,761	9,920,780
	1890	5	3,769,483	3,723	1,565,557	245,560	8,007,074	11,078,281
Chemicals	1900	51	7,503,853	2,897	1,162,634	503,732	2,707,464	5,364,724
	1890	4	2,415,685	1,315	513,490	438,424	1,219,045	3,380,388
Flouring and grist mill products	1900	765	7,933,587	1,423	718,499	396,484	19,924,980	23,593,991
	1890	544	8,472,852	1,852	757,068	528,927	19,462,779	22,778,829
Foundry and machine shop products	1900	364	19,595,771	13,502	6,527,496	1,540,950	8,222,862	20,615,864
	1890	260	14,331,924	7,892	4,124,997	682,510	5,491,366	13,368,030
Furniture, factory product	1900	124	13,900,789	11,870	4,570,713	875,069	6,727,378	14,614,506
	1890	116	9,328,956	8,688	3,702,977	781,256	4,268,801	10,767,038
Iron and steel	1900	10	3,859,050	1,972	941,091	277,827	3,770,213	5,902,958
	1890	19	6,696,541	1,427	756,361	369,163	4,135,991	5,829,843
Leather, tanned, curried, and finished	1900	27	5,214,042	1,427	559,142	248,297	4,697,367	6,015,590
	1890	20	1,200,982	337	163,176	52,774	1,273,315	1,743,760
Liquors, malt	1900	77	6,235,484	980	599,319	2,402,652	1,187,770	5,296,825
	1890	78	3,963,163	687	419,439	737,785	998,128	2,979,258
Lumber and timber products	1900	1,705	67,379,698	26,199	11,122,030	2,328,961	29,439,931	54,290,520
	1890	2,124	129,467,072	54,308	15,548,883	5,748,166	49,418,374	83,121,969
Lumber, planing mill products, including sash, doors, and blinds	1900	235	8,571,453	5,281	2,012,754	509,357	8,341,834	12,469,532
	1890	230	6,701,437	4,788	1,983,252	361,111	6,151,535	10,007,603
Paper and wood pulp	1900	27	4,505,741	2,014	700,826	264,373	2,707,827	4,217,869
	1890	31	2,712,773	1,219	519,432	192,302	1,711,436	2,919,166
Slaughtering: Total	1900	29	1,438,351	456	230,687	87,291	4,770,640	5,337,417
	1890	30	1,026,223	329	168,089	58,738	3,446,164	3,908,978
Slaughtering and meat packing, wholesale	1900	8	1,265,151	375	186,473	76,659	3,325,794	3,724,761
	1890	10	802,463	263	133,555	45,299	2,684,053	3,069,298
Slaughtering, wholesale, not including meat packing	1900	21	173,200	81	44,164	10,632	1,444,906	1,612,656
	1890	20	223,760	66	34,534	13,439	762,111	929,680

[1] Decrease. [2] Not reported.

The 15 leading industries of the state in 1900, as shown in Table 3, embraced 3,818 establishments, or 22.7 per cent of the total number in the state; used a capital of $172,225,897, or 60.6 per cent of the total; gave employment to 81,980 wage-earners, or 50.5 per cent of the total number; and paid $35,561,887, or 53.5 per cent of the total wages. The value of their products was $189,517,713, or 53.1 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that the manufacture of lumber and timber products is the most important industry in the state. The 1,705 establishments reported in 1900 gave employment to 26,199 wage-earners, or 16.1 per cent of the wage-earners employed in the state, and the products were valued at $54,290,520, or 15.2 per cent of the total value of the products of the state. In 1890 there were 2,124 establishments, 54,308 wage-earners, and products valued at $83,121,969. The decrease in the value of products during the decade was $28,831,449, or 34.7 per cent.

The vast pine and hard wood forests of Michigan have constituted the state's most valuable natural resource. During the first half of the century there was a great influx of settlers who were attracted to the oak openings back from Detroit, on the higher land of the interior. Timber was sawed by mills in this section for local trade, but the lumber industry may be said to have begun in 1834, when Harvey Williams built the first steam sawmill in the Saginaw Valley. Other small establishments followed in rapid succession, manufacturing chiefly for local markets. With roadbuilding the lumber industry advanced rapidly. At Flint, in 1854, after the opening of a plank road, the prices of lumber nearly doubled. In 1858 a regular logging business was begun at Alpena, 1,000,000 feet of logs being put out that year at $2 per 1,000 feet, board measure.[1] The industry was at first concentrated along the valleys of the Grand, Saginaw, and Muskegon rivers

[1] One Hundred Years of American Commerce, edited by Chauncey M. Depew, Vol. I, page 197.

and their tributaries, and at lake ports, such as Alpena, Manistee, Ludington, Cheboygan, and Grand Haven. The building of railways between 1870 and 1880 opened up the more inaccessible portions of the northern part of the Lower Peninsula, and many new lumber centers sprang up. A change thereupon took place in the industry. Instead of transporting logs to the mills located on the lake shore and at the mouths of rivers, lumber manufacturers moved their mills to the sources of supply. The Saginaw Valley, the Lake Huron shore, Manistee, Muskegon, and the Upper Peninsula came to be the most important lumber regions. The decline in the industry since 1890 is the inevitable penalty the state has been obliged to pay for the extravagant and wasteful exploitation of its forests in the preceding decades. The production is still great, although large quantities of logs are brought into the state. The industry at Alpena, for example, has been sustained by the importation of logs from Canada.[1] The high-grade woods of the state were the first to be exhausted. Public opinion is now developing in favor of a system of forestry, and a commission has been created looking toward the protection of the forests.

The manufacture of flouring and grist mill products ranks second among the industries of the state, with 765 establishments, 1,423 wage-earners, and products valued at $23,593,991. In 1890 there were 544 establishments, 1,852 wage-earners, and products valued at $22,778,829. The increase in the value of products during the decade was $815,162, or 3.6 per cent. In the earlier decades the number of establishments was large, the absence of adequate means of transportation necessitating the establishment of mills for every small market. In recent years the industry has tended to localize at points which possess superior waterpower or shipping facilities. Grand Rapids, Detroit, Adrian, Greenville, Coldwater, Saginaw, and Niles are important milling centers.

There were 364 establishments engaged in 1900 in the manufacture of foundry and machine shop products, the industry third in rank, with 13,502 wage-earners, and products valued at $20,615,864. In 1890 there were 260 establishments, 7,892 wage-earners, and products valued at $13,363,030. The increase in the value of products during the decade was $7,252,834, or 54.3 per cent. This industry is well distributed throughout the state. In addition to the principal centers, which are Detroit and contiguous towns on the Detroit River, Grand Rapids, Saginaw, Bay City, and Jackson, there are many other centers of growing importance, including Battle Creek, Kalamazoo, Lansing, Muskegon, Manistee, and Marquette.

There were 124 establishments engaged in the factory manufacture of furniture in 1900, with 11,870 wage-earners, and products valued at $14,614,506. In 1890 there were 116 establishments, 8,688 wage-earners, and products valued at $10,767,038. The increase in the value of products during the decade was $3,847,468, or 35.7 per cent. Grand Rapids is conspicuous as one of the great furniture centers of the world. Second in the state stands Detroit, and the industry is carried on also in Muskegon, Saginaw, Owosso, Holland, Pentwater, Bingham, Sturgis, Plymouth, and Big Rapids. There is a tendency toward localization and an increase in the size of establishments, notably at Grand Rapids, the value of whose furniture products in 1900 was $7,494,607. The first cabinet shop in that city is said to have been established in 1849 by Abraham Snively.[2] Abundant waterpower, and a river draining areas covered with both pine and hard wood, gave the industry a sudden and rapid growth. Although the waterpower is now of much less importance, and the timber is becoming exhausted, so that large quantities are imported, the impetus given by these early natural advantages has been maintained by the utilization of new resources. The most important of these are the unique method of sale by photographs, the invention and use of special furniture cars, and the establishment of great semiannual fairs at Grand Rapids. Buyers are thus attracted from a widely extended area, and the tendency toward centralization is accentuated.[3]

There were 235 establishments engaged in the manufacture of planing mill products in 1900, with 5,281 wage-earners, and products valued at $12,469,532. In 1890 there were 230 establishments, 4,788 wage-earners, and products valued at $10,007,603. The increase in the value of products during the decade was $2,461,929, or 24.6 per cent. While the manufacture of lumber and timber products has decreased, the manufacture of planing mill products has increased. In consequence of the impairment of the timber supply of the state, the attention of lumber manufacturers, especially in Saginaw, has been turned to the finer forms of wood manufacture. Other important cities in the planing mill industry are Detroit, Grand Rapids, Marquette, Bay City, Lansing, Kalamazoo, Jackson, and Owosso.

There were 299 establishments engaged in the manufacture of carriages and wagons in 1900, with 4,890 wage-earners, and products valued at $11,205,602. In 1890 there were 407 establishments, 2,893 wage-earners, and products valued at $5,699,941. The increase in the value of products during the decade was $5,505,661, or 96.6 per cent. From 1880 to 1890 there was an increase in the number of establishments, but since 1890 there has been a marked decrease, due to the inability of many small establishments to survive in competition with those producing on a large scale. The nearness of this industry to raw materials, as compared with the vehicle manufacturing centers of some of the other states, an increasing local and neighboring market, and excellent shipping facilities have influenced its growth and localization. The cities chiefly interested in the manufacture of carriages and wagons are Grand Rapids, Flint, Jackson, Detroit, Pontiac, and Lansing.

There were 4 establishments engaged in the manufacture of steam railroad cars in 1900, with 3,187 wage-

[1] Bulletins of Farmers' Institutes, 1896-1897, page 38.

[2] Report of the Michigan Bureau of Labor Statistics, 1900, page 69.

[3] Ibid, page 76.

earners, and products valued at $9,920,780. In 1890 there were 5 establishments, 3,723 wage-earners, and products valued at $11,078,281. The decrease in the value of products during the decade was $1,157,501, or 10.4 per cent. This decrease is due to the consolidation of large establishments located in Detroit with similar establishments in other states, and the resultant redistribution of production.

There were 59 establishments engaged in the manufacture of agricultural implements in 1900, with 1,944 wage-earners, and products valued at $6,339,508. In 1890 there were 65 establishments, 1,585 wage-earners, and products valued at $3,955,306. The increase in the value of products during the decade was $2,384,202, or 60.3 per cent. The cities in which this manufacture is most conspicuous are Albion, Adrian, Battle Creek, Kalamazoo, Greenville, Lansing, Pontiac, Saginaw, and Detroit.

There were 27 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 1,427 wage-earners, and products valued at $6,015,590. In 1890 there were 20 establishments, 337 wage-earners, and products valued at $1,743,760. The increase in the value of products during the decade was $4,271,830, or 245 per cent. This large increase is due chiefly to a radical change in the industry, the hides being transported from centers like Chicago to the place of the tanning bark in Michigan, instead of the bark to the hides.

There were 10 establishments engaged in the manufacture of iron and steel in 1900, with 1,972 wage-earners, and products valued at $5,902,058. In 1890 there were 19 establishments, 1,427 wage-earners, and products valued at $5,829,843. The increase in the value of products during the decade was $72,215, or 1.2 per cent. In spite of this slight increase in the value of products, there has been a marked decrease in the number of establishments, which is explainable by the insufficiency of the coal supply. The high-grade iron ores of the Lake Superior district are available, but iron manufacturing has always shown a tendency to localize near the fuel rather than near the ore.

There were 51 establishments engaged in the manufacture of chemicals in 1900, with 2,897 wage-earners, and products valued at $5,364,724. In 1890 there were 4 establishments, 1,315 wage-earners, and products valued at $3,380,388. The increase in the value of products during the decade was $1,984,336, or 58.7 per cent. This is an industry of growing importance, and is carried on chiefly in Detroit. Prior to 1880 its rank in census statistics was very low.

There were 29 establishments engaged in slaughtering and meat packing in 1900, with 456 wage-earners, and products valued at $5,337,417. In 1890 there were 30 establishments, 329 wage-earners, and products valued at $3,998,978. The increase in the value of products during the decade was $1,338,439, or 33.5 per cent. Prior to 1890 this industry was inconsiderable, but it has had a favorable development during the last decade. The chief centers are Detroit and Bay City.

There were 77 establishments engaged in the manufacture of malt liquors in 1900, with 980 wage-earners, and products valued at $5,296,825. In 1890 there were 78 establishments, 687 wage-earners, and products valued at $2,979,258. The increase in the value of products during the decade was $2,317,567, or 77.8 per cent. The growth of this manufacture has been steady, keeping pace with the increasing local demand. Detroit is now the chief center.

There were 42 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 3,938 wage-earners, and products valued at $4,332,927. In 1890 there were 17 establishments, 2,098 wage-earners, and products valued at $2,645,314. The increase in the value of products during the decade was $1,687,613, or 63.8 per cent.

There were 27 establishments engaged in the manufacture of paper and wood pulp in 1900, with 2,014 wage-earners, and products valued at $4,217,869. In 1890 there were 31 establishments, 1,219 wage-earners, and products valued at $2,919,166. The increase in the value of products during the decade was $1,298,703, or 44.5 per cent. The increasing publishing and book-making industries furnish a good market, and the completion of the Sault Ste. Marie power canal, near the source of raw material, and now in process of construction, will offer great advantages for pulp manufacturing at that point.

In addition to the industries included in Table 3, attention may be called to the manufacture of beet sugar. There were 9 establishments engaged in this industry in 1900, with 473 wage-earners, and products valued at $1,602,266. There were no establishments in operation in 1890. Michigan ranked second in the United States in this industry in 1900, the value of its products constituting 21.9 per cent of the total for the United States. The manufacture of beet sugar on a small scale was unsuccessfully attempted in Michigan as early as 1838.[1] The natural conditions were found to be favorable, but large capital, efficient machinery, and an advanced system of agriculture were wanting. Within the past ten years these deficiencies have been supplied, and Michigan has been able to reap the benefits of its natural advantages for raising sugar beets.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Bay City, Detroit, Grand Rapids, Jackson, Muskegon, and Saginaw, as returned at the censuses of 1890 and 1900, with the percentages of increase.

[1] Blois' Gazetteer, 1838, page 110.

TABLE 4.—COMPARATIVE SUMMARY, BAY CITY, DETROIT, GRAND RAPIDS, JACKSON, MUSKEGON, AND SAGINAW, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Number of establishments.	Capital.	Wage-earners. Average number.	Wage-earners. Total wages.	Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
The State	1900	16,807	$284,097,133	162,355	$66,467,867	$25,495,423	$199,559,905	$356,944,082
	1890	12,127	262,412,240	148,674	54,982,906	18,348,381	154,521,918	277,896,706
Per cent of increase		38.6	8.3	9.2	20.9	39.0	29.1	28.4
Bay City	1900	376	5,645,525	3,307	1,466,328	385,641	3,820,599	7,087,624
	1890	331	9,654,415	4,203	1,576,659	518,771	5,043,587	9,069,342
Per cent of increase		13.6	[1]41.5	[1]21.3	[1]7.0	[1]25.7	[1]24.2	[1]21.9
Detroit	1900	2,847	71,751,193	45,707	18,718,081	10,844,958	52,349,347	100,892,838
	1890	1,746	45,041,167	34,535	15,490,171	5,947,307	41,360,058	77,351,546
Per cent of increase		63.1	59.3	32.3	20.8	82.4	26.6	30.4
Grand Rapids	1900	824	23,433,760	14,361	5,904,670	1,950,456	12,348,978	24,824,042
	1890	869	15,945,947	11,869	5,279,617	1,289,458	9,891,615	19,851,181
Per cent of increase		[1]5.2	47.0	21.0	11.8	51.3	31.5	25.1
Jackson	1900	291	4,617,656	4,206	1,666,680	480,757	4,223,891	7,587,526
	1890	220	4,979,444	3,258	1,128,657	337,634	2,782,640	5,376,347
Per cent of increase		32.3	[1]7.3	29.1	47.7	42.4	51.8	41.1
Muskegon	1900	200	4,602,390	3,235	1,185,697	386,488	2,631,279	5,097,059
	1890	301	9,863,819	3,883	1,608,293	478,391	4,795,251	8,278,160
Per cent of increase		[1]33.6	[1]53.3	[1]16.7	[1]26.3	[1]19.2	[1]45.1	[1]38.4
Saginaw	1900	480	7,558,806	4,866	1,936,558	594,269	5,816,237	10,034,499
	1890	335	12,406,823	5,305	2,271,623	667,399	6,587,763	11,303,006
Per cent of increase		43.3	[1]39.1	[1]8.3	[1]14.8	[1]11.0	[1]11.7	[1]11.2
Total for 6 cities	1900	5,018	117,609,330	75,682	30,878,014	14,642,569	81,190,331	155,523,588
	1890	3,802	97,891,615	63,053	27,355,020	9,238,960	69,960,914	131,229,582
Per cent of increase		32.0	20.1	20.0	12.9	58.5	16.1	18.5
Per cent of 6 cities to total for state	1900	29.9	41.4	46.6	46.5	57.4	40.7	43.6
	1890	31.4	37.3	42.4	49.8	50.4	45.3	47.2

[1] Decrease.

It appears from Table 4 that there has been an increase during the past decade in the combined manufactures of these 6 cities. The number of establishments increased from 3,802 to 5,018, or 32 per cent; the average number of wage-earners from 63,053 to 75,682, or 20 per cent; and the value of products from $131,229,582 to $155,523,588, or 18.5 per cent. The percentage of increase in the number of establishments and the value of products has been smaller in these 6 cities than in the state as a whole. Jackson shows the most rapid growth, the value of products having increased from $5,376,347 in 1890 to $7,587,526 in 1900, or 41.1 per cent. In Detroit, the leading manufacturing city, the number of establishments increased from 1,746 to 2,847, or 63.1 per cent; the number of wage-earners from 34,535 to 45,707, or 32.3 per cent; and the value of products from $77,351,546 to $100,892,838, or 30.4 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 16.9, 28.2, and 28.3 per cent, respectively, of the totals for the state. In Bay City, Muskegon, and Saginaw, lumber manufacturing, which shows a decline during the decade, has been the dominant industry. The decrease in the value of products, in cities shown in Table 4, is limited to these 3 cities.

Table 5 presents the totals for the manufacturing industries of the 63 cities and villages withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities and villages, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	Wage-earners. Average number.	Wage-earners. Total wages.	Miscellaneous expenses.	Cost of materials used.	Products. Value.	Products. Rank.	Products. Per cent of total.	Population. Total.	Population. Rank.	Population. Per cent of total.
Total for state	16,807	$284,097,133	18,680	162,355	$66,467,867	$25,495,423	$199,559,905	$356,944,082	-------	100.0	2,420,982	-------	100.0
Total for urban manufactures	9,679	188,972,294	10,560	117,504	48,309,181	21,058,456	127,606,208	243,448,473	-------	68.2	883,544	-------	36.5
Adrian	166	1,756,050	191	1,151	499,879	164,186	1,041,707	2,424,678	17	0.7	9,654	22	0.4
Albion	61	1,420,598	70	520	221,913	118,988	503,879	1,080,426	34	0.3	4,519	38	0.2
Allegan	54	193,453	66	184	65,371	15,195	218,375	303,278	53	0.1	2,667	50	0.1
Alpena	98	2,585,476	120	1,004	420,334	126,462	1,476,613	2,445,896	16	0.7	11,802	17	0.5
Ann Arbor	231	1,304,694	273	1,187	462,181	209,967	1,238,260	2,340,138	18	0.7	14,509	11	0.6
Au Sable	6	9,380	6	38	17,700	621	25,644	57,725	63	(1)	1,116	62	(1)
Battle Creek	177	7,354,492	190	2,323	1,079,934	1,467,100	2,351,015	6,753,208	7	1.9	18,563	9	0.8
Bay City	376	5,645,525	403	3,307	1,466,328	385,641	3,820,599	7,087,624	6	2.0	27,628	4	1.1
Benton Harbor	89	1,215,244	98	700	247,166	65,208	737,546	1,269,243	30	0.4	6,562	29	0.3
Bessemer	27	87,975	25	43	23,992	6,552	70,659	141,466	62	(1)	3,911	43	0.2

[1] Less than one-tenth of 1 per cent.

TABLE 5.—URBAN MANUFACTURES—Continued.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS. Average number.	WAGE-EARNERS. Total wages.	Miscellaneous expenses.	Cost of materials used.	PRODUCTS. Value.	PRODUCTS. Rank.	PRODUCTS. Per cent of total.	POPULATION. Total.	POPULATION. Rank.	POPULATION. Per cent of total.
Big Rapids	59	$554,666	64	454	$180,285	$32,699	$401,545	$761,634	39	0.2	4,686	37	0.2
Cadillac	63	2,553,064	86	788	362,660	104,501	1,364,339	2,164,787	21	0.6	5,997	32	0.2
Charlotte	65	360,900	82	327	120,069	23,351	285,638	528,317	47	0.1	4,092	42	0.2
Cheboygan	61	1,845,540	69	665	280,188	118,522	1,054,867	1,730,843	24	0.5	6,489	30	0.3
Chelsea	40	207,550	47	188	70,415	8,705	123,785	293,452	55	0.1	1,635	60	0.1
Coldwater	119	1,925,720	132	846	324,389	104,750	1,200,058	1,935,543	23	0.5	6,216	31	0.3
Detroit	2,847	71,751,193	3,123	45,707	18,718,081	10,844,958	52,349,347	100,892,838	1	28.3	285,704	1	11.8
Dowagiac	71	1,215,993	81	667	333,495	103,828	601,115	1,389,216	25	0.4	4,151	41	0.2
East Tawas	23	193,176	24	71	25,636	14,758	61,713	170,310	59	(1)	1,736	59	0.1
Eaton Rapids	40	124,037	44	90	30,232	8,418	156,541	246,919	57	0.1	2,103	55	0.1
Flint	154	2,605,428	174	2,186	895,186	262,543	3,006,436	5,198,827	8	1.5	13,103	15	0.5
Grand Haven	56	576,910	64	533	194,473	49,427	417,929	826,165	37	0.2	4,743	36	0.2
Grand Rapids	824	23,433,760	877	14,361	5,904,670	1,950,456	12,348,978	24,824,042	2	7.0	87,565	2	3.6
Greenville	90	542,117	107	388	170,356	82,346	452,764	851,688	36	0.2	3,381	48	0.1
Hastings	57	350,792	66	347	125,772	37,413	382,962	691,046	40	0.2	3,172	49	0.1
Hillsdale	88	606,278	96	332	152,337	27,701	1,047,550	1,384,462	26	0.4	4,151	41	0.2
Hudson	74	395,090	85	227	106,360	29,077	311,418	610,152	43	0.2	2,403	53	0.1
Ironwood	47	163,090	52	134	66,288	8,371	103,224	250,463	56	0.1	9,705	21	0.4
Ishpeming	55	192,887	60	191	97,256	17,540	186,010	404,916	51	0.1	13,255	13	0.5
Jackson	291	4,617,656	309	4,206	1,666,680	480,757	4,223,891	7,587,526	5	2.1	25,180	5	1.0
Kalamazoo	268	5,796,195	279	4,293	1,617,299	624,914	4,257,010	8,056,908	4	2.3	24,404	6	1.0
Lansing	164	2,018,219	188	1,575	647,788	188,327	1,364,831	2,827,842	14	0.8	16,485	10	0.7
Ludington	61	1,852,865	56	763	350,674	83,810	1,188,854	2,188,412	20	0.6	7,166	26	0.3
Manistee	140	5,608,707	133	1,745	772,354	265,974	1,840,630	3,886,420	12	1.1	14,260	12	0.6
Marine City	38	249,362	44	148	69,582	14,847	173,740	298,537	54	0.1	3,829	44	0.2
Marquette	78	1,565,390	87	645	344,930	186,411	1,128,736	2,005,486	22	0.6	10,058	19	0.4
Marshall	86	461,692	97	336	144,280	135,842	322,695	820,254	38	0.2	4,370	39	0.2
Menominee	90	5,451,446	83	1,968	912,016	287,816	2,615,528	4,685,324	10	1.3	12,818	16	0.5
Monroe	86	374,389	97	372	139,505	40,001	324,186	632,495	42	0.2	5,043	35	0.2
Mt. Clemens	78	403,273	92	328	130,212	48,410	220,980	533,207	46	0.1	6,576	28	0.3
Mt. Pleasant	58	242,593	51	262	90,626	18,178	187,163	389,916	52	0.1	3,662	45	0.2
Muskegon	200	4,602,390	203	3,235	1,185,697	386,488	2,631,279	5,097,059	9	1.4	20,818	7	0.9
Negaunee	32	68,467	34	68	35,874	5,583	57,417	143,432	61	(1)	6,935	27	0.3
Niles	78	901,507	73	620	223,603	29,273	731,415	1,183,793	32	0.3	4,287	40	0.2
Otsego	28	531,776	27	458	143,282	56,385	358,713	663,451	41	0.2	2,073	56	0.1
Owosso	111	1,685,715	114	1,260	513,275	118,087	1,380,506	2,265,498	19	0.6	8,696	24	0.4
Pontiac	106	1,393,867	114	1,315	512,161	96,587	1,754,532	2,793,499	15	0.8	9,769	20	0.4
Port Huron	186	3,301,954	189	2,417	1,119,320	249,995	2,078,896	4,298,743	11	1.2	19,158	8	0.8
Reed City	55	272,790	69	260	103,051	30,567	291,488	536,451	45	0.1	2,051	57	0.1
Saginaw	480	7,558,806	505	4,866	1,936,558	594,269	5,816,237	10,034,499	3	2.8	42,345	3	1.7
St. Clair	36	395,180	37	238	101,995	21,354	279,689	515,968	48	0.1	2,543	51	0.1
St. Johns	59	476,258	63	295	95,469	27,507	304,482	539,252	44	0.2	3,388	47	0.1
St. Joseph	75	954,419	81	933	358,591	73,343	606,969	1,308,277	29	0.4	5,155	34	0.2
St. Louis	37	60,040	42	47	16,306	4,183	94,818	149,854	60	(1)	1,989	58	0.1
Sault Ste. Marie	84	723,936	102	472	262,582	56,234	491,004	1,166,700	33	0.3	10,538	18	0.4
Sturgis	56	337,252	66	323	120,507	14,401	233,542	478,093	49	0.1	2,465	52	0.1
Tawas City	11	161,715	17	108	48,440	3,513	95,173	173,715	58	0.1	1,228	61	(1)
Tecumseh	61	264,815	65	293	123,348	24,863	190,394	429,085	50	0.1	2,400	54	0.1
Three Rivers	67	561,558	66	491	201,498	49,347	828,266	1,238,245	31	0.3	3,550	46	0.1
Traverse City	80	1,004,531	94	878	374,396	53,601	629,634	1,362,860	27	0.4	9,407	23	0.4
West Bay City	121	2,323,910	124	2,153	868,504	214,327	2,294,668	3,763,522	13	1.1	13,119	14	0.5
Wyandotte	50	679,947	63	493	187,822	88,743	542,419	956,055	35	0.3	5,183	33	0.2
Ypsilanti	110	898,161	121	681	233,013	95,235	725,907	1,318,793	28	0.4	7,378	25	0.3
Total for state exclusive of urban manufactures	7,128	95,124,839	8,120	44,851	18,158,683	4,436,967	71,953,697	113,495,609	-------	31.8	1,537,438	-------	63.5
Per cent of urban manufactures to total for state	57.6	66.5	56.5	72.4	72.7	82.6	63.9	68.2	-------	-------	36.5	-------	-------

[1] Less than one-tenth of 1 per cent.

Of the 16,807 establishments in the state, 9,679, or 57.6 per cent, were located in these 63 cities and villages. They furnished employment to 117,504 wage-earners, or 72.4 per cent of the total number, and the value of their products, $243,448,473, formed 68.2 per cent of the total for the state. Certain of the cities included in Table 5 have become centers of important industries: Kalamazoo for axles, beet sugar, carriages and carriage springs, corsets, machinery, paper, and blank books; Jackson for carriages, corsets, machines, oil stoves, tools, and wheels; Battle Creek for agricultural implements (especially threshing machines), books, health foods (for which it has established a national reputation), machinery, and pumps; Flint and Pontiac for carriages and wagons and carriage and wagon materials; Port Huron for engines, machinery, steel ships, and wood pulp; and Lansing for agricultural implements, beet sugar, carriages and wagons, display fixtures, furniture, stoves, and wheelbarrows. Products of some of these industries are exported.

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Bay City, Detroit, Grand Rapids, Jackson, Kalamazoo, Muskegon, and Saginaw by specified industries.

Table 9 shows the totals for the cities and villages withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

	COUNTIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
1	The State	16,807	$284,097,133	$42,880,900	$35,243,987	$68,117,259	$137,904,987	18,080	13,858	$12,562,855	162,355	$66,467,867
2	Alcona	21	303,977	113,146	10,950	44,250	135,631	23	11	9,165	162	73,007
3	Alger	23	3,060,066	1,692,296	162,175	236,567	969,028	21	31	56,115	950	430,030
4	Allegan	234	1,348,336	194,377	250,133	340,591	563,235	262	59	39,164	964	313,951
5	Alpena	113	2,631,491	260,367	338,911	636,035	1,396,178	136	61	48,951	1,066	445,914
6	Antrim	70	3,072,897	946,190	398,449	454,129	1,274,129	75	60	63,799	1,519	565,384
7	Arenac	51	363,436	33,790	27,680	84,531	217,435	58	12	11,300	303	130,030
8	Baraga	14	3,291,042	2,288,300	78,150	190,647	733,945	16	22	29,083	212	96,859
9	Barry	170	689,042	43,430	109,004	192,073	344,535	188	24	17,584	638	218,310
10	Bay	567	9,694,433	914,911	1,479,398	2,847,039	4,453,085	601	340	327,028	5,977	2,555,876
11	Benzie	60	651,337	131,072	84,675	154,713	280,927	71	20	16,911	340	137,893
12	Berrien	390	3,981,020	416,081	559,907	1,394,628	1,610,404	415	238	198,296	2,847	1,006,643
13	Branch	241	3,143,311	803,859	423,020	1,332,064	584,368	276	111	91,927	1,164	444,612
14	Calhoun	407	9,469,280	451,243	954,308	1,288,130	6,775,599	459	638	517,824	3,295	1,493,738
15	Cass	140	1,423,680	97,940	89,125	146,651	1,089,964	173	74	55,966	758	372,847
16	Charlevoix	84	1,913,946	842,941	60,325	354,374	656,306	106	38	29,315	655	268,766
17	Cheboygan	96	2,295,145	309,411	216,072	464,880	1,304,782	114	41	43,774	858	351,521
18	Chippewa	117	3,604,217	1,730,458	200,830	518,068	1,154,861	132	103	90,813	1,364	682,968
19	Clare	69	417,032	86,067	29,290	81,650	220,025	80	10	8,940	393	154,833
20	Clinton	169	821,804	38,305	142,830	229,385	411,284	197	24	25,235	471	162,109
21	Crawford	17	682,352	424,385	10,750	67,850	179,367	22	5	4,400	232	111,355
22	Delta	98	4,194,778	1,338,746	416,899	676,806	1,762,327	98	81	116,708	2,184	1,057,534
23	Dickinson	63	711,126	58,341	83,500	128,933	440,352	60	21	22,143	305	143,108
24	Eaton	212	890,159	99,820	186,463	275,251	328,625	250	71	47,684	878	349,042
25	Emmet	102	1,277,674	356,525	134,581	217,967	568,601	130	44	32,216	674	302,110
26	Genesee	369	3,205,723	183,886	343,945	549,082	2,128,810	412	123	93,785	2,541	1,027,670
27	Gladwin	27	356,030	136,100	14,160	75,775	129,995	37	7	4,638	164	63,140
28	Gogebic	75	262,465	33,135	27,800	53,275	148,255	77	10	10,720	180	91,480
29	Grand Traverse	123	1,514,584	334,986	170,276	339,948	669,374	143	63	50,692	1,152	505,709
30	Gratiot	150	1,181,406	101,455	177,710	433,177	469,064	176	31	16,245	605	203,741
31	Hillsdale	264	970,340	60,593	170,902	288,849	449,936	308	58	45,949	696	277,544
32	Houghton[1]	145	4,473,748	846,083	1,523,771	824,285	1,279,609	130	92	97,066	2,611	1,752,312
33	Huron	128	792,717	150,545	132,975	204,910	304,287	152	24	16,785	403	155,643
34	Ingham	293	2,447,045	158,061	366,487	711,892	1,210,605	345	184	143,223	1,859	740,749
35	Ionia	218	2,501,973	146,570	461,994	584,063	1,309,346	237	93	77,467	1,662	516,382
36	Iosco	60	1,552,387	363,688	223,225	458,914	506,560	75	40	32,148	668	262,158
37	Iron	46	587,556	103,985	28,000	73,790	381,781	40	15	20,250	291	140,213
38	Isabella	120	491,570	38,565	57,917	181,116	213,972	129	30	20,705	492	166,853
39	Jackson	417	5,021,548	305,241	726,530	1,029,704	2,960,073	447	402	371,972	4,336	1,709,741
40	Kalamazoo	344	6,453,882	544,627	703,880	1,582,589	3,622,786	371	533	460,892	4,493	1,681,685
41	Kalkaska	34	326,948	60,880	24,050	73,055	168,963	50	15	10,712	363	138,019
42	Kent	992	24,664,064	2,068,004	3,679,396	6,024,641	12,892,023	1,070	1,263	1,230,703	15,015	6,141,139
43	Lake	20	47,651	8,171	4,375	16,875	18,230	21	2	900	41	18,602
44	Lapeer	177	572,059	35,796	117,259	183,779	235,225	201	14	9,368	322	112,675
45	Leelanaw	36	846,380	224,695	52,275	248,833	320,577	46	13	12,855	457	163,305
46	Lenawee	491	3,278,642	234,077	543,983	755,848	1,744,734	565	253	171,078	2,194	911,738
47	Livingston	114	447,399	32,010	109,486	121,468	184,435	133	8	6,600	240	91,137
48	Luce	3	304,938	21,566	15,150	94,981	173,241	2	15	15,198	204	97,911
49	Mackinac	21	613,885	79,060	15,450	75,109	444,216	31	19	15,820	281	133,350
50	Macomb	206	856,137	109,310	192,169	229,333	325,325	239	28	17,504	613	241,577
51	Manistee	180	10,098,153	3,133,374	856,075	1,610,864	4,497,840	170	145	150,352	3,087	1,330,054
52	Marquette	172	2,159,486	631,685	278,124	421,373	828,304	187	70	80,291	1,011	525,404
53	Mason	95	2,347,234	577,634	179,275	503,175	1,087,150	97	44	44,415	990	453,361
54	Mecosta	116	743,011	92,172	121,489	193,416	335,934	138	25	18,468	586	232,360
55	Menominee	121	6,938,898	2,007,890	524,150	1,039,755	3,367,103	128	137	175,051	2,985	1,303,985
56	Midland	66	401,802	36,542	85,503	132,340	147,417	82	21	18,669	250	114,532
57	Missaukee	50	337,425	94,800	20,210	76,005	146,410	55	11	7,080	291	99,892
58	Monroe	204	966,519	213,582	147,485	269,339	336,113	231	40	20,357	609	216,702
59	Montcalm	200	1,181,629	175,153	126,355	223,376	656,745	231	55	56,522	819	331,410
60	Montmorency	22	665,563	270,530	8,820	66,965	319,248	29	5	5,850	237	86,625
61	Muskegon	267	6,524,197	1,253,558	729,125	1,288,673	3,252,841	265	237	226,056	4,827	1,712,559
62	Newaygo	47	270,136	19,387	30,027	51,690	169,032	56	3	2,110	109	43,771
63	Oakland	350	2,916,637	165,971	496,771	839,731	1,414,164	379	155	124,364	2,021	743,231
64	Oceana	92	532,873	71,860	72,410	111,181	277,472	116	13	15,897	458	153,467
65	Ogemaw	34	398,495	87,849	26,037	96,425	188,184	34	7	6,320	159	67,309
66	Ontonagon	16	696,311	157,592	75,335	59,249	404,135	20	23	14,312	185	83,505
67	Osceola	159	788,267	145,525	65,357	219,199	358,186	195	16	11,895	647	258,139
68	Oscoda	7	38,234	23,300	1,400	7,850	5,684	14	----	----	101	30,101
69	Otsego	35	512,732	245,700	28,925	88,335	149,772	45	18	16,090	295	118,902
70	Ottawa	216	3,715,144	184,212	483,366	824,215	2,223,351	237	150	127,864	2,415	828,386
71	Presque Isle	73	1,033,053	519,985	40,784	155,404	316,880	89	25	19,799	478	218,914
72	Roscommon	17	268,632	194,960	8,820	27,800	42,052	15	8	4,950	114	47,424
73	Saginaw	616	10,161,657	1,255,020	1,068,230	1,942,309	5,896,098	651	468	451,672	5,826	2,277,100
74	St. Clair	363	6,508,338	455,345	876,244	1,198,785	3,977,964	386	286	181,868	3,237	1,441,110
75	St. Joseph	260	1,451,988	113,884	278,263	340,729	719,112	288	92	80,250	1,182	441,534

[1] One establishment in Keweenaw county included in Houghton county to avoid disclosing operations of individual establishments.

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
136,627	$60,835,081	23,092	$5,239,149	2,636	$393,637	$25,495,423	$1,802,993	$1,835,198	$20,058,714	$1,798,518	$199,559,905	$194,282,961	$5,276,944	$356,944,082	1
156	71,767	------	------	6	1,240	15,318	753	7,638	6,927	------	281,722	281,182	540	527,134	2
948	429,470	1	384	1	176	115,428	2,003	17,248	96,177	------	800,177	799,580	597	1,651,959	3
751	273,297	210	40,186	3	468	99,571	6,319	12,350	54,736	26,166	1,098,019	1,044,774	53,245	1,862,480	4
996	431,616	52	11,903	18	2,395	127,911	6,998	17,008	103,905	------	1,495,023	1,461,489	33,534	2,502,191	5
1,500	561,049	19	4,335	------	------	139,143	1,461	22,804	114,878	------	1,737,983	1,416,498	321,485	3,137,374	6
280	124,509	6	1,554	17	3,967	14,527	1,010	4,034	9,483	------	395,546	394,527	1,019	651,778	7
211	96,659	1	200	------	------	102,381	549	14,960	86,792	80	622,749	622,426	323	1,078,315	8
523	192,076	112	25,805	3	429	54,296	8,438	3,938	38,746	3,174	833,836	864,081	19,755	1,462,197	9
5,592	2,465,085	341	82,980	44	7,811	693,225	48,746	72,818	515,379	56,282	6,875,754	6,701,761	173,993	12,192,096	10
337	136,903	2	364	1	126	27,795	1,438	7,327	17,545	1,490	308,519	305,476	3,043	627,886	11
2,130	856,446	675	143,905	42	6,292	258,087	21,416	21,819	206,977	7,875	3,042,828	2,936,709	106,119	5,204,035	12
982	410,013	170	32,688	12	1,911	135,922	18,505	8,854	113,448	115	1,644,934	1,546,012	98,922	2,773,219	13
2,819	1,380,568	457	110,422	19	2,748	1,731,412	36,722	37,348	1,640,400	16,942	3,610,253	3,534,445	75,808	9,308,473	14
728	365,914	26	6,430	4	503	107,186	5,109	5,820	96,257	------	868,290	852,841	15,449	1,774,341	15
645	266,671	6	1,640	4	455	65,449	1,569	16,972	46,608	300	803,381	801,207	2,174	1,352,929	16
835	346,963	20	3,764	3	794	126,767	6,849	14,544	105,374	------	1,245,116	1,236,195	8,921	2,082,497	17
1,294	663,610	55	14,444	15	4,914	121,401	11,117	14,151	96,133	------	1,306,171	1,300,375	5,796	3,037,971	18
386	153,242	7	1,591	------	------	17,525	1,760	4,556	10,909	300	294,925	293,637	1,288	593,712	19
421	151,715	42	9,569	5	825	43,673	6,677	4,518	29,278	3,200	689,071	672,582	16,489	1,131,830	20
230	110,631	2	724	------	------	42,620	272	16,282	25,941	125	404,407	404,284	123	639,568	21
2,092	1,036,094	78	18,375	14	3,065	161,153	7,080	36,400	109,573	8,100	1,963,862	1,786,428	177,434	4,171,958	22
283	137,654	18	4,758	4	696	28,291	4,953	5,024	18,314	------	375,762	372,908	2,854	701,398	23
778	327,169	97	21,411	3	462	51,829	9,921	6,918	32,940	2,050	824,551	798,218	26,333	1,554,693	24
654	296,941	18	4,819	2	350	64,053	3,984	9,809	50,260	------	721,615	711,933	9,682	1,402,695	25
2,228	949,170	300	76,991	13	1,509	296,813	25,401	16,815	203,722	50,875	3,821,034	3,766,689	54,345	6,389,386	26
163	63,044	------	------	1	96	11,521	671	3,178	7,672	------	162,908	162,673	235	276,196	27
161	88,560	18	2,820	1	100	14,926	6,406	1,813	6,707	------	175,483	170,853	4,630	395,529	28
970	462,597	132	34,306	50	8,806	74,773	9,405	11,502	52,866	1,000	865,202	854,904	10,298	1,890,144	29
580	203,756	20	4,529	5	456	46,622	5,941	6,172	32,359	2,150	561,523	539,859	21,664	1,052,328	30
559	238,533	127	37,596	10	1,415	47,436	10,289	5,721	30,876	550	1,542,610	1,516,542	26,068	2,224,447	31
2,528	1,783,542	71	16,930	12	1,840	305,065	18,042	26,525	224,728	35,770	18,728,927	18,542,065	186,862	21,517,808	32
379	152,000	7	1,664	17	1,979	25,604	1,828	6,023	17,653	100	839,773	821,515	18,258	1,266,016	33
1,555	662,747	295	76,448	9	1,554	206,031	32,940	14,854	146,606	11,631	2,127,258	2,079,878	47,380	3,851,925	34
1,071	397,398	577	116,987	14	1,997	249,908	7,175	10,015	93,887	138,831	2,595,671	2,558,893	36,778	4,219,547	35
644	257,547	15	3,135	9	1,471	41,309	1,330	12,095	27,201	683	504,638	494,143	10,495	997,715	36
282	138,426	7	1,397	2	390	81,924	1,966	5,034	11,652	13,272	252,580	244,457	8,123	512,271	37
473	163,294	19	3,559	------	------	26,976	3,983	6,257	16,586	150	402,264	397,460	4,804	760,617	38
3,017	1,359,826	1,293	346,082	26	3,833	518,490	53,438	24,296	376,034	64,722	4,592,550	4,462,716	129,834	8,149,969	39
3,168	1,385,496	1,282	289,372	43	6,817	644,753	52,674	30,489	474,156	87,434	4,513,324	4,389,765	123,559	8,493,433	40
349	134,521	13	3,394	1	104	19,792	120	3,830	15,842	------	257,685	257,171	514	533,021	41
13,240	5,748,992	1,641	371,008	131	21,139	2,036,302	163,997	118,774	1,612,776	140,755	13,360,865	13,077,262	283,603	26,540,215	42
39	18,147	2	455	------	------	1,734	335	211	1,188	------	50,821	50,429	392	89,272	43
237	93,878	79	17,747	6	1,050	32,335	6,368	5,348	20,619	------	432,373	416,929	15,444	762,937	44
456	168,185	1	120	------	------	38,672	261	7,942	30,469	------	497,610	497,431	179	1,026,204	45
1,869	841,986	306	66,921	19	2,831	251,256	24,751	15,553	191,388	19,564	2,332,186	2,276,598	55,588	4,715,277	46
142	62,681	94	27,956	4	500	17,781	8,969	3,471	10,036	305	856,007	843,376	12,631	1,109,911	47
204	97,911	------	------	------	------	78,015	------	3,006	75,009	------	148,016	147,991	25	441,750	48
279	132,930	1	300	1	120	15,163	638	6,554	7,971	------	502,221	501,871	350	796,396	49
579	234,522	30	6,478	4	577	66,167	10,323	5,057	50,581	196	597,902	578,044	19,858	1,187,755	50
2,937	1,297,724	76	16,763	74	15,567	401,158	10,840	146,008	236,863	7,447	3,061,387	3,010,859	50,528	5,958,136	51
930	501,182	75	23,520	6	702	214,950	22,264	10,564	162,676	19,446	1,480,476	1,404,508	75,968	2,729,783	52
888	433,132	84	18,424	18	1,805	93,540	4,720	23,937	55,232	9,651	1,404,661	1,358,057	46,604	2,672,163	53
559	226,987	25	5,149	2	224	39,425	3,822	7,223	28,012	368	584,465	580,620	3,845	1,069,225	54
2,898	1,284,175	69	16,864	18	2,946	371,878	12,768	85,603	272,832	670	3,795,892	3,781,308	14,584	6,635,883	55
247	113,922	2	510	1	100	22,458	2,131	3,092	13,585	3,650	240,484	216,795	23,689	568,045	56
288	99,406	3	486	------	------	8,851	269	3,020	5,562	------	213,629	212,656	973	433,177	57
571	211,245	31	4,367	7	1,090	57,038	11,224	6,111	39,403	300	774,104	751,620	22,484	1,304,911	58
755	319,952	50	9,367	14	2,091	117,374	5,601	8,343	79,671	23,759	1,050,484	1,039,670	10,814	1,827,077	59
231	84,861	2	612	4	1,152	28,108	1,452	6,860	19,796	------	587,196	586,920	276	833,073	60
4,106	1,576,456	561	113,561	160	22,542	516,518	17,449	52,830	427,623	18,616	4,032,528	3,778,608	253,920	7,438,285	61
98	41,530	9	2,025	2	216	11,748	2,581	2,658	6,509	------	310,769	308,117	2,652	444,180	62
1,602	657,771	411	84,221	8	1,239	173,894	15,662	15,296	137,487	5,449	3,115,461	3,060,124	55,337	4,889,777	63
415	145,164	23	5,702	20	2,601	31,139	3,566	5,351	22,062	160	515,552	511,738	3,814	920,973	64
150	65,778	7	1,275	2	256	14,048	669	2,488	10,891	------	195,545	195,066	479	382,892	65
184	83,355	------	------	1	150	26,668	270	5,676	20,722	------	334,755	334,632	123	530,755	66
615	250,821	24	5,572	8	1,746	49,056	4,614	6,360	27,982	10,100	719,905	713,282	6,623	1,323,424	67
101	30,104	------	------	------	------	630	------	480	150	------	94,734	94,734	------	131,021	68
279	114,330	16	4,572	------	------	27,319	1,029	7,437	18,853	------	325,893	324,781	1,112	588,122	69
2,188	781,611	123	30,596	104	16,179	205,409	8,411	20,217	175,511	1,270	3,231,131	3,183,548	47,583	5,051,165	70
475	218,312	2	502	1	100	23,951	535	7,995	15,351	70	294,945	292,939	2,006	705,808	71
104	45,045	------	------	10	2,379	5,390	------	991	4,399	------	171,028	170,968	60	272,200	72
5,185	2,145,934	552	108,687	89	22,479	692,325	56,452	52,582	562,754	20,537	7,655,313	7,526,729	128,584	12,908,064	73
2,917	1,366,224	297	72,098	23	2,788	307,141	34,652	22,351	239,033	11,105	3,125,801	2,976,438	149,363	6,027,378	74
1,026	405,648	151	35,118	5	768	113,238	14,341	10,032	73,484	15,381	1,652,994	1,618,395	34,599	2,706,893	75

TABLE 6.—MANUFACTURES

	COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
76	Sanilac	169	$390,151	$23,065	$76,049	$150,670	$140,367	194	13	$5,283	214	$73,929
77	Schoolcraft	30	3,921,101	1,203,198	192,062	492,383	2,033,458	31	79	62,512	747	377,671
78	Shiawassee	260	2,050,323	115,001	346,088	384,174	1,205,060	296	108	100,824	1,555	605,189
79	Tuscola	182	1,063,216	83,339	263,329	448,412	268,136	207	45	20,478	434	181,525
80	Van Buren	200	625,523	66,720	108,483	185,897	264,423	225	38	20,883	511	150,626
81	Washtenaw	535	3,006,003	281,973	527,344	966,023	1,230,663	607	192	133,615	2,249	838,797
82	Wayne	3,126	83,749,879	7,566,942	10,602,011	25,424,737	40,166,189	3,424	5,804	5,461,054	52,231	21,249,088
83	Wexford	126	3,931,865	1,310,062	174,391	704,327	1,743,085	158	51	40,098	1,403	613,954

TABLE 7.—MANUFACTURES BY

1	All industries	16,807	$284,097,133	$42,830,900	$35,243,987	$68,117,259	$137,904,987	18,680	13,858	$12,562,855	162,355	$66,467,867
2	Agricultural implements	59	8,932,344	271,764	627,208	604,075	7,429,297	60	620	548,763	1,944	952,636
3	Artificial limbs	3	8,325			3,650	4,675	4			10	6,450
4	Awnings, tents, and sails	25	119,615	8,730	10,900	12,104	87,881	27	16	7,837	115	45,534
5	Baking and yeast powders	10	41,320	6,100	10,060	10,000	15,160	10	22	8,944	33	12,300
6	Baskets, and rattan and willow ware	27	361,759	42,215	74,328	84,254	160,962	25	26	18,930	450	129,335
7	Belting and hose, leather	4	260,601	32,000	44,000	16,627	167,974	5	9	13,080	66	31,271
8	Bicycle and tricycle repairing	310	337,117	23,215	33,500	137,193	143,209	348	15	9,610	286	115,017
9	Bicycles and tricycles	11	757,021	6,900	44,893	117,513	587,715	4	53	39,643	311	141,639
10	Blacksmithing and wheelwrighting	1,830	1,670,763	326,285	492,368	326,806	531,304	2,023	2	1,000	1,391	760,581
11	Bookbinding and blank book making	31	267,191	5,300	11,425	61,419	189,047	37	17	9,588	195	62,813
12	Boots and shoes, custom work and repairing.	696	288,531	64,567	81,030	71,128	71,806	725	1	364	205	83,097
13	Boots and shoes, factory product	13	1,135,951	82,148	200,150	150,800	702,863	19	77	69,688	1,117	336,074
14	Bottling	53	123,397	21,742	37,360	19,517	44,778	57	4	1,872	81	35,492
15	Boxes, cigar	10	117,467	8,050	22,541	23,096	63,780	14	5	4,872	212	50,924
16	Boxes, fancy and paper	12	266,001	32,800	48,245	48,920	136,036	7	24	21,940	568	106,820
17	Boxes, wooden packing	46	1,441,522	158,587	148,976	303,187	830,772	40	66	57,936	1,268	388,683
18	Brass castings and brass finishing	23	1,113,110	25,996	122,351	278,794	685,969	23	68	91,017	852	358,959
19	Brassware	6	322,429	14,968	41,340	84,511	181,610	5	27	26,424	323	112,518
20	Bread and other bakery products	455	1,920,818	225,582	396,610	852,069	446,557	493	200	138,201	1,329	584,995
21	Brick and tile	177	1,497,347	477,012	258,957	322,078	439,300	220	52	29,943	1,443	479,786
22	Bridges	8	56,600	400	1,300	42,800	12,100	11	2	1,100	104	48,703
23	Brooms and brushes	49	297,261	23,432	29,785	43,416	200,628	56	27	23,039	467	126,013
24	Carpentering	524	1,105,196	124,750	156,345	192,247	631,854	606	52	30,470	3,117	1,635,252
25	Carpets, rag	62	57,256	14,420	18,690	14,154	9,992	69	5	2,060	81	22,938
26	Carriage and wagon materials	24	1,040,329	21,800	113,952	205,732	698,845	22	49	46,788	1,252	498,925
27	Carriages and sleds, children's	6	94,520	8,057	22,173	21,280	43,010	5	8	6,500	89	39,785
28	Carriages and wagons	299	7,935,269	640,144	944,508	509,651	5,840,966	326	401	352,498	4,890	2,028,530
29	Cars and general shop construction and repairs by steam railroad companies.	42	2,527,256	348,620	877,176	676,944	624,516		182	147,119	3,938	2,026,000
30	Cars and general shop construction and repairs by street railroad companies.	6	166,574	39,000	38,000	38,574	51,000		8	10,160	227	114,129
31	Cars, steam railroad, not including operations of railroad companies.	4	6,693,209	736,000	824,875	780,330	4,352,004		107	145,795	3,187	1,409,580
32	Charcoal	14	354,658	157,967	57,540	12,513	126,638	14	5	5,120	400	133,461
33	Cheese and butter, urban dairy products.	4	15,900	5,000	6,250	2,150	2,500	5			1	300
34	Cheese, butter, and condensed milk, factory product.	286	1,250,897	52,656	340,299	446,224	411,718	203	92	25,360	503	222,245
35	Chemicals	51	7,503,853	1,047,560	1,531,264	3,258,405	1,666,624	46	143	215,999	2,897	1,162,634
36	China decorating	5	1,852	150	150	327	1,225	5				
37	Cleansing and polishing preparations	3	2,585			260	2,325	6	1	300	5	2,900
38	Clothing, men's, custom work and repairing.	703	1,144,571	91,493	126,426	90,918	835,734	805	94	58,012	2,378	1,017,150
39	Clothing, men's, factory product	40	1,461,590	20,450	46,880	130,248	1,264,012	49	133	125,731	2,008	501,646
40	Clothing, women's, dressmaking	367	257,287	23,555	58,659	39,900	135,173	415	31	28,255	1,488	350,778
41	Clothing, women's, factory product	31	599,194	8,750	22,600	100,945	466,899	43	120	122,499	1,540	391,623
42	Coffee and spice, roasting and grinding	4	60,113		2,000	11,059	47,054	4	8	6,194	34	12,170
43	Coffins, burial cases, and undertakers' goods.	18	673,166	62,265	36,781	88,833	435,287	18	57	54,620	380	165,971
44	Confectionery	113	776,551	38,660	72,925	166,044	498,922	134	137	79,626	748	215,780
45	Cooperage	109	1,168,741	196,202	169,674	241,009	561,856	118	38	36,300	1,446	538,144
46	Copper, smelting and refining	3	1,523,407	35,000	1,096,107	196,307	195,993	1	17	25,500	462	364,647
47	Corsets	14	1,260,843	22,000	51,315	125,741	1,061,787	10	148	151,386	1,489	375,618
48	Cutlery and edge tools	8	94,400	9,250	23,150	26,350	35,650	8	9	8,940	103	38,710
49	Druggists' preparations, not including prescriptions.	10	2,951,503	123,526	374,210	481,058	1,972,709	6	563	544,755	1,588	546,258
50	Dyeing and cleaning	50	82,205	10,300	12,700	24,320	34,885	59	5	2,958	90	32,073
51	Electrical apparatus and supplies	12	547,319	12,800	43,472	104,907	386,140	9	29	28,962	184	86,188
52	Electrical construction and repairs	27	156,271		500	28,450	127,321	27	43	32,418	324	135,452
53	Electroplating	13	28,505	2,500	4,100	15,400	6,505	18	18	11,026	65	25,985
54	Emery wheels	4	90,074	11,450	11,000	18,922	48,702	1	15	9,991	57	34,405
55	Engraving and diesinking	5	1,350			785	565	5			4	1,051
56	Engraving, wood	4	3,200			1,500	1,700	7	1	1,200	2	1,162

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
176	$66,490	21	$5,304	17	$2,135	$15,382	$2,886	$2,893	$9,653	----------	$553,705	$537,610	$16,095	$827,163	76
738	375,480	6	1,646	3	445	154,079	1,765	36,735	114,329	$1,250	997,147	988,879	8,268	1,902,786	77
1,345	563,890	164	34,516	46	6,783	135,365	13,722	10,845	109,637	1,161	1,701,391	1,674,178	27,213	2,877,799	78
384	171,346	49	10,030	1	149	24,402	3,493	4,072	16,669	168	788,972	763,617	25,355	1,260,414	79
354	124,267	123	22,174	34	4,185	29,126	6,142	3,860	18,554	570	735,205	719,881	15,324	1,131,984	80
1,637	711,202	601	126,207	11	1,388	337,678	41,699	18,343	167,410	110,226	2,650,999	2,605,249	45,750	4,778,190	81
40,155	18,650,132	10,742	2,419,712	1,334	179,244	11,672,607	842,162	471,009	9,516,459	842,977	58,131,550	56,162,546	1,969,004	111,868,788	82
1,343	600,854	48	11,123	12	1,977	129,204	4,957	40,251	83,996	----------	2,015,879	2,008,807	7,072	3,321,775	83

SPECIFIED INDUSTRIES: 1900.

136,627	$60,835,081	23,092	$5,239,149	2,636	$393,637	$25,495,423	$1,802,993	$1,835,198	$20,058,714	$1,798,518	$199,559,905	$194,282,961	$5,276,944	$356,944,082	1
1,939	951,213	4	1,273	1	150	1,329,530	2,503	32,129	1,258,627	36,271	2,482,235	2,429,712	52,523	6,339,508	2
10	6,450	------	------	------	------	2,249	1,360	39	850	----------	2,110	1,620	490	19,031	3
71	33,250	43	12,128	1	156	13,775	4,591	697	8,287	200	118,907	117,677	1,230	216,997	4
20	9,015	13	3,285	------	------	8,909	1,864	98	6,947	----------	32,974	32,337	637	83,892	5
354	111,487	64	13,585	32	4,263	16,236	513	3,140	12,583	----------	137,270	136,059	1,211	357,204	6
61	29,950	5	1,321	------	------	16,973	2,840	1,928	12,205	----------	297,784	294,812	2,972	394,272	7
276	113,514	------	------	10	1,503	44,536	29,328	1,911	11,432	1,865	237,061	228,576	8,485	601,832	8
294	138,457	17	3,182	------	------	59,485	2,693	1,353	49,501	5,938	345,725	338,590	7,135	627,658	9
1,384	759,136	------	------	7	1,445	98,073	60,761	13,086	23,050	1,176	876,974	803,177	73,797	3,022,876	10
101	41,547	89	20,611	5	655	24,506	5,265	678	9,062	9,501	86,168	84,793	1,375	235,056	11
201	82,522	2	250	2	325	40,562	33,251	2,047	4,970	294	221,906	213,971	7,935	639,992	12
691	272,308	417	112,634	9	1,132	200,504	3,455	4,385	192,404	260	1,163,863	1,155,811	8,052	1,915,179	13
80	35,252	------	------	1	240	15,067	4,113	1,693	9,261	----------	226,561	225,463	1,098	329,345	14
69	23,506	121	23,227	22	4,191	26,206	1,461	817	23,928	----------	82,888	81,124	1,764	187,873	15
95	31,269	373	62,719	100	12,832	16,129	5,985	1,813	8,331	----------	142,246	137,941	4,305	357,964	16
1,124	359,523	49	11,768	95	17,392	87,842	3,854	7,957	75,971	60	1,464,176	1,458,462	5,714	2,287,495	17
846	358,159	------	------	6	800	106,845	8,205	6,413	91,167	1,060	968,244	952,995	15,249	1,730,273	18
273	102,892	48	9,063	2	563	35,946	179	1,310	33,857	600	151,026	145,289	5,737	418,103	19
1,075	532,563	212	45,251	42	7,181	228,135	73,572	12,900	141,463	200	2,253,154	2,180,593	72,561	4,098,128	20
1,396	472,170	19	3,277	28	4,389	55,197	12,088	6,672	36,062	375	238,556	42,586	195,970	1,135,569	21
104	48,703	------	------	------	------	2,359	324	236	1,799	----------	76,855	72,898	3,957	148,498	22
254	98,708	199	25,895	14	1,410	30,166	4,886	2,443	22,837	----------	264,872	261,565	3,307	540,585	23
3,113	1,634,580	2	317	2	355	549,522	12,740	5,821	46,147	484,814	2,940,232	2,931,504	8,728	6,071,740	24
49	16,540	31	6,270	1	128	4,554	2,953	240	1,361	----------	16,447	14,599	1,848	87,796	25
1,240	495,918	2	675	10	2,332	77,369	7,420	4,303	65,546	100	960,664	941,970	18,694	1,767,298	26
86	38,885	3	900	------	------	6,392	410	699	5,283	----------	46,416	45,664	752	111,749	27
4,755	1,986,932	130	40,703	5	895	495,520	24,902	37,714	386,694	46,210	6,616,081	6,528,080	88,001	11,205,602	28
3,934	2,024,760	4	1,240	------	------	39,642	300	1,827	33,572	3,943	2,120,166	2,046,845	73,321	4,332,927	29
227	114,129	------	------	------	------	17,021	----------	2,773	856	13,392	157,621	154,121	3,500	298,931	30
3,187	1,409,580	------	------	------	------	227,774	----------	34,023	191,751	2,000	7,272,761	7,178,371	94,390	9,920,780	31
400	133,461	------	------	------	------	1,910	200	895	595	220	168,237	168,237	----------	370,356	32
1	300	------	------	------	------	213	110	92	11	----------	12,225	12,011	214	17,964	33
392	186,596	109	35,328	2	321	37,001	3,424	6,367	27,085	125	3,274,264	3,225,543	48,721	3,918,995	34
2,851	1,155,673	46	6,961	------	------	503,732	3,085	25,674	471,183	3,790	2,707,464	1,868,758	838,706	5,364,724	35
------	------	------	------	------	------	418	364	12	42	----------	1,621	1,449	172	5,175	36
5	2,900	------	------	------	------	1,091	516	----------	575	----------	5,845	5,800	45	17,500	37
1,456	774,321	900	239,747	22	3,082	236,098	128,527	7,810	72,949	26,812	1,379,189	1,360,970	18,219	3,622,840	38
324	174,879	1,664	324,185	20	2,582	234,687	25,095	7,265	119,696	82,631	1,738,145	1,727,445	10,700	2,990,103	39
32	30,151	1,445	319,495	11	1,132	61,111	40,876	1,870	17,333	1,032	428,799	421,439	7,360	1,141,849	40
153	68,463	1,383	322,272	4	888	155,264	11,710	3,072	124,471	16,011	1,219,429	1,210,437	8,992	2,194,078	41
21	9,846	12	2,168	1	156	7,380	2,200	665	4,515	----------	164,685	162,165	2,520	222,198	42
320	154,945	46	9,151	14	1,875	58,299	3,962	6,269	24,268	23,800	363,153	357,828	5,325	790,743	43
365	142,756	381	72,674	2	350	129,039	49,281	4,885	74,873	----------	998,490	981,165	17,325	1,723,815	44
1,394	525,530	13	7,720	39	4,894	62,395	1,519	7,337	53,539	----------	899,576	894,400	5,176	1,779,231	45
462	364,647	------	------	------	------	33,685	----------	6,705	26,980	----------	16,754,220	16,626,740	127,480	17,340,041	46
149	66,609	1,335	308,309	5	700	184,260	11,228	3,893	169,139	----------	705,982	698,837	7,145	1,702,683	47
93	37,078	9	1,332	1	300	7,930	515	820	6,595	----------	36,471	33,181	3,290	120,030	48
601	275,260	972	270,128	15	875	1,038,536	13,932	31,053	993,551	----------	1,998,238	1,983,417	14,821	4,921,913	49
47	21,826	43	10,247	------	------	13,820	10,274	609	2,862	75	14,227	11,312	2,915	120,372	50
170	81,269	11	4,513	3	406	38,314	3,024	1,451	30,239	3,600	182,452	178,881	3,571	438,144	51
323	135,156	1	296	------	------	90,882	7,908	684	24,656	57,634	318,613	317,573	1,040	673,385	52
63	25,123	2	862	------	------	3,153	2,108	173	872	----------	8,684	6,525	2,159	70,227	53
57	34,405	------	------	------	------	1,554	140	294	1,120	----------	74,335	71,439	2,896	142,047	54
2	803	------	------	2	248	566	536	----------	30	----------	75	75	----------	6,050	55
2	1,162	------	------	------	------	557	474	----------	83	----------	437	423	14	9,200	56

TABLE 7.—MANUFACTURES BY

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
57	Explosives	5	$351,930	$9,680	$47,200	$50,598	$244,452	1	24	$12,580	113	$66,282
58	Fancy articles, not elsewhere specified	6	9,916	25	275	3,525	6,091	3	3	700	104	13,335
59	Fish, canning and preserving	4	6,800	700	1,850	250	4,000	6			19	7,961
60	Flavoring extracts	6	71,175			7,075	64,100	8	14	8,868	36	13,440
61	Flax, dressed	4	71,496	2,350	17,150	9,700	42,296	8	12	6,589	211	46,000
62	Flouring and grist mill products	765	7,933,587	1,195,394	1,530,139	2,832,239	2,375,815	979	205	153,461	1,423	718,499
63	Food preparations	25	796,742	44,210	116,130	149,469	486,933	22	99	54,645	373	143,257
64	Foundry and machine shop products	364	19,595,771	1,581,331	2,723,355	4,393,442	10,897,643	351	1,248	1,215,199	13,502	6,527,496
65	Fruits and vegetables, canning and preserving.	98	898,668	91,603	204,315	146,649	456,101	122	70	45,279	1,165	240,102
66	Fur goods	28	628,660	21,960	27,100	29,245	550,355	38	98	69,063	588	225,759
67	Furnishing goods, men's	4	81,942			28,243	53,699	4	16	12,024	133	23,837
68	Furniture, cabinetmaking, repairing, and upholstering.	172	210,835	19,160	31,810	36,600	123,265	206	18	6,070	219	97,934
69	Furniture, factory product	124	13,900,789	809,820	2,520,618	1,522,303	9,048,048	85	754	824,329	11,870	4,570,713
70	Furs, dressed	9	110,715	2,300	6,500	11,925	89,990	12	12	13,700	115	50,299
71	Gas, illuminating and heating	38	16,295,053	440,963	800,244	14,363,428	690,418		227	142,307	658	293,976
72	Gas machines and meters	5	35,650	500	200	6,550	28,400	7	3	4,500	52	16,802
73	Glass, cutting, staining, and ornamenting.	6	22,968	500	1,500	6,957	14,011	8	1	550	48	19,726
74	Gloves and mittens	5	29,241			2,180	27,061	5	3	700	38	12,206
75	Grease and tallow	6	74,446	29,800	15,980	16,471	12,195	7	3	2,300	20	8,870
76	Hairwork	11	15,760	800	1,000	460	13,500	11			23	5,212
77	Hand stamps	8	15,592			8,710	6,882	9	4	2,184	15	5,175
78	Hardware	11	559,153	41,408	81,369	127,939	307,937	4	30	32,333	417	125,627
79	Hats and caps, not including fur hats and wool hats.	9	161,956	3,000	20,000	25,228	113,728	14	22	23,710	220	80,190
80	Hosiery and knit goods	32	2,135,916	90,922	194,090	495,552	1,355,352	4	201	187,574	2,509	580,129
81	House furnishing goods, not elsewhere specified.	8	845,175	56,639	53,825	136,147	598,564	4	63	74,562	586	190,906
82	Instruments, professional and scientific	6	9,300	1,000	1,000	2,800	4,500	5	3	1,725	14	5,976
83	Iron and steel	10	3,859,050	256,687	569,186	655,820	2,377,357		72	95,076	1,972	941,091
84	Ironwork, architectural and ornamental.	9	702,081	20,000	50,000	269,406	362,675	9	38	46,710	519	257,763
85	Jewelry	5	24,060			11,520	12,540	7			23	17,450
86	Leather goods	5	96,014	3,500	4,000	30,780	57,734	2	16	7,438	112	29,462
87	Leather, tanned, curried, and finished	27	5,214,042	204,447	638,179	471,193	3,900,223	19	72	95,507	1,427	559,142
88	Lime and cement	20	3,157,906	1,031,817	557,574	1,218,993	349,522	15	90	94,086	542	231,098
89	Liquors, malt	77	6,235,484	674,609	1,806,812	1,820,343	1,933,720	49	242	297,150	980	599,319
90	Liquors, vinous	5	53,700	500	2,200	9,000	42,000	5	5	2,085	5	1,975
91	Lithographing and engraving	3	337,296			199,052	138,244		40	49,230	343	149,110
92	Lock and gun smithing	42	46,522	9,170	8,660	16,675	12,017	44			31	15,119
93	Looking-glass and picture frames	67	330,535	19,067	52,366	34,076	225,026	78	35	40,404	287	112,525
94	Lumber and timber products	1,705	67,379,698	24,979,990	2,867,280	9,813,801	29,718,627	2,161	1,207	1,206,765	26,199	11,122,030
95	Lumber, planing mill products, including sash, doors, and blinds.	235	8,571,453	622,037	829,850	1,171,169	5,948,397	288	371	343,115	5,281	2,012,754
96	Malt	4	1,236,655	215,500	338,180	87,500	600,475	2	8	10,669	53	31,870
97	Marble and stone work	39	322,086	68,375	23,605	49,223	180,883	51	9	3,932	277	182,868
98	Masonry, brick and stone	163	433,197	51,375	29,225	61,401	291,196	207	34	28,133	1,788	915,697
99	Matches	3	899,952	89,500	207,000	356,000	247,452		15	26,812	639	155,836
100	Mattresses and spring beds	20	209,874	12,680	35,600	37,468	124,126	22	33	26,734	236	91,135
101	Millinery, custom work	705	867,041	75,335	140,542	41,745	609,419	783	87	29,005	1,306	313,794
102	Mineral and soda waters	75	336,002	52,400	50,500	129,039	104,063	93	25	13,238	164	67,227
103	Mirrors	5	170,781	8,400	19,833	30,896	111,652	1	27	25,040	127	58,111
104	Models and patterns	9	89,010			15,550	73,460	12	18	18,979	135	68,840
105	Monuments and tombstones	97	400,959	54,387	42,330	41,452	262,790	121	32	19,892	263	154,689
106	Mucilage and paste	4	7,450	100	700	2,050	4,600	7	1	624	11	2,700
107	Musical instruments and materials, not specified.	5	52,918	700	600	12,183	39,435	6	1	920	33	15,371
108	Musical instruments, organs and materials.	4	538,354	4,300	21,752	34,830	477,472	2	34	40,509	242	93,330
109	Musical instruments, pianos and materials.	7	673,818	18,250	64,933	50,069	540,566	2	29	28,502	518	284,780
110	Oil, essential	22	227,496	88,246	57,390	25,010	56,850	28	13	9,290	97	28,667
111	Optical goods	8	205,948	60,000	15,000	15,896	115,052	6	32	25,020	175	49,030
112	Painting, house, sign, etc	404	479,912	44,705	62,945	64,449	307,813	501	66	30,515	1,408	706,875
113	Paints	13	1,559,545	111,299	230,969	159,674	1,057,603	4	183	135,265	384	129,690
114	Paper and wood pulp	27	4,505,741	350,219	973,918	1,660,725	1,520,879	9	107	142,812	2,014	700,826
115	Paper goods, not elsewhere specified	3	161,215	15,231	16,532	53,759	75,693	1	18	16,140	136	36,331
116	Paper hanging	31	39,995	1,150	8,850	5,421	24,574	38	5	858	133	61,553
117	Patent medicines and compounds	83	1,500,562	46,641	159,408	175,301	1,119,212	87	282	242,963	540	194,292
118	Paving and paving materials	113	854,537	258,090	118,566	144,867	333,014	137	53	48,558	1,660	727,262
119	Perfumery and cosmetics	12	253,599	10,000	25,000	23,535	195,064	8	101	67,355	188	44,227
120	Photography	337	619,709	40,060	85,130	199,610	294,909	371	50	31,995	369	149,652
121	Photolithographing and photoengraving.	8	52,920			19,640	33,280	8	13	9,660	82	39,110
122	Pickles, preserves, and sauces	16	192,962	13,425	39,525	36,161	103,851	12	40	48,077	216	61,892
123	Plastering and stuccowork	39	50,536	4,125	7,200	12,190	27,021	44	11	7,715	201	111,566
124	Plumbers' supplies	13	434,290	13,575	42,971	110,993	266,751	5	55	50,231	557	222,718
125	Plumbing, and gas and steam fitting	295	868,610	62,475	88,400	130,508	587,227	378	89	38,884	1,260	640,195
126	Pottery, terra cotta, and fire-clay products.	9	280,185	44,300	83,399	63,336	89,150	5	16	13,150	149	51,144

SPECIFIED INDUSTRIES: 1900—Continued.

Average number of wage-earners and total wages—continued.						Miscellaneous expenses.					Cost of materials used.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
108	$64,749	5	$1,533			$19,833	$200	$1,183	$14,250	$4,200	$501,584	$491,853	$6,731	$691,766	57
7	1,400	97	11,935			2,929	875	18	536	1,500	4,906	4,606	300	29,495	58
18	7,886			1	$75	1,318	100	51	1,077	90	52,949	52,272	677	65,077	59
21	9,720	15	3,720			16,435	2,275	205	13,955		76,296	75,891	405	129,865	60
177	41,560	9	2,100	25	2,340	2,481	324	361	1,796		91,032	91,032		158,650	61
1,417	717,354	1	255	5	890	396,484	33,678	67,392	286,380	9,034	19,924,980	19,724,911	200,069	23,593,991	62
255	116,268	117	26,839	1	150	354,152	969	3,225	349,958		677,875	640,529	37,346	1,891,516	63
13,274	6,485,120	93	18,700	135	23,676	1,540,950	67,331	92,695	1,316,611	64,313	8,222,862	7,894,642	328,220	20,615,864	64
378	121,412	565	95,054	222	23,636	123,514	7,381	3,731	112,368	34	1,154,698	1,132,056	22,642	1,760,875	65
204	117,221	377	107,338	7	1,200	69,944	20,206	3,347	45,391	1,000	1,176,392	1,172,835	3,557	1,806,004	66
18	5,804	115	18,033			4,324	3,203	200	921		55,638	54,735	903	170,700	67
192	92,175	20	4,807	7	952	27,019	16,454	1,420	7,475	1,670	182,025	178,351	3,674	438,445	68
11,519	4,511,568	88	21,108	263	38,037	875,069	34,375	82,032	754,162	4,500	6,727,378	6,600,480	126,898	14,614,506	69
56	26,816	58	23,058	1	425	5,063	856	467	3,740		192,840	191,202	1,638	293,896	70
657	293,672	1	304			380,397	1,300	65,345	313,752		298,321	269,774	28,547	1,472,737	71
48	16,182	4	620			3,598	1,235	126	2,161	76	28,942	28,218	724	63,400	72
45	18,736	3	990			4,766	2,345	277	2,144		20,602	20,126	476	65,064	73
9	4,148	27	7,746	2	312	1,762	1,160	72	530		27,980	27,567	413	54,850	74
20	8,870					8,508	1,920	491	6,097		57,982	56,123	1,859	86,827	75
		23	5,212			6,570	4,020	59	2,491		12,248	11,932	316	32,945	76
9	4,383	1	168	5	624	2,980	1,910	73	917	50	7,110	6,988	122	23,815	77
352	115,887	50	7,886	15	1,854	37,742	1,518	2,651	32,823	750	291,767	285,847	5,920	554,359	78
102	56,550	117	23,462	1	178	11,317	3,898	526	6,893		187,170	184,860	2,310	366,712	79
498	172,085	1,873	391,345	138	16,699	265,124	10,227	9,912	209,852	35,133	1,459,378	1,429,230	30,148	2,791,257	80
548	182,905	38	8,001			95,597	838	5,088	89,176	500	422,224	418,196	4,028	970,003	81
13	5,816	1	160			1,242	712	30	500		3,245	2,935	310	19,934	82
1,972	941,091					277,827	4,000	31,342	236,101	6,384	3,770,213	2,874,579	895,634	5,902,058	83
513	256,283	1	480	5	1,000	30,732	4,112	3,911	12,709	10,000	569,889	562,139	7,750	1,017,077	84
23	17,450					3,265	2,463	75	727		15,439	15,131	308	46,200	85
66	22,394	40	5,816	6	1,252	5,986	755	177	5,054		72,827	72,340	487	147,697	86
1,425	558,498			2	644	248,297	800	30,881	216,616		4,697,367	4,671,213	26,154	6,015,590	87
537	230,845	4	193	1	60	87,811	932	8,433	77,226	1,250	357,782	240,628	117,154	1,070,145	88
955	591,186	25	8,133			2,402,652	51,767	61,076	2,289,809		1,187,770	1,075,084	112,686	5,296,825	89
5	1,975					1,400	360	330	710		6,878	6,826	52	15,109	90
258	132,583	85	16,527			65,886	7,919	2,728	41,667	13,572	153,053	150,879	2,174	469,775	91
28	14,141	2	614	1	364	5,258	4,173	350	735		13,406	12,445	961	59,229	92
234	100,776	48	11,125	5	624	24,674	12,708	2,764	9,202		215,605	213,377	2,228	487,838	93
25,685	11,013,076	252	54,381	202	54,570	2,328,961	41,114	645,059	1,629,188	13,600	29,439,931	29,431,569	8,362	54,290,520	94
5,121	1,978,713	33	7,280	127	26,761	509,357	29,562	51,432	405,593	22,770	8,341,884	8,290,218	51,616	12,469,532	95
53	31,870					25,486		4,747	20,739		605,451	587,452	17,999	741,436	96
277	182,868					48,365	3,166	2,440	13,659	29,100	279,215	273,664	5,551	610,095	97
1,786	915,497			2	200	296,510	2,956	3,414	18,628	271,512	1,343,233	1,340,335	2,898	3,053,541	98
296	90,453	218	46,633	125	18,750	133,497		3,686	129,811		1,042,554	1,039,854	2,700	1,745,030	99
169	74,523	64	16,183	3	429	32,324	3,414	1,486	27,424		332,025	328,046	3,979	540,966	100
4	2,265	1,290	310,136	12	1,393	175,045	120,874	8,321	45,742	108	1,269,208	1,256,569	12,639	2,343,306	101
149	63,722	4	1,310	11	2,195	25,583	7,412	2,425	15,746		132,076	128,248	3,828	392,735	102
116	51,522	2	475	9	1,114	5,522	2,400	838	2,284		133,985	132,124	1,861	232,712	103
130	67,280	5	1,560			5,055	3,944	307	804		43,885	42,034	1,851	174,700	104
263	154,689					33,951	5,439	2,519	15,708	10,285	376,854	372,957	3,897	780,396	105
8	2,200	3	500			810	372	172	266		10,781	10,691	90	19,111	106
31	14,747	2	624			6,107	1,205	70	3,209	1,623	6,385	5,900	485	37,710	107
238	91,950	2	600	2	780	76,987	4,726	2,099	70,162		188,745	185,647	3,098	403,053	108
480	272,984	38	11,796			47,186	5,929	2,981	38,276		285,301	277,305	7,996	776,789	109
93	28,032	3	560	1	75	7,368	10	1,376	5,982		124,803	122,807	1,996	208,568	110
85	31,957	55	11,248	35	5,825	14,196	2,330	1,755	10,036	75	112,190	111,067	1,123	228,147	111
1,402	705,925	2	365	4	585	65,266	35,537	3,213	25,599	917	566,185	562,533	3,652	1,802,260	112
293	111,194	80	16,837	11	1,659	220,482	5,504	7,325	207,653		1,153,783	1,142,053	11,730	1,826,742	113
1,534	608,722	479	91,823	1	281	264,373	3,420	24,957	209,030	26,966	2,707,827	2,441,512	266,315	4,217,869	114
27	11,759	109	24,572			62,162	600	1,341	60,221		59,531	57,752	1,779	202,008	115
132	61,167	1	386			5,744	3,068	237	2,439		54,976	54,737	239	157,561	116
228	113,589	302	79,518	10	1,185	393,783	11,330	6,322	358,566	17,515	662,391	652,475	9,916	1,913,934	117
1,653	726,244			7	1,018	48,797	6,091	3,615	25,183	13,908	874,862	862,380	12,482	2,012,445	118
36	13,709	151	30,418	1	100	72,761	6,525	2,762	63,474		238,654	237,356	1,298	542,495	119
219	110,723	146	38,322	4	607	94,471	52,779	3,445	37,191	1,056	274,497	264,929	9,568	889,073	120
30	38,198	2	912			12,121	2,871	182	9,068		12,942	10,622	2,320	97,735	121
92	39,579	120	21,732	4	581	27,538	5,467	1,576	20,495		614,421	607,252	7,169	831,988	122
194	110,190	7	1,376			15,704	2,497	412	5,181	7,614	90,666	89,617	1,049	270,870	123
506	211,468	51	11,250			100,269	4,825	3,643	91,801		538,971	523,892	15,079	1,017,911	124
1,248	638,369	6	1,012	6	814	87,582	46,784	6,282	34,166	350	1,430,100	1,417,326	12,774	2,746,904	125
1.6	50,884			3	260	10,647	1,715	2,688	6,241		36,771	8,240	28,531	145,021	126

TABLE 7.—MANUFACTURES BY

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
127	Printing and publishing, book and job	201	$2,648,103	$23,475	$71,396	$1,522,565	$1,030,667	233	506	$221,077	1,571	$676,138
128	Printing and publishing, newspapers and periodicals.	591	4,114,760	176,957	352,416	2,083,949	1,501,438	644	886	685,533	2,916	1,302,493
129	Pumps, not including steam pumps	11	17,880	2,300	3,405	5,300	6,875	14			17	6,644
130	Refrigerators	9	1,608,190	94,700	280,200	233,635	999,655	6	38	46,101	963	314,280
131	Regalia and society banners and emblems.	6	59,011			6,606	52,405	6	12	8,775	99	30,860
132	Roofing and roofing materials	34	325,207	53,849	36,802	51,782	182,774	46	25	27,694	224	98,705
133	Rubber and elastic goods	3	34,172	898	2,572	4,544	26,158	2	7	4,104	18	7,356
134	Saddlery and harness	543	1,157,900	120,412	228,524	107,914	701,050	601	34	20,155	757	342,166
135	Salt	53	4,759,865	280,432	884,128	1,067,072	2,528,233	29	91	87,249	1,449	619,383
136	Sausage	5	30,500	7,000	13,500	4,300	5,700	9	1	208	17	7,399
137	Saws	9	108,845	10,310	16,922	30,974	50,639	14	4	3,400	51	28,120
138	Scales and balances	3	102,625	4,000	20,000	28,225	50,400	3	15	5,210	33	15,758
139	Sewing machine repairing	7	2,220			460	1,760	9	1	182	1	409
140	Ship and boat building, wooden	51	805,855	149,965	252,956	118,545	284,389	53	32	26,368	1,120	474,521
141	Shipbuilding, iron and steel	3	3,087,164	703,115	729,017	803,403	851,629		41	50,020	1,796	869,366
142	Shirts	14	558,483			76,621	481,862	16	58	41,516	462	149,725
143	Show cases	4	42,265		500	9,340	32,425	6	4	3,722	58	33,375
144	Slaughtering and meat packing, wholesale.	8	1,265,151	123,945	166,040	100,771	874,395	11	63	57,741	375	186,473
145	Slaughtering, wholesale, not including meat packing.	21	173,200	30,750	41,025	18,625	82,800	18	8	8,920	81	44,164
146	Soap and candles	12	565,151	36,800	98,998	142,828	286,525	9	47	32,338	122	49,435
147	Sporting goods	6	16,748	3,000	4,500	5,798	3,450	6			27	7,940
148	Springs, steel, car and carriage	5	368,093	18,926	48,659	135,574	164,934		16	15,781	351	158,661
149	Stamped ware	4	202,861	3,010	6,136	57,813	135,902		10	5,976	70	22,022
150	Starch	4	408,921	74,911	102,188	132,050	99,772		35	35,730	83	30,166
151	Steam fittings and heating apparatus	13	2,031,613	105,000	433,041	548,338	945,234	12	111	144,181	1,257	616,383
152	Stereotyping and electrotyping	3	17,000			11,500	5,500	4	3	726	19	8,530
153	Sugar and molasses, beet	9	4,013,743	143,036	925,980	2,414,349	530,378		118	101,693	473	216,704
154	Sugar and molasses, refining	3	4,725	700	900	3,000	125	4			3	920
155	Surgical appliances	9	11,805	125	1,000	2,680	8,000	14	45	8,800	28	6,977
156	Taxidermy	3	1,275			275	1,000	3			2	317
157	Tinsmithing, coppersmithing, and sheet-iron working.	467	1,120,878	116,024	223,682	284,019	497,153	549	62	52,434	1,091	475,705
158	Tobacco, chewing, smoking, and snuff	8	894,400	49,611	192,295	152,406	500,088	8	156	202,689	1,173	322,817
159	Tobacco, cigars and cigarettes	600	1,957,635	78,932	119,587	86,978	1,672,138	674	207	196,321	4,109	1,446,238
160	Tools, not elsewhere specified	18	202,848	4,650	21,150	73,544	103,504	19	20	23,107	214	81,482
161	Toys and games	3	61,630	1,500	6,500	8,035	45,595	4	2	2,200	90	40,389
162	Trunks and valises	6	200,482	2,000	8,000	13,955	176,527	8	29	29,466	233	87,957
163	Umbrellas and canes	7	40,322			3,291	37,031	7	8	5,728	86	20,705
164	Upholstering materials	5	74,987	2,892	12,541	17,550	42,004	4	7	4,130	76	27,009
165	Varnish	4	934,370	28,500	167,837	53,796	684,237	10	65	150,400	106	49,416
166	Vinegar and cider	106	335,064	24,205	84,252	128,144	98,463	130	5	3,990	137	40,927
167	Washing machines and clothes wringers.	8	58,207	5,550	13,650	11,966	27,041	5	10	5,139	61	21,211
168	Watch, clock, and jewelry repairing	438	339,699	33,865	51,605	117,967	136,762	467	3	801	287	148,446
169	Windmills	6	64,149	8,750	5,200	9,878	40,321	7	7	5,484	47	14,947
170	Window shades	5	115,670	7,000	26,000	23,720	58,950	10	10	10,276	82	32,700
171	Wirework, including wire rope and cable.	31	990,916	61,136	118,813	144,901	666,066	34	129	91,813	597	237,587
172	Wood, turned and carved	56	787,066	68,631	160,984	284,763	272,688	59	46	49,781	918	305,558
173	Woodenware, not elsewhere specified	11	211,253	30,100	49,320	78,363	53,470	5	12	9,412	229	75,263
174	Woolen goods	16	775,609	14,200	111,933	187,285	462,186	16	23	18,099	337	108,168
175	All other industries[1]	100	4,013,537	323,388	511,520	1,056,424	2,122,205	89	231	224,057	2,739	929,997

[1] Embraces ammunition, 2; artificial feathers and flowers, 2; babbitt metal and solder, 2; bags, paper, 2; bells, 1; billiard tables and materials, 2; blacking, 2; bluing, 1; boot and shoe uppers, 1; brass and copper, rolled, 1; butter, reworking, 1; buttons, 2; calcium lights, 1; carpets, wood, 2; clocks, 2; cloth, sponging and refinishing, 1; clothing, men's, factory product, buttonholes, 1; cordage and twine, 1; cordials and sirups, 1; dentists' materials, 2; dye stuffs and extracts, 1; enameling and enameled goods, 2; engravers' materials, 1; engraving, steel, including plate printing, 1; envelopes, 1; felt goods, 1; fertilizers, 1; files, 2; firearms, 1; flags and banners, 2; gas and oil stoves, 1; glass, 1; glue, 1; graphite and graphite refining, 2; grindstones, 2; hand knit goods, 1; hooks and eyes, 2; ink, printing, 1; ink, writing, 2; iron and steel, bolts, nuts, washers, and rivets, 1; ivory and bone work, 1; kaolin and other earth grinding, 1; kindling wood, 1; labels

TABLE 8.—MANUFACTURES IN CITIES

BAY CITY.

1	All industries	376	$5,645,525	$365,503	$633,736	$1,106,111	$3,540,175	403	233	$201,312	3,307	$1,466,328
2	Bicycle and tricycle repairing	9	7,220	150	600	3,438	3,032	9			8	3,904
3	Blacksmithing and wheelwrighting	23	15,587	5,650	3,075	3,467	3,395	24			15	8,000
4	Boots and shoes, custom work and repairing.	25	15,356	4,510	6,590	2,090	2,166	25			8	3,208
5	Bottling	6	17,625	2,700	4,450	2,360	8,115	6			13	5,440
6	Bread and other bakery products	14	83,655	5,050	9,655	44,731	24,219	18	7	4,197	40	13,867
7	Bridges	3	18,500			14,000	4,500	4	2	1,100	24	12,850
8	Carpentering	31	34,974	5,535	9,505	11,191	8,743	36	3	1,824	132	70,675
9	Carriages and wagons	6	11,475	1,000	1,625	1,875	6,975	8			15	7,083
10	Clothing, men's, custom work and repairing.	26	57,590	2,355	2,285	4,203	48,747	29	7	4,368	121	50,247
11	Clothing, women's, dressmaking	9	7,320	200	650	1,653	4,817	11	1	1,000	57	14,656

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
1,164	$589,822	367	$81,103	40	$5,213	$227,672	$66,684	$10,122	$85,476	$65,390	$677,823	$651,065	$26,758	$2,365,030	127
2,186	1,126,223	553	154,227	177	22,043	591,407	80,168	27,488	385,632	98,119	1,023,853	959,346	64,507	5,119,740	128
17	6,644					1,358	280	111	967		12,376	11,979	397	31,837	129
946	310,720	2	1,000	15	2,560	95,992		6,529	89,463		716,107	706,907	9,200	1,425,876	130
27	13,312	72	17,548			11,570	3,320	105	5,395	2,750	95,065	94,673	392	179,214	131
222	98,087	2	618			47,020	1,648	1,763	40,915	2,694	263,409	260,341	3,068	582,402	132
13	6,512	5	844			5,530	70	79	5,381		25,116	24,424	692	45,651	133
733	336,726	19	4,295	5	1,145	87,742	43,987	11,995	31,441	319	1,077,984	1,062,653	15,331	1,994,300	134
1,340	595,041	71	16,027	38	8,315	198,915	650	29,217	140,548	23,500	1,095,780	821,725	274,055	2,460,538	135
17	7,399					1,410	540	100	770		85,363	84,178	1,185	112,226	136
51	28,120					5,774	1,090	1,049	3,635		48,684	45,458	3,226	112,863	137
32	15,613			1	145	15,244	500	248	14,496		28,294	27,396	898	78,885	138
1	409					1,033	818	8	207		2,737	2,637	100	7,141	139
1,116	473,291	4	1,230			99,868	6,463	11,058	45,434	36,913	543,535	538,776	4,759	1,402,898	140
1,796	869,366					109,687	1,275	15,699	92,713		1,654,348	1,628,647	25,701	3,029,203	141
76	43,714	386	106,011			151,320	2,950	970	15,600	131,800	680,915	677,131	3,784	1,169,766	142
57	33,271			1	104	7,965	1,630	700	4,435	1,200	47,888	47,211	677	134,110	143
373	186,023	2	450			76,659	745	10,054	65,860		3,325,734	3,305,856	19,878	3,724,761	144
80	44,114			1	50	10,632	676	1,308	8,648		1,444,906	1,441,689	3,217	1,612,656	145
97	44,605	17	3,970	8	860	54,241	2,303	2,641	47,737	1,560	472,372	460,732	11,640	706,288	146
25	7,315	2	625			1,138	243	90	805		3,564	3,234	330	18,095	147
351	158,661					21,103	1,520	2,427	17,156		311,904	289,409	22,495	584,339	148
67	21,562	3	460			7,017	1,200	377	5,440		109,566	107,565	2,001	159,006	149
51	25,166	32	5,000			54,056		768	53,288		161,089	155,078	6,011	330,183	150
1,245	614,583	12	1,800			55,509	3,186	8,337	43,786	250	866,826	828,340	38,486	2,115,766	151
14	7,570			5	960	1,277	652	67	558		5,277	4,187	1,090	26,500	152
471	215,834	1	120	1	750	77,262		2,678	72,474	2,110	1,109,903	1,018,934	90,969	1,602,266	153
3	920					39		14	25		2,325	2,055	270	4,135	154
		28	6,977			58,324	1,306	22	55,796	1,200	17,549	17,397	152	141,808	155
1	200	1	117			385	288		97		1,285	1,249	36	4,150	156
1,048	469,048	3	480	40	6,177	95,967	40,194	7,274	47,054	1,445	1,032,132	1,016,535	15,597	2,103,034	157
474	189,647	698	132,962	1	208	1,935,032	10,080	18,808	1,906,144		1,174,039	1,132,664	41,375	3,746,045	158
1,939	930,837	1,970	494,597	200	20,804	1,041,921	66,045	10,608	957,054	8,214	1,992,831	1,979,400	13,431	5,588,982	159
170	71,557	44	9,925			31,219	2,074	3,321	25,124	700	124,209	119,606	4,603	339,960	160
80	35,789	10	4,600			4,305	20	205	4,080		63,029	61,579	1,450	122,650	161
188	78,629	41	8,600	4	728	40,033	7,550	853	31,630		194,067	193,341	726	427,155	162
26	9,913	60	10,792			7,195	6,060	385	750		140,982	140,352	630	191,591	163
74	26,809			2	200	5,911	690	773	4,448		33,580	27,750	5,830	96,020	164
95	46,786	11	2,680			262,401	180	10,296	251,925		814,857	811,152	3,705	1,561,150	165
124	38,860	12	1,917	1	150	11,026	1,010	1,999	7,742	275	215,707	206,959	8,748	374,223	166
58	20,275	3	936			7,122	250	444	2,374	4,054	42,174	40,944	1,230	98,832	167
267	144,576	15	3,449	5	421	60,236	45,242	2,336	10,741	1,917	107,103	102,106	4,997	556,290	168
47	14,947					6,247	1,000	626	4,259	362	36,942	35,920	1,022	84,844	169
58	25,200	29	7,500			8,614	3,140	236	5,238		207,159	205,125	2,034	290,610	170
506	220,123	62	14,584	29	2,880	97,521	3,610	3,067	89,945	899	628,983	621,646	7,337	1,394,464	171
829	288,826	87	16,482	2	300	35,079	3,504	4,988	26,321	316	286,771	274,811	11,960	924,366	172
181	66,235	48	9,028			8,070	200	1,135	6,735		65,505	64,745	760	209,489	173
193	71,726	144	36,442			29,717	650	5,632	23,435		406,726	390,495	16,231	626,836	174
1,976	782,871	727	141,772	36	5,354	289,843	21,333	21,032	230,391	17,087	4,321,047	4,200,309	120,738	6,774,933	175

and tags, 2; lamps and reflectors, 1; lapidary work, 2; lasts, 2; lead, bar, pipe, and sheet, 1; millinery and lace goods, 1; needles and pins, 1; oil, not elsewhere specified, 2; oilcloth, enameled, 1; pens, gold, 1; petroleum, refining, 1; photographic apparatus, 1; photographic materials, 1; pipes, tobacco, 2; printing and publishing, music, 2; printing materials, 1; pulp goods, 2; registers, cash, 2; rules, ivory and wood, 1; safes and vaults, 1; screws, wood, 1; silk and silk goods, 2; smelting and refining, not from the ore, 2; stationery goods, not elsewhere specified, 2; steam packing, 2; stencils and brands, 1; tin and terne plate, 1; wheelbarrows, 1.

BY SPECIFIED INDUSTRIES: 1900.

BAY CITY.

3,021	$1,395,041	279	$70,204	7	$1,083	$385,641	$38,420	$42,363	$283,076	$21,782	$3,820,599	$3,765,276	$55,323	$7,087,624	1
8	3,904					897	456	47	394		8,536	8,331	205	20,027	2
15	8,000					2,513	1,528	241	744		14,262	13,513	749	47,095	3
8	3,208					1,672	1,015	138	519		7,357	7,083	274	22,226	4
13	5,440					2,955	290	320	2,345		26,119	25,965	154	39,030	5
29	11,884	11	1,983			8,464	1,911	639	5,914		64,168	61,644	2,524	115,358	6
24	12,850					962		12	950		12,740	10,650	2,090	35,000	7
132	70,675					6,084	1,640	420	1,444	2,580	99,624	98,940	684	222,211	8
15	7,083					1,429	864	125	440		13,502	13,276	226	30,370	9
41	25,845	80	24,902			7,903	4,348	389	3,166		45,482	44,893	589	143,843	10
1	600	56	14,056			2,525	1,276	16	533	700	27,530	27,382	148	55,547	11

TABLE 7.—MANUFACTURES IN CITIES

BAY CITY—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
12	Dyeing and cleaning	4	$1,165			$940	$225	4			1	$358
13	Foundry and machine shop products	11	763,392	$87,850	$133,472	179,322	363,248	7	44	$33,612	507	263,389
14	Furniture, cabinetmaking, repairing, and upholstering.	11	6,870	1,775	1,085	1,774	2,236	10			9	5,030
15	Lumber and timber products	10	1,106,824	60,500	65,500	117,900	862,924	14	20	20,120	445	194,278
16	Lumber, planing mill products, including sash, doors, and blinds.	10	1,851,175	38,904	63,887	90,511	1,157,873	5	35	34,337	417	143,144
17	Masonry, brick and stone	3	13,750	5,800	4,000	1,050	2,900	3	3	2,016	79	44,900
18	Millinery, custom work	9	18,600	3,600	4,150	410	10,440	9			47	13,132
19	Mineral and soda waters	3	26,762	3,600	6,000	10,862	6,300	2	2	1,500	11	4,032
20	Painting, house, sign, etc	23	16,272	1,325	2,180	3,340	9,427	28			70	39,440
21	Paving and paving materials	12	14,473	2,215	4,335	3,162	4,761	13			171	73,082
22	Photography	4	17,600	3,000	9,000	3,000	2,600	5			7	2,176
23	Plumbing, and gas and steam fitting	7	42,792	2,400	1,700	4,950	33,742	11	3	1,888	28	15,900
24	Printing and publishing, book and job	6	37,950	1,000	5,000	23,500	8,450	6	5	3,484	26	12,155
25	Printing and publishing, newspapers and periodicals.	8	88,996	1,400	1,200	61,033	25,363	6	13	11,900	48	29,792
26	Saddlery and harness	8	10,790	2,000	2,500	1,440	4,850	9			8	3,198
27	Salt	8	272,922	14,000	89,593	133,839	35,490	10	5	4,342	69	30,495
28	Ship and boat building, wooden	4	9,125	1,000	2,950	1,385	3,790	4	1	1,500	63	36,600
29	Tinsmithing, coppersmithing, and sheet-iron working.	14	41,932	2,700	5,550	14,525	19,157	14	1	520	55	26,143
30	Tobacco, cigars and cigarettes	14	32,720	2,600	4,550	1,745	23,825	16	2	600	49	24,869
31	Watch, clock, and jewelry repairing	9	6,850	300	500	3,400	2,650	9			8	4,020
32	All other industries[1]	46	1,495,263	102,884	188,149	359,015	845,215	48	79	73,004	756	310,265

[1] Embraces agricultural implements, 1; awnings, tents, and sails, 2; bicycles and tricycles, 1; bookbinding and blank book making, 2; boxes, cigar, 1; boxes, wooden packing, 2; brass castings and brass finishing, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 2; confectionery, 1; cooperage, 2; electroplating, 1; flouring and grist mill products, 2; food preparations, 1; fur goods, 2; gas, illuminating and heating, 1; gas

DETROIT.

1	All industries	2,847	$71,751,193	$5,736,363	$8,899,579	$21,571,058	$36,044,193	3,123	5,448	$5,042,299	45,707	$18,718,081
2	Awnings, tents, and sails	5	49,125			4,473	44,652	6	13	6,473	71	25,956
3	Baking and yeast powders	6	29,970	4,100	8,060	7,750	10,060	6	20	8,219	25	9,125
4	Baskets, and rattan and willow ware	10	26,471	7,000	4,050	5,546	9,875	10	2	490	23	8,559
5	Bicycle and tricycle repairing	69	96,413	9,330	6,000	35,239	45,844	77	6	4,836	81	36,366
6	Blacksmithing and wheelwrighting	130	165,770	60,800	41,685	22,223	41,062	150			209	116,362
7	Bookbinding and blank book making	8	22,731			14,150	8,581	11	6	3,488	55	16,715
8	Boots and shoes, custom work and repairing.	149	50,529	15,100	11,805	12,177	11,447	150	1	364	52	21,466
9	Boots and shoes, factory product	6	740,682	60,900	130,059	75,256	474,467	12	33	33,379	645	235,157
10	Bottling	7	24,234	2,900	4,800	4,634	11,900	8	2	780	12	4,903
11	Boxes, cigar	3	89,967	7,000	21,441	17,000	44,526	4	4	3,972	152	33,561
12	Boxes, fancy and paper	5	190,543	28,800	42,900	27,109	91,734	4	14	14,580	381	69,801
13	Boxes, wooden packing	9	467,780	130,367	63,000	129,526	144,887	4	16	16,225	251	85,852
14	Brass castings and brass finishing	17	1,038,765	25,096	120,976	246,304	646,389	18	62	85,403	803	332,750
15	Bread and other bakery products	160	805,738	98,422	115,900	411,882	179,534	168	95	84,611	603	273,789
16	Brick and tile	3	103,698	70,000	4,000	9,500	20,198	3	1	240	35	13,605
17	Brooms and brushes	12	96,659	9,200	8,650	12,616	66,193	15	12	9,166	152	50,173
18	Carpentering	143	334,793	67,175	45,421	48,649	173,548	175	16	10,045	950	471,133
19	Carpets, rag	15	21,465	5,600	11,000	2,675	2,190	14	2	850	19	6,482
20	Carriages and sleds, children's	3	12,092	250	1,800	1,143	8,899	3	2	1,000	8	3,118
21	Carriages and wagons	20	554,648	48,900	79,595	41,240	384,908	26	23	30,948	318	150,135
22	Cheese and butter, urban dairy products.	4	15,900	5,000	6,250	2,150	2,500	5			1	300
23	Cleansing and polishing preparations	3	2,585			260	2,325	6	1	300	5	2,900
24	Clothing, men's, custom work and repairing.	186	391,879	30,300	31,350	21,630	308,599	211	58	36,282	827	359,271
25	Clothing, men's, factory product	26	816,980	13,950	27,254	52,271	723,505	33	74	68,550	1,307	294,939
26	Clothing, women's, dressmaking	99	149,074	10,800	24,950	12,330	100,994	124	21	23,030	609	182,192
27	Clothing, women's, factory product	10	178,205	4,500	14,000	22,686	137,019	16	31	27,006	637	127,779
28	Coffee and spice, roasting and grinding	3	45,983			8,189	37,794	4	6	4,794	24	3,670
29	Coffins, burial cases, and undertakers' goods.	7	211,872	22,300	12,900	23,400	153,272	8	20	26,550	117	47,385
30	Confectionery	35	391,727	13,300	34,100	76,932	267,395	36	94	47,641	407	109,127
31	Cooperage	11	131,143	25,200	20,899	8,048	76,996	12	4	1,900	124	55,905
32	Corsets	3	277,644			35,711	241,933	3	31	31,236	486	130,908
33	Druggists' preparations, not including prescriptions.	9	2,944,303	123,526	374,210	480,858	1,965,709	4	568	544,755	1,583	544,458
34	Dyeing and cleaning	18	41,680			12,970	28,710	22	4	2,748	55	19,821
35	Electrical apparatus and supplies	9	432,641	6,500	7,201	60,181	358,759	8	20	22,470	122	60,466
36	Electrical construction and repairs	16	109,971			23,725	86,246	19	28	21,245	249	95,979
37	Electroplating	4	12,700			8,000	4,700	4	7	5,744	44	16,538
38	Emery wheels	3	84,619	11,000	10,600	17,322	45,697	1	13	9,211	56	33,985
39	Engraving and diesinking	5	1,350			785	565	5			4	1,051
40	Fancy articles, not elsewhere specified	3	4,216			1,625	2,591	2	1	400	78	8,400
41	Flouring and grist mill products	5	262,400	34,800	39,130	39,000	149,470	9	12	8,330	55	27,754

BY SPECIFIED INDUSTRIES: 1900—Continued.

BAY CITY—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
1	$358					$816	$761		$55		$1,119	$1,030	$89	$4,441	12
507	263,389					47,181	245	$7,001	39,710	$225	279,675	272,372	7,303	307,117	13
9	5,030					1,377	914	152	311		9,024	8,881	143	21,620	14
445	194,278					50,693	3,000	12,793	34,900		783,429	783,429		1,259,617	15
416	142,664	1	$480			53,060	1,200	6,484	45,376		1,063,248	1,061,043	2,205	1,441,101	16
79	44,900					3,528		617	761	2,150	55,730	55,665	65	117,724	17
		47	13,132			4,497	3,386	256	855		27,418	27,268	150	57,795	18
11	4,032					2,680	96	561	2,023		4,790	4,217	573	16,047	19
70	39,440					4,377	2,275	173	1,929		27,343	26,993	350	93,624	20
171	73,082					8,830	575	206	949	2,100	46,541	46,429	112	148,850	21
4	1,562	3	614			1,907	600	382	925		6,296	6,296		18,850	22
28	15,900					3,894	1,148	321	2,425		51,026	49,884	1,142	90,045	23
22	11,540	3	468	1	$147	3,712	1,536	441	1,735		10,858	10,238	620	42,917	24
44	29,000	3	662	1	130	11,886	1,706	412	9,208	560	21,131	19,425	1,706	105,621	25
6	2,892			2	306	883	641	90	152		7,076	7,026	50	16,803	26
66	29,995			3	500	24,990	150	2,023	13,940	8,877	45,706	31,096	14,610	131,905	27
63	36,600					611	285	106	220		21,290	20,770	520	132,909	28
55	26,143					2,708	1,360	220	1,128		34,081	33,541	540	82,500	29
41	23,391	8	1,478			10,783	770	151	9,862		29,794	29,668	126	79,899	30
8	4,020					1,424	1,122	64	238		3,030	2,980	50	14,060	31
689	297,836	67	12,420			115,400	3,322	7,563	99,925	4,590	972,674	955,348	17,326	1,673,472	32

machines and meters, 1; hardware, 1; hosiery and knit goods, 1; kindling wood, 1; lime and cement, 1; liquors, malt, 1; lock and gun smithing, 1; looking-glass and picture frames, 1; marble and stone work, 2; mattresses and spring beds, 2; patent medicines and compounds, 1; plastering and stuccowork, 1; roofing and roofing materials, 2; rules, ivory and wood, 1; sausage, 1; saws, 1; sewing machine repairing, 1; umbrellas and canes, 2.

DETROIT.

33,943	$16,177,088	10,469	$2,366,758	1,295	$174,235	$10,844,958	$812,665	$131,403	$8,785,906	$814,984	$52,349,347	$51,344,784	$1,004,563	$100,892,838	1
45	19,290	26	6,666			9,392	2,628	274	6,490		69,217	68,512	705	123,225	2
14	6,215	11	2,910			7,380	1,140	78	6,162		14,145	13,660	485	55,792	3
20	8,167	1	192	2	200	1,567	409	405	753		5,693	5,398	295	22,986	4
80	36,165			1	201	15,968	11,056	359	3,463	1,090	71,525	69,437	2,088	186,545	5
207	115,920			2	442	20,867	16,521	1,326	2,747	273	93,442	88,662	4,780	374,692	6
16	9,858	36	6,427	3	430	4,426	1,986	38	402	2,000	12,009	11,636	373	48,506	7
51	21,354			1	112	11,767	10,476	398	843	50	44,075	42,504	1,571	143,455	8
395	159,947	248	75,078	2	132	176,621	2,275	2,578	171,508	260	702,272	698,972	3,300	1,212,742	9
12	4,903					3,827	576	641	2,610		22,480	22,161	319	43,608	10
45	12,982	85	16,388	22	4,191	23,973	400	680	22,893		49,858	49,068	790	118,501	11
50	18,592	231	38,377	100	12,832	10,740	3,526	1,298	5,916		85,018	83,127	1,891	230,483	12
208	76,733			43	8,619	17,818	2,475	2,059	13,284		233,896	230,049	3,847	376,034	13
798	332,100			5	650	103,075	7,025	6,206	88,784	1,060	920,192	907,499	12,693	1,682,783	14
489	250,019	86	19,231	28	4,539	87,240	37,888	6,043	43,309		1,003,908	972,586	31,322	1,876,952	15
32	13,080	8	525			865	600	265			4,992	492	4,500	25,400	16
106	42,627	34	6,332	12	1,214	8,553	3,950	879	3,724		129,432	128,107	1,325	228,957	17
950	471,133					270,772	5,646	2,265	13,357	249,504	839,162	838,121	1,041	1,863,216	18
17	5,858	2	624			1,335	804	44	487		4,093	3,685	408	19,795	19
8	3,118					532	360	53	119		6,680	6,482	198	14,094	20
311	147,405	7	2,730			24,298	5,578	4,525	13,882	313	351,821	347,906	3,915	672,665	21
1	300					213	110	92	11		12,225	12,011	214	17,964	22
5	2,900					1,091	516		575		5,845	5,800	45	17,500	23
557	292,219	256	65,019	14	2,038	101,139	57,070	2,645	31,796	12,628	482,124	477,682	4,442	1,302,015	24
165	87,615	1,123	204,801	19	2,523	166,353	17,200	4,851	67,803	76,499	1,049,763	1,042,842	6,921	1,829,202	25
29	27,942	573	153,450	7	800	35,664	21,892	1,129	12,443	200	248,907	246,175	2,732	596,937	26
30	16,160	605	111,263	2	356	51,692	5,670	339	29,172	16,011	400,757	398,791	1,966	692,203	27
13	6,746	10	1,768	1	156	6,775	2,100	610	4,065		142,873	140,653	2,220	193,198	28
101	43,930	11	2,580	5	875	34,896	2,440	1,462	7,194	23,800	70,912	69,332	1,580	232,740	29
181	68,837	225	40,140	1	150	80,192	28,410	2,836	48,946		510,617	501,466	9,151	880,289	30
122	55,437			2	468	5,386	300	1,278	3,808		141,810	140,776	1,034	242,359	31
43	21,408	443	109,500			31,423	6,300	1,251	23,872		217,379	215,930	1,449	481,720	32
597	273,760	971	269,823	15	875	1,037,486	13,137	30,998	993,351		1,996,473	1,981,652	14,821	4,915,913	33
29	12,687	26	7,134			7,895	6,347	126	1,422		5,097	3,883	1,214	68,116	34
114	56,560	5	3,500	3	406	28,619	2,904	1,169	20,956	3,600	153,838	151,138	2,700	362,921	35
249	95,979					84,890	5,110	513	21,633	57,634	244,205	243,588	617	527,189	36
44	16,538					1,781	1,256	16	509		4,503	3,303	1,200	36,845	37
56	33,985					1,475	140	260	1,075		72,421	69,621	2,800	137,577	38
2	803			2	248	566	536		30		75	75		6,050	39
7	1,400	71	7,000			2,372	659		213	1,500	1,136	1,016	120	16,295	40
55	27,754					17,179	120	2,559	14,500		1,259,234	1,253,614	5,620	1,462,070	41

TABLE 8.—MANUFACTURES IN CITIES

DETROIT—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
42	Food preparations	5	$95,767	$6,050	$4,030	$41,730	$43,957	5	7	$7,852	26	$10,872
43	Foundry and machine shop products	74	9,220,842	847,250	1,192,437	1,657,965	5,523,190	71	540	574,723	5,933	2,883,453
44	Fur goods	15	348,777	1,150	1,100	10,252	336,275	22	88	54,772	378	153,238
45	Furnishing goods, men's	3	75,575			27,701	47,874	2	15	11,024	126	22,153
46	Furniture, cabinetmaking, repairing, and upholstering.	46	70,814	4,500	3,525	7,887	54,902	54	7	5,100	100	46,867
47	Furniture, factory product	22	1,419,554	134,042	309,554	186,555	789,403	25	135	137,181	1,404	541,706
48	Furs, dressed	3	4,140			1,250	2,890	5			13	5,477
49	Glass, cutting, staining, and ornamenting.	5	20,568	500	500	6,557	13,011	7	1	550	44	17,726
50	Hairwork	5	12,100			150	11,950	5			22	4,900
51	Hand stamps	6	14,732			8,050	6,682	7	4	2,184	15	5,175
52	Hardware	5	86,253	1,000	1,500	9,952	23,801	2	7	5,160	31	9,558
53	Hats and caps, not including fur hats and wool hats.	5	68,083			6,253	61,830	10	8	5,510	94	46,590
54	Hosiery and knit goods	8	241,272	500	10,911	75,152	154,709	2	14	15,296	426	85,088
55	Instruments, professional and scientific	3	3,200			1,150	2,050	1	3	1,725	8	4,260
56	Iron and steel	4	1,793,651	115,000	133,833	423,004	1,121,814		25	28,105	1,121	595,040
57	Ironwork, architectural and ornamental.	8	627,081	16,000	46,000	234,406	330,675	9	34	43,710	441	221,763
58	Liquors, malt	20	2,800,062	320,912	638,836	859,996	980,318	12	115	132,803	412	257,186
59	Lock and gun smithing	12	12,545	5,700	2,200	2,470	2,175	12			11	5,570
60	Looking-glass and picture frames	19	273,682	16,567	49,166	28,990	178,959	22	27	34,700	239	92,225
61	Lumber and timber products	5	251,195	54,000	15,575	42,200	139,420	6	21	18,500	137	86,590
62	Lumber, planing mill products, including sash, doors, and blinds.	30	941,857	143,309	129,751	160,866	507,931	29	50	45,165	970	383,685
63	Malt	3	1,216,655	214,500	330,180	85,500	586,475	1	7	9,869	51	30,680
64	Marble and stone work	15	214,375	43,400	12,850	32,050	126,075	22	2	1,300	186	132,263
65	Masonry, brick and stone	51	256,356	25,300	9,750	34,210	187,096	66	16	19,025	740	399,359
66	Matches	3	899,952	89,500	207,000	356,000	247,452		15	26,812	639	155,886
67	Mattresses and spring beds	3	155,009	10,000	31,500	27,557	85,952		26	21,802	117	51,198
68	Millinery, custom work	90	149,009	21,760	22,650	4,650	99,949	97	39	12,641	268	61,060
69	Mineral and soda waters	15	90,855	21,300	8,000	36,830	24,725	23	14	8,472	58	24,783
70	Models and patterns	7	17,260			4,550	12,710	10	1	625	92	46,480
71	Monuments and tombstones	7	51,659	12,900	8,050	11,700	19,009	9	2	1,312	35	25,096
72	Optical goods	7	204,189	60,000	15,000	15,737	113,452	5	32	25,020	174	48,850
73	Painting, house, sign, etc	123	254,588	20,970	23,350	26,420	183,848	163	46	22,912	638	348,686
74	Paints	7	1,500,856	108,799	227,969	147,951	1,016,137	1	178	130,349	369	122,149
75	Paper hanging	17	19,929	250	1,450	2,555	15,674	20	1	208	86	38,649
76	Patent medicines and compounds	32	557,282	15,342	60,519	70,094	411,327	30	164	124,521	320	90,050
77	Paving and paving materials	18	245,591	8,700	10,938	46,529	179,424	19	23	18,878	446	234,945
78	Perfumery and cosmetics	7	213,172	10,000	25,000	11,850	166,322	4	94	60,543	170	38,349
79	Photography	35	269,390	8,000	22,425	49,220	189,745	38	39	24,365	143	65,008
80	Photolithographing and photoengraving.	6	46,921			15,800	31,121	6	13	9,660	68	34,396
81	Pickles, preserves, and sauces	5	109,091	3,000	1,500	10,951	93,640	2	32	41,257	178	48,189
82	Plastering and stucco work	23	41,638	2,900	3,800	10,570	24,368	26	11	7,715	174	96,541
83	Plumbers' supplies	7	296,149	6,050	19,000	88,776	182,323	1	36	34,901	444	185,717
84	Plumbing, and gas and steam fitting	97	296,318	31,525	35,750	35,830	193,243	115	37	16,484	463	246,050
85	Printing and publishing, book and job	91	927,233	1,325	1,500	441,822	482,586	102	426	165,476	831	394,301
86	Printing and publishing, newspapers and periodicals.	37	857,725	62,000	83,000	393,050	319,675	23	450	427,271	373	243,850
87	Regalia and society banners and emblems.	3	29,851			4,176	25,675	4	8	7,200	88	27,012
88	Roofing and roofing materials	15	237,471	40,598	18,102	38,837	139,934	22	16	22,730	131	56,266
89	Saddlery and harness	37	127,600	19,700	17,150	13,076	77,674	43	8	7,952	134	59,320
90	Scales and balances	3	102,625	4,000	20,000	28,225	50,400	3	15	5,210	33	15,758
91	Sewing machine repairing	3	1,075			300	775	4	1	182		
92	Ship and boat building, wooden	10	75,021	16,750	10,100	5,185	42,986	10	8	5,556	91	47,836
93	Shirts	3	24,117			6,585	17,532	2	4	3,756	34	7,609
94	Slaughtering and meat packing, wholesale.	3	1,092,001	78,895	109,890	91,321	811,895	2	56	54,221	291	150,482
95	Slaughtering, wholesale, not including meat packing.	13	92,775	28,600	20,100	5,525	38,550	16	5	5,360	47	27,374
96	Soap and candles	5	318,240	20,000	63,000	88,945	146,295	4	24	20,652	72	30,082
97	Steam fittings and heating apparatus	11	2,021,313	104,500	432,541	546,038	938,234	5	111	144,181	1,251	613,258
98	Tinsmithing, coppersmithing, and sheet-iron working.	72	471,350	37,500	62,900	133,210	237,740	83	30	33,189	469	176,784
99	Tobacco, chewing, smoking, and snuff	8	894,400	49,611	192,295	152,406	500,088	3	156	202,689	1,173	322,817
100	Tobacco, cigars and cigarettes	184	1,035,825	35,490	47,850	38,357	914,128	195	141	154,587	2,369	680,186
101	Tools, not elsewhere specified	5	66,074	900	750	37,036	27,388	3	4	6,800	42	20,691
102	Trunks and valises	3	88,301			9,055	79,246	5	14	13,466	103	40,057

BY SPECIFIED INDUSTRIES: 1900—Continued.

DETROIT—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
23	$10,312	3	$560			$16,540	$180	$1,035	$15,325		$198,874	$191,618	$7,256	$264,198	42
5,750	2,849,593	66	12,687	117	$21,173	694,085	40,018	39,867	601,346	$12,854	3,379,132	3,292,939	86,193	3,943,311	43
126	76,002	245	76,036	7	1,200	47,599	16,290	2,302	28,007	1,000	880,927	879,446	1,481	1,352,243	44
16	4,920	110	17,233			3,890	2,995	200	695		50,894	50,026	868	161,200	45
88	43,465	12	2,670	5	732	11,025	7,322	444	2,801	458	74,535	73,728	807	187,600	46
1,273	521,833	37	8,850	94	11,023	147,301	15,505	12,164	117,132	2,500	796,269	779,464	16,805	1,865,280	47
13	5,477					1,361	616	50	695		112,461	111,862	599	126,320	48
41	16,736	3	990			4,586	2,340	217	2,029		19,697	19,251	446	61,064	49
		22	4,900			5,550	3,270	31	2,249		10,690	10,430	260	28,100	50
9	4,383	1	168	5	624	2,710	1,802	73	835		6,710	6,588	122	21,995	51
21	8,224	5	824	5	510	3,358	893	38	1,672	750	14,334	13,562	772	41,594	52
69	40,860	24	5,552	1	178	6,117	3,250	276	2,591		122,480	121,400	1,080	202,212	53
23	9,915	350	68,936	53	6,237	46,376	7,557	701	28,053	10,065	223,539	220,898	2,641	441,850	54
8	4,260					665	440		225		1,010	790	220	12,595	55
1,121	595,040					123,711	3,750	13,745	99,832	6,384	2,158,354	1,968,539	190,315	3,198,881	56
440	221,283	1	480			16,032	4,112	3,711	8,209		504,142	496,692	7,450	881,077	57
399	252,510	13	4,676			1,277,931	47,767	30,820	1,199,344		547,378	502,350	45,028	2,593,093	58
9	4,764	1	442	1	364	2,095	1,750	174	171		2,554	2,247	307	16,095	59
193	82,108	42	9,649	4	468	13,459	5,265	2,296	5,898		162,469	160,964	1,505	364,885	60
137	86,590					16,221	4,860	4,571	6,790		271,095	270,495	600	417,868	61
933	378,225	11	2,536	26	2,924	140,915	8,260	7,062	102,993	22,600	936,394	927,112	9,282	1,684,220	62
51	30,680					24,941		4,522	20,419		592,611	575,392	17,219	723,286	63
186	132,263					37,202	2,366	1,590	4,146	29,100	203,652	201,532	2,120	429,467	64
740	399,359					113,354	1,971	2,339	10,309	98,735	482,165	480,924	1,241	1,188,649	65
296	90,453	218	46,633	125	18,750	133,497		3,686	129,811		1,042,554	1,039,854	2,700	1,745,030	66
89	43,398	26	7,488	2	312	25,316	420	1,088	23,808		198,116	196,282	1,834	337,883	67
		261	60,135	7	925	35,519	26,266	1,216	7,937	100	241,889	240,093	1,796	458,155	68
57	24,648			1	85	11,254	3,876	411	6,967		39,904	39,363	541	137,377	69
92	46,480					2,735	1,824	107	804		4,435	3,984	451	67,500	70
35	25,096					4,427	191	417	3,569	250	23,417	22,990	427	75,286	71
84	31,777	55	11,248	35	5,825	13,996	2,180	1,725	10,016	75	110,768	109,657	1,111	225,952	72
636	348,364	1	180	1	192	35,170	17,767	1,686	15,602	115	241,406	240,500	906	814,941	73
279	104,153	79	16,337	11	1,659	216,216	3,804	7,022	205,390		1,096,789	1,086,078	10,711	1,737,300	74
85	38,263	1	386			3,502	2,094	79	1,329		26,494	26,346	148	85,658	75
100	40,599	217	49,051	3	400	166,821	6,860	2,302	142,359	15,300	255,310	251,347	3,963	859,358	76
446	234,945					23,880	1,560	975	14,345	7,000	415,186	413,588	1,598	768,617	77
30	11,111	139	27,138	1	100	69,106	5,770	2,762	60,574		204,078	203,060	1,018	474,702	78
102	55,187	37	9,214	4	607	37,010	15,863	1,204	19,868	75	77,113	75,626	1,487	277,889	79
67	33,796	1	600			11,298	2,451	174	8,673		11,308	9,213	2,095	89,035	80
65	29,157	113	19,032			26,562	5,414	976	20,172		555,163	551,339	3,824	707,869	81
167	95,165	7	1,376			14,578	2,281	306	4,857	7,134	71,312	70,382	930	220,798	82
404	178,017	40	7,700			76,360	4,585	2,847	68,928		349,234	337,275	11,959	700,086	83
462	245,914			1	136	29,077	17,107	1,128	10,792	50	471,676	467,635	4,041	971,981	84
612	347,151	191	43,204	28	3,946	128,950	42,336	5,254	31,696	49,664	383,633	370,509	13,124	1,417,275	85
358	240,644	6	2,016	9	1,190	237,291	14,739	6,870	148,611	67,071	285,512	272,856	12,656	1,603,652	86
24	12,480	59	14,532			9,635	2,580	60	4,495	2,500	66,808	66,538	270	135,251	87
129	55,648	2	618			36,158	886	1,280	32,848	1,194	159,833	158,130	1,703	328,890	88
122	56,392	10	2,471	2	457	17,846	7,560	3,244	7,042		136,067	133,566	2,501	262,946	89
32	15,613			1	145	15,244	500	248	14,496		28,294	27,396	898	78,885	90
						739	624		115		1,213	1,158	55	3,143	91
91	47,836					9,426	2,820	635	6,271	200	35,983	35,214	769	123,635	92
2	1,404	32	6,205			2,592	990	203	1,399		26,464	26,274	190	44,846	93
291	150,482					62,793	720	8,193	53,880		2,844,089	2,828,667	15,422	3,167,430	94
47	27,374					7,794	436	924	6,434		784,351	783,302	1,049	880,319	95
53	26,340	14	3,242	5	500	27,606	2,140	1,491	23,975		274,555	268,099	6,456	409,813	96
1,239	611,458	12	1,800			54,868	2,636	8,316	43,666	250	862,181	823,845	38,336	2,104,066	97
432	171,100			37	5,684	45,062	12,557	2,733	29,737	35	458,978	453,225	5,753	847,365	98
474	189,647	698	132,962	1	208	1,935,032	10,080	18,808	1,906,144		1,174,039	1,132,664	41,375	3,746,045	99
592	254,489	1,629	411,546	148	14,151	641,981	27,764	6,180	608,037		900,230	895,131	5,099	2,790,268	100
38	19,266	4	1,425			11,848	1,082	502	10,264		8,958	7,651	1,307	56,332	101
83	35,729	16	3,600	4	728	11,148	6,700	558	3,890		98,281	97,730	551	208,455	102

TABLE 8.—MANUFACTURES IN CITIES

DETROIT—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
102	Umbrellas and canes	4	$36,475			$2,825	$33,650	4	8	$5,728	74	$16,338
103	Varnish	3	914,906	$27,500	$164,497	51,650	671,259	7	64	150,000	102	47,700
104	Watch, clock, and jewelry repairing	62	43,565	1,800	2,500	15,860	23,405	68	2	676	74	44,845
105	Wirework, including wire rope and cable.	10	197,857	21,100	69,950	23,600	83,207	9	13	16,390	217	64,244
106	Wood, turned and carved	14	45,510	7,100	7,200	18,075	13,135	18	1	500	43	19,912
107	All other industries[1]	128	25,182,919	1,846,202	2,136,669	12,470,868	8,729,180	126	631	648,585	8,225	3,515,617

[1] Embraces agricultural implements, 2; artificial feathers and flowers, 2; artificial limbs, 2; babbitt metal and solder, 2; bags, paper, 1; belting and hose, leather, 2; bicycles and tricycles, 1; billiard tables and materials, 2; blacking, 1; boot and shoe uppers, 1; brass and copper, rolled, 1; brassware, 1; bridges, 1; butter, reworking, 1; buttons, 1; calcium lights, 1; carpets, wood, 2; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 2; chemicals, 2; china decorating, 2; clocks, 1; cloth, sponging and refinishing, 1; clothing, men's, factory product, buttonholes, 1; cutlery and edge tools, 1; dentists' materials, 1; enameling and enameled goods, 2; engraving, steel, including plate printing, 1; engraving, wood, 2; envelopes, 1; files, 2; flags and banners, 2; flavoring extracts, 2; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 1; gas machines and meters, 1; glass, 1; gloves and mittens, 2; graphite and graphite refining, 1; hand knit goods, 1; house furnishing goods, not elsewhere specified, 2; ink, printing, 1; ink, writing, 1; iron and

GRAND RAPIDS.

1	All industries	824	$23,438,760	$1,879,079	$3,460,600	$5,741,799	$12,352,282	877	1,197	$1,166,472	14,361	$5,904,670
2	Bicycle and tricycle repairing	21	10,788			6,993	3,795	25			14	5,843
3	Bicycles and tricycles	3	265,099	3,500	24,105	57,895	179,599	1	25	16,611	197	87,902
4	Blacksmithing and wheelwrighting	49	53,433	19,200	16,655	7,828	9,750	57			39	22,590
5	Bookbinding and blank book making	3	27,197			12,834	14,363	6			32	16,473
6	Boots and shoes, custom work and repairing.	54	14,343	2,345	3,275	4,178	5,045	56			10	3,715
7	Boxes, wooden packing	3	21,959	20	30	7,062	14,847	3	2	850	34	10,503
8	Bread and other bakery products	40	509,780	39,675	94,450	247,959	127,696	40	56	34,779	169	85,843
9	Brooms and brushes	6	169,745	12,232	16,650	26,518	114,345	8	12	12,528	256	56,514
10	Carpentering	38	71,457	1,600	2,700	14,374	52,783	48	5	1,615	236	109,753
11	Carpets, rag	6	2,593	300	300	925	1,068	7			8	1,302
12	Carriages and wagons	10	906,008	48,250	105,903	81,223	670,632	9	21	21,276	289	123,635
13	Clothing, men's, custom work and repairing.	43	72,584	3,150	8,000	4,112	57,322	50	4	3,852	147	61,407
14	Clothing, men's, factory product	3	109,500			7,000	102,500	2	4	6,580	141	47,300
15	Clothing, women's, dressmaking	14	8,009			1,725	6,284	16			90	18,415
16	Confectionery	9	167,870	1,400	1,200	44,120	121,150	11	17	15,170	126	41,572
17	Cooperage	3	58,519	18,200	9,700	7,818	22,801	2	3	3,550	73	26,110
18	Dyeing and cleaning	3	17,100	6,000	7,000	2,000	2,100	3			16	4,360
19	Electrical construction and repairs	3	28,600			1,700	26,900	1	9	7,507	26	13,765
20	Flouring and grist mill products	9	664,514	313,482	78,850	105,500	166,682	14	22	20,285	92	44,924
21	Foundry and machine shop products	28	1,368,100	96,249	254,695	395,126	622,030	23	106	71,346	870	381,945
22	Fur goods	4	19,925			1,775	18,150	5	1	1,000	30	10,308
23	Furniture, cabinetmaking, repairing, and upholstering.	9	5,365			1,464	3,901	12	1	400	13	6,086
24	Furniture, factory product	34	8,361,964	528,475	1,546,863	708,740	5,577,886	11	323	418,299	6,236	2,581,667
25	Hats and caps, not including fur hats and wool hats.	4	93,873	3,000	20,000	18,975	51,898	4	14	18,200	126	33,600
26	Hosiery and knit goods	5	324,113	16,627	32,476	90,085	184,925		16	18,886	253	79,334
27	Leather, tanned, curried, and finished	3	477,511	18,789	80,217	20,659	357,846	1	8	11,340	101	46,324
28	Lock and gun smithing	5	12,105	2,000	5,000	2,850	2,255	5			8	4,100
29	Looking-glass and picture frames	7	19,829	2,000	1,000	1,486	15,343	8	3	4,500	13	6,632
30	Lumber and timber products	3	689,804	119,418	86,386	119,291	364,709	2	25	24,468	255	130,485
31	Lumber, planing mill products, including sash, doors, and blinds.	8	513,926	42,500	57,700	49,031	364,695	6	19	19,834	255	116,927
32	Masonry, brick and stone	14	15,143	900	1,550	6,383	6,310	20	2	828	169	73,394
33	Millinery, custom work	21	43,950	400	3,100	1,775	38,675	24	3	1,350	122	38,173
34	Mineral and soda waters	3	10,850		50	9,500	1,300	4			7	3,920
35	Monuments and tombstones	5	22,062	1,200	875	2,685	17,302	4	6	3,180	15	9,649
36	Painting, house, sign, etc	31	33,682	4,050	6,860	5,651	17,121	40	7	3,132	93	40,485
37	Patent medicines and compounds	9	405,701	15,934	43,619	57,455	288,693	7	33	34,056	37	34,419
38	Paving and paving materials	18	56,362	900	2,200	7,375	45,887	25	1	400	211	83,944
39	Photography	17	46,645	800	2,400	17,700	25,745	20	5	5,664	44	19,943
40	Plastering and stuccowork	3	1,355			630	725	5			3	1,560
41	Plumbing, and gas and steam fitting	20	87,193	4,900	4,400	8,362	69,531	29	9	3,998	128	67,948
42	Printing and publishing, book and job	22	1,062,657	1,500	5,000	737,436	318,721	24	20	21,530	244	88,739
43	Printing and publishing, newspapers and periodicals.	15	249,209			135,598	113,611	11	80	53,131	209	128,183
44	Saddlery and harness	21	76,332	9,200	8,000	3,040	56,092	22	3	3,000	41	18,373
45	Shirts	6	43,772			8,600	35,172	6	33	19,084	122	40,814
46	Tinsmithing, coppersmithing, and sheet-iron working.	31	137,833	25,884	51,090	15,886	44,973	42	5	2,550	77	37,144

BY SPECIFIED INDUSTRIES: 1900—Continued.

DETROIT—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
23	$7,788	51	$8,550			$5,980	$4,980	$380	$620		$138,431	$137,960	$471	$180,594	102
91	45,020	11	2,680			260,620	180	10,190	250,250		789,882	786,302	3,580	1,518,000	103
63	42,361	10	2,178	1	$306	16,860	12,727	140	2,231	$1,762	18,715	17,794	921	121,859	104
132	48,384	56	12,980	29	2,880	18,799	2,654	1,686	14,459		95,799	93,194	2,605	228,704	105
43	19,912					2,537	1,235	276	776	250	19,423	17,533	1,890	62,114	106
7,558	3,896,819	438	91,634	229	27,164	1,089,703	63,811	111,905	882,896	31,091	13,884,511	13,619,778	264,733	21,320,972	107

steel, bolts, nuts, washers, and rivets, 1; jewelry, 2; kaolin and other earth grinding, 1; lapidary work, 1; lasts, 1; lead, bar, pipe, and sheet, 1; leather goods, 2; leather, tanned, curried, and finished, 2; lime and cement, 2; lithographing and engraving, 2; millinery and lace goods, 1; mirrors, 2; mucilage and paste, 1; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 2; musical instruments, pianos and materials, 2; needles and pins, 1; oilcloth, enameled, 1; paper goods, not elsewhere specified, 1; pens, gold, 1; pipes, tobacco, 2; pottery, terra cotta, and fire-clay products, 2; printing and publishing, music, 1; printing materials, 1; pulp goods, 2; refrigerators, 2; registers, cash, 2; safes and vaults, 1; salt, 1; sausage, 1; saws, 2; shipbuilding, iron and steel, 1; show cases, 2; smelting and refining, not from the ore, 2; sporting goods, 2; stamped ware, 1; steam packing, 2; stereotyping and electrotyping, 1; surgical appliances, 2; taxidermy, 2; tin and terne plate, 1; upholstering materials, 1; vinegar and cider, 1; washing machines and clothes wringers, 1; window shades, 2.

GRAND RAPIDS.

12,625	$5,518,660	1,613	$365,885	123	$20,125	$1,950,456	$162,152	$111,798	$1,538,536	$137,970	$12,348,978	$12,107,893	$241,585	$24,824,042	1
14	5,843					3,026	1,989	9	653	375	10,759	10,393	366	32,248	2
180	84,720	17	3,182			40,581	1,200	859	34,084	4,438	158,638	154,478	4,160	329,556	3
39	22,590					4,537	3,146	484	907		23,290	21,896	1,394	93,027	4
16	9,124	16	7,849			13,422	983	114	4,824	7,501	9,411	9,051	360	45,855	5
10	3,715					3,471	2,995	67	409		13,484	12,730	754	43,820	6
33	10,403			1	100	2,253	725	3	1,525		54,269	53,749	520	74,124	7
137	79,976	32	5,867			76,239	4,817	1,387	70,035		442,427	432,626	9,801	752,123	8
92	37,186	164	19,328			19,768	385	1,417	17,966		78,664	77,127	1,537	200,088	9
236	109,753					24,390	1,528	82	1,850	20,930	255,173	254,450	723	452,047	10
2	490	6	812			309	226	13	70		1,113	1,044	69	5,564	11
289	123,635					34,325	1,334	3,039	29,852	100	389,373	376,330	13,043	682,992	12
98	49,293	47	11,834	2	280	21,175	10,655	378	5,198	4,944	88,390	87,694	696	230,721	13
48	23,400	93	23,900			6,643	2,723	500	3,420		114,467	113,985	482	210,000	14
		90	18,415			2,154	1,880		274		38,163	37,938	225	71,855	15
71	28,486	55	13,086			24,023	7,630	728	15,665		241,210	238,600	2,610	361,971	16
73	26,110					1,478	63	405	1,010		66,988	66,238	750	103,900	17
5	2,860	11	1,500			1,135	480	280	375		2,892	2,516	376	13,000	18
26	13,765					4,022	1,392	130	2,500		33,964	33,870	94	66,781	19
92	44,924					65,432	125	4,651	60,656		1,618,049	1,603,822	14,227	1,886,283	20
861	379,945	9	2,000			124,788	9,596	6,820	102,272	6,100	494,224	467,487	26,737	1,240,690	21
6	3,732	24	6,576			4,270	2,764	71	1,435		27,850	27,750	100	49,490	22
13	6,086					1,729	1,239	8	482		8,835	8,589	246	24,051	23
6,126	2,560,145	44	10,572	66	10,950	433,016	13,598	45,957	373,461		3,344,888	3,278,278	66,610	7,494,607	24
33	15,690	93	17,910			5,200	648	250	4,302		64,690	63,460	1,230	104,500	25
109	44,201	144	35,133			36,703	1,370	965	29,633	4,735	315,982	308,033	7,949	483,058	26
101	46,324					24,697		1,919	22,778		562,548	562,198	350	697,525	27
7	3,928	1	172			785	516	76	193		1,625	1,420	205	12,338	28
13	6,632					3,644	2,078	241	1,325		17,308	17,041	267	40,000	29
240	126,575			15	3,910	30,674	520	4,487	25,667		230,488	230,488		538,632	30
245	115,727			10	1,200	40,000	300	3,171	36,529		595,472	593,319	2,153	865,930	31
167	73,194			2	200	44,898	190	29	2,458	42,221	158,020	157,920	100	344,704	32
4	2,265	114	35,548	4	360	27,051	14,849	1,061	11,141		131,392	130,708	684	215,025	33
7	3,920					1,068	360	15	693		4,500	4,365	135	20,000	34
15	9,649					1,435	1,000	74	361		11,790	11,287	503	35,892	35
93	40,485					4,224	1,839	167	1,511	707	31,384	31,145	239	106,664	36
54	26,148	33	8,271			113,655	1,670	1,741	110,029	215	164,649	161,787	2,862	424,917	37
211	83,944					2,403	170	42	1,691	500	139,611	139,013	598	284,218	38
28	14,547	16	5,396			7,619	4,727	143	2,749		29,846	28,176	1,670	88,968	39
3	1,560					201	56		145		2,483	2,470	13	6,825	40
127	67,827			1	121	12,882	4,384	466	7,882	150	115,047	114,552	495	254,430	41
187	75,358	55	13,137	2	244	26,651	9,597	801	14,827	1,426	84,609	80,859	3,750	278,431	42
193	122,237	12	5,496	4	450	52,835	5,646	677	38,607	7,405	87,077	80,746	6,331	400,910	43
41	18,373					5,584	2,884	548	2,152		83,146	81,713	1,433	139,170	44
28	17,310	94	23,504			14,649	1,648	127	6,874	6,000	45,688	44,913	775	145,054	45
77	37,144					6,635	3,293	662	2,620	60	64,521	63,670	851	147,300	46

GRAND RAPIDS—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
47	Tobacco, cigars and cigarettes	36	$113,191	$2,000	$4,100	$2,923	$104,168	36	16	$9,092	226	$79,164
48	Tools, not elsewhere specified	4	5,707		300	1,198	4,209	2	1	300	5	2,138
49	Watch, clock, and jewelry repairing	20	14,873			4,838	10,035	19			20	12,334
50	Wood, turned and carved	12	218,121	18,396	46,200	73,508	80,017	10	22	22,160	272	109,240
51	All other industries[1]	86	5,728,009	494,603	827,701	2,590,010	1,810,695	91	255	250,141	2,111	835,772

[1] Embraces ammunition, 1; awnings, tents, and sails, 2; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; belting and hose, leather, 2; boots and shoes, factory product, 2; bottling, 2; boxes, cigar, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; brassware, 1; brick and tile, 2; carriage and wagon materials, 1; carriages and sleds, children's, 1; cars and general shop construction and repairs by steam railroad companies, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; corsets, 1; cutlery and edge tools, 1; electroplating, 2; engravers' materials, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 2; food preparations, 1; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 1; grease and tallow, 1; hairwork, 1; hand stamps, 1; hardware, 1; hooks and eyes, 2; house furnishing goods, not elsewhere specified, 1; jewelry, 1; lime and

JACKSON.

1	All industries	291	$4,617,656	$273,428	$625,426	$920,187	$2,798,615	309	389	$362,462	4,206	$1,666,680
2	Bicycle and tricycle repairing	4	6,575	200	600	4,100	1,675	4	1	300	8	4,032
3	Blacksmithing and wheelwrighting	23	11,074	1,968	2,850	3,435	2,821	27			19	11,472
4	Boots and shoes, custom work and repairing.	14	2,982	50	435	1,500	997	14			3	1,103
5	Bread and other bakery products	12	100,062	6,125	23,200	50,682	20,055	10	4	2,621	38	18,291
6	Brooms and brushes	4	2,187	25	75	525	1,562	4			5	1,850
7	Carpentering	14	19,972	200	2,000	9,500	8,272	15			86	44,346
8	Carriage and wagon materials	3	281,082	1,500	13,986	52,529	213,067	1	16	18,285	391	154,950
9	Carriages and wagons	8	854,960	40,000	82,213	61,155	671,592	2	68	48,811	636	241,125
10	Clothing, men's, custom work and repairing.	14	22,453			2,325	20,128	15	1	400	41	20,040
11	Clothing, women's, dressmaking	7	1,950			725	1,225	7			26	5,202
12	Clothing, women's, factory product	6	205,911	2,000		41,374	162,587	6	44	56,973	413	128,109
13	Corsets	5	395,535	8,500	29,615	44,852	312,568	3	61	62,658	481	119,386
14	Dyeing and cleaning	3	3,940	1,000	2,000	850	90	3			2	750
15	Flouring and grist mill products	4	103,594	16,290	24,000	32,500	30,804	3	10	7,996	26	13,648
16	Foundry and machine shop products	11	334,674	46,100	70,200	79,084	139,290	12	30	29,570	185	87,555
17	Furniture, cabinetmaking, repairing, and upholstering.	5	3,025			1,400	1,625	7			9	4,551
18	Lumber, planing mill products, including sash, doors, and blinds.	4	98,650	7,100	23,900	33,825	33,825	5	7	4,836	55	30,742
19	Masonry, brick and stone	3	21,755	1,000	1,000	2,725	17,030	3	6	3,184	58	28,947
20	Millinery, custom work	17	43,026	1,600	3,000	2,375	36,051	22	1	624	53	14,077
21	Mineral and soda waters	3	18,500	5,000	7,000	3,500	3,000	3	2	716	6	2,984
22	Monuments and tombstones	3	35,732		300	5,309	30,123	3	2	1,200	46	18,450
23	Painting, house, sign, etc	13	6,220	500	500	3,330	1,890	14	1	500	55	26,597
24	Paving and paving materials	3	7,300	200	600	5,850	650	5			26	10,750
25	Photography	8	13,110			9,600	3,510	9			8	2,874
26	Plumbing, and gas and steam fitting	7	23,921	1,000	2,000	2,300	18,621	11	1	500	39	23,786
27	Printing and publishing, book and job	3	14,286			11,792	2,494	6			15	7,997
28	Printing and publishing, newspapers and periodicals.	6	73,361	5,000	9,000	31,302	28,059	4	25	17,216	54	30,071
29	Saddlery and harness	7	11,923			2,498	9,425	11	1	150	11	5,820
30	Tinsmithing, coppersmithing, and sheet-iron working.	14	13,150	300	450	4,275	8,125	21	1	260	30	16,879
31	Tobacco, cigars and cigarettes	7	16,087	1,100	2,325	486	12,176	11	1	250	25	8,429
32	Watch, clock, and jewelry repairing	8	5,715	500	1,000	2,500	1,715	9			9	4,075
33	All other industries[1]	48	1,864,944	126,170	323,177	411,984	1,003,613	39	106	105,462	1,347	577,842

[1] Embraces agricultural implements, 2; awnings, tents, and sails, 1; bags, paper, 1; bicycles and tricycles, 1; bookbinding and blank book making, 2; bottling, 2; boxes, fancy and paper, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 2; coffins, burial cases, and undertakers' goods, 1; cooperage, 1; electrical construction and repairs, 1; electroplating, 1; fertilizers, 1; gas and oil stoves, 1; hairwork, 1; instruments, professional and scientific, 1; liquors, malt, 1; lock and gun smithing, 2; looking-glass and picture frames, 1; marble and stone work, 1; mattresses and spring beds, 1; mirrors, 1;

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1	All industries	268	$5,796,195	$527,727	$578,947	$1,200,380	$3,489,141	279	513	$443,407	4,293	$1,617,299
2	Agricultural implements	6	154,567	11,500	19,500	23,703	99,864	9	35	22,441	38	18,053
3	Bicycle and tricycle repairing	3	3,410			1,410	2,000	3			7	3,476
4	Blacksmithing and wheelwrighting	21	9,275	1,000	1,950	2,270	4,055	25			13	6,644
5	Boots and shoes, custom work and repairing.	17	2,770		200	1,175	1,395	18			4	1,814
6	Bread and other bakery products	11	17,040	1,800	4,300	4,950	5,990	11	3	780	42	16,492
7	Carpentering	10	22,325	1,675	2,050	3,450	15,150	13			66	29,200
8	Carriage and wagon materials	4	192,858	7,000	29,343	44,636	111,879	4	6	1,961	237	71,873
9	Carriages and wagons	6	999,263	247,406	76,591	31,820	643,446	3	52	51,392	524	218,888
10	Clothing, men's, custom work and repairing.	6	16,450			750	15,700	7	2	2,260	44	23,164
11	Clothing, women's, dressmaking	10	1,970			640	1,330	10			38	7,370

BY SPECIFED INDUSTRIES: 1900—Continued.

GRAND RAPIDS—Continued.

Average number of wage-earners and total wages—continued.						Miscellaneous expenses.					Cost of materials used.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
102	$47,714	124	$31,450			$48,468	$4,819	$439	$38,210		$136,329	$135,710	$619	$304,739	47
5	2,138					1,045	222	11	812		1,578	1,508	70	6,792	48
20	12,334					5,980	4,926	211	843		8,354	8,178	176	36,117	49
272	109,240					12,301	1,178	1,356	9,767		96,602	90,673	5,929	344,728	50
1,776	768,015	319	65,447	16	$2,310	512,483	21,789	24,717	435,814	$30,163	1,647,718	1,591,400	56,318	3,972,382	51

Cement, 1; liquors, malt, 2; lithographing and engraving, 1; marble and stone work, 2; mattresses and spring beds, 2; mirrors, 1; mucilage and paste, 1; musical instruments and materials, not specified, 1; musical instruments, pianos and materials, 1; paints, 1; paper hanging, 2; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; plumbers' supplies, 1; printing and publishing, music, 1; refrigerators, 1; regalia and society banners and emblems, 1; roofing and roofing materials, 2; rubber and elastic goods, 1; sausage, 1; saws, 1; screws, wood, 1; ship and boat building, wooden, 2; show cases, 1; soap and candles, 2; stamped ware, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 2; stencils and brands, 1; stereotyping and electrotyping, 1; surgical appliances, 1; trunks and valises, 2; umbrellas and canes, 1; upholstering materials, 2; wirework, including wire rope and cable, 1.

JACKSON.

2,914	$1,321,023	1,270	$342,211	22	$3,446	$480,757	$48,780	$22,448	$344,807	$64,722	$4,223,891	$4,106,325	$117,566	$7,587,526	1
8	4,032					1,124	732	47	345		2,472	2,074	398	13,300	2
19	11,472					2,248	1,961	46	241		11,124	10,177	947	40,772	3
3	1,103					807	746	2	59		5,103	5,000	103	12,782	4
31	16,710	7	1,581			8,745	1,816	567	6,362		68,191	65,830	2,361	135,365	5
5	1,850					151	140	4	7		5,191	5,128	63	10,975	6
86	44,346					7,442	607	79	756	6,000	122,874	122,152	722	194,465	7
387	154,113			4	837	15,201	3,195	818	11,188		297,462	289,486	7,976	528,042	8
620	234,953	16	6,172			57,185	2,378	4,838	42,664	7,305	814,175	798,687	15,488	1,308,958	9
23	13,411	18	6,629			3,700	2,578	81	1,041		21,146	20,917	229	59,789	10
		26	5,202			1,083	642		441		2,440	2,375	65	11,900	11
19	9,429	392	118,148	2	532	34,694	3,027	418	31,249		277,440	274,715	2,725	558,370	12
52	22,686	424	96,000	5	700	83,069	3,145	1,148	78,776		241,193	238,399	2,794	584,718	13
1	600	1	150			430	156	60	214		448	405	43	2,920	14
26	13,648					9,475	750	987	7,738		404,056	398,431	5,625	455,239	15
171	84,726	14	2,829			22,623	2,080	2,237	15,271	3,035	114,724	109,838	4,886	279,008	16
8	4,431	1	120			1,138	570	5	563		7,715	7,356	359	15,880	17
55	30,742					1,913	270	824	819		70,243	68,407	1,836	118,280	18
58	28,947					810		28	782		36,845	36,745	100	93,632	19
		53	14,077			9,131	5,191	248	3,692		49,883	49,534	349	86,321	20
6	2,984					834	120	295	419		5,766	5,591	175	18,669	21
46	18,450					11,558	421	110	1,027	10,000	19,505	18,955	550	55,080	22
55	26,597					1,414	795	10	609		14,929	14,739	190	60,400	23
26	10,750					734	150	64	520		32,336	32,186	150	52,950	24
2	791	6	2,083			2,489	1,693	33	763		5,909	5,610	299	18,845	25
39	28,736					2,149	1,446	74	629		42,744	42,549	195	77,840	26
13	7,477	2	520			1,091	848	38	205		5,677	5,206	471	21,935	27
48	28,667	4	1,204	2	200	13,716	1,606	455	10,224	1,431	21,835	20,641	1,194	94,979	28
11	5,820					1,435	1,206	5	224		11,577	11,543	34	26,605	29
30	16,879					2,588	1,871	87	430	200	33,429	33,167	262	70,060	30
18	7,552			7	877	8,436	396	99	7,941		16,572	16,356	216	41,312	31
9	4,075					1,148	736	30	382		2,512	2,475	37	12,375	32
1,089	490,046	306	87,496	2	300	172,196	7,508	8,711	119,226	36,751	1,458,375	1,391,651	66,724	2,525,760	33

models and patterns, 1; paper and wood pulp, 2; paper goods, not elsewhere specified, 1; patent medicines and compounds, 2; perfumery and cosmetics, 1; plastering and stuccowork, 1; pottery, terra cotta, and fire-clay products, 1; roofing and roofing materials, 1; shirts, 2; slaughtering, wholesale, not including meat packing, 1; soap and candles, 1; springs, steel, car and carriage, 1; starch, 1; tools, not elsewhere specified, 1; vinegar and cider, 1; wirework, including wire rope and cable, 2.

KALAMAZOO.

2,990	$1,324,700	1,267	$286,918	36	$5,681	$624,914	$49,238	$29,121	$459,287	$87,268	$4,257,010	$4,142,764	$114,246	$8,056,908	1
36	17,493	2	560			36,344	1,090	883	34,371		82,135	79,235	2,900	188,506	2
7	3,476					923	750	31	142		4,065	3,877	188	11,946	3
13	6,644					2,580	2,333	73	89	85	7,552	6,926	626	33,957	4
4	1,814					1,023	959		24	40	5,031	4,821	210	14,286	5
38	15,700	3	702	1	90	3,314	2,469	151	694		67,058	64,987	2,071	106,880	6
66	29,200					10,655	60	46	149	10,400	80,041	79,853	188	143,130	7
236	71,678			1	195	29,871	365	1,336	28,170		153,648	148,889	4,759	278,141	8
503	212,239	21	6,649			49,130	1,284	2,582	45,264		732,578	727,443	5,135	1,159,991	9
37	20,539	7	2,625			5,194	1,612	79	3,503		21,735	21,385	350	59,940	10
		38	7,370			1,132	961	11	160		4,306	4,105	201	17,805	11

TABLE 8.—MANUFACTURES IN CITIES

KALAMAZOO—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
12	Clothing, women's, factory product	3	$28,100			$5,500	$22,600	8	7	$4,160	72	$25,358
13	Flouring and grist mill products	5	36,759	$8,500	$3,950	13,425	10,884	5	5	2,992	10	5,329
14	Foundry and machine shop products	17	486,307	51,600	54,432	104,044	276,731	11	92	81,748	462	213,425
15	Furniture, factory product	4	7,575	50	2,400	2,700	2,425	4			10	5,282
16	Looking-glass and picture frames	3	4,614			250	4,364	4	4	1,000	6	3,472
17	Lumber, planing mill products, including sash, doors, and blinds.	5	224,975	38,265	29,350	29,822	127,538	5	18	14,368	218	91,180
18	Masonry, brick and stone	4	30,085	500	500	2,490	26,595	8			84	44,880
19	Millinery, custom work	8	17,387			160	17,227	9	8	2,242	34	9,805
20	Painting, house, sign, etc	13	8,326	1,050	900	1,416	4,960	17			27	13,094
21	Patent medicines and compounds	3	344,150	6,800	33,900	6,900	296,550	2	35	46,320	69	49,488
22	Paving and paving materials	3	1,075			125	950	4			6	1,680
23	Photography	6	3,875			1,875	2,000	6	1	416	8	3,052
24	Plumbing, and gas and steam fitting	5	20,250			3,850	16,400	5	6	2,266	24	12,870
25	Printing and publishing, book and job	10	203,239	6,000	17,000	82,230	98,009	15	26	14,114	158	55,738
26	Printing and publishing, newspapers and periodicals.	3	41,600	3,000	3,000	20,400	15,200	1	21	15,908	31	18,830
27	Saddlery and harness	5	10,590	2,000	2,000	440	6,150	5			4	2,160
28	Tinsmithing, coppersmithing, and sheet-iron working.	6	7,200			2,500	4,700	7	1	780	23	11,576
29	Tobacco, cigars and cigarettes	13	84,304	250	375	1,127	82,552	14	6	5,828	161	96,868
30	Watch, clock, and jewelry repairing	5	21,650	10,000	8,000	1,800	1,850	6			5	8,470
31	All other industries[1]	53	2,793,706	129,331	289,206	804,522	1,570,647	40	185	172,481	1,868	557,773

[1] Embraces awnings, tents, and sails, 1; bicycles and tricycles, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brass castings and brass finishing, 2; brooms and brushes, 1; carpets, rag, 2; carriages and sleds, children's, 1; clothing, men's, factory product, 2; coffins, burial cases, and undertakers' goods, 1; confectionery, 2; cooperage, 1; corsets, 2; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 1; electrical construction and repairs, 1; electroplating, 1; engraving, wood, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 2; gloves and

MUSKEGON.

1	All industries	200	$4,602,390	$1,088,428	$444,264	$832,399	$2,242,299	203	172	$153,976	3,235	$1,185,697
2	Bicycle and tricycle repairing	3	3,125			2,700	425	4			4	1,560
3	Blacksmithing and wheelwrighting	16	12,508	2,975	4,450	2,605	2,478	17			11	4,953
4	Boots and shoes, custom work and repairing.	11	3,265	325	1,400	1,095	445	12			1	265
5	Bread and other bakery products	7	9,050	1,200	4,400	1,100	2,350	7			19	6,828
6	Carpentering	12	9,250	100	325	2,200	6,625	11			69	28,427
7	Clothing, men's, custom work and repairing.	10	16,570	5,000	3,000	1,110	7,460	14			31	12,664
8	Clothing, women's, dressmaking	12	10,025	2,000	6,500	1,320	205	15			45	9,376
9	Confectionery	4	17,602	200	400	2,725	14,277	5	2	3,328	22	7,341
10	Foundry and machine shop products	4	152,472	12,200	30,800	35,018	74,454	1	12	11,319	99	39,946
11	Furniture, factory product	4	272,605	4,500	37,850	47,835	182,420	1	12	9,840	263	93,384
12	Looking-glass and picture frames	5	1,878			398	1,480	7			3	678
13	Lumber and timber products	8	1,716,057	878,000	59,500	123,524	655,033	10	23	25,755	622	246,591
14	Lumber, planing mill products, including sash, doors, and blinds.	3	188,513	37,592	23,482	40,675	86,764	3	7	8,060	132	48,280
15	Masonry, brick and stone	4	5,080			650	4,430	5			60	25,618
16	Millinery, custom work	8	9,533	200	1,000	193	8,140	7	3	327	22	5,236
17	Painting, house, sign, etc	16	5,613	625	710	1,426	2,852	18	1	34	33	18,231
18	Photography	4	5,050	600	100	3,600	750	5			6	3,137
19	Plumbing, and gas and steam fitting	4	17,725			4,225	13,500	3	2	598	25	11,684
20	Printing and publishing, newspapers and periodicals.	4	14,783			9,750	5,033	7			35	17,181
21	Saddlery and harness	3	6,250	500	1,600	650	3,500	3			2	1,090
22	Tinsmithing, coppersmithing, and sheet-iron working.	5	6,667	1,000	1,000	1,895	3,272	1			9	5,321
23	Tobacco, cigars and cigarettes	11	20,949	3,600	3,700	1,055	12,594	12	2	1,000	40	15,324
24	Watch, clock, and jewelry repairing	7	4,534			2,175	2,359	5			4	2,034
25	All other industries[1]	35	2,093,286	132,811	264,047	544,975	1,151,453	30	108	93,715	1,678	580,548

[1] Embraces baskets, and rattan and willow ware, 1; bookbinding and blank book making, 1; bottling, 2; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; cooperage, 1; dying and cleaning, 1; electrical construction and repairs, 1; electroplating, 1; flouring and grist mill products, 1; furniture, cabinetmaking, repairing, and upholstering, 2; gas, illuminating and heating, 1; hairwork, 2; hardware, 1; hosiery and knit goods, 2; iron and steel, 1; leather goods, 1; leather, tanned, curried, and finished, 1;

SAGINAW.

1	All industries	480	$7,558,806	$531,125	$917,919	$1,658,744	$4,451,018	505	394	$371,741	4,866	$1,936,558
2	Bicycle and tricycle repairing	7	6,445	100	200	2,370	3,775	8			12	4,159
3	Blacksmithing and wheelwrighting	30	45,895	12,490	16,425	5,810	11,170	34			22	9,870
4	Bookbinding and blank book making	3	6,794			4,700	2,094	3			11	3,175
5	Boots and shoes, custom work and repairing.	7	1,965		150	1,150	665	8			2	680
6	Bottling	15	21,296	3,450	6,200	2,943	8,703	17			16	6,936

BY SPECIFIED INDUSTRIES: 1900—Continued.

KALAMAZOO—Continued.

Average number of wage-earners and total wages—continued.						Miscellaneous expenses.					Cost of materials used.				
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	Value of products, including custom work and repairing.	
9	$5,548	63	$19,810			$2,726	$830	$110	$1,786		$51,580	$51,130	$450	$112,050	12
10	5,329					1,385	280	530	575		110,968	109,418	1,550	131,703	13
462	213,425					43,516	2,792	2,876	37,848		301,569	290,956	10,613	751,771	14
10	5,282					865	640	50	175		5,352	5,172	180	15,400	15
6	3,472					1,035	814	40	181		4,804	4,739	65	13,564	16
188	86,180			30	$5,000	12,468	1,000	1,788	9,680	$50	244,020	241,170	2,850	401,261	17
84	44,880					75,095		10	85	75,000	73,420	73,360	60	226,975	18
		34	9,805			6,405	4,477	417	1,511		36,833	36,483	350	71,700	19
27	13,094					633	466	44	173		12,188	12,122	66	39,767	20
40	32,719	29	16,764			29,308	5	1,509	27,794		128,948	127,350	1,598	306,200	21
6	1,680					1,208				1,208	8,966	8,966		14,950	22
5	2,076	3	976			1,892	1,304	30	508	50	6,194	5,999	195	17,375	23
24	12,870					2,348	1,850	103	395		23,628	23,365	263	57,200	24
113	48,202	45	7,536			15,125	2,409	1,059	11,657		75,055	73,605	1,450	194,448	25
29	13,470	1	260	1	100	6,092	890	383	4,419	400	14,644	13,829	815	66,985	26
4	2,160					1,149	910	122	117		7,368	7,234	134	14,790	27
23	11,576					1,555	1,330	101	124		16,010	15,908	102	35,777	28
140	92,078	20	4,680	1	110	16,032	3,036	101	12,895		124,295	123,869	426	283,144	29
5	3,470					722	544	143	35		4,276	4,164	112	12,200	30
865	348,406	1,001	209,181	2	186	265,139	13,778	14,563	236,763	35	1,848,743	1,772,404	76,339	3,275,066	31

mittens, 1; leather, tanned, curried, and finished, 2; liquors, malt, 1; lock and gun smithing, 1; mattresses and spring beds, 1; mineral and soda waters, 1; monuments and tombstones, 1; oil, essential, 1; paints, 2; paper and wood pulp, 2; paper goods, not elsewhere specified, 1; photographic materials, 1; roofing and roofing materials, 1; rubber and elastic goods, 1; ship and boat building, wooden, 1; soap and candles, 1; sporting goods, 1; springs, steel, car and carriage, 2; stereotyping and electrotyping, 1; windmills, 1; window shades, 1; wood, turned and carved, 1.

MUSKEGON.

2,553	$1,057,066	560	$113,311	122	$15,320	$386,488	$16,687	$41,708	$315,531	$12,562	$2,631,279	$2,556,585	$74,694	$5,097,059	1
4	1,560					415	348		67		2,461	2,391	70	6,566	2
11	4,953					1,029	716	204	109		7,359	6,740	619	24,145	3
1	265					552	520	32			2,978	2,794	184	9,460	4
17	6,574	2	254			954	640	114	200		19,476	18,994	482	38,089	5
69	28,427					109	54	5	50		58,566	58,566		104,951	6
21	9,589	10	3,075			1,272	807	202	263		10,917	10,759	158	34,657	7
		45	9,376			518	292	142	84		2,210	1,918	292	22,183	8
12	4,934	10	2,407			1,677	804	155	718		37,853	37,372	481	56,205	9
99	39,946					5,811		2,120	3,691		57,522	52,047	5,475	127,441	10
248	92,006	2	500	13	878	13,718	1,086	2,163	10,469		119,436	114,652	4,784	267,644	11
2	510	1	168			984	720	32	232		2,292	2,204	88	6,400	12
622	246,591					98,878		19,523	74,955	4,400	605,834	605,834		1,223,918	13
127	47,380			5	900	7,231		1,389	5,842		58,743	58,713	30	134,041	14
60	25,618					351			351		53,989	53,989		107,838	15
		22	5,236			1,990	1,433	151	406		20,834	20,708	126	38,525	16
33	18,231					469	404	17	48		10,117	10,102	15	45,023	17
5	2,775	1	362			767	636	31	100		2,855	2,735	120	9,800	18
25	11,684					2,336	680	1,367	289		42,168	41,613	555	65,300	19
30	14,991	5	2,190			4,402	1,029	220	2,991	162	8,235	7,755	480	37,502	20
2	1,090					719	540	117	62		2,783	2,693	90	6,605	21
9	5,321					1,114	518	100	496		9,378	9,293	85	20,783	22
34	14,087	2	800	4	437	8,604	1,240	64	7,300		21,017	20,783	234	56,387	23
4	2,034					1,128	845	12	271		3,058	2,983	75	11,172	24
1,118	478,500	460	88,943	100	13,105	231,460	3,375	13,548	206,537	8,000	1,471,198	1,410,947	60,251	2,642,424	25

liquors, malt, 1; lock and gun smithing, 1; monuments and tombstones, 1; musical instruments, pianos and materials, 1; paving and paving materials, 1; plastering and stuccowork, 1; plumbers' supplies, 1; printing and publishing, book and job, 2; saws, 1; sewing machine repairing, 1; stationery goods, not elsewhere specified, 1.

SAGINAW.

4,288	$1,823,485	547	$107,505	31	$5,568	$594,269	$51,166	$42,825	$479,746	$20,532	$5,816,237	$5,711,066	$105,171	$10,034,499	1
12	4,159					1,485	1,058	167	260		9,214	8,838	376	18,400	2
21	9,770			1	100	3,402	1,416	999	987		14,337	12,979	1,358	55,174	3
4	2,000	7	1,175			524	340	8	176		1,250	1,230	20	10,045	4
2	680					575	564		11		2,323	2,303	20	6,615	5
16	6,936					2,430	731	213	1,486		20,924	20,751	173	36,599	6

TABLE 8.—MANUFACTURES IN CITIES

SAGINAW—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND VILLAGES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
7	Bread and other bakery products	15	$41,840	$8,300	$19,500	$8,535	$5,005	15	1	$260	31	$13,477
8	Carpentering	24	38,350	5,000	10,710	5,080	17,560	25			88	49,075
9	Carriages and wagons	11	114,169	5,700	22,063	16,281	70,125	10	15	8,700	58	26,924
10	Clothing, men's, custom work and repairing.	21	41,190	1,600	4,500	2,880	32,210	25	1	300	81	39,571
11	Clothing, women's, dressmaking	26	6,433	200	500	2,928	2,805	26	2	1,500	127	21,343
12	Confectionery	4	8,850			3,600	5,250	4	4	560	20	5,712
13	Cooperage	7	216,665	41,804	20,522	65,321	89,518	8	5	4,520	204	69,203
14	Flouring and grist mill products	4	194,700	19,000	48,500	64,200	63,000	4	11	9,000	35	19,664
15	Foundry and machine shop products	10	1,093,773	48,116	102,785	252,846	690,026	7	70	88,721	575	285,750
16	Fur goods	3	8,018	200	200	643	6,975	5			10	2,794
17	Furniture, cabinetmaking, repairing, and upholstering.	11	24,385	275	1,000	5,790	17,320	11	5	363	7	2,525
18	Furniture, factory product	4	92,077	2,000	15,000	14,561	60,516	5	6	6,000	92	36,187
19	Liquors, malt	5	271,208	20,700	65,000	70,518	114,990	4	11	13,960	45	26,809
20	Looking-glass and picture frames	4	3,725		200	425	3,100	3			5	1,930
21	Lumber and timber products	8	965,816	85,450	57,100	109,650	713,616	10	29	25,759	388	159,899
22	Lumber, planing mill products, including sash, doors, and blinds.	10	1,465,959	58,180	116,370	110,837	1,180,572	10	56	56,746	576	210,267
23	Masonry, brick and stone	13	7,110	900	2,550	1,185	2,475	14			81	38,770
24	Millinery, custom work	14	34,145	1,500	7,000	1,970	23,675	16	10	3,522	56	13,037
25	Mineral and soda waters	3	12,650	500	1,000	8,800	2,350	4			8	4,436
26	Painting, house, sign, etc	21	33,770	3,200	7,475	4,340	18,755	22	7	2,782	84	37,874
27	Patent medicines and compounds	4	3,592	400	1,400	252	1,540	5			5	500
28	Paving and paving materials	10	37,002	2,200	3,100	9,382	22,320	15	3	3,000	68	31,138
29	Photography	12	9,860		750	8,050	1,060	14			8	2,450
30	Plumbing, and gas and steam fitting	11	29,937	650	1,750	3,910	23,627	14	3	1,440	43	23,302
31	Printing and publishing, book and job	11	106,717	2,500	17,596	63,774	22,847	16	2	1,100	57	23,527
32	Printing and publishing, newspapers and periodicals.	8	68,783	500	1,500	40,524	26,259	5	27	26,530	64	38,912
33	Saddlery and harness	11	18,944	1,800	750	7,925	8,469	10	1	600	52	22,446
34	Salt	10	181,569	47,789	42,900	41,000	49,880	6	8	4,840	68	31,602
35	Tinsmithing, coppersmithing, and sheet-iron working.	18	31,840	3,400	7,500	7,750	13,190	20	3	4,436	42	18,418
36	Tobacco, cigars and cigarettes	19	56,510	2,005	3,650	1,848	49,007	20	3	2,000	117	50,332
37	Tools, not elsewhere specified	3	114,524	2,250	18,200	30,710	63,364	4	14	14,507	145	47,577
38	Watch, clock, and jewelry repairing	15	4,675	100	200	2,900	1,475	16			12	5,726
39	All other industries[1]	68	2,138,125	149,366	293,673	673,356	1,021,730	62	97	90,595	1,551	550,451

[1] Embraces agricultural implements, 2; awnings, tents, and sails, 2; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; boxes, fancy and paper, 1; boxes, wooden packing, 2; brick and tile, 1; bridges, 1; brooms and brushes, 1; carpets, rag, 2; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; chemicals, 1; china decorating, 2; clothing, men's, factory product, 1; clothing, women's, factory product, 2; dyeing and cleaning, 2; electrical construction and repairs, 1; electroplating, 2; engraving, wood, 1; fancy articles, not elsewhere specified, 1; gas, illuminating and heating, 2; graphite and graphite refining, 1; hairwork, 2; hand stamps, 1; hardware, 1; house furnishing

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and villages	4,393	$65,566,769	$9,674,186	$8,207,354	$13,982,463	$33,702,816	4,861	3,067	$2,555,181	37,529	$15,818,871
2	Adrian	166	1,756,050	117,561	278,002	400,371	960,116	191	196	129,328	1,151	499,879
3	Albion	61	1,420,593	35,982	166,643	276,447	941,521	70	85	67,447	520	221,913
4	Allegan	54	193,453	29,185	30,595	51,360	82,313	66	9	5,166	184	65,371
5	Alpena	98	2,585,476	251,307	328,646	613,235	1,392,288	120	60	48,351	1,004	420,334
6	Ann Arbor	231	1,304,694	125,153	213,073	379,714	586,754	273	88	56,297	1,187	462,181
7	Au Sable	6	9,380	2,655	1,150	3,575	2,000	6	2	2,700	38	17,700
8	Battle Creek	177	7,354,492	322,031	634,529	808,225	5,589,707	190	448	409,557	2,323	1,079,934
9	Benton Harbor	89	1,215,244	69,656	163,256	524,691	457,641	98	58	47,550	700	247,166
10	Bessemer	27	87,975	2,700	6,800	10,400	68,075	25	8	9,000	43	23,992
11	Big Rapids	59	554,666	52,877	99,524	135,108	267,157	64	22	17,848	454	180,285
12	Cadillac	63	2,553,064	862,073	91,043	330,432	1,269,516	86	34	28,853	788	362,660
13	Charlotte	65	360,900	18,895	51,925	116,314	173,766	82	43	23,363	327	120,069
14	Cheboygan	61	1,845,540	143,502	179,482	347,997	1,174,559	69	38	40,549	665	280,188
15	Chelsea	40	207,550	14,200	30,100	50,050	113,200	47	26	13,254	188	70,415
16	Coldwater	119	1,925,720	261,227	283,661	972,348	408,484	132	72	71,428	846	324,389
17	Dowagiac	71	1,215,933	29,550	54,690	77,594	1,054,099	81	73	55,316	667	333,495
18	East Tawas	23	193,176	28,325	24,450	34,270	106,131	24	10	3,800	71	25,686
19	Eaton Rapids	40	124,037	8,325	26,028	42,120	47,564	44	4	2,379	90	30,232
20	Flint	154	2,605,428	134,046	211,460	375,822	1,884,100	174	93	74,220	2,186	895,186
21	Grand Haven	56	576,910	43,350	104,082	152,854	276,624	64	23	15,324	533	194,473
22	Greenville	90	542,117	51,767	60,385	87,047	342,918	107	39	41,832	388	170,356
23	Hastings	57	350,792	7,650	40,594	80,018	222,530	66	14	12,935	347	125,772
24	Hillsdale	88	606,278	38,238	93,212	165,129	309,699	96	33	28,555	332	152,337
25	Hudson	74	395,090	21,546	43,765	90,197	239,582	85	28	18,105	227	106,360
26	Ironwood	47	163,090	30,235	20,000	33,875	78,980	52	2	1,720	134	66,288
27	Ishpeming	55	192,887	13,200	29,800	53,537	96,350	60	5	6,600	191	97,256
28	Lansing	164	2,018,219	129,229	291,740	570,375	1,026,875	188	176	138,613	1,575	647,788
29	Ludington	61	1,852,865	513,150	142,900	333,180	863,635	56	30	32,195	763	350,674
30	Manistee	140	5,608,707	2,055,805	625,423	930,553	1,996,926	133	105	99,194	1,745	772,354
31	Marine City	38	249,362	16,975	74,000	77,370	81,017	44	9	5,620	148	69,582

BY SPECIFIED INDUSTRIES: 1900—Continued.

SAGINAW—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.				
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	Value of products, including custom work and repairing.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
27	$12,555	4	$922			$4,388	$795	$674	$2,919		$41,973	$40,885	$1,588	$74,230	7
88	49,075					2,401	314	378	1,009	$700	69,488	69,013	475	151,475	8
58	26,924					15,295	912	818	12,865	700	48,920	46,535	2,385	140,861	9
71	36,655	8	2,591	2	$325	7,549	4,495	127	2,927		47,652	47,499	153	126,680	10
1	600	125	20,623	1	120	3,116	2,805	7	304		24,660	24,359	301	68,100	11
10	4,399	10	1,313			1,055	791	24	240		17,528	17,210	318	33,500	12
198	66,499			11	2,704	8,253	190	1,328	6,735		120,987	120,887	100	224,179	13
35	19,664					7,475		1,275	6,200		345,953	341,023	4,930	412,962	14
572	285,266			3	484	100,815	350	5,413	85,052	10,000	721,305	698,935	22,370	1,256,183	15
8	850	7	1,944			1,033	780	96	157		5,132	5,102	30	20,530	16
7	2,525					1,313	617	115	581		6,335	5,910	425	16,164	17
90	35,667	2	520			7,212	1,460	340	5,412		58,738	57,540	1,198	131,280	18
45	26,809					82,565	2,000	2,318	78,247		42,281	37,410	4,871	206,155	19
2	1,030	3	950			1,154	405	31	718		3,810	3,785	25	8,175	20
388	159,899					32,589	1,120	7,928	23,541		457,965	457,965		799,228	21
574	209,467	2	800			54,613	300	5,720	48,593		1,430,691	1,427,646	3,045	1,848,233	22
81	38,770					1,249	100	40	509	600	118,868	118,793	75	184,200	23
		55	12,929	1	108	7,933	5,850	300	1,783		39,088	38,778	310	82,377	24
8	4,436					1,475	298	84	1,093		5,256	4,986	270	14,976	25
83	37,724			1	150	4,526	2,584	309	1,633		48,953	48,783	170	116,287	26
				5	500	3,470	170	50	3,250		5,937	5,882	55	15,918	27
68	31,138					3,529	120	172	2,637	600	95,032	94,732	300	147,073	28
6	1,900	2	550			2,366	1,866	62	438		6,333	6,253	80	21,245	29
42	23,052	1	250			3,265	1,956	132	1,177		58,594	58,402	192	106,706	30
45	21,263	12	2,264			6,237	2,025	892	3,320		27,096	25,413	1,683	81,078	31
59	37,466	3	1,196	2	250	16,494	2,295	280	9,169	4,750	20,044	18,981	1,063	136,003	32
51	22,164			1	282	3,817	1,794	133	1,631	259	74,650	74,170	480	117,974	33
67	31,487			1	175	6,348		2,487	3,861		70,413	47,194	23,219	146,623	34
41	18,175			1	243	2,732	1,729	184	819		41,670	41,203	467	85,819	35
92	45,632	24	4,573	1	127	30,136	1,733	114	27,939	350	59,533	59,147	386	177,787	36
105	39,077	40	8,500			12,927	560	320	12,047		75,469	73,959	1,510	186,346	37
11	5,576	1	150			1,043	871	25	147		3,129	3,075	54	18,059	38
1,310	504,196	241	46,255			147,480	5,772	9,262	129,873	2,573	1,574,706	1,544,010	30,696	2,751,260	39

goods, not elsewhere specified, 1; leather, tanned, curried, and finished, 1; lime and cement, 1; lock and gun smithing, 2; marble and stone work, 2; monuments and tombstones, 1; musical instruments and materials, not specified, 2; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paper hanging, 2; photolithographing and photoengraving, 1; pickles, preserves, and sauces, 1; plastering and stuccowork, 2; pumps, not including steam pumps, 1; roofing and roofing materials, 2; sausage, 1; saws, 1; ship and boat building, wooden, 1; shirts, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 1; surgical appliances, 1; taxidermy, 1; toys and games, 1; wood, turned and carved, 1; woodenware, not elsewhere specified, 1.

VILLAGES UNDER 20,000 IN POPULATION: 1900.

32,834	$14,759,078	4,341	$1,002,847	354	$51,946	$5,790,973	$396,806	$490,869	$4,530,553	$372,745	$42,158,867	$41,244,365	$914,502	$79,867,977	1
974	464,979	166	33,197	11	1,703	164,186	14,219	8,050	127,305	14,612	1,041,707	1,018,662	23,045	2,424,678	2
491	215,892	26	5,587	3	434	118,938	5,591	6,210	106,800	387	503,879	493,367	10,512	1,080,426	3
161	61,160	23	4,211			15,195	2,963	2,548	9,651	33	218,375	207,935	10,440	363,278	4
935	406,158	52	11,903	17	2,273	126,462	6,953	16,024	103,485		1,476,618	1,443,121	33,492	2,445,896	5
941	407,762	239	53,536	7	883	209,967	24,271	7,679	76,461	101,556	1,238,260	1,214,663	23,597	2,340,138	6
35	17,150	3	550			621	70	353	198		25,644	25,469	175	57,725	7
1,953	989,991	363	88,634	7	1,309	1,467,100	22,759	26,312	1,404,049	13,980	2,351,015	2,296,231	54,784	6,753,208	8
587	224,047	101	22,011	12	1,108	65,208	8,000	4,659	46,349	6,200	737,546	721,449	16,097	1,269,243	9
40	23,452	2	440	1	100	6,552	2,233	316	4,003		70,659	68,358	2,301	141,466	10
429	175,116	24	5,049	1	120	32,699	3,539	4,698	24,094	368	401,545	398,859	2,686	761,634	11
738	351,135	44	10,403	6	1,122	104,501	4,368	34,024	66,109		1,364,339	1,360,471	3,868	2,164,787	12
274	108,155	53	11,914			23,351	4,620	2,742	13,989	2,000	285,638	279,869	5,769	528,317	13
646	276,065	16	3,329	3	794	118,522	5,434	11,981	101,107		1,054,867	1,046,138	8,729	1,730,843	14
171	67,120	15	3,000	2	295	8,705	1,543	932	6,230		123,785	120,118	3,667	293,452	15
695	294,992	142	27,921	9	1,476	104,750	9,136	5,194	90,305	115	1,200,058	1,178,280	21,778	1,935,543	16
639	326,741	26	6,430	2	324	103,828	4,506	4,638	94,684		601,115	589,069	12,046	1,389,216	17
58	23,152	11	2,385	2	99	14,758	794	1,873	11,408	683	61,713	59,848	1,865	170,310	18
61	23,925	29	6,307			8,418	3,267	777	4,374		156,541	154,293	2,248	246,919	19
1,918	826,621	259	67,560	9	1,005	262,543	19,177	12,127	183,314	47,925	3,006,436	2,969,865	36,571	5,198,827	20
466	181,261	37	11,449	30	1,763	49,427	2,242	6,301	39,939	945	417,929	406,137	11,792	826,165	21
346	162,966	40	7,065	2	325	82,346	3,684	3,956	51,307	23,399	452,764	449,345	3,419	851,688	22
269	105,769	78	20,003			37,413	6,545	1,677	29,191		382,962	370,122	12,840	691,046	23
237	120,421	93	31,291	2	625	27,701	6,100	2,215	18,806	550	1,047,550	1,031,070	16,480	1,384,462	24
206	101,025	21	5,335			29,077	3,429	1,199	23,139	1,310	311,418	307,047	4,371	610,152	25
118	63,908	16	2,380			8,371	4,173	1,494	2,704		103,224	100,895	2,329	250,463	26
165	90,844	24	6,190	2	222	17,540	8,044	816	8,580	100	186,010	182,213	3,797	404,916	27
1,358	592,250	212	54,753	5	785	188,327	28,182	12,232	136,282	11,631	1,364,881	1,333,108	31,723	2,827,842	28
674	332,653	71	16,216	18	1,805	83,810	4,210	18,990	50,959	9,651	1,188,854	1,146,677	42,177	2,188,412	29
1,637	749,652	76	16,763	32	5,939	265,974	9,926	97,484	154,990	3,574	1,840,630	1,807,968	32,662	3,886,420	30
141	67,832	7	1,750			14,847	3,680	2,112	8,555	500	173,740	155,039	18,701	298,537	31

TABLE 9.—MANUFACTURES IN CITIES AND

	Cities and villages.	Number of establishments.	Capital.					Proprietors and firm members.	Salaried officials, clerks, etc.		Average number of wage-earners and total wages.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
32	Marquette	78	$1,565,390	$420,012	$214,277	$289,648	$641,453	87	61	$71,416	645	$344,930
33	Marshall	86	461,692	53,250	111,486	117,739	179,217	97	100	37,940	336	144,280
34	Menominee	90	5,451,446	1,683,550	413,541	715,250	2,639,105	83	93	133,565	1,968	912,016
35	Monroe	86	374,889	20,954	56,842	105,664	191,429	97	32	17,317	372	139,505
36	Mt. Clemens	78	403,273	57,580	84,440	101,335	159,918	92	20	13,394	328	130,212
37	Mt. Pleasant	58	242,593	20,175	32,332	85,321	104,765	51	17	15,716	262	90,626
38	Negaunee	32	68,467	7,700	22,877	12,335	25,555	34	2	480	68	35,874
39	Niles	78	901,507	137,300	157,750	324,590	281,867	73	34	26,218	620	223,603
40	Otsego	28	531,776	21,775	94,365	108,435	307,201	27	24	19,886	458	143,282
41	Owosso	111	1,685,715	91,134	285,103	257,509	1,051,969	114	81	85,323	1,260	513,275
42	Pontiac	106	1,393,867	75,185	180,248	264,676	873,758	114	110	79,726	1,315	512,161
43	Port Huron	186	3,301,954	290,975	620,807	836,645	1,553,527	189	227	148,447	2,417	1,119,320
44	Reed City	55	272,790	28,035	32,165	88,299	124,291	69	6	4,095	260	103,051
45	St. Clair	36	395,180	47,400	70,732	93,025	184,023	37	23	17,615	238	101,995
46	St. Johns	59	476,258	23,670	78,500	135,263	238,825	63	11	18,535	295	95,469
47	St. Joseph	75	954,419	64,218	107,938	284,289	497,974	81	84	82,058	933	353,591
48	St. Louis	37	60,040	16,050	11,750	15,625	16,615	42	2	1,216	47	16,306
49	Sault Ste. Marie	84	723,936	313,106	49,475	157,255	204,100	102	38	22,913	472	262,582
50	Sturgis	56	337,252	13,985	54,040	59,902	209,325	66	15	13,726	323	120,507
51	Tawas City	11	161,715	14,350	40,750	42,840	63,775	17	7	5,222	108	48,440
52	Tecumseh	61	264,815	33,050	68,850	57,060	105,855	65	12	7,640	293	123,348
53	Three Rivers	67	561,558	49,035	138,500	140,009	234,014	66	31	33,536	491	201,498
54	Traverse City	80	1,004,531	177,411	137,801	256,408	432,911	94	53	44,900	878	374,396
55	West Bay City	121	2,323,910	450,575	473,175	882,914	517,246	124	56	66,024	2,153	868,504
56	Wyandotte	50	679,947	63,816	118,031	138,396	359,704	63	31	36,555	493	187,822
57	Ypsilanti	110	893,161	69,450	150,621	287,823	390,267	121	64	54,619	681	233,013

VILLAGES UNDER 20,000 IN POPULATION: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
604	$330,384	41	$14,546	------	------	$186,411	$11,437	$6,797	$149,951	$18,226	$1,128,736	$1,058,598	$70,138	$2,005,486	32
276	130,793	59	13,331	1	$156	135,842	5,553	3,294	124,995	2,000	322,695	315,547	7,148	820,254	33
1,895	894,372	63	15,844	10	1,800	287,816	10,218	62,450	214,698	450	2,615,528	2,601,404	14,124	4,685,324	34
338	134,583	29	4,082	5	840	40,001	6,880	2,445	30,376	300	324,186	313,733	10,453	632,495	35
312	126,723	14	3,196	2	293	48,410	7,803	2,164	38,247	196	220,980	213,743	7,237	533,207	36
245	87,291	17	3,335	------	------	18,178	3,254	3,241	11,533	150	187,163	185,488	1,675	389,916	37
56	32,790	10	2,784	2	300	5,583	2,506	415	1,542	1,120	57,417	55,734	1,683	143,432	38
502	201,259	117	22,144	1	200	29,273	4,618	6,270	18,210	175	731,415	690,322	41,093	1,183,793	39
319	115,841	139	27,441	------	------	56,385	918	6,595	23,306	25,566	358,713	332,731	25,982	663,451	40
1,121	485,455	104	22,937	35	4,883	118,087	9,707	8,767	99,613	------	1,380,506	1,361,734	18,772	2,265,498	41
1,132	474,814	180	36,807	3	540	96,587	9,975	7,938	75,279	3,400	1,754,532	1,730,262	24,270	2,793,499	42
2,177	1,063,513	225	54,219	15	1,588	249,995	28,711	11,933	199,006	10,345	2,078,896	2,016,258	62,638	4,298,743	43
235	97,313	18	4,192	7	1,546	30,567	2,476	2,093	15,998	10,000	291,488	288,662	2,826	536,451	44
194	92,240	42	9,455	2	300	21,354	1,035	2,782	17,537	------	279,689	252,676	27,013	515,968	45
267	89,382	27	6,037	1	100	27,507	3,488	3,020	18,299	2,700	304,482	296,231	8,251	539,252	46
682	290,112	284	60,291	17	3,188	73,343	6,145	4,311	61,387	1,500	606,969	588,179	18,790	1,308,277	47
39	15,111	6	1,039	2	156	4,183	1,477	890	1,816	------	94,818	93,345	1,473	149,854	48
415	247,924	54	14,194	3	464	56,284	10,883	3,525	41,826	------	491,004	486,043	4,961	1,166,700	49
307	117,812	16	2,695	------	------	14,401	2,762	1,565	9,974	100	233,542	227,573	5,969	478,093	50
107	48,240	1	200	------	------	3,513	229	675	2,609	------	95,173	93,274	1,899	173,715	51
264	117,042	28	6,162	1	144	24,863	2,292	1,475	17,696	3,400	190,394	184,380	6,014	429,085	52
454	193,509	37	7,989	------	------	49,347	7,526	5,624	34,166	2,031	828,206	806,386	21,880	1,238,245	53
734	338,319	127	32,956	17	3,121	53,601	9,248	8,115	35,238	1,000	629,634	622,045	7,589	1,362,860	54
2,069	851,582	48	10,544	36	6,378	214,327	9,757	24,737	146,133	33,700	2,294,668	2,262,768	31,900	3,763,522	55
360	160,244	122	26,138	11	1,440	88,743	2,762	3,272	74,342	8,367	542,419	517,856	24,563	956,055	56
367	170,286	314	62,727	------	------	95,235	11,488	6,838	68,409	8,500	725,907	713,707	12,200	1,318,793	57

Twelfth Census of the United States.

CENSUS BULLETIN.

No. 148. WASHINGTON, D. C. March 5, 1902.

MANUFACTURES.

TENNESSEE.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of Tennessee for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

There were 18 cities and towns in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and towns which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Four cities in Tennessee contain a population exceeding 20,000 each: Chattanooga, Knoxville, Memphis, and Nashville. The manufacturing statistics of these 4 cities are presented by specified industries and in comparison with the returns of the Eleventh Census.

Dr. Charles W. Dabney, President of the University of Tennessee, rendered valuable assistance in the preparation of the text for the accompanying report.

The statistics of Tennessee are presented in 9 tables: Table 1 showing comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics for eleemosynary and penal institutions, and establishments with a product of less than $500, which two latter classes were not reported at previous censuses; Table 3 showing the statistics of the 10 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Chattanooga, Knoxville, Memphis, and Nashville at the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities and towns withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics for the cities of Chattanooga, Knoxville, Memphis, and Nashville by specified industries; and Table 9 showing the totals for all industries in each of the cities and towns withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in Tennessee for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in Tennessee manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw mate-

rials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments. The number of salaried officials, clerks, etc., is the greatest number reported employed at any one time during the year. For the cotton-ginning industry this number may appear excessive as compared with the amount of salaries paid; but allowance should be made for the fact that a considerable number of clerks are employed for only a part of the year; consequently the amount they receive would be small if reckoned as an annual salary.

The reports show a capital of $71,182,966 invested in manufactures and mechanical industries in the 8,007 establishments reporting for the state of Tennessee. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is returned at $107,437,879, to produce which involved an outlay of $3,244,100 for salaries of officials, clerks, etc.; $16,533,349 for wages; $6,179,332 for miscellaneous expenses, including rent, taxes, etc.; and $63,384,665 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the product given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of Tennessee, $107,437,879, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the value of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for Tennessee, the gross value of products for 1900 was $107,437,879. The value of materials purchased in a partly manufactured form was $29,789,638. The difference, $77,648,241, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

Very respectfully,

S. N. D. North

Chief Statistician for Manufactures.

TENNESSEE.

Table 1 shows the manufacturing and mechanical industries of the state of Tennessee as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	8,007	4,559	4,326	5,317	2,572	2,887	75.6	5.4	[1]18.6	106.7	[1]10.9
Capital	$71,182,966	$51,475,092	$20,092,845	$15,595,295	$14,426,261	$6,527,729	38.3	156.2	28.8	8.1	121.0
Salaried officials, clerks, etc., number	3,053	[2]5,272	(3)	(3)	(3)	(3)	[1]30.7	------	------	------	------
Salaries	$3,244,100	[2]$3,342,171	(3)	(3)	(3)	(3)	[1]2.9	------	------	------	------
Wage-earners, average number	50,167	37,487	22,445	19,412	12,528	12,039	33.8	67.0	15.6	54.9	4.1
Total wages	$16,533,349	$13,557,180	$5,254,775	$5,390,630	$3,370,687	$2,247,492	22.0	158.0	[1]2.5	59.9	50.0
Men, 16 years and over	42,195	32,644	19,575	17,663	11,582	11,080	29.3	66.8	10.8	52.5	4.5
Wages	$15,091,897	$12,703,062	(3)	(3)	(3)	(3)	18.8	------	------	------	------
Women, 16 years and over	5,810	3,273	1,196	1,089	946	959	77.5	173.7	9.8	15.1	[1]1.4
Wages	$1,193,374	$679,068	(3)	(3)	(3)	(3)	75.7	------	------	------	------
Children, under 16 years	2,162	1,570	1,674	660	(3)	(3)	37.7	[1]6.2	153.6	------	------
Wages	$248,078	$175,050	(3)	(3)	(3)	(3)	41.7	------	------	------	------
Miscellaneous expenses	$6,179,332	$4,126,271	(4)	(4)	(4)	(4)	49.8	------	------	------	------
Cost of materials used	$63,384,665	$40,463,782	$23,834,262	$19,657,027	$9,416,514	$5,166,886	56.6	69.8	21.3	108.8	82.2
Value of products, including custom work and repairing	$107,437,879	$72,355,286	$37,074,886	$34,362,686	$17,987,225	$9,725,608	48.5	95.2	7.9	91.0	84.9
Total population	2,020,616	1,767,518	1,542,359	1,258,520	1,109,801	1,002,717	14.3	14.6	22.6	13.4	10.7
Wage-earners engaged in manufactures	50,167	37,487	22,445	19,412	12,528	12,039	33.8	67.0	15.6	54.9	4.1
Per cent of total population	2.5	2.1	1.5	1.5	1.1	1.2	------	------	------	------	------
Assessed value of real estate	[5]$291,865,880	$292,872,811	$195,644,200	$223,035,375	$219,991,180	$107,981,793	[1]0.3	49.7	[1]12.3	1.4	103.7
Value of land and buildings invested in manufactures [6]	$20,205,498	$13,705,247	(3)	(3)	(3)	(3)	47.4	------	------	------	------
Per cent of assessed value	6.9	4.7	------	------	------	------	------	------	------	------	------

[1] Decrease.
[2] Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)
[3] Not reported separately.
[4] Not reported.
[5] As given in the Biennial Report of the Comptroller of the Treasury of the State of Tennessee, 1899-1900.
[6] Does not include value of rented property.

Table 1 shows that there has been a large growth in the manufacturing and mechanical industries of Tennessee during the half century. The population during these years increased from 1,002,717 to 2,020,616, or 101.5 per cent, while the average number of wage-earners employed in manufacturing establishments increased from 12,039 to 50,167, or 316.7 per cent, embracing, in 1900, 2.5 per cent of the entire population, compared with 1.2 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 72,618, or 3.6 per cent of the total population of the state. Both the greatest percentage of increase, 95.2, and the greatest absolute increase, $35,280,400, in the value of products are shown for the decade ending with 1890, although during the decade ending with 1900 there was an absolute increase of nearly as much—$35,082,593.

The manufactures of Tennessee are based largely upon natural resources. Since 1880 the increase in the more important manufactures has been marked. Mineral deposits—including iron and copper ores and coal—largely neglected until within the last twenty-five years, are the chief causes of this growth. Fields of coal of excellent coking quality underlie 5,100 square miles of the state, and the production in 1899 amounted to 3,330,659 short tons,[1] or nearly twice the production of 1889. In 1899 Tennessee ranked thirteenth among the states in coal production.

Tennessee is traversed by several trunk railways. In 1900 its mileage aggregated 3,137 miles, or 7.51 miles per 100 square miles of territory, as compared with an average of 6.51 miles for the United States.[2] The state has also several navigable rivers. The Mississippi River, its western boundary, furnishes communication with the entire Mississippi Valley. Manufactures are fairly well distributed and diversified, those based upon grain and lumber predominating in the central and western sections, and those based upon minerals in the eastern part.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for eleemosynary and penal institutions, and establishments with a product of less than $500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

[1] United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 338.
[2] Interstate Commerce Commission: Statistics of Railways in the United States, 1900, pages 12 and 13.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS. Average number.	WAGE-EARNERS. Total wages.	Miscellaneous expenses.	COST OF MATERIALS USED. Total.	COST OF MATERIALS USED. Purchased in raw state.	COST OF MATERIALS USED. Purchased in partially manufactured form.	COST OF MATERIALS USED. Fuel, freight, etc.	Value of products, including custom work and repairing.
Total	12,883	$72,427,651	15,238	52,215	$16,588,037	$6,222,704	$63,741,485	$29,663,858	$30,020,572	$4,057,055	$108,603,799
Hand trades[1]	2,308	2,857,500	2,758	4,755	1,947,721	600,579	3,371,809	41,114	3,222,519	108,176	8,280,691
Eleemosynary and penal institutions	5	69,700	.....	3	1,140	502	39,517	28,847	10,390	280	96,736
Establishments with a product of less than $500	4,871	1,174,985	5,424	2,045	53,548	42,870	317,303	95,488	220,544	1,271	1,074,184
All other establishments	5,699	68,325,466	7,056	45,412	14,585,628	5,578,753	60,012,856	29,498,409	26,567,119	3,947,328	99,157,188

[1] Includes bicycle and tricycle repairing, 35; blacksmithing and wheelwrighting, 1,007; boots and shoes, custom work and repairing, 196; carpentering, 183; clothing, men's, custom work and repairing, 141; clothing, women's, dressmaking, 77; dyeing and cleaning, 39; furniture, cabinetmaking, repairing, and upholstering, 80; lock and gun smithing, 26; masonry, brick and stone, 29; millinery, custom work, 193; painting, house, sign, etc., 72; paper hanging, 10; plastering and stuccowork, 9; plumbing, and gas and steam fitting, 66; sewing machine repairing, 4; watch, clock, and jewelry repairing, 141.

Of the 12,883 establishments of all classes shown in this table, 7,179, or 55.7 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than $500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to $9,354,875, or only 8.6 per cent of the total value of the products of the state.

In addition to the 12,883 active establishments in the state during the census year, with a capital of $72,427,651, shown in Table 2, there were 128 idle establishments, with a capital of $1,469,568, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Brick and tile	15	$220,866	Leather, tanned, curried, and finished	5	$39,673
Cars, steam railroad, not including operations of railroad companies	1	556,426	Lumber and timber products	24	74,813
Cotton, ginning	20	22,592	Marble and stone work	1	13,000
Flouring and grist mill products	14	20,753	Pottery, terra cotta, and fire-clay products	2	4,600
Foundry and machine shop products	1	14,500	Tobacco, stemming and rehandling	1	10,750
Ice, manufactured	3	31,575	Woolen goods	3	3,725
Iron and steel	3	450,650	All other industries	35	5,645

TABLE 3.—COMPARATIVE SUMMARY OF TEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS. Average number.	WAGE-EARNERS. Total wages.	Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
Total for selected industries for state	1900	3,787	$43,813,589	28,478	$9,089,597	$2,380,728	$44,908,690	$67,168,395
	1890	2,102	32,013,955	21,596	7,039,852	1,818,447	28,375,195	43,628,010
Increase, 1890 to 1900	.....	1,685	11,799,634	6,882	2,049,745	562,281	16,533,495	23,540,385
Per cent of increase	.....	80.2	36.9	31.9	29.1	30.9	58.3	54.0
Per cent of total of all industries in state	1900	47.3	61.6	56.8	55.0	38.5	70.9	62.5
	1890	46.1	62.2	57.6	51.9	44.1	70.1	60.3
Cars and general shop construction and repairs by steam railroad companies.	1900	16	1,319,628	2,817	1,459,319	66,765	1,528,363	3,113,053
	1890	10	1,198,940	1,772	995,287	(1)	593,819	1,605,778
Flouring and grist mill products	1900	1,618	5,931,037	1,154	544,722	273,851	18,491,948	21,798,929
	1890	918	4,964,437	1,417	402,958	184,936	10,592,752	12,474,284
Foundry and machine shop products	1900	95	3,307,390	3,146	1,128,149	191,677	1,913,145	4,074,509
	1890	68	4,348,579	2,620	1,206,152	228,927	1,914,408	4,427,187
Iron and steel	1900	16	5,381,165	1,979	539,304	226,365	3,404,154	5,080,624
	1890	15	4,613,355	1,472	657,075	276,869	2,943,671	4,247,868
Leather, tanned, curried, and finished	1900	44	3,444,197	803	239,870	91,197	2,184,311	2,802,117
	1890	60	732,230	612	186,469	31,785	755,767	1,266,556
Lumber and timber products	1900	1,732	12,900,595	11,192	3,424,510	402,409	10,008,275	18,127,784
	1890	820	7,259,027	7,424	1,860,008	354,376	5,045,906	9,073,686
Lumber, planing mill products, including sash, doors, and blinds	1900	85	1,296,081	1,148	447,959	84,180	1,294,700	2,273,457
	1890	73	2,283,737	1,498	759,088	104,017	1,926,674	3,450,243
Oil, cottonseed and cake	1900	17	1,996,791	751	204,219	183,222	2,277,855	2,980,041
	1890	15	1,833,204	1,030	183,444	220,051	1,748,953	2,504,741
Textiles: Total	1900	72	6,384,194	4,251	790,031	239,289	2,266,543	3,907,279
	1890	69	4,322,336	3,051	635,610	230,116	2,525,198	3,724,133
Cotton goods	1900	17	3,767,726	2,108	422,935	142,878	1,143,234	1,994,935
	1890	20	2,928,657	2,124	444,573	173,853	1,765,162	2,507,719
Hosiery and knit goods	1900	4	216,950	511	72,980	10,270	248,950	395,150
	1890	.....	.....	.....	.....	.....	.....	.....

[1] Not reported.

TABLE 3.—COMPARATIVE SUMMARY OF TEN LEADING INDUSTRIES—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Textiles—Continued.								
Woolen goods	1900	51	$2,399,518	1,632	$294,116	$86,141	$874,359	$1,517,194
	1890	49	1,393,679	927	191,037	56,263	760,036	1,216,419
Tobacco:								
Total	1900	92	1,852,511	1,237	311,514	621,773	1,539,396	3,010,602
	1890	54	458,110	700	153,761	187,370	328,047	853,529
Chewing, smoking, and snuff	1900	35	1,318,414	615	152,043	557,149	516,369	1,541,475
	1890	24	358,932	531	77,766	152,849	212,268	577,690
Cigars and cigarettes	1900	35	90,547	161	80,228	35,708	118,738	290,647
	1890	25	90,953	139	72,563	33,283	84,442	236,807
Stemming and rehandling	1900	22	443,550	461	79,243	28,916	904,289	1,178,480
	1890	5	8,225	30	3,432	1,288	31,337	39,032

The 10 leading industries of the state in 1900, as shown in Table 3, embraced 3,787 establishments, or 47.3 per cent of the total number in the state; used a capital of $43,813,589, or 61.6 per cent of the total; gave employment to 28,478 wage-earners, or 56.8 per cent of the total number; and paid $9,089,597, or 55 per cent of the total wages. The value of their products was $67,168,395, or 62.5 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that the manufacture of flouring and grist mill products is the most important industry in the state. The 1,618 establishments reported in 1900 gave employment to 1,154 wage-earners, or 2.3 per cent of the wage-earners employed in the state, and the products were valued at $21,798,929, or 20.3 per cent of the total value of the products of the state. In 1890 there were 918 establishments, 1,417 wage-earners, and products valued at $12,474,284. The increase in the value of products during the decade was $9,324,645, or 74.8 per cent. Tennessee has good waterpower and excellent distributing facilities. Flour and grist mills are found in all parts of the state, though Nashville is the chief center of the industry. Knoxville is the milling center of the eastern section of the state, and the industry is rising into importance at Memphis.

The manufacture of lumber and timber products ranks second among the industries of the state, with 1,732 establishments, 11,192 wage-earners, and products valued at $18,127,784. In 1890 there were 820 establishments, 7,424 wage-earners, and products valued at $9,073,686. The increase in the value of products during the decade was $9,054,098, or 99.8 per cent. The forests of Tennessee contain many species of trees, and are among the best in the United States. The most valuable timbers in the eastern part of the state include oak, ash, hickory, maple, poplar, and chestnut. The Tennessee River and its tributaries bring the logs from the mountains down to Knoxville and Chattanooga, which are leading manufacturing points. Nashville is the principal lumber manufacturing city in the central part of the state. Poplar, the timber most used there, is found in comparative abundance in the northern and central counties of eastern and central Tennessee, and in the river counties of western Tennessee. It is adapted to all purposes of house building, both for construction and outside and inside finish. Oak ranks next in importance. Ash is used for the inside finish of houses and for the manufacture of agricultural implements. For the latter purpose it ranks next to hickory, which is used almost exclusively for wagons, carriages, and handles. The scarcity of walnut and cherry has led to the increasing use of oak, maple, birch, sycamore, and poplar in the manufacture of furniture. Quantities of these timbers are shipped to other states of the Union, to Canada and Mexico, and to Great Britain and other European countries. Memphis is the headquarters of the lumber manufacture in western Tennessee. The chief varieties cut in this section are poplar, white oak, ash, hickory, sycamore, and cypress. Much of it is shipped to the North in the form of planks and staves.

There were 16 establishments engaged in 1900 in the manufacture of iron and steel, the industry third in rank, with 1,979 wage-earners, and products valued at $5,080,624. In 1890 there were 15 establishments, 1,472 wage-earners, and products valued at $4,247,868. The increase in the value of products during the decade was $832,756, or 19.6 per cent. This industry has been stimulated by abundant deposits of fuel and ore. Coking coal of excellent quality is found in the Cumberland region, the state in 1899 being sixth in rank among the coke-producing states, with a production of 380,525 short tons. This was an increase of 23,561 tons, or 6.6 per cent, over the production of 1889.[1] The three chief iron-producing districts correspond, in a general way, to the location of the iron ore deposits. The eastern district comprises the counties of Johnson, Sullivan, and Washington; the Chattanooga district, the most important of the three, includes the counties of Roane, Rhea, Hamilton, Marion, and Franklin; and the central district embraces the counties of Montgomery, Stewart, Dickson, Hickman, Lewis, Lawrence, and Wayne. The

[1] See special report on Coke.

furnaces in the last-named district rely chiefly upon charcoal, though some of them have recently begun the use of coke.

There were 95 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 3,146 wage-earners, and products valued at $4,074,509. In 1890 there were 68 establishments, 2,620 wage-earners, and products valued at $4,427,187. The decrease in the value of products during the decade was $352,678, or 8 per cent.

There were 72 establishments engaged in the manufacture of textiles in 1900, with 4,251 wage-earners, and products valued at $3,907,279. In 1890 there were 69 establishments, 3,051 wage-earners, and products valued at $3,724,138. The increase in the value of products during the decade was $183,141, or 4.9 per cent. Tennessee possesses facilities for the ordinary textile manufactures, the eastern section being well adapted to the production of wool. Knoxville has a large woolen mill, and small woolen mills are scattered over the eastern and central sections. No factories for the manufacture of hosiery and knit goods were reported in 1890; in 1900 there were 4.

There were 16 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 2,817 wage-earners, and products valued at $3,113,053. In 1890 there were 10 establishments, 1,772 wage-earners, and products valued at $1,605,778. The increase in the value of products during the decade was $1,507,275, or 93.9 per cent.

There were 92 establishments engaged in the manufacture of tobacco in 1900, with 1,237 wage-earners, and products valued at $3,010,602. In 1890 there were 54 establishments, 700 wage-earners, and products valued at $853,529. The increase in the value of products during the decade was $2,157,073, or 252.7 per cent. In addition to the ordinary varieties, Tennessee produces several kinds of fine tobaccos, the most important being the bright tobaccos of Greene county and the fine red shipping tobaccos of the Clarksville district.

There were 17 establishments engaged in the manufacture of cottonseed oil and cake in 1900, with 751 wage-earners, and products valued at $2,980,041. In 1890 there were 15 establishments, 1,030 wage-earners, and products valued at $2,504,741. The increase in the value of products during the decade was $475,300, or 19 per cent. The industry is carried on most extensively in the western section of the state, centering at Memphis.

There were 44 establishments engaged in the manufacture of leather in 1900, with 803 wage-earners, and products valued at $2,802,117. In 1890 there were 60 establishments, 612 wage-earners, and products valued at $1,266,556. The increase in the value of products during the decade was $1,535,561, or 121.2 per cent.

There were 85 establishments engaged in the manufacture of planing mill products in 1900, with 1,148 wage-earners, and products valued at $2,273,457. In 1890 there were 73 establishments, 1,498 wage-earners, and products valued at $3,450,243. The decrease in the value of products during the decade was $1,176,786, or 34.1 per cent.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Chattanooga, Knoxville, Memphis, and Nashville, as returned at the censuses of 1890 and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, CHATTANOOGA, KNOXVILLE, MEMPHIS, AND NASHVILLE, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Number of establishments.	Capital.	Wage-earners. Average number.	Wage-earners. Total wages.	Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
The State	1900	8,007	$71,182,966	50,167	$16,533,349	$6,179,332	$63,384,665	$107,437,879
	1890	4,559	51,475,092	37,487	13,557,180	4,126,271	40,463,782	72,355,286
Per cent of increase		75.6	38.3	33.8	22.0	49.8	56.6	48.5
Chattanooga	1900	330	7,642,695	5,336	1,832,733	750,387	7,036,567	11,628,800
	1890	294	7,405,646	5,200	2,246,528	909,518	4,937,902	10,216,109
Per cent of increase		12.2	3.2	2.6	[1] 18.4	[1] 17.5	42.5	13.8
Knoxville	1900	218	5,151,180	4,714	1,473,543	306,795	3,877,772	6,943,595
	1890	205	3,045,661	2,746	1,355,566	261,707	2,464,914	5,020,116
Per cent of increase		6.3	69.1	71.7	8.7	17.2	57.3	38.3
Memphis	1900	658	11,179,024	8,428	3,638,278	1,077,657	9,592,422	17,848,530
	1890	345	9,357,821	5,497	2,542,264	813,951	7,090,190	13,244,538
Per cent of increase		90.7	19.5	53.3	43.1	32.4	35.3	34.8
Nashville	1900	488	13,150,137	8,398	2,882,111	1,436,544	10,390,573	18,367,323
	1890	420	9,904,295	7,275	3,052,444	681,619	7,994,751	14,590,823
Per cent of increase		16.2	32.8	15.4	[1] 5.6	110.8	30.0	25.9
Total for 4 cities	1900	1,694	37,122,986	26,876	9,826,665	3,571,383	30,897,334	54,788,248
	1890	1,264	29,713,423	20,718	9,196,797	2,666,795	22,487,757	43,071,586
Per cent of increase		34.0	24.9	29.7	6.8	33.9	37.4	27.2
Per cent of 4 cities to total for state	1900	21.2	52.2	53.6	59.4	57.8	48.7	51.0
	1890	27.7	57.7	55.3	67.8	64.6	55.6	59.5

[1] Decrease.

It appears from Table 4 that there has been a considerable increase during the past decade in the combined manufactures of these 4 cities. The number of establishments increased from 1,264 to 1,694, or 34 per cent; the average number of wage-earners from 20,718 to 26,876, or 29.7 per cent; and the value of products from $43,071,586 to $54,788,248, or 27.2 per cent. The percentage of increase in each of these particulars was smaller in these 4 cities than in the state as a whole. The city of Knoxville shows the most rapid growth, the value of products having increased from $5,020,116 in 1890 to $6,943,595 in 1900, or 38.3 per cent. In Nashville, the leading manufacturing city, the number of establishments increased from 420 to 488, or 16.2 per cent; the number of wage-earners from 7,275 to 8,398, or 15.4 per cent; and the value of products from $14,590,823 to $18,367,323, or 25.9 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 6.1, 16.7, and 17.1 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 18 cities and towns withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities and towns, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state	8,007	$71,182,966	9,814	50,167	$16,533,349	$6,179,332	$63,384,665	$107,437,879	-------	100.0	2,020,616	-------	100.0
Total for urban manufactures	2,412	46,519,514	2,701	33,903	11,899,825	4,352,529	39,339,943	68,829,199	-------	64.1	311,872	-------	15.4
Bristol	59	742,605	66	511	138,898	109,020	533,743	988,073	11	0.9	5,271	8	0.3
Brownsville	25	78,554	34	59	15,240	10,711	68,338	128,432	18	0.1	2,645	15	0.1
Chattanooga	330	7,642,695	332	5,336	1,832,733	750,387	7,036,567	11,628,800	3	10.8	30,154	4	1.5
Clarksville	105	1,402,405	131	912	247,202	257,310	1,698,720	2,765,876	5	2.6	9,431	6	0.5
Cleveland	29	238,785	30	453	97,658	15,832	267,301	464,412	16	0.4	3,858	10	0.3
Columbia	167	574,789	191	648	198,636	43,985	775,165	1,221,168	8	1.1	6,052	7	0.3
Dayton	21	621,268	22	606	134,030	20,272	952,783	1,332,591	7	1.2	2,004	17	0.1
Dyersburg	36	532,375	38	233	83,364	27,198	397,782	638,926	13	0.6	3,647	11	0.2
Harriman	38	473,018	37	325	87,281	14,408	449,311	615,441	14	0.6	3,442	12	0.2
Humboldt	30	177,563	41	188	51,593	13,290	142,616	267,411	17	0.3	2,866	14	0.1
Jackson	84	1,123,632	87	1,205	467,340	75,371	847,514	1,894,149	6	1.8	14,511	5	0.7
Johnson City	45	1,239,406	51	549	121,334	29,383	607,688	1,046,537	10	1.0	4,645	9	0.2
Knoxville	218	5,151,130	255	4,714	1,473,543	306,795	3,877,772	6,943,595	4	6.5	32,637	3	1.6
Memphis	658	11,179,024	714	8,428	3,638,278	1,077,657	9,592,422	17,848,530	2	16.6	102,320	1	5.0
Nashville	488	13,150,137	587	8,398	2,882,111	1,436,544	10,390,573	18,367,323	1	17.1	80,865	2	4.0
South Pittsburg	20	1,664,410	20	678	205,288	130,725	736,211	1,188,616	9	1.1	1,789	18	0.1
Trenton	24	312,048	29	469	165,646	16,761	582,121	930,819	12	0.9	2,328	16	0.1
Union City	35	215,670	36	191	59,705	16,880	383,316	558,470	15	0.5	3,407	13	0.2
Total for state exclusive of urban manufactures	5,595	24,663,452	7,113	16,264	4,633,524	1,826,803	24,044,722	38,608,680	-------	35.9	1,708,744	-------	84.6
Per cent of urban manufactures to total for state	30.1	65.4	27.5	67.6	72.0	70.4	62.1	64.1	-------	-------	15.4	-------	-------

Of the 8,007 establishments in the state, 2,412, or 30.1 per cent, were located in these 18 cities and towns. They furnished employment to 33,903 wage-earners, or 67.6 per cent of the total number, and the value of their products, $68,829,199, formed 64.1 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Chattanooga, Knoxville, Memphis, and Nashville by specified industries.

Table 9 shows the totals for the cities and towns withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

	COUNTIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
1	The State	8,007	$71,182,966	$7,832,587	$12,372,961	$20,177,607	$30,799,861	9,814	3,653	$3,244,100	50,167	$16,533,349
2	Anderson	70	224,389	89,575	11,620	43,994	79,200	92	3	780	134	40,512
3	Bedford	83	432,154	47,240	105,184	153,942	125,788	110	4	2,917	214	53,225
4	Benton	35	66,666	6,925	3,110	26,406	30,225	50	------	------	41	10,420
5	Bledsoe	25	57,592	12,935	7,834	28,658	8,165	32	1	300	16	4,692
6	Blount	75	375,166	66,640	44,169	140,034	124,323	97	11	3,323	242	55,569
7	Bradley	84	364,385	37,765	45,585	124,170	156,865	104	24	17,500	580	129,433
8	Campbell	83	195,939	62,540	27,860	60,677	44,862	85	8	3,207	145	44,172
9	Cannon	39	50,205	4,940	10,892	23,335	11,038	49	------	------	34	8,585
10	Carroll	91	246,531	23,455	28,675	95,194	99,207	187	10	2,585	217	47,301
11	Carter	74	286,068	46,975	42,090	94,056	102,947	84	20	14,260	250	63,825
12	Cheatham	23	130,010	32,490	27,025	51,420	19,075	30	7	7,800	88	22,018
13	Chester	43	78,911	6,570	5,915	31,453	34,973	68	------	------	72	21,217
14	Claiborne	67	163,736	19,194	21,880	113,344	9,318	74	13	7,551	112	27,094
15	Clay	21	21,930	405	1,175	13,290	7,060	26	------	------	25	6,079
16	Cocke	73	550,883	27,322	38,462	81,400	403,699	89	2	2,580	155	42,790
17	Coffee	69	469,951	54,234	55,400	162,219	198,098	84	27	19,010	369	101,727
18	Crockett	54	112,945	17,250	13,920	54,630	27,145	75	------	------	75	17,081
19	Cumberland	26	32,188	7,233	2,920	12,990	9,045	34	------	------	39	9,503
20	Davidson	580	15,024,878	1,109,293	2,528,028	4,460,854	6,926,703	686	1,087	933,522	9,387	3,180,025
21	Decatur	38	75,661	11,347	4,040	27,704	32,570	53	------	------	50	13,948
22	Dekalb	47	71,548	7,803	12,965	38,675	12,105	59	1	375	27	7,526
23	Dickson	79	387,028	63,705	73,111	95,324	154,888	109	13	9,995	392	122,155
24	Dyer	70	746,213	181,053	62,112	216,307	286,741	79	28	20,700	454	154,183
25	Fayette	52	90,579	4,680	17,070	58,950	9,879	64	8	2,050	66	14,358
26	Fentress	21	41,545	5,710	8,885	19,875	12,075	29	------	------	15	4,658
27	Franklin	59	334,793	91,249	63,670	95,130	84,744	66	22	17,220	231	72,327
28	Gibson	153	773,381	69,708	113,268	274,178	316,227	213	40	22,291	877	282,872
29	Giles	109	304,846	15,360	41,515	100,450	147,521	148	12	4,050	237	65,874
30	Grainger	45	60,188	11,185	7,720	31,845	9,438	58	------	------	31	10,265
31	Greene	108	376,644	13,649	70,530	107,667	184,798	132	8	12,300	178	50,054
32	Grundy	24	204,082	86,271	13,785	75,385	28,641	24	3	1,601	183	43,680
33	Hamblen	61	172,651	11,300	21,000	70,246	70,105	73	16	6,240	81	22,594
34	Hamilton	392	8,793,053	675,549	1,490,801	1,922,672	4,704,031	399	566	532,485	6,092	2,076,521
35	Hancock	28	24,623	2,957	4,870	14,000	2,796	32	------	------	8	1,798
36	Hardeman	69	111,920	4,381	13,445	49,899	44,195	90	8	8,479	124	45,679
37	Hardin	64	122,549	25,522	14,440	57,074	25,513	85	5	610	118	27,982
38	Hawkins	81	89,209	6,927	22,285	46,039	13,958	92	7	1,300	64	19,174
39	Haywood	85	294,547	60,155	23,075	107,849	103,468	115	12	4,581	230	62,030
40	Henderson	72	123,541	8,617	9,562	60,631	44,731	110	1	720	108	28,814
41	Henry	93	223,987	14,490	27,270	92,518	89,709	111	11	4,800	298	84,604
42	Hickman	76	477,239	66,054	62,345	141,920	206,920	121	13	9,800	318	80,004
43	Houston	20	151,690	53,745	12,825	22,850	62,270	23	9	6,880	228	62,732
44	Humphreys	67	202,194	23,962	17,383	60,092	100,757	81	8	2,590	172	50,684
45	Jackson	35	53,930	3,591	6,859	19,338	19,142	50	1	300	37	14,269
46	James	20	123,462	6,998	13,296	46,175	56,993	28	7	15,625	48	16,222
47	Jefferson	90	229,905	24,785	32,005	84,226	88,889	115	15	8,100	127	27,170
48	Johnson	42	45,742	7,865	10,007	22,190	5,680	58	1	300	19	5,345
49	Knox	336	6,182,808	416,567	786,515	2,449,024	2,530,702	394	326	310,897	5,479	1,686,822
50	Lake	30	263,083	59,825	20,585	76,738	105,935	36	7	2,843	163	56,031
51	Lauderdale	82	313,535	112,330	27,500	99,362	74,343	109	9	1,935	219	64,031
52	Lawrence	84	240,045	35,965	28,170	96,817	79,093	125	10	3,600	391	100,153
53	Lewis	24	323,302	19,390	138,523	51,210	114,179	30	10	7,037	96	40,419
54	Lincoln	103	268,148	19,458	44,285	106,250	98,155	132	9	5,470	215	65,759
55	Loudon	56	873,936	159,785	256,645	243,280	214,226	68	14	18,480	311	93,064
56	McMinn	81	366,702	29,110	51,234	128,997	157,361	96	12	9,990	231	53,086
57	McNairy	64	112,063	31,526	10,605	48,823	21,109	84	1	300	76	17,650
58	Macon	39	68,102	6,330	5,252	31,000	25,520	52	1	300	77	22,857
59	Madison	139	1,279,914	93,699	194,545	369,038	622,632	163	116	86,164	1,335	503,366
60	Marion	53	1,884,347	167,816	895,720	205,354	615,457	63	31	30,981	796	236,066
61	Marshall	60	160,605	10,715	18,092	63,820	67,978	87	5	2,680	259	67,253
62	Maury	244	776,844	98,230	139,255	256,298	283,061	297	36	26,956	753	233,087
63	Meigs	25	64,338	26,645	7,475	26,850	3,368	44	------	------	19	5,468
64	Monroe	78	309,696	10,745	46,864	139,071	113,016	88	17	14,823	409	89,791
65	Montgomery	159	1,543,014	115,687	274,071	271,664	881,592	200	115	110,171	994	269,793
66	Moore	23	106,219	10,004	15,085	14,225	66,905	25	3	2,250	40	10,727
67	Morgan	38	156,414	55,522	5,410	40,197	55,285	52	5	2,500	87	23,256
68	Obion	99	596,542	76,896	72,654	179,117	267,875	124	28	19,410	421	147,364
69	Overton	55	82,310	16,130	5,805	27,800	32,575	68	6	6,000	47	16,477
70	Perry	37	88,834	9,775	7,777	25,813	45,469	44	------	------	61	15,170
71	Pickett	15	15,910	1,725	2,197	6,965	5,023	17	------	------	8	2,090
72	Polk	43	289,408	50,108	51,270	47,623	140,407	48	9	12,000	191	66,405
73	Putnam	66	284,489	29,965	20,067	64,194	170,263	70	17	15,540	225	63,782
74	Rhea	45	672,703	7,280	391,450	143,676	130,297	47	11	6,160	648	144,510
75	Roane	110	1,449,838	138,940	578,648	278,366	453,884	116	47	38,355	600	179,363
76	Robertson	67	392,057	23,282	46,120	81,095	241,560	91	7	4,370	199	58,662

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.				
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	Value of products, including custom work and repairing.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
12,195	$15,091,897	5,810	$1,193,374	2,162	$248,078	$6,179,332	$589,843	$404,795	$4,705,853	$478,841	$63,384,665	$60,709,080	$2,675,585	$107,437,879	1
131	39,777	1	450	2	285	3,581	517	742	2,262	60	143,871	143,408	463	260,857	2
158	47,028	39	4,958	17	1,239	15,739	1,055	1,444	13,240	------	378,696	373,739	4,957	540,566	3
39	10,230	------	------	2	190	2,118	466	204	1,448	------	47,526	47,034	492	83,375	4
15	4,472	------	------	1	220	519	49	345	125	------	36,522	36,401	121	62,557	5
153	43,094	58	9,825	31	2,650	9,220	839	1,629	6,652	100	327,865	323,882	3,483	478,059	6
293	81,584	238	41,429	54	6,420	17,662	1,702	1,829	6,981	7,150	404,599	398,519	6,080	699,848	7
133	41,972	7	1,885	5	315	6,401	1,091	786	4,524	------	147,586	146,655	931	259,349	8
32	8,424	------	------	2	161	3,747	414	310	3,023	------	68,470	67,777	693	106,118	9
201	45,125	6	1,273	10	903	8,967	978	979	7,010	------	266,962	262,590	4,372	418,905	10
208	58,523	23	3,961	19	1,341	15,887	740	1,777	13,370	------	349,865	348,028	1,837	564,864	11
79	21,018	------	------	9	1,000	15,624	70	994	14,560	------	132,314	128,304	4,010	211,380	12
65	19,772	3	870	4	575	2,874	433	519	1,922	------	74,285	73,284	951	140,920	13
112	27,094	------	------	------	------	6,880	4,514	525	1,841	------	107,082	106,648	434	186,957	14
25	6,079	------	------	------	------	1,257	583	133	391	150	23,575	23,431	144	45,575	15
144	41,641	4	440	7	709	57,173	1,169	2,747	53,207	50	632,991	632,051	940	829,977	16
338	97,333	6	660	25	3,734	87,083	2,156	1,989	82,923	15	471,081	464,409	6,672	837,417	17
73	16,640	2	441	------	------	3,263	343	679	2,241	------	103,594	101,295	2,299	187,271	18
38	9,403	------	------	1	100	1,234	155	175	904	------	28,233	28,119	114	55,796	19
7,315	2,759,593	1,684	376,325	388	44,107	1,495,531	120,667	96,093	949,760	329,011	12,370,175	12,160,857	209,318	20,926,499	20
50	13,948	------	------	------	------	1,620	178	286	436	720	68,692	68,228	464	135,012	21
20	6,556	3	540	4	430	2,187	130	451	1,606	------	89,955	88,468	1,487	137,710	22
367	117,504	2	236	23	4,415	12,161	1,387	1,175	9,599	------	349,785	281,053	68,732	584,840	23
436	151,208	9	1,710	9	1,265	38,399	3,230	4,049	31,120	------	634,448	626,198	8,250	1,046,684	24
64	13,758	1	450	1	150	2,806	656	558	1,532	60	29,466	27,317	2,149	86,825	25
14	4,458	------	------	1	200	691	38	295	358	------	25,241	25,163	78	42,675	26
204	69,132	9	1,680	18	1,515	53,426	1,213	1,930	50,249	34	902,409	888,282	14,127	1,181,547	27
745	261,922	59	13,589	73	7,361	48,163	3,777	4,506	38,530	1,350	1,081,582	1,062,386	19,196	1,758,578	28
230	64,769	4	600	3	505	40,621	2,358	1,102	36,711	450	484,337	477,709	6,628	749,828	29
31	10,265	------	------	------	------	2,019	215	462	1,342	------	95,126	94,966	160	147,382	30
136	42,272	26	6,427	16	1,355	55,016	1,092	2,055	51,819	50	331,131	327,693	3,438	572,332	31
177	42,420	1	150	5	1,110	7,614	455	726	6,433	------	124,620	124,568	52	201,718	32
69	20,678	11	1,700	1	216	14,956	2,886	1,404	10,366	300	384,328	380,128	4,200	489,465	33
5,399	1,941,241	528	116,993	165	18,287	1,132,466	60,939	44,568	980,678	46,281	7,905,606	7,459,346	446,260	13,434,831	34
8	1,798	------	------	------	------	4,351	30	277	4,015	29	45,240	44,848	392	59,202	35
119	44,901	2	390	3	388	3,834	1,222	545	2,067	------	108,930	106,840	2,099	244,542	36
114	27,562	1	152	3	268	9,618	615	483	8,520	------	107,295	105,188	2,107	215,037	37
53	17,817	7	757	4	600	5,898	552	626	4,685	35	206,415	205,767	648	288,808	38
220	60,185	6	1,354	4	491	14,418	3,000	1,165	3,271	6,982	175,302	171,953	3,349	395,546	39
103	28,119	------	------	5	695	4,815	675	748	3,392	------	132,388	131,012	1,376	227,494	40
244	75,730	36	6,890	18	1,984	69,357	2,895	1,220	65,142	100	335,360	330,936	4,424	612,177	41
308	78,156	7	1,548	3	300	5,164	906	982	3,216	60	395,465	352,896	42,569	616,127	42
191	58,550	------	------	37	4,182	3,604	572	989	2,043	------	205,713	196,891	9,822	333,306	43
165	48,870	4	1,420	3	394	4,505	730	487	3,288	------	167,056	165,822	1,234	298,191	44
28	13,619	------	------	9	650	8,891	278	211	8,402	------	62,925	62,385	540	103,333	45
48	16,222	------	------	------	------	6,422	154	321	5,932	15	103,029	101,237	1,792	182,683	46
74	20,768	28	3,940	25	2,462	11,077	1,730	997	7,792	558	247,967	245,040	2,927	355,235	47
19	5,345	------	------	------	------	6,136	48	555	5,533	------	53,957	53,691	266	83,247	48
3,834	1,441,254	1,347	217,860	298	27,709	365,251	55,721	27,421	278,585	3,524	4,615,472	4,492,634	122,838	8,262,561	49
156	54,171	2	910	5	950	5,053	603	1,627	2,753	70	134,715	133,409	1,306	313,259	50
185	58,458	16	3,460	18	2,113	4,984	1,442	970	2,572	------	186,817	182,969	3,848	395,906	51
312	90,000	54	7,870	25	2,283	7,002	894	996	5,024	88	318,387	316,177	2,210	567,380	52
96	40,419	------	------	------	------	4,524	54	974	3,496	------	162,873	90,255	72,618	251,859	53
198	63,163	9	1,750	8	846	16,942	1,871	1,268	13,053	750	373,320	368,758	4,562	595,693	54
306	92,160	2	180	3	724	17,308	1,977	1,936	13,395	------	756,368	741,519	14,849	921,489	55
140	42,468	70	9,102	21	1,516	6,681	396	2,467	3,813	5	434,270	429,538	4,732	627,940	56
73	17,343	------	------	3	307	3,412	353	545	2,514	------	79,038	77,374	1,664	155,873	57
75	22,692	1	115	1	50	1,604	12	335	1,257	------	111,159	110,463	696	192,116	58
1,204	474,626	125	27,970	6	770	80,170	9,614	8,715	61,741	100	947,154	921,529	25,625	2,093,845	59
759	229,577	13	2,320	24	4,169	143,182	1,855	7,353	127,899	6,025	897,868	646,329	251,539	1,458,700	60
206	55,698	45	10,648	8	907	9,507	1,305	873	7,309	20	265,796	262,791	3,005	432,270	61
604	205,756	108	22,906	41	4,425	50,361	8,204	4,683	35,251	2,223	1,178,885	1,160,511	18,374	1,759,870	62
15	4,814	2	360	2	294	829	150	321	358	------	47,382	46,853	529	72,913	63
209	60,779	96	17,633	113	11,379	14,813	930	1,784	11,149	950	371,298	367,239	4,059	552,689	64
777	237,852	136	23,906	81	8,035	261,062	23,006	7,246	224,910	5,900	1,840,617	1,766,459	74,158	2,990,908	65
39	10,477	1	250	------	------	20,024	240	491	19,288	5	62,678	58,923	3,755	132,028	66
85	22,980	------	------	2	276	2,378	154	581	1,643	------	81,440	81,270	170	147,937	67
365	137,710	51	9,056	5	598	25,480	3,299	3,505	18,676	------	870,781	859,867	10,914	1,326,016	68
45	15,727	2	750	------	------	1,379	471	372	536	------	98,544	98,276	268	159,924	69
50	13,670	8	1,248	3	252	1,062	161	270	631	------	83,398	82,615	783	128,208	70
8	2,090	------	------	------	------	115	------	60	55	------	15,920	15,875	45	23,822	71
179	64,484	------	------	12	1,921	7,633	2,500	1,088	4,045	------	289,363	239,678	49,685	588,177	72
210	61,623	------	------	15	2,159	11,738	371	1,289	10,034	50	217,728	216,090	1,638	420,137	73
640	143,468	2	320	6	722	22,505	1,229	2,308	18,918	50	1,041,135	711,588	329,547	1,457,361	74
564	174,469	10	1,854	26	3,040	41,114	2,683	6,181	31,850	400	1,058,189	845,813	212,376	1,511,721	75
177	55,500	1	400	21	2,762	201,768	1,089	1,601	198,778	300	382,884	376,657	6,227	779,484	76

TABLE 6.—MANUFACTURES

	COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
77	Rutherford	94	$395,257	$36,971	$65,695	$105,860	$186,731	113	15	$4,902	245	$64,512
78	Scott	42	428,469	60,603	90,857	106,930	170,079	51	10	11,320	224	64,577
79	Sequatchie	15	34,908	8,722	2,170	16,390	7,626	17	------	------	22	6,023
80	Sevier	83	146,234	80,640	8,945	42,430	14,219	101	------	------	88	19,455
81	Shelby	735	11,480,781	1,555,476	1,611,843	8,212,227	5,101,235	800	524	626,636	8,779	3,760,429
82	Smith	46	102,558	3,495	11,080	41,180	46,803	59	7	2,980	78	34,565
83	Stewart	49	202,030	41,931	10,020	37,724	112,355	64	1	780	107	31,349
84	Sullivan	130	865,818	192,629	106,842	164,344	401,998	157	66	42,986	580	158,018
85	Sumner	78	217,405	18,948	21,686	79,061	97,715	108	10	6,023	184	57,806
86	Tipton	59	192,508	38,866	27,285	90,530	35,827	79	12	3,355	90	23,585
87	Trousdale	17	59,600	13,500	8,800	21,590	16,210	22	1	1,000	29	10,645
88	Unicoi	25	110,215	25,295	10,710	43,085	31,125	25	6	1,980	95	34,414
89	Union	64	49,702	5,303	11,659	20,790	11,950	73	1	300	15	4,655
90	Van Buren	14	19,450	4,430	1,590	6,500	6,930	17	------	------	13	3,830
91	Warren	82	364,485	25,258	82,080	134,067	123,085	90	22	13,220	448	100,835
92	Washington	131	1,747,681	208,544	428,232	333,040	777,865	146	44	37,583	835	167,287
93	Wayne	56	906,792	344,289	304,232	67,221	191,050	82	13	14,014	236	83,119
94	Weakley	98	471,471	47,872	39,205	132,125	252,269	146	16	13,392	354	109,950
95	White	43	226,019	13,168	26,505	76,989	109,362	52	7	4,390	147	39,738
96	Williamson	83	269,494	25,290	56,640	83,444	104,120	100	9	8,380	133	41,272
97	Wilson	93	135,611	11,278	18,683	58,138	47,517	119	5	2,320	107	31,997

TABLE 7.—MANUFACTURES BY

1	All industries	8,007	$71,182,966	$7,832,587	$12,372,961	$20,177,607	$30,799,861	9,814	3,653	$3,244,100	50,167	$16,533,349
2	Agricultural implements	11	417,689	27,465	60,850	65,538	263,836	11	38	35,065	373	113,425
3	Awnings, tents, and sails	3	3,900	------	------	1,500	2,400	3	------	------	12	5,854
4	Bags, other than paper	3	309,739	3,717	------	45,722	260,300	4	20	13,235	91	23,214
5	Baking and yeast powders	4	81,100	------	------	14,100	67,000	5	25	25,660	68	15,120
6	Bicycle and tricycle repairing	35	38,268	750	2,400	15,545	19,573	38	------	------	51	15,801
7	Blacksmithing and wheelwrighting	1,007	619,889	79,098	103,303	148,272	289,216	1,210	4	1,388	635	230,392
8	Boots and shoes, custom work and repairing.	196	65,030	6,100	5,835	25,285	27,810	202	1	260	99	38,179
9	Boxes, fancy and paper	6	64,316	------	------	20,900	43,416	7	15	10,542	174	33,257
10	Boxes, wooden packing	10	97,062	5,999	8,700	28,465	53,898	12	13	8,531	120	31,116
11	Bread and other bakery products	76	655,922	77,550	79,100	304,526	194,746	96	75	37,290	360	157,573
12	Brick and tile	91	891,095	148,572	206,834	156,862	378,827	121	34	31,020	1,152	293,335
13	Brooms and brushes	27	27,216	1,945	6,750	4,760	13,761	36	3	1,920	81	30,729
14	Carpentering	183	528,575	49,066	74,670	67,155	337,684	237	8	5,033	985	436,688
15	Carriage and wagon materials	24	379,392	6,070	41,094	102,064	230,164	26	34	27,028	550	141,938
16	Carriages and wagons	99	774,749	99,048	132,948	110,928	431,825	126	43	44,462	621	258,734
17	Cars and general shop construction and repairs by steam railroad companies.	16	1,319,628	162,517	447,145	287,159	422,807	------	65	58,606	2,817	1,459,319
18	Cheese, butter, and condensed milk, factory product.	12	36,175	2,465	9,500	19,175	5,045	4	6	2,340	20	4,193
19	Clothing, men's, custom work and repairing.	141	274,919	10,200	14,800	27,027	222,892	157	29	25,000	494	259,404
20	Clothing, men's, factory product	22	747,650	25,200	64,814	82,481	575,155	31	76	70,215	1,513	323,949
21	Clothing, women's, dressmaking	77	54,974	3,225	6,550	9,751	35,448	77	6	13,000	340	91,786
22	Coffee and spice, roasting and grinding	9	118,246	1,700	6,500	15,600	94,446	13	25	25,100	36	10,496
23	Coffins, burial cases, and undertakers' goods.	10	440,196	32,900	48,144	57,463	301,689	3	52	68,500	287	117,863
24	Coke	8	607,322	144,412	44,800	385,840	32,270	------	22	14,281	477	127,539
25	Confectionery	31	388,191	9,300	13,400	162,467	203,024	41	69	54,432	368	111,336
26	Cooperage	32	194,466	54,760	18,820	16,722	104,164	37	11	11,080	500	161,149
27	Cotton, ginning[1]	282	476,538	20,107	90,255	345,508	20,668	388	26	4,157	352	43,172
28	Cotton goods	17	3,767,726	152,248	891,197	1,832,928	891,358	3	47	54,364	2,108	422,935
29	Dyeing and cleaning	39	28,112	1,000	1,800	12,425	12,887	50	3	1,500	68	24,275
30	Electrical construction and repairs	9	28,500	------	------	2,900	25,600	10	5	4,600	50	20,212
31	Fertilizers	5	950,397	76,947	313,519	68,339	491,592	4	45	48,568	443	94,101
32	Flouring and grist mill products	1,618	5,931,037	554,033	1,287,592	2,254,527	1,834,885	1,938	219	192,431	1,154	544,722
33	Food preparations	5	56,123	500	4,100	27,580	23,943	3	13	9,300	35	11,260
34	Foundry and machine shop products	95	3,307,390	343,966	467,705	761,136	1,734,583	99	164	154,228	3,146	1,128,149
35	Fruits and vegetables, canning and preserving.	11	35,824	880	5,880	9,825	19,239	19	16	2,043	116	15,216
36	Furnishing goods, men's	3	29,500	500	500	1,000	27,500	5	------	------	32	8,260
37	Furniture, cabinetmaking, repairing, and upholstering.	80	99,990	10,435	10,380	14,979	64,196	109	4	4,700	81	37,299
38	Furniture, factory product	23	951,756	66,192	154,248	154,954	576,362	19	69	66,468	1,015	303,228
39	Gas and lamp fixtures	5	33,357	7,000	11,500	8,945	5,912	2	6	5,174	56	22,298
40	Gas, illuminating and heating	11	2,303,544	284,000	198,400	1,656,370	164,774	------	49	41,049	218	64,539
41	Hairwork	3	1,455	------	------	255	1,200	3	------	------	3	1,056
42	Hand stamps	3	2,825	------	------	2,300	525	3	------	------	1	600
43	Hardware, saddlery	3	18,700	------	------	9,700	9,000	------	3	1,300	36	8,600
44	Hosiery and knit goods	4	216,950	4,200	37,200	102,000	73,550	------	12	15,300	511	72,980
45	Ice, manufactured	27	1,103,501	194,950	243,176	530,695	134,680	20	67	58,622	385	177,461
46	Iron and steel	16	5,381,165	701,960	2,785,664	391,888	1,501,708	2	96	118,244	1,979	539,304

[1] Does not include many ginneries operated in connection with saw, grist, and cottonseed-oil mills, or for the use exclusively of plantations on which they are located For the full number of ginneries in operation reference should be made to the special report on cotton ginning.

BY COUNTIES: 1900—Continued.

Average number of wage-earners and total wages—continued.						Miscellaneous expenses.					Cost of materials used.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
215	$59,693	17	$2,896	13	$1,923	$43,003	$2,254	$2,375	$38,349	$25	$481,645	$476,414	$5,231	$741,643	77
223	64,377	------	------	1	200	15,454	338	651	14,460	5	159,312	151,679	7,633	275,390	78
21	5,748	1	275	------	------	1,317	113	148	1,056	------	63,843	63,791	52	89,492	79
72	18,825	10	300	6	330	2,031	793	526	712	------	135,867	134,962	905	204,127	80
8,004	3,551,827	587	175,081	188	33,521	1,093,296	205,656	97,474	728,720	61,446	9,803,828	9,596,377	207,451	18,404,319	81
67	33,663	------	------	11	902	20,337	567	969	18,301	500	172,803	170,033	2,770	273,261	82
106	31,259	------	------	1	90	6,669	1,647	1,039	3,931	52	158,454	130,717	27,737	264,023	83
461	138,116	73	13,668	46	6,229	112,876	7,392	3,025	102,245	214	739,827	732,756	7,071	1,283,228	84
169	56,393	4	475	11	938	12,902	4,508	1,258	7,101	35	239,842	236,226	3,616	398,717	85
90	23,585	------	------	------	------	7,398	735	724	5,939	------	116,849	113,498	3,351	208,412	86
28	10,445	------	------	1	200	6,623	397	143	6,083	------	145,293	143,193	2,100	189,500	87
95	34,414	------	------	------	------	26,683	324	1,127	25,175	57	97,360	96,672	688	214,224	88
14	4,555	------	------	1	100	8,217	93	577	7,547	------	95,887	94,988	899	131,358	89
13	3,830	------	------	------	------	392	152	57	183	------	16,393	16,368	25	29,561	90
299	77,888	124	20,409	25	2,538	18,254	462	1,901	15,891	------	347,508	343,022	4,486	561,212	91
756	159,358	18	2,725	61	5,204	46,131	5,113	12,351	26,867	1,800	1,038,207	889,930	148,277	1,700,374	92
233	82,739	------	------	3	330	16,386	484	1,643	14,159	100	364,702	246,067	118,635	623,604	93
313	103,293	16	3,579	25	3,078	24,141	2,408	1,988	19,620	125	591,781	584,463	7,318	906,831	94
103	31,947	40	7,560	4	231	37,094	720	578	35,796	------	183,626	182,448	1,178	324,809	95
128	40,722	------	------	5	550	20,745	2,581	1,096	16,706	362	339,268	334,372	4,896	490,628	96
95	29,217	9	2,495	3	285	6,557	2,620	819	3,018	100	200,872	197,703	3,169	322,935	97

SPECIFIED INDUSTRIES: 1900.

42,195	$15,091,897	5,810	$1,193,374	2,162	$248,078	$6,179,332	$589,843	$404,795	$4,705,853	$478,841	$63,384,665	$60,709,080	$2,675,585	$107,437,879	1
354	110,834	3	480	16	2,111	12,170	245	1,669	10,196	60	201,712	193,134	8,578	463,406	2
6	4,028	6	1,826	------	------	1,355	960	85	160	150	12,475	12,405	70	25,233	3
44	14,845	47	8,369	------	------	24,574	2,580	150	21,844	------	261,431	260,736	695	344,869	4
12	5,900	56	9,220	------	------	14,766	2,170	304	12,292	------	108,654	107,846	808	221,800	5
47	15,421	------	------	4	380	7,130	5,363	303	1,264	200	27,843	27,510	333	84,411	6
622	229,412	------	------	13	980	46,747	34,993	2,668	8,442	644	357,058	331,202	25,856	1,243,902	7
97	37,958	1	117	1	104	18,862	15,930	349	2,088	495	71,891	70,630	1,261	229,144	8
68	13,910	106	19,347	------	------	6,483	3,815	288	2,380	------	62,918	61,873	1,045	132,489	9
96	27,516	4	714	20	2,886	10,107	123	457	9,527	------	61,487	59,997	1,490	134,126	10
315	149,932	19	4,299	26	3,842	57,923	18,534	4,697	34,692	------	682,752	670,183	12,569	1,103,219	11
1,075	283,887	------	------	77	9,448	60,712	6,155	4,579	49,658	320	165,819	37,013	128,806	684,900	12
76	30,373	------	------	5	356	1,631	1,197	85	349	------	67,140	66,939	201	127,148	13
983	436,303	------	------	2	385	243,816	11,135	2,995	16,538	213,148	1,012,897	1,007,588	5,309	2,025,586	14
523	138,906	------	------	27	3,032	33,947	1,724	1,258	28,869	2,096	270,757	267,100	3,657	597,725	15
616	257,629	1	250	4	855	42,906	13,566	4,339	23,669	1,332	519,544	510,446	9,098	1,127,898	16
2,810	1,457,718	7	1,601	------	------	66,765	------	12,478	54,287	------	1,528,363	1,506,905	21,458	3,113,053	17
14	3,755	3	258	3	180	1,113	100	144	869	------	49,846	48,671	1,175	69,722	18
409	234,404	81	24,622	4	378	92,166	44,030	2,060	10,427	35,649	337,994	334,387	3,607	974,293	19
258	90,702	1,234	231,004	21	2,243	40,515	13,606	2,734	20,675	3,500	960,641	953,964	6,677	1,631,075	20
2	2,000	337	89,680	1	106	13,621	10,364	277	2,885	95	151,480	150,993	487	332,004	21
18	7,028	17	3,398	1	70	5,990	3,010	419	2,561	------	104,166	101,645	2,521	271,704	22
246	107,615	7	2,292	34	7,956	21,077	702	1,957	17,750	668	328,537	323,490	5,047	625,381	23
468	125,469	------	------	9	2,070	24,736	3,940	1,169	13,602	6,025	522,966	519,496	3,470	764,890	24
194	79,263	163	30,473	11	1,600	67,039	17,458	2,240	47,152	189	459,267	452,174	7,093	886,129	25
458	156,067	------	------	42	5,082	10,342	2,447	1,089	6,806	------	261,638	252,172	9,466	521,681	26
351	43,106	------	------	1	66	12,249	2,969	2,767	6,513	------	89,734	73,487	16,247	364,618	27
807	214,140	918	168,135	383	40,660	142,878	450	12,468	129,960	------	1,148,234	1,108,408	39,826	1,994,935	28
52	19,888	15	4,243	1	144	10,505	7,505	280	2,720	------	12,400	11,001	1,399	80,123	29
50	20,212	------	------	------	------	5,597	2,870	160	1,972	595	73,976	73,900	76	125,154	30
443	94,101	------	------	------	------	110,953	------	2,713	108,240	------	790,101	773,030	17,071	1,466,288	31
1,144	543,181	------	------	10	1,541	273,851	18,426	36,210	218,369	846	18,491,948	18,339,415	152,533	21,798,929	32
31	10,968	------	------	4	292	6,662	2,500	368	3,794	------	104,226	100,475	3,751	143,099	33
3,124	1,124,399	------	------	22	3,750	191,677	15,803	19,014	155,692	1,168	1,913,145	1,820,080	93,065	4,074,509	34
24	4,992	56	6,539	36	3,685	207	2	83	122	------	37,598	36,962	636	72,007	35
21	5,540	11	2,720	------	------	765	400	25	340	------	47,457	47,417	40	73,500	36
78	36,987	2	259	1	53	10,837	7,352	488	2,126	871	45,279	44,653	626	152,527	37
903	287,898	33	3,730	79	11,600	82,943	2,510	3,662	75,421	1,350	520,196	512,941	7,255	1,106,623	38
48	19,081	5	2,587	3	630	3,182	534	174	2,474	------	25,566	24,275	1,291	72,546	39
218	64,539	------	------	------	------	116,848	------	50,760	66,088	------	135,110	131,307	3,803	572,490	40
------	------	3	1,056	------	------	1,574	1,500	------	74	------	1,060	1,060	------	5,450	41
1	600	------	------	------	------	533	490	10	33	------	1,060	1,045	15	5,080	42
36	8,600	------	------	------	------	965	600	25	340	------	16,548	15,755	793	39,600	43
113	31,424	228	26,460	170	15,096	10,270	------	150	10,120	------	248,950	247,350	1,600	395,150	44
381	177,036	------	------	4	425	58,878	130	16,345	42,403	------	109,505	27,184	82,321	538,107	45
1,973	538,454	------	------	6	850	226,365	10,147	23,262	192,956	------	3,404,154	1,798,174	1,605,980	5,080,624	46

TABLE 7.—MANUFACTURES BY

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
47	Ironwork, architectural and ornamental.	4	$28,700	$2,000	$2,000	$13,000	$11,700	3	8	$5,710	35	$14,035
48	Leather, tanned, curried, and finished	44	3,444,197	94,530	400,620	470,725	2,478,322	55	29	35,496	803	239,870
49	Lime and cement	12	158,886	39,300	27,680	20,751	71,155	13	4	2,350	167	50,665
50	Liquors, distilled	51	590,302	20,027	64,677	81,985	423,613	55	11	7,550	139	43,341
51	Liquors, malt	4	1,277,772	111,000	443,534	271,586	451,652	1	31	51,500	288	129,782
52	Lock and gun smithing	26	35,314	6,050	2,850	10,789	15,625	32			16	9,446
53	Looking-glass and picture frames	5	8,815			715	8,100	6	2	1,440	8	2,103
54	Lumber and timber products	1,732	12,900,595	2,717,973	703,578	3,417,809	6,061,235	2,486	418	355,708	11,192	3,424,510
55	Lumber, planing mill products, including sash, doors, and blinds.	85	1,296,081	119,235	285,940	294,978	595,928	106	70	60,669	1,148	447,959
56	Marble and stone work	30	490,298	96,100	101,735	74,540	217,923	32	23	21,350	558	181,399
57	Masonry, brick and stone	29	133,668	16,200	12,100	25,725	79,643	35	26	11,625	549	194,150
58	Mattresses and spring beds	13	83,936	2,000	3,065	12,740	66,131	21	14	9,892	112	33,010
59	Millinery, custom work	193	337,922	30,695	37,890	13,510	255,827	255	75	40,418	404	131,908
60	Mineral and soda waters	23	190,410	37,150	55,900	46,675	50,685	32	14	16,252	99	40,649
61	Monuments and tombstones	59	148,931	24,405	7,927	16,193	95,406	78	56	17,330	179	78,238
62	Oil, cottonseed and cake	17	1,996,791	349,255	425,679	850,355	371,502	2	80	104,773	751	204,219
63	Painting, house, sign, etc	72	80,772	2,850	5,800	12,680	59,442	94	10	6,240	314	148,729
64	Paints	5	73,545	4,500	6,000	14,275	48,770	3	8	11,000	45	17,742
65	Paper hanging	10	33,150			2,150	31,000	11	10	6,830	62	25,210
66	Patent medicines and compounds	29	739,375	6,300	23,750	67,372	641,953	26	115	136,584	399	137,691
67	Paving and paving materials	7	18,500	550	2,550	3,800	11,600	5	5	3,270	55	11,620
68	Photography	65	114,297	7,703	12,634	51,723	42,234	77	15	7,322	80	39,489
69	Photolithographing and photoengraving.	3	8,675			4,750	3,925	2	2	2,000	17	5,228
70	Plastering and stuccework	9	14,220	5,075	3,000	1,807	4,338	11	4	1,600	52	16,058
71	Plumbing, and gas and steam fitting	66	355,078	25,500	35,100	34,577	259,901	81	41	19,653	502	225,532
72	Pottery, terra cotta, and fire-clay products.	18	171,898	17,085	57,220	40,255	57,338	15	15	11,755	300	91,417
73	Printing and publishing, book and job	67	980,155	19,675	62,225	482,986	415,269	77	97	102,625	837	364,747
74	Printing and publishing, newspapers and periodicals.	217	2,622,242	119,386	411,482	1,066,170	1,025,204	239	403	329,140	951	456,418
75	Refrigerators	3	51,300	2,000	3,000	7,550	38,750	2	6	5,400	53	15,050
76	Roofing and roofing materials	22	192,503	6,800	12,403	13,999	159,301	29	16	17,392	110	40,157
77	Saddlery and harness	132	602,847	15,683	27,655	67,956	491,553	163	55	42,173	488	194,031
78	Sausage	7	71,950	25,600	33,400	3,950	9,000	8			11	5,032
79	Saws	3	20,420	2,450	3,900	7,500	6,570	2	1	1,000	15	8,547
80	Sewing machine repairing	4	1,210			560	650	5	1	100	2	820
81	Ship and boat building, wooden	3	1,020			320	700	3			11	2,560
82	Shirts	12	95,725			26,225	69,500	17	5	4,000	85	30,314
83	Slaughtering and meat packing, wholesale.	8	651,740	45,300	119,589	129,227	357,624	5	15	17,365	156	60,945
84	Soap and candles	6	326,019	21,700	50,250	75,125	178,944	8	37	30,557	167	53,034
85	Stencils and brands	3	9,700			5,000	4,700	5	1	200	11	4,400
86	Tinsmithing, coppersmithing, and sheet-iron working.	124	360,082	33,750	50,055	75,324	200,953	154	24	18,082	418	180,779
87	Tobacco, chewing, smoking, and snuff	35	1,318,414	79,148	198,829	167,702	872,735	32	106	108,241	615	152,043
88	Tobacco, cigars and cigarettes	35	90,547	3,250	7,300	5,810	74,187	40	5	4,360	161	80,228
89	Tobacco, stemming and rehandling	22	443,550	28,305	64,805	14,420	336,020	33	29	21,920	461	79,243
90	Trunks and valises	9	61,918	300	900	4,225	56,493	5	15	11,342	117	31,359
91	Watch, clock, and jewelry repairing	141	156,409	8,630	8,210	56,885	82,684	154	12	6,414	101	62,044
92	Wirework, including wire rope and cable.	6	7,943			4,818	3,125	5			21	9,300
93	Wood, turned and carved	23	274,048	21,370	43,234	82,492	126,952	29	17	15,370	400	126,661
94	Woodenware, not elsewhere specified	3	86,300	1,500	8,000	15,500	11,300	1	2	2,500	39	8,833
95	Woolen goods	51	2,399,518	57,103	271,816	1,189,560	881,039	29	64	67,673	1,632	294,116
96	All other industries[1]	63	1,820,179	234,139	374,606	455,332	756,102	58	138	123,843	1,018	296,632

[1] Embraces artificial limbs, 1; belting and hose, leather, 2; belting and hose, rubber, 1; bluing, 2; bookbinding and blank book making, 1; boots and shoes, factory product, 2; bottling, 1; brass castings and brass finishing, 1; bridges, 1; cars, steam railroad, not including operations of railroad companies, 1; charcoal, 1; cheese and butter, urban dairy products, 1; chemicals, 1; china decorating, 1; clothing, women's, factory product, 2; copper, smelting and refining, 1; cordage and twine, 2; cordials and sirups, 1; cotton, cleaning and rehandling, 1; cotton, compressing, 1; druggists' preparations, not including prescriptions, 1; dye stuffs and extracts, 1; electrical apparatus and supplies, 1; explosives, 2; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; glass, cutting, staining, and

TABLE 8.—MANUFACTURES IN CITIES

CHATTANOOGA.

1	All industries	330	$7,642,695	$613,433	$1,333,605	$1,557,453	$4,138,204	332	479	$436,588	5,336	$1,832,733
2	Bicycle and tricycle repairing	8	7,250			1,950	5,300	8			10	3,150
3	Blacksmithing and wheelwrighting	12	3,188		50	1,020	2,118	20			15	8,343
4	Boots and shoes, custom work and repairing.	23	2,771		15	2,030	726	23			9	3,169
5	Bread and other bakery products	13	15,500	3,300	5,350	3,975	2,875	16	6	2,314	35	11,534
6	Brick and tile	3	58,118	11,000	9,500	13,000	24,618	3	4	3,900	132	35,816

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
34	$13,895			1	$140	$1,550	$820	$80	$650		$67,752	$67,070	$682	$123,800	47
799	239,586			4	284	91,197	1,060	12,969	77,168		2,184,311	2,179,917	4,394	2,802,117	48
167	50,665					2,492	480	665	1,147	$200	39,886	19,581	20,305	166,423	49
139	43,341					560,694	631	4,120	555,879	64	200,446	182,201	18,245	939,510	50
281	126,982			7	2,800	517,278		15,421	501,857		262,437	243,525	18,912	1,175,804	51
13	8,616	3	$830			5,750	5,052	136	562		10,067	9,575	492	43,598	52
4	1,400	1	275	3	428	2,302	1,043	55	1,204		5,775	5,770	5	21,845	53
10,832	3,367,115	118	25,767	242	31,628	402,409	23,526	58,417	319,746	720	10,008,275	10,005,676	2,599	18,127,784	54
1,115	443,668	1	260	32	4,031	84,180	4,536	8,089	41,555	30,000	1,294,700	1,282,100	12,600	2,273,457	55
553	180,640	1	169	4	590	15,269	6,031	1,249	6,699	1,290	109,581	99,199	10,382	568,127	56
549	194,150					36,356	1,292	542	2,466	32,056	188,044	185,318	2,726	500,846	57
98	30,064	14	2,946			13,748	4,353	645	8,750		183,242	180,202	3,040	267,410	58
11	5,380	392	126,471	1	57	34,399	24,799	2,275	7,325		441,705	440,609	1,096	868,194	59
91	39,563	1	312	7	774	9,670	2,750	2,348	4,572		54,713	53,981	732	173,578	60
178	77,938			1	300	12,680	3,343	1,172	8,115	50	141,517	140,488	1,029	356,276	61
747	203,470	4	749			183,222	210	16,661	166,351		2,277,855	2,210,933	66,922	2,980,041	62
311	148,194	1	200	2	335	11,115	8,153	260	2,452	250	154,910	154,466	444	427,920	63
42	17,142	3	600			5,160	996	291	3,873		88,995	86,274	2,721	150,790	64
62	25,210					7,860	3,550	451	2,185	1,674	43,109	43,007	102	105,350	65
170	80,078	221	56,593	8	1,020	449,868	13,516	5,557	430,795		525,193	521,691	3,502	1,504,282	66
55	11,620					1,614	304	50	1,260		54,326	54,021	305	100,445	67
58	30,518	23	8,706	4	265	21,540	13,002	2,171	6,347	20	59,401	58,793	608	197,488	68
14	4,890	2	260	1	78	1,062	540		522		2,696	2,012	684	13,900	69
52	16,058					1,889	487	159	869	374	15,545	15,487	58	43,911	70
500	225,410			2	122	33,985	17,044	2,524	12,917	1,500	455,572	452,151	3,421	923,659	71
291	90,696			9	721	50,832	100	1,276	49,456		74,244	38,414	35,830	259,710	72
662	322,937	159	38,831	16	2,979	64,964	25,401	6,340	31,127	2,096	435,319	425,081	10,238	1,249,941	73
697	395,188	152	47,887	102	13,343	300,890	26,212	9,698	178,688	86,292	446,540	425,020	21,520	2,205,112	74
51	14,700			2	350	20,425	1,600	390	3,435	15,000	32,750	32,350	400	81,300	75
107	39,798			3	364	11,296	3,220	425	7,651		274,403	273,308	1,095	412,123	76
425	182,587	15	5,298	48	6,146	41,461	26,978	2,768	11,541	174	669,333	663,743	5,590	1,165,489	77
11	5,032					2,370	1,200	360	810		27,978	27,466	512	42,940	78
15	8,547					4,917	300	125	4,492		9,113	8,428	685	36,996	79
2	820					464	380	28	56		2,229	2,181	48	4,315	80
11	2,560					39	14		25		3,710	3,710		8,097	81
10	7,300	75	23,014			14,978	10,796	325	537	3,320	60,827	60,215	612	142,600	82
152	60,775	4	170			25,268	347	1,513	23,258	150	1,453,128	1,438,983	14,145	1,671,218	83
134	46,434	33	6,600			21,013		3,125	17,888		414,164	409,192	4,972	545,529	84
11	4,400					1,590	1,110	60	420		4,180	4,100	80	16,300	85
411	179,879			7	900	27,156	16,852	1,684	7,420	1,200	330,519	325,804	4,715	744,171	86
348	106,334	193	37,508	74	8,201	557,149	1,665	3,472	552,012		516,369	507,784	8,585	1,541,475	87
143	76,691	7	2,121	11	1,416	35,708	4,654	552	30,502		118,738	118,494	244	290,647	88
302	60,925	85	11,687	74	6,631	28,916	1,025	1,934	25,657	300	904,289	901,499	2,790	1,178,480	89
110	30,696	1	108	6	555	9,072	7,440	110	1,522		79,825	79,422	403	163,559	90
97	60,744	2	1,100	2	200	25,077	18,694	784	3,389	2,210	43,786	42,776	1,010	240,908	91
21	9,300					1,458	1,340	35	83		19,175	18,791	384	41,140	92
384	123,696	1	200	15	2,765	21,384	2,851	1,279	17,254		222,260	217,431	4,829	463,875	93
39	8,833					4,028	240	88	3,700		16,029	15,809	220	51,360	94
557	148,817	759	116,228	316	29,071	86,141	355	3,045	77,741		874,359	860,295	14,064	1,517,194	95
725	252,599	176	34,805	117	9,228	121,215	11,216	6,315	73,184	30,500	1,680,872	1,603,319	77,553	2,610,198	96

ornamenting, 2; grease and tallow, 1; horseshoes, factory product, 1; house furnishing goods, not elsewhere specified, 1; ink, writing, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; jewelry, 1; kaolin and other earth grinding, 1; leather goods, 1; millinery and lace goods, 1; models and patterns, 1; musical instruments, pianos and materials, 1; paper goods, not elsewhere specified, 1; pipes, tobacco, 1; plumbers' supplies, 1; pumps, not including steam pumps, 1; safes and vaults, 1; show cases, 1; sporting goods, 1; stationery goods, not elsewhere specified, 2; surgical appliances, 1; umbrellas and canes, 1; upholstering materials, 2; vinegar and cider, 2; washing machines and clothes wringers, 2; wheelbarrows, 1.

BY SPECIFIED INDUSTRIES: 1900.

CHATTANOOGA.

4,764	$1,723,338	432	$94,530	140	$14,865	$750,387	$55,548	$41,364	$608,262	$45,218	$7,036,567	$6,613,109	$423,458	$11,628,800	1
9	3,070			1	80	1,271	1,021		250		1,910	1,900	10	10,070	2
15	8,343					1,136	1,134		2		4,366	4,138	228	25,540	3
8	3,052	1	117			1,298	1,281		17		6,485	6,445	40	19,414	4
30	10,627			5	907	2,881	2,448	110	323		33,104	32,217	887	78,840	5
132	35,816					16,762	750	832	15,180		27,780	2,574	25,206	96,225	6

TABLE 8.—MANUFACTURES IN CITIES

CHATTANOOGA—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
7	Carpentering	15	$12,088	$2,200	$8,000	$2,220	$4,668	19	1	$468	84	$31,844
8	Carriages and wagons	6	170,850	8,251	27,328	21,325	113,451	5	13	16,610	91	39,831
9	Cars and general shop construction and repairs by steam railroad companies.	3	154,200	38,300	32,500	50,900	32,500		11	8,950	334	196,890
10	Clothing, men's, custom work and repairing.	20	60,990	7,000	10,000	4,685	39,305	21	3	2,200	103	46,302
11	Clothing, women's, dressmaking	12	2,670	400	400	1,095	775	11			70	18,775
12	Confectionery	5	5,625			5,400	225	8			61	16,920
13	Dyeing and cleaning	4	1,175			125	1,050	6			7	2,250
14	Flouring and grist mill products	3	340,800	30,000	45,000	65,600	200,200	1	28	29,320	83	36,328
15	Foundry and machine shop products	20	1,119,015	130,516	154,955	168,292	665,252	18	69	61,563	1,240	356,350
16	Furniture, cabinetmaking, repairing, and upholstering.	8	7,069			1,672	5,397	11			18	5,688
17	Furniture, factory product	3	327,500	22,000	39,273	49,085	217,142		15	15,848	234	75,387
18	Gas and lamp fixtures	3	12,357	2,000	1,500	3,945	4,912	2	5	4,574	43	15,581
19	Iron and steel	3	523,644	40,575	187,173	99,272	196,624		12	14,375	193	70,718
20	Lumber and timber products	4	190,100	53,700	7,300	21,100	108,000	4	7	5,720	130	40,076
21	Lumber, planing mill products, including sash, doors, and blinds.	5	151,246	18,800	22,500	30,550	79,396		20	21,557	171	56,578
22	Masonry, brick and stone	3	4,100			800	3,300	5			56	19,850
23	Mattresses and spring beds	3	23,740	600	1,400	3,740	18,000	4	6	3,380	16	4,225
24	Millinery, custom work	4	9,815			1,515	8,300	6	2	1,800	26	5,727
25	Monuments and tombstones	4	6,100			325	5,775	4	7	1,850	7	2,695
26	Painting, house, sign, etc	9	3,465			690	2,775	10			37	13,583
27	Paper hanging	4	5,450			300	5,150	7	1	600	9	3,192
28	Patent medicines and compounds	7	145,078	1,000	2,500	22,668	118,910	6	29	25,294	118	51,265
29	Paving and paving materials	3	4,550	550	1,550	800	1,650	1	1	450	5	2,120
30	Photography	3	11,250			9,500	1,750	3			8	3,734
31	Plumbing, and gas and steam fitting	9	25,620	3,200	3,000	1,920	17,500	11	7	2,470	50	22,087
32	Pottery, terra cotta, and fire-clay products.	3	93,489	6,500	33,029	16,360	37,600	2	9	8,485	194	63,689
33	Printing and publishing, book and job	10	51,060		500	29,500	21,060	9	19	13,250	100	37,310
34	Printing and publishing, newspapers and periodicals.	5	352,904	34,261	156,000	101,724	60,919	4	46	31,805	85	58,552
35	Roofing and roofing materials	3	151,998	5,300	9,903	5,899	130,896	2	12	15,352	26	9,938
36	Saddlery and harness	7	20,975	1,300	3,800	5,575	10,300	7	5	1,968	59	16,921
37	Tinsmithing, coppersmithing, and sheet-iron working.	8	58,575	2,000	10,000	13,950	32,625	8	9	7,620	72	23,441
38	Tobacco, cigars and cigarettes	4	9,902			600	9,302	4	1	910	14	6,262
39	Watch, clock, and jewelry repairing	14	7,415			4,990	2,425	16			6	4,972
40	All other industries[1]	54	3,491,553	190,680	566,084	789,356	1,945,433	47	131	133,455	1,385	411,695

[1] Embraces agricultural implements, 1; awnings, tents, and sails, 1; baking and yeast powders, 1; bottling, 1; boxes, fancy and paper, 1; boxes, wooden packing, 2 brass castings and brass finishing, 1; brooms and brushes, 2; china decorating, 1; clothing, men's, factory product, 2; coffee and spice, roasting and grinding, 1; cordials and sirups, 1; cotton goods, 1; druggists' preparations, not including prescriptions, 1; electrical apparatus and supplies, 1; electrical construction and repairs, 2; food preparations, 1; gas, illuminating and heating, 2; hairwork, 1; hardware, saddlery, 2; ice, manufactured, 2; ironwork, architectural and ornamental, 1; jewelry, 1;

KNOXVILLE.

1	All industries	218	$5,151,130	$241,113	$585,808	$2,225,831	$2,098,378	255	268	$257,387	4,714	$1,473,543
2	Bicycle and tricycle repairing	3	4,435			2,650	1,785	3			14	3,514
3	Blacksmithing and wheelwrighting	7	4,025			1,535	2,490	8	1	468	18	6,854
4	Boots and shoes, custom work and repairing.	14	3,149			2,062	1,087	18			13	4,766
5	Bread and other bakery products	4	66,300	24,000	24,000	9,500	8,800	6	3	2,800	60	23,802
6	Carpentering	5	18,190	500	500	1,975	15,215	8			63	23,700
7	Carriages and wagons	6	42,280	500	500	5,624	35,656	7	8	6,348	78	29,461
8	Clothing, men's, custom work and repairing.	12	23,915	2,000	500	4,155	17,260	15	2	1,760	63	42,391
9	Clothing, men's, factory product	6	149,250			10,950	138,300	8	22	19,500	326	55,962
10	Clothing, women's, dressmaking	6	13,885			1,675	12,210	8	2	3,000	95	21,104
11	Coffins, burial cases, and undertakers' goods.	3	38,174	2,400	800	2,600	32,374		6	7,980	28	8,896
12	Confectionery	4	45,300			14,000	31,300	5	7	8,100	66	16,697
13	Dyeing and cleaning	6	6,212			2,800	3,412	7	3	1,500	15	5,144
14	Flouring and grist mill products	3	372,844	40,000	49,200	80,200	203,444	1	16	19,890	70	30,742
15	Foundry and machine shop products	11	140,625	21,200	10,300	55,800	53,325	8	8	5,460	169	53,920
16	Furniture, cabinetmaking, repairing, and upholstering.	5	4,063	2,000	600	810	653	6			1	260
17	Furniture, factory product	4	183,600	20,000	43,000	28,000	92,600	5	15	14,460	285	80,459
18	Lumber, planing mill products, including sash, doors, and blinds.	3	35,000	4,500	5,500	10,500	14,500	6			40	11,660
19	Millinery, custom work	11	30,875			2,975	27,900	22	10	6,860	71	17,172
20	Monuments and tombstones	5	19,965			800	19,165	6	7	7,200	23	11,244
21	Painting, house, sign, etc	6	10,825			1,825	9,000	10	1	600	37	13,959
22	Photography	6	29,550	4,000	7,000	7,950	10,600	10	5	2,718	16	6,897
23	Plumbing, and gas and steam fitting	4	34,215	4,000	8,000	2,600	19,615	5	5	1,538	47	17,300
24	Printing and publishing, book and job	6	79,690			48,365	31,325	7	7	7,450	108	37,493
25	Printing and publishing, newspapers and periodicals.	4	111,469			98,941	12,528	3	24	21,890	37	24,876
26	Saddlery and harness	8	41,590			4,425	37,165	10	7	4,800	51	15,048

BY SPECIFIED INDUSTRIES: 1900—Continued.

CHATTANOOGA—Continued.

Average number of wage-earners and total wages—continued.						Miscellaneous expenses.					Cost of materials used.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
84	$31,844					$25,563	$599	$33	$1,231	$23,700	$163,730	$163,695	$35	$274,893	7
91	39,831					10,137	1,699	176	8,262		121,268	119,542	1,726	227,315	8
334	196,890					10,185		3,668	6,517		209,728	207,038	2,690	425,753	9
77	37,848	25	$8,350	1	$104	6,765	5,430	540	795		41,008	40,343	665	127,517	10
		70	18,775			1,463	1,430	16	17		23,345	23,335	10	56,406	11
36	11,281	25	5,639			2,550	1,700	25	825		75,743	75,027	716	126,688	12
5	1,950	2	360			529	496		33		595	575	20	5,800	13
80	35,543			3	780	34,661	8,000	1,512	30,149		2,030,306	2,020,556	9,750	2,287,268	14
1,239	356,250			1	100	86,212	3,876	4,591	77,027	718	780,431	751,029	29,402	1,462,458	15
17	5,480	1	208			1,755	720		235	800	7,350	7,248	102	19,615	16
230	74,799	1	300	3	288	26,039	900	1,077	24,062		133,566	133,120	446	277,525	17
41	15,081			2	450	2,483	234	50	2,199		12,636	12,025	611	46,546	18
193	70,718					17,309		933	16,376		513,359	228,713	284,646	685,984	19
127	39,500			3	576	14,150		1,350	12,800		189,675	189,675		309,650	20
169	56,367			2	211	9,447	1,140	700	7,607		194,088	193,393	695	319,744	21
56	19,850										29,850	29,750	100	60,500	22
15	4,025	1	200			8,803	1,300	275	7,228		45,170	44,380	790	71,731	23
		26	5,727			2,513	1,980	88	445		25,208	25,108	100	44,000	24
7	2,695					916	304		612		5,868	5,847	21	14,300	25
37	13,583					1,284	1,036		248		16,440	16,425	15	40,750	26
9	3,192					1,184	456	40	688		10,717	10,692	25	20,600	27
41	30,415	77	20,850			28,140	1,750	730	25,660		95,930	94,970	960	284,204	28
5	2,120					425	25		400		2,125	2,125		7,345	29
4	2,494	4	1,240			1,616	1,175		441		4,120	4,090	30	14,500	30
50	22,087					3,164	1,567	327	1,270		47,780	47,420	360	91,781	31
193	63,639			1	50	49,885	100	700	49,085		56,953	29,251	27,702	192,287	32
57	28,810	42	8,420	1	30	5,645	2,530	100	1,515	1,500	48,064	47,065	999	129,425	33
75	55,642	10	2,910			15,053	390	1,697	12,216	750	53,864	51,484	2,380	210,730	34
24	9,626			2	312	6,473	48	250	6,175		172,304	171,774	530	231,854	35
37	13,671	2	250	20	3,000	1,359	948	78	333		66,509	66,005	504	93,740	36
72	23,441					2,338	1,102	190	1,046		33,980	33,520	460	79,650	37
8	4,572	4	1,456	2	234	3,158	732	57	2,369		7,823	7,791	32	23,070	38
6	4,972					1,746	1,479		267		8,287	3,282	5	22,100	39
1,151	384,214	141	19,788	93	7,693	344,089	10,763	21,219	294,357	17,750	1,740,102	1,709,542	30,560	3,112,982	40

leather, tanned, curried, and finished, 1; liquors, distilled, 1; liquors, malt, 1; lock and gun smithing, 1; looking-glass and picture frames, 1; marble and stone work, 1; mineral and soda waters, 2; oil, cottonseed and cake, 1; paints, 1; plumbers' supplies, 1; refrigerators, 2; sausage, 1; saws, 1; ship and boat building, wooden, 1; shirts, 1; stationery goods, not elsewhere specified, 1; stencils and brands, 1; trunks and valises, 2; washing machines and clothes wringers, 1; wheelbarrows, 1; wood, turned and carved, 1.

KNOXVILLE.

3,036	$1,281,582	1,336	$216,660	282	$25,301	$306,795	$52,342	$23,369	$228,260	$2,824	$3,877,772	$3,777,763	$100,009	$6,943,595	1
12	3,358			2	156	1,235	900	35	300		5,415	5,295	120	18,600	2
18	6,854					1,029	974		55		8,077	7,910	167	24,980	3
13	4,766					1,097	1,033		64		5,962	5,962		20,070	4
52	22,450	5	1,040	3	312	6,130	312	855	4,963		63,864	63,108	756	111,600	5
63	23,700					994	534	48	112	300	33,775	33,175	600	79,350	6
78	29,461					3,569	1,954	170	1,445		45,606	44,202	1,404	97,770	7
46	36,760	16	5,579	1	52	4,555	2,891	426	1,138	100	41,715	41,525	190	131,070	8
42	11,840	282	44,018	2	104	5,489	2,980		1,609	900	168,612	166,761	1,851	300,570	9
		94	20,998	1	106	1,764	1,744		20		26,725	26,725		58,914	10
28	8,896					1,571	480	76	1,015		28,445	28,055	390	64,432	11
30	10,445	36	6,252			3,786	2,816	350	5,620		72,666	72,270	396	131,500	12
11	3,948	4	1,196			2,602	1,482		1,120		5,223	4,737	486	13,845	13
70	30,742					28,291		1,803	26,488		1,004,511	997,710	6,801	1,142,317	14
168	53,868			1	52	7,530	1,980	885	4,665		90,854	86,910	3,944	230,724	15
1	260					363	288	40	35		1,845	1,845		5,500	16
254	77,025			31	3,434	21,901	1,100	1,088	18,513	1,200	117,581	115,857	1,724	289,776	17
39	11,400	1	260			1,478	120	358	1,000		70,449	70,339	110	101,400	18
		71	17,172			4,173	3,798	115	260		90,190	90,190		137,500	19
23	11,244					1,575	984	36	555		18,276	18,276		46,175	20
34	13,424	1	200	2	335	838	636		202		8,187	8,187		35,425	21
9	4,964	5	1,754	2	179	4,843	1,254	606	2,983		19,595	19,595		40,948	22
47	17,300					1,542	636	330	576		54,355	54,065	290	87,100	23
92	34,646	16	2,847			5,459	2,172	165	3,122		32,535	30,169	2,366	110,301	24
32	23,320	5	1,556			18,674	1,200	265	16,909	300	17,456	15,981	1,475	112,668	25
45	14,258			6	790	5,092	3,590	127	1,375		47,616	47,416	200	105,189	26

KNOXVILLE—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
27	Tinsmithing, coppersmithing, and sheet-iron working.	9	$66,870	$1,200	$5,000	$14,125	$46,545	14	6	$4,836	66	$17,796
28	Tobacco, cigars and cigarettes	4	17,750			1,350	16,400	6	1	250	27	13,636
29	Watch, clock, and jewelry repairing	12	10,275			5,700	4,575	14	5	3,384	15	8,144
30	All other industries[1]	41	3,546,809	114,813	430,908	1,801,939	1,199,149	29	97	105,095	2,812	870,646

[1] Embraces artificial limbs, 1; bluing, 1; boxes, fancy and paper, 1; brick and tile, 1; cars and general shop construction and repairs by steam railroad companies, 1; cotton goods, 1; dye stuffs and extracts, 1; electrical construction and repairs, 1; flavoring extracts, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 1; hand stamps, 1; hosiery and knit goods, 1; ice, manufactured, 2; iron and steel, 1; ironwork, architectural and ornamental, 2; liquors, malt, 1; lock and gun smithing, 1;

MEMPHIS.

1	All industries	658	$11,179,024	$1,511,199	$1,583,598	$3,089,181	$4,995,046	714	512	$619,930	8,428	$3,688,278
2	Bicycle and tricycle repairing	9	9,478			3,640	5,838	11			19	7,174
3	Blacksmithing and wheelwrighting	60	64,476	5,400	11,625	14,865	32,586	70			120	65,396
4	Boots and shoes, custom work and repairing.	59	25,987	3,000	2,000	7,687	13,300	59			32	14,425
5	Bread and other bakery products	21	470,827	24,000	32,500	269,366	144,961	24	35	18,925	157	75,275
6	Carpentering	33	159,360	12,000	1,200	19,090	127,070	37			278	164,591
7	Carriage and wagon materials	3	75,954		3,900	21,500	50,554	1	3	4,780	74	25,900
8	Carriages and wagons	8	327,170	65,000	63,500	47,726	150,944	7	10	15,420	201	87,460
9	Cars and general shop construction and repairs by steam railroad companies.	3	206,727	39,467	32,000	50,025	85,235		16	17,763	715	381,370
10	Clothing, men's, custom work and repairing.	43	101,992			6,350	95,642	51	3	5,780	171	99,090
11	Clothing, men's, factory product	6	131,100	6,000	18,000	20,100	87,000	10	1	1,500	386	109,845
12	Clothing, women's, dressmaking	20	18,296			3,355	14,941	19	3	9,700	78	35,682
13	Coffee and spice, roasting and grinding	5	63,840	1,200	3,000	8,000	51,640	8	14	13,780	12	5,378
14	Confectionery	7	49,593	9,000	12,700	7,105	20,788	10	5	4,200	62	24,449
15	Cooperage	3	28,550		1,000	7,050	20,500	3	4	4,200	72	39,070
16	Cotton, ginning	8	36,600	900	2,200	28,500	5,000	7	2	1,500	25	3,150
17	Dyeing and cleaning	22	17,810	1,000	1,800	7,670	7,340	26			37	14,686
18	Electrical construction and repairs	3	6,350			550	5,800	3			11	7,150
19	Foundry and machine shop products	15	1,070,970	132,000	152,964	269,988	516,018	20	23	33,345	764	350,625
20	Furniture, cabinetmaking, repairing, and upholstering.	23	43,437	2,000	3,000	4,387	34,050	35	2	3,800	33	22,460
21	Furniture, factory product	3	218,701	9,367	22,405	24,702	162,227	1	19	22,620	186	64,255
22	Ice, manufactured	4	544,572	134,950	149,215	163,622	96,785		25	30,770	192	102,881
23	Lock and gun smithing	8	13,580			4,575	9,005	11			11	7,136
24	Lumber and timber products	19	2,292,838	323,265	166,423	555,365	1,247,785	11	96	116,830	1,860	594,636
25	Lumber, planing mill products, including sash, doors, and blinds.	4	218,200	25,000	91,200	52,000	50,000	5			166	89,200
26	Marble and stone work	4	101,250	5,000	2,500	22,250	71,500	6	1	720	76	45,752
27	Masonry, brick and stone	3	11,600			1,800	9,800	3			30	15,800
28	Millinery, custom work	13	18,660	2,500	2,000	1,085	13,075	12	3	6,100	39	17,108
29	Mineral and soda waters	3	86,000	20,000	30,000	16,000	20,000	3	6	8,400	34	18,525
30	Oil, cottonseed and cake	9	1,549,774	321,400	322,427	629,591	276,356		49	72,267	587	158,569
31	Painting, house, sign, etc	21	32,600			5,025	27,575	28	4	4,320	112	63,739
32	Paints	3	54,875	3,000	2,500	7,575	41,800	2	4	7,340	25	9,900
33	Patent medicines and compounds	5	71,550	200	150	5,250	65,950	6	9	17,600	33	13,856
34	Photography	11	25,125			8,075	17,050	12	2	1,900	23	15,344
35	Plumbing, and gas and steam fitting	22	110,201	15,000	15,000	11,823	68,378	27	7	6,965	204	107,392
36	Printing and publishing, book and job	17	225,750			159,750	66,000	19	15	23,529	215	92,370
37	Printing and publishing, newspapers and periodicals.	10	214,900			111,650	103,250	10	63	66,000	110	80,327
38	Roofing and roofing materials	5	6,750			2,200	4,550	7			25	12,940
39	Saddlery and harness	12	186,770			14,145	172,625	13			115	72,562
40	Sausage	6	53,950	20,600	25,400	950	7,000	7			8	4,200
41	Shirts	7	86,375			22,375	64,000	10			48	21,220
42	Tinsmithing, coppersmithing, and sheet-iron working.	29	76,845	2,000	5,000	14,995	54,850	30	4	3,336	128	75,178
43	Tobacco, cigars and cigarettes	6	31,550	1,500	2,000	2,050	26,000	6	1	2,160	78	46,839
44	Watch, clock, and jewelry repairing	28	68,181	5,700	3,500	13,955	45,026	26	3	780	35	21,062
45	Wirework, including wire rope and cable.	4	5,943			3,418	2,525	3			18	7,740
46	All other industries[1]	51	1,963,967	320,750	402,489	438,001	802,727	55	80	93,600	823	346,471

[1] Embraces awnings, tents, and sails, 1; bags, other than paper, 2; baking and yeast powders, 1; belting and hose, leather, 1; belting and hose, rubber, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brick and tile, 2; brooms and brushes, 2; clothing, women's, factory product, 1; coffins, burial cases, and undertakers' goods, 2; cotton, cleaning and rehandling, 1; flouring and grist mill products, 1; food preparations, 1; furnishing goods, men's, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 2; glass, cutting, staining, and ornamenting, 2; grease and tallow, 1; hairwork, 1; hand stamps, 1; hardware, saddlery, 1;

BY SPECIFIED INDUSTRIES: 1900—Continued.

KNOXVILLE—Continued.

Average number of wage-earners and total wages—continued.						Miscellaneous expenses.					Cost of materials used.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.											
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
66	$17,796					$4,783	$3,820	$225	$688		$56,957	$56,278	$679	$96,919	27
22	13,072			5	$564	4,424	792	150	3,482		16,021	15,985	36	46,300	28
15	8,144					4,540	3,790	220	530		6,372	6,270	102	34,370	29
1,786	737,641	800	$113,788	226	19,217	152,518	8,082	14,996	129,416	$24	1,718,387	1,642,965	75,922	3,263,282	30

lumber and timber products, 1; marble and stone work, 1; masonry, brick and stone, 1; mattresses and spring beds, 2; mineral and soda waters, 1; musical instruments, pianos and materials, 1; paper hanging, 1; patent medicines and compounds, 2; paving and paving materials, 1; photolithographing and photoengraving, 1; roofing and roofing materials, 1; saws, 1; ship and boat building, wooden, 1; shirts, 1; trunks and valises, 2; vinegar and cider, 1; woolen goods, 2.

MEMPHIS.

7,655	$3,430,049	586	$174,961	187	$33,268	$1,077,657	$203,356	$96,019	$716,886	$61,446	$9,592,422	$9,389,530	$202,892	$17,848,530	1
18	7,030			1	144	3,237	2,672	170	395		10,510	10,410	100	36,894	2
117	65,076			3	320	12,886	10,038	154	2,690	4	78,002	74,637	3,365	233,570	3
32	14,425					8,967	7,384	253	1,320	10	21,544	21,034	510	79,762	4
133	70,933	13	3,049	11	1,298	36,912	9,162	2,215	25,535		459,322	452,363	6,959	668,653	5
278	164,591					56,998	4,858	525	2,815	48,800	379,772	379,495	277	697,500	6
74	25,900					9,850	1,180	100	8,570		60,684	60,669	15	118,379	7
201	87,460					13,483	3,017	2,472	7,994		144,980	143,706	1,274	333,288	8
712	380,499	3	871			4,837		4,237	600		353,097	346,591	6,506	757,046	9
157	94,900	13	4,090	1	100	25,078	19,696	536	4,594	252	112,207	111,512	695	342,357	10
116	49,883	270	59,962			7,917	5,390	1,062	1,465		231,054	229,874	1,180	440,141	11
2	2,000	76	33,682			7,385	5,880	140	1,365		75,470	75,380	90	147,845	12
9	4,598	3	780			4,210	2,160	340	1,710		63,475	62,644	831	102,340	13
42	19,949	14	3,700	6	800	5,933	4,775	172	986		93,266	91,806	1,460	167,382	14
72	39,070					3,235	1,510	25	1,700		85,675	85,025	650	152,200	15
25	3,150					2,534	1,300	414	820		11,312	10,032	1,280	36,937	16
30	12,622	6	1,920	1	144	6,152	4,763	212	1,177		4,732	4,345	387	44,353	17
11	7,150					1,265	1,010	65	190		15,530	15,500	30	30,000	18
761	350,025			3	600	53,682	3,420	8,067	42,195		495,623	478,753	16,870	1,078,713	19
33	22,460					5,041	3,699	210	1,132		12,210	12,175	35	59,706	20
151	56,885			35	7,370	25,862	240	561	25,061		140,865	139,558	1,307	272,682	21
192	102,881					35,475		10,175	25,300		45,362	9,400	35,962	260,000	22
9	6,536	2	600			2,935	2,830	25	80		3,195	3,010	185	17,250	23
1,787	584,076			73	10,560	112,279	4,905	13,195	94,179		1,733,813	1,733,813		3,051,181	24
166	89,200					4,365	600	1,750	2,515		87,975	87,475	500	245,000	25
76	45,752					2,575	390	375	1,810		42,740	40,740	2,000	187,300	26
30	15,800					485	390		95		31,750	30,950	800	58,600	27
8	4,500	31	12,608			4,254	3,327	242	685		35,615	35,615		83,125	28
32	18,400			2	125	5,585	2,000	1,185	2,400		28,328	28,098	230	88,920	29
583	157,920	4	749			143,665	210	13,204	130,251		1,820,935	1,771,268	49,667	2,271,313	30
112	63,739					5,889	4,384	120	1,135	250	60,506	60,381	125	173,754	31
22	9,300	3	600			2,555	780	215	1,560		71,670	70,845	825	111,150	32
17	5,800	16	8,056			60,278	5,776	1,907	52,595		77,515	76,215	1,300	225,900	33
18	12,478	4	2,816	1	50	6,017	5,030	522	465		11,470	11,465	5	47,840	34
204	107,392					14,664	8,200	1,056	5,408		166,508	165,122	1,386	384,910	35
198	88,450	15	3,659	2	261	16,589	11,084	1,649	3,856		118,849	117,157	1,692	354,647	36
108	79,932	1	300	1	95	33,896	6,420	1,835	21,461	4,180	89,077	86,460	2,617	421,050	37
25	12,940					1,495	1,044	76	375		53,440	53,320	120	87,875	38
106	68,692	6	3,600	3	270	13,015	10,909	536	1,570		164,288	162,563	1,725	293,093	39
8	4,200					2,010	1,200	135	675		18,730	18,330	400	30,460	40
9	6,300	39	14,920			10,410	8,700	10	200	1,500	45,815	45,515	300	94,200	41
127	75,078			1	100	9,808	6,745	341	1,522	1,200	97,048	95,355	1,693	271,665	42
78	46,839					19,056	1,440	189	17,427		65,689	65,674	15	150,555	43
33	19,962	1	1,000	1	100	6,588	5,808	187	343	250	12,318	12,073	245	66,107	44
18	7,740					1,310	1,210	35	65		17,872	17,500	372	36,600	45
715	317,586	66	17,999	42	10,936	266,495	17,820	25,125	218,550	5,000	1,842,584	1,785,677	56,907	3,036,287	46

lime and cement, 1; liquors, malt, 1; looking-glass and picture frames, 2; mattresses and spring beds, 2; millinery and lace goods, 1; monuments and tombstones, 1; paper hanging, 2; pumps, not including steam pumps, 1; refrigerators, 1; safes and vaults, 1; saws, 1; ship and boat building, wooden, 1; soap and candles, 1; stencils and brands, 1; trunks and valises, 2; umbrellas and canes, 1; vinegar and cider, 1; wood, turned and carved, 2.

TABLE 8.—MANUFACTURES IN CITIES

NASHVILLE.

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND TOWNS.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES. Total. Average number.	Wages.
1	All industries	488	$13,150,137	$960,910	$2,388,469	$4,143,437	$5,707,321	587	1,037	$882,835	8,398	$2,882,111
2	Blacksmithing and wheelwrighting	49	34,440	7,400	6,625	6,755	13,660	65	2	420	65	28,050
3	Boots and shoes, custom work and repairing.	29	8,176	650	730	3,974	2,822	30	1	260	23	8,502
4	Bread and other bakery products	16	76,650	21,900	11,800	14,450	28,500	19	27	12,015	73	36,366
5	Brooms and brushes	7	15,680	1,700	5,020	2,240	6,720	11	3	1,920	31	7,628
6	Carpentering	23	204,682	22,911	44,900	23,172	113,699	38	3	2,700	275	117,825
7	Carriages and wagons	10	73,485	10,850	13,650	9,123	39,862	13	5	5,184	112	47,539
8	Clothing, men's, custom work and repairing.	30	45,828			4,245	41,583	34	19	14,260	76	38,127
9	Clothing, men's, factory product	5	266,286			16,931	249,355	10	32	27,235	437	92,018
10	Confectionery	12	284,033	300	300	134,347	149,086	15	55	41,572	175	51,752
11	Dyeing and cleaning	5	2,440			1,530	910	9			6	1,775
12	Electrical construction and repairs	3	10,200			1,900	8,300	4	2	2,500	15	5,102
13	Fertilizers	3	898,547	73,747	311,219	51,989	461,592		45	48,568	423	88,053
14	Flouring and grist mill products	4	921,837	62,113	233,930	313,500	312,294	2	45	47,206	178	91,350
15	Foundry and machine shop products	13	113,000	11,100	7,000	52,100	42,800	18	13	12,400	141	68,850
16	Furniture, cabinetmaking, repairing, and upholstering.	7	3,430			765	2,665	10			11	4,666
17	Ice, manufactured	4	195,284	24,400	43,211	116,173	11,500	4	14	10,616	79	32,690
18	Leather, tanned, curried, and finished	3	16,553	250	200	1,935	14,168	4	1	300	25	8,061
19	Lock and gun smithing	9	14,875	4,000	2,000	3,850	5,025	12			3	1,430
20	Lumber and timber products	7	866,160	124,450	45,000	82,500	614,210	15	31	26,570	816	239,167
21	Lumber, planing mill products, including sash, doors, and blinds.	6	385,705	31,900	82,340	42,600	228,865	8	16	17,730	296	128,925
22	Masonry, brick and stone	3	74,310	11,700	6,800	20,000	35,810	7	26	11,625	361	122,732
23	Mattresses and spring beds	3	29,371	500	865	3,700	24,306	8	5	4,500	37	10,803
24	Millinery, custom work	4	99,860	16,000	9,000	1,360	73,500	4	16	16,600	91	46,180
25	Mineral and soda waters	3	50,750	13,000	16,000	5,000	16,750	3	7	7,752	25	9,421
26	Monuments and tombstones	4	37,735	19,000	2,500	8,650	7,585	5	3	1,100	23	11,375
27	Painting, house, sign, etc	10	11,945			3,425	8,520	12	1	600	61	28,900
28	Paper hanging	3	14,750			950	13,800	2	6	4,250	24	7,276
29	Patent medicines and compounds	3	57,300			2,300	55,000	5	14	13,800	28	7,458
30	Photography	7	15,135			9,785	5,350	11	5	1,554	20	9,978
31	Plastering and stuccowork	3	13,550	5,000	2,850	1,700	4,000	5	4	1,600	43	12,992
32	Plumbing, and gas and steam fitting	13	127,488	2,100	6,000	10,650	108,738	16	20	8,405	136	55,006
33	Printing and publishing, book and job	18	595,143	18,000	60,000	227,271	289,872	24	55	57,616	371	186,294
34	Printing and publishing, newspapers and periodicals.	34	1,520,158	74,150	228,902	493,888	723,218	20	236	188,594	360	184,541
35	Roofing and roofing materials	5	22,500			2,750	19,750	7	3	1,560	36	10,145
36	Saddlery and harness	18	217,866	825	1,500	25,183	190,358	23	38	31,622	175	58,670
37	Shirts	3	9,000			3,500	5,500	5	5	4,000	29	6,804
38	Soap and candles	3	190,250	14,300	31,500	41,150	103,300	4	23	15,200	97	35,560
39	Tinsmithing, coppersmithing, and sheet-iron working.	14	52,059	10,250	4,355	6,619	30,835	17	3	2,060	73	37,015
40	Tobacco, chewing, smoking, and snuff	4	374,930	18,038	52,579	67,157	237,156	2	36	31,455	104	27,265
41	Tobacco, cigars and cigarettes	10	14,130	1,150	2,500	1,195	9,285	10	2	1,040	22	8,796
42	Trunks and valises	3	23,918	300	900	1,125	21,593	2	7	5,442	40	8,844
43	Watch, clock, and jewelry repairing	11	10,250	800	600	4,725	4,125	14	2	1,000	20	16,541
44	All other industries [1]	64	5,150,448	358,126	1,103,693	2,317,275	1,371,354	60	206	200,004	2,962	881,639

[1] Embraces awnings, tents, and sails, 1; bags, other than paper, 1; baking and yeast powders, 2; belting and hose, leather, 1; bicycle and tricycle repairing, 2; bluing, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 2; boxes, fancy and paper, 2; boxes, wooden packing, 1; brick and tile, 2; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 2; chemicals, 1; clothing, women's, dressmaking, 1; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 2; cooperage, 2; cotton goods, 2; food preparations, 2; furnishing goods, men's, 2; furniture, factory product, 2; gas, illuminating and heating, 1; hairwork, 1; hand stamps, 1; hosiery and knit

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns	718	$9,396,528	$787,171	$2,415,408	$1,853,151	$4,340,798	813	520	$397,001	7,027	$2,073,160
2	Bristol	59	742,605	174,464	82,700	109,362	376,079	66	62	41,066	511	138,898
3	Brownsville	25	78,554	3,275	10,750	20,344	44,185	34	6	2,145	59	15,240
4	Clarksville	105	1,402,405	79,877	250,411	227,511	844,606	131	111	107,121	912	247,202
5	Cleveland	29	238,785	14,950	29,700	66,675	127,460	30	19	15,200	453	97,653
6	Columbia	167	574,789	61,830	114,985	172,488	225,486	191	34	24,556	648	198,636
7	Dayton	21	621,268	4,350	382,650	120,513	113,755	22	11	6,160	606	134,030
8	Dyersburg	36	532,375	151,500	42,250	134,415	204,210	38	23	15,600	233	83,364
9	Harriman	38	473,018	13,290	79,716	146,264	233,748	37	33	21,707	325	87,231
10	Humboldt	30	177,563	14,255	25,974	43,878	88,456	41	17	3,375	188	51,593
11	Jackson	84	1,123,632	71,750	182,325	315,376	554,181	87	112	83,234	1,205	467,340
12	Johnson City	45	1,239,406	75,980	238,085	188,527	736,814	51	34	26,598	549	121,334
13	South Pittsburg	20	1,664,410	77,975	885,095	111,780	589,560	20	26	27,203	678	205,288
14	Trenton	24	312,048	28,675	56,767	117,948	108,658	29	15	11,486	469	165,646
15	Union City	35	215,670	15,000	34,000	73,070	93,600	36	17	11,550	191	59,705

BY SPECIFIED INDUSTRIES: 1900—Continued.

NASHVILLE.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
6,850	$2,465,518	1,669	$373,611	379	$42,982	$1,436,544	$116,388	$87,361	$904,384	$328,411	$10,390,573	$10,216,671	$173,902	$18,367,323	1
65	28,050					6,187	4,957	288	567	380	29,587	28,246	1,341	109,576	2
22	8,398			1	104	4,324	3,491	21	327	485	14,524	14,280	244	43,086	3
67	35,626	1	210	5	530	6,847	3,304	1,128	2,415		90,682	88,081	2,601	168,702	4
28	7,452			3	176	517	318	63	136		26,184	26,084	100	48,980	5
273	117,440			2	385	139,771	1,936	1,656	9,833	126,346	179,010	178,026	984	508,136	6
110	47,244			2	295	8,370	3,876	415	3,314	765	65,560	63,737	1,823	167,164	7
67	36,075	8	1,930	1	122	47,502	11,148	366	2,516	33,472	96,828	95,732	1,096	254,276	8
56	14,874	381	77,144			13,652	3,916	285	9,451		355,149	352,783	2,366	553,364	9
82	36,070	83	14,882	5	800	48,506	7,183	1,578	39,556	189	214,048	209,642	4,406	447,323	10
3	948	3	827			1,066	608	68	390		1,604	1,209	395	3,605	11
15	5,102					2,887	900	40	1,352	595	34,665	34,625	40	53,154	12
423	88,053					110,223		2,583	107,640		764,691	749,260	15,431	1,420,788	13
178	91,350					36,694	240	3,333	33,121		3,423,890	3,403,707	20,183	3,907,017	14
141	68,850					7,516	3,443	633	3,190	250	81,648	77,119	4,529	222,429	15
11	4,666					1,383	1,317	26	35	5	4,187	4,162	25	16,125	16
79	32,690					11,138		2,678	8,460		27,809	5,384	22,425	112,277	17
25	8,061					880	550	126	204		57,217	56,937	280	67,969	18
2	1,200	1	230			1,901	1,608	66	227		4,673	4,426	247	13,923	19
809	238,347			7	820	28,048	1,200	5,098	21,750		690,630	690,630		1,043,525	20
278	127,241			18	1,684	39,710	1,100	1,943	14,667	22,000	281,733	278,345	3,388	553,678	21
361	122,732					34,253	400	397	1,400	32,056	28,219	27,099	1,120	223,822	22
29	9,363	8	1,440			2,602	1,303	168	1,141		61,115	60,489	626	89,049	23
1	180	90	46,000			5,300	3,800	300	1,200		79,425	79,250	175	203,393	24
25	9,421					1,596	96	485	1,015		6,215	5,849	366	29,921	25
23	11,375					1,433	288	800	345		18,977	18,358	619	42,390	26
61	28,900					1,294	994		300		24,975	24,900	75	76,190	27
24	7,276					5,133	2,350	211	922	1,650	18,240	18,175	65	46,700	28
7	3,650	21	3,808			3,990	1,190	500	2,300		70,695	70,350	345	123,166	29
12	7,382	8	2,596			4,872	3,150	499	1,223		10,420	10,159	261	48,608	30
43	12,992					1,542	270	152	810	310	12,754	12,754		35,325	31
136	55,006					11,398	4,542	479	4,877	1,500	112,690	111,904	786	233,367	32
287	162,767	73	21,069	11	2,458	34,893	8,148	4,267	21,882	596	224,391	219,915	4,476	618,439	33
234	144,482	120	39,131	6	928	203,408	7,141	4,454	114,575	77,238	196,830	186,401	10,429	1,014,374	34
36	10,145					2,012	1,430	39	543		22,981	22,774	207	48,598	35
152	55,422	7	1,448	16	1,800	14,265	6,592	1,185	6,448	40	282,794	280,442	2,352	451,943	36
		29	6,804			4,222	1,750	315	337	1,820	12,262	11,950	312	40,700	37
77	30,560	20	5,000			7,078		1,940	5,138		225,124	222,992	2,132	287,920	38
69	36,605			4	410	4,217	1,974	249	1,994		44,208	43,807	401	112,163	39
50	15,593	53	11,372	1	300	110,683	780	990	108,913		102,014	99,244	2,770	357,245	40
18	8,178			4	618	5,349	1,070	49	4,230		16,306	16,212	94	43,764	41
37	8,496	1	108	2	240	2,750	1,920	75	755		17,547	17,442	105	40,409	42
20	16,541					4,084	1,980	34	170	1,900	5,708	5,539	164	36,520	43
1,914	710,715	757	139,612	291	31,312	453,048	14,125	47,394	364,715	26,814	2,352,369	2,288,251	64,118	4,448,220	44

goods, 2; ink, writing, 1; ironwork, architectural and ornamental, 1; liquors, malt, 1; looking-glass and picture frames, 1; marble and stone work, 1; models and patterns, 1; oil, cottonseed and cake, 1; paints, 1; paper goods, not elsewhere specified, 1; paving and paving materials, 2; photolithographing and photoengraving, 2; pottery, terra cotta, and fire-clay products, 1; sewing machine repairing, 2; show cases, 1; stationery goods, not elsewhere specified, 1; stencils and brands, 1; surgical appliances, 1; upholstering materials, 1; wirework, including wire rope and cable, 1; woolen goods, 1.

TOWNS UNDER 20,000 IN POPULATION: 1900.

5,851	$1,874,528	797	$155,993	379	$42,639	$781,146	$65,528	$46,973	$644,463	$24,182	$8,442,609	$7,650,761	$791,848	$14,040,951	1
394	119,241	71	13,428	46	6,229	109,020	6,808	2,367	99,781	64	533,743	527,686	6,057	988,073	2
51	13,795	6	1,354	2	91	10,711	2,274	403	1,089	6,945	68,338	66,159	2,179	128,432	3
697	215,311	136	23,906	79	7,985	257,310	22,665	6,439	222,306	5,900	1,698,720	1,627,535	71,185	2,765,876	4
185	52,804	218	38,849	50	6,000	15,832	1,181	1,146	6,355	7,150	267,301	262,498	4,803	464,412	5
502	171,561	108	22,906	38	4,169	43,985	7,567	3,806	30,389	2,223	775,165	761,923	13,242	1,221,168	6
600	133,230	2	320	4	480	20,272	819	2,144	17,309		952,783	624,983	327,800	1,332,591	7
225	81,429	4	1,260	4	675	27,198	2,788	2,791	21,619		397,782	390,823	6,959	638,926	8
295	83,140	9	1,504	21	2,587	14,408	1,322	1,789	11,297		449,311	433,152	16,159	615,441	9
184	51,218	2	225	2	150	13,290	1,315	1,320	10,655		142,616	140,103	2,513	267,411	10
1,074	438,600	125	27,970	6	770	75,371	9,472	8,014	57,785	100	847,514	825,746	21,768	1,894,149	11
494	115,805	8	1,475	47	4,054	29,383	3,806	6,795	16,982	1,800	607,688	555,479	52,209	1,046,537	12
646	199,859	12	2,220	20	3,209	130,725	1,658	6,465	122,602		736,211	485,635	250,576	1,188,616	13
363	147,586	46	11,820	60	6,240	16,761	1,225	1,550	13,986		582,121	571,515	10,606	930,849	14
141	50,949	50	8,756			16,880	2,628	1,944	12,308		383,316	377,524	5,792	558,470	15

Twelfth Census of the United States.

CENSUS BULLETIN.

No. 149. WASHINGTON, D. C. March 14, 1902.

METHODS AND RESULTS.

A DISCUSSION OF AREA AND POPULATION.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I have the honor to transmit herewith, for publication as a bulletin, the first portion of a special report on methods and results, the preparation of which was approved by you September 18, 1900. In recommending that such a report be authorized, I wrote in my letter of September 15, 1900:

"The exact scope of such a report as is here recommended can not be fully stated in advance. It would depend in part upon the extent to which the work of interpretation was carried by each chief statistician. The aim would be to make international comparisons in those cases where they were safe and enlightening, to carry on the discussions of the several topics from the points where they had been left by the writers of the main Census Reports, to bring into connection, where that had not already been done, the results stated in the separate reports, and to present the whole from a fresh standpoint and with those differences of treatment naturally resulting from a different authorship. * * * In method of treatment such a special report would differ from the Census Reports proper in proceeding topically rather than according to the development of the tables. The discussions in the census volumes have been, and, I believe, must be in large measure limited to an effort to point out the meaning of the single table or group of tables then reached and under examination. Important additional results, however, are often secured when all the tables relating to one subject are brought together and a study made of all published census statistics relating to that one topic."

The material for this part of the report has been derived from Census Bulletin No. 57, prepared by the geographer's division; from the first volume of the Twelfth Census, prepared by the population division; from printed documents of the War Department, the Coast and Geodetic Survey, and the Land Office; and from manuscript information kindly furnished by the Navy Department, the Coast and Geodetic Survey, and the statistician to the Philippine Commission. These official sources of information have been supplemented in two instances by figures for other countries derived from standard foreign authorities.

For constant advice and suggestion in the preparation of this report the division is greatly indebted to Mr. Henry Gannett, geographer of the census.

The main results of the discussion in this bulletin may be stated briefly as follows:

1. The total area of the United States, June 1, 1900, may be divided for convenience of statistical treatment into continental United States and the outlying districts, the latter including Alaska and the recent insular accessions of Hawaii, Porto Rico, the Philippine Islands, Guam, and Samoa.

2. The area of the United States, June 1, 1900, was 3,690,822 square miles, about one-fourteenth the land surface of the earth.

3. Only three countries, the British Empire, the Russian Empire, and the Chinese Empire, have unquestionably a greater area than the United States. Whether the same is true of France, depends upon the extent of territory in North Africa assigned to that country.

4. The 5 main geographic divisions of continental United States adopted by the Tenth Census—North Atlantic, South Atlantic, North Central, South Central, and Western—have been subdivided, as then suggested, into 11 groups of states and territories.

5. The country has been divided also into 19 topographic divisions, the boundary lines of which have been

made to coincide with county boundaries. These divisions differ one from another in physical characteristics. Whether their inhabitants differ in characteristics measured by the census, such as race or occupation, is one of the points which this report will seek to determine.

6. The total population of the United States, June 1, 1900, was 84,233,069, with a margin of error of perhaps 1,000,000, owing mainly to uncertainty regarding the number of inhabitants in the Philippine Islands.

7. Only three countries, the Chinese Empire, the British Empire, and the Russian Empire, have unquestionably a greater population than the United States. Whether France has, with its various possessions, is uncertain.

8. The North, as defined by the census, has about the same area as the South and about twice the population.

9. The average population of a state or territory in the Atlantic and Central divisions is about five times the average population of a state or territory in the Western division.

10. Fifteen-sixteenths of the population of continental United States is east of a line which almost bisects the area, namely, the eastern boundary of the Great Plains.

11. The most usual or the typical area of a county is from 400 to 650 square miles, the most usual population is from 16,000 to 18,000—these figures differing widely from those of the average area and population.

12. In continental United States two-fifths of the population live in places having at least 2,500 inhabitants, and three-fifths in the remainder of the country. In the North Atlantic division the former class is more than two-thirds of the total population, in the North Central and Western divisions more than one-third, and in the South more than one-sixth.

Yours respectfully,

Walter F. Willcox

Chief Statistician for Methods and Results.

A DISCUSSION OF AREA AND POPULATION.

DISCUSSION OF AREA.

Meaning of United States, Area of Enumeration, Continental United States.—The Twelfth Census was the first in American history at which important new territory had been added to the United States between the enactment and the execution of the census law. The law[1] was passed March 3, 1899. Under its terms the census extended over the whole area of the United States as it stood at that date, namely, all on the mainland of North America and Hawaii. But before June, 1900, when the field work was done, the boundaries of the country were widened by the treaty between the United States and Spain,[2] adding the Philippine Islands, Porto Rico, and Guam; and the convention between the United States, Germany, and Great Britain,[3] adding "the island of Tutuila and all other islands of the Samoan group east of longitude 171° west of Greenwich." Under these conditions the phrase, "the United States," had a different meaning, March 3, 1899, from its meaning in June, 1900, and it becomes important to distinguish the two. As the present census is supposed to set forth conditions as they stood, June 1, 1900, the phrase, "the United States," will be used in this report to indicate the total area of the country on that date. To designate the area of the country, March 3, 1899, the phrase, "area of enumeration," will be employed. But both the United States and the area of enumeration fall naturally, for statistical purposes, into two parts, that part lying on the mainland of North America south of 50° north latitude, and the remainder. The former will be termed in this report, continental United States, the latter, the outlying districts. Alaska is strictly both outlying and continental, but the important statistical differences between it and the rest of continental United States have turned the balance in favor of classing it with the outlying districts. These districts—namely, Alaska, Guam, Hawaii, the Philippine Islands, Porto Rico, and Samoa—differ widely one from another and from continental United States in location and climate, and in history, language, and religion; in fact, in nearly all the diverse elements of civilization. In comparison with their populations that of continental United States is homogeneous in history, language, traditions, and social customs. Even the physical surroundings and race characteristics of the people of continental United States are much less diverse than those of the people of the outlying districts. For these reasons the difference between continental United States and the outlying districts will be emphasized, and little attention paid to the United States as a whole, for which there is almost no trustworthy statistical information, or to the area of enumeration, which includes two of the outlying districts. The statistical information presented regarding continental United States will be supplemented by similar information regarding the outlying districts, as far as such information is available.

Meaning of Area.—To grasp the full meaning of census figures regarding area, it is necessary to understand the somewhat technical definition of that term, and the way in which area is measured. Area means, not the number of square miles or other units of surface actually open to the air, but the number that would be open if the surface measured were smooth and even, and lay at the level of the sea. It is not affected by the presence of ranges of mountains or by the mean elevation of the region. When Mr. Kipling describes a kingdom in the Himalayas which was "four miles square, but most of the miles stood on end, owing to the nature of the country," he was writing popularly rather than by the card.

To measure the area of any large part of the earth's surface, such as a country, recourse is had to what is known to special students as the geoid, that is, an assumed mathematical body of the same shape and dimensions as those of the earth measured to the mean level of the ocean, and of a smooth or regular surface. The area of a square degree, or of that portion included between any adjacent parallels and meridians, on the surface of such a body may be computed with great accuracy by the aid of a mathematical formula.[4] In this way the area of each square degree lying entirely within a country may be obtained. The parts of degrees along the border are measured by aid of a planimeter. The sum of these square degrees and parts gives the total area of the country.

The area of the United States might be defined as all that part of the earth's surface over which the United States has jurisdiction. But the line over the ocean, delimiting the jurisdiction of the United States from the high seas, is one that can not be accurately defined, and therefore the area included between that line and the shore can not be measured. No authority attempts to determine the area of the United States to its jurisdictional

[1] 30 Stat. L. 1014.
[2] Proclaimed April 11, 1899. 30 Stat. L. 1754.
[3] Proclaimed February 16, 1900. 31 Stat. L. 1878.

[4] The formula used both by the Census Office and by the Land Office was "Area $= \frac{P}{90}$ (M′ — M) NRm sin $\frac{1}{2}$ (L′ — L) cos $\frac{1}{2}$ (L′ + L), in which M′ and M are the longitudes of the limiting meridians, M′ — M being in degrees or fractions of a degree; N is the normal to the middle latitude in miles; R the radius of curvature of the meridian at the middle latitude in miles; L′ and L the limiting latitudes; and $m = 1.004285$. The resulting area is in square miles." The formula was derived by F. De Y. Carpenter, and is discussed by him in an article on "The Area of the Square Degree" in Van Nostrand's Engineering Magazine, Vol. 23, page 457, f. (Dec. 1880). See also Tenth Census, Extra Census Bulletin, "The Areas of the United States," by Henry Gannett.

limit on the side of the high seas. The area of a country bordering on the ocean means either the land surface and internal waters, or that area plus a certain part of the adjacent waters over which the country has jurisdiction. For statistical purposes the former is the only sound definition, because only the land surface is defined by natural boundaries, thus excluding the uncertain factor of personal judgment. The area of the United States, then, may be defined as the amount of land surface and internal waters subject to its jurisdiction, or, more accurately, as the area of the land and water included within the boundary where it runs over land or along narrow water courses which accurately fix its location, and within the water line, or line of mean high tide, where the jurisdictional boundary runs over large bodies of water.

The United States.—Two measurements of the area of continental United States have been made and are still in use by different branches of the Government. One was made by the Census Office in 1881, and accepted with slight changes by the Eleventh and Twelfth censuses.[1] The other was made by the General Land Office in 1898.[2] According to the Census Office measurement, the land surface of continental United States is 2,970,230 square miles; according to the Land Office measurement, it is 2,972,584 square miles. The difference between the two results is 2,354 square miles, or less than one-tenth of 1 per cent. This shows the closeness with which results of independent measurements may agree when the boundaries in question have been accurately surveyed and mapped, and is an indication of the probable error of the maps used, or of either measurement. It is doubtful whether any census measurement, except, perhaps, certain ratios such as those of males to females, attains a higher degree of accuracy. But the Census Office states the water surface of continental United States as 55,370 square miles, while the Land Office states it as 120,095 square miles. The wide difference is witness merely, or mainly, to a difference between the two authorities regarding what should be measured. Long Island Sound, Nantucket Sound, and the American portion of the Great Lakes are excluded by the Census Office but included by the Land Office. This difference of judgment accounts almost entirely for the difference in result.

The foregoing figures, it will be noticed, are for the area of continental United States. To find the total area of the United States as it stood June 1, 1900, the area of the outlying districts must be added. These have not yet been surveyed and mapped so accurately as to warrant division of their gross area into land surface and water surface and exclusion of the latter. No measurement of the area of the outlying districts has been published heretofore by the Census Office, except for the two lying within the area of enumeration. The areas of Guam and Samoa contained in the following table have been measured in the Census Office for this report; for the Philippine Islands and Porto Rico the measurements made by the Coast and Geodetic Survey have been accepted as most trustworthy.

TABLE 1.—AREA OF THE UNITED STATES: 1900.

DIVISION.	AREA IN SQUARE MILES ACCORDING TO—	
	Census Office.	Land Office.[1]
The United States	3,690,822	3,726,500
Continental United States[2]	[3] 2,970,230	2,972,584
Alaska[4]	[5] 590,884	599,446
Hawaii[4]	[6] 6,449	6,740
Philippine Islands[4]	[6] 119,542	143,000
Porto Rico[4]	[7] 3,435	3,600
Guam[4]	[8] 201	175
Samoa[4]	[8] 81	73
Isle of Pines[4]		882

[1] Department of the Interior, General Land Office, Annual Report, 1900, page 280.
[2] Land surface only.
[3] This area is somewhat greater than that given in earlier publications. The difference is due to receipt of information that Lake Tulare in California, formerly assigned an area of 192 square miles, was dry at the date of the Twelfth Census.
[4] Land and water surface.
[5] Twelfth Census, Vol. I, page xxxii, Table XI.
[6] Following measurement of Coast and Geodetic Survey in Atlas of the Philippine Islands, 1901, page 4.
[7] Following unpublished measurement of Coast and Geodetic Survey, reported to Census Office under date of January 18, 1902, and giving provisional results from the survey of the coast line now in progress.
[8] Measured in Census Office from Hydrographic Office Charts, No. 87 and No. 1748.

The area of the United States, therefore, is more than three and two-thirds million square miles, or about one-fourteenth of the entire land surface of the earth. Its extent may be better appreciated on comparing it with other countries of great size. As many of them include much unsurveyed and ill-defined territory in Africa, Asia, or South America, the total area can seldom, if ever, be stated with accuracy—a fact that explains the wide divergencies between the two authorities quoted in the following table.[3] It includes all countries assigned, by either authority, more than 1,000,000 square miles of land surface. The countries are arranged in order of size, as given in the English work.

TABLE 2.—AREA OF COUNTRIES HAVING OVER 1,000,000 SQUARE MILES.

COUNTRY.	AREA IN SQUARE MILES ACCORDING TO—	
	Statesman's Yearbook, 1901.	Huebner's Geographisch-Statistische Tabellen, 1901.
British Empire	11,288,277	10,869,286
Russian Empire	8,644,100	8,552,815
Chinese Empire	4,234,910	4,277,771
France	3,944,092	2,573,454
United States	3,662,813	3,786,744
Brazil	3,218,180	3,228,445
Ottoman Empire	1,580,000	2,302,198
German Empire	1,235,950	1,234,753
Argentina	1,118,849	1,114,182
Egypt	(1)	1,142,387
Total	38,922,121	39,082,035

[1] Included in the Ottoman Empire.

[1] Tenth Census, Extra Census Bulletin, "The Areas of the United States," by Henry Gannett. Eleventh Census, Report on Population, Part I, page xxxiv, and Bulletin No. 23. Twelfth Census, Vol. I, page xxxii, and Bulletin No. 57.

[2] Department of the Interior, General Land Office, Annual Report, 1899, page 289. Annual Report, 1900, page 280.

[3] In presenting these or other figures regarding foreign countries, the best secondary authorities have been followed, with no attempt to verify their statements, but two or more authorities are sometimes cited in order to indicate the variation between them and so the probable error of their results.

These countries include between two-thirds and three-fourths of the entire land surface of the earth. The table shows that three of them, the British Empire, the Russian Empire, and the Chinese Empire are larger than the United States. The two authorities differ regarding the comparative size of France and this country, the Yearbook making the former slightly larger and the Tabellen making it decidedly smaller. The difference is due mainly to the fact that the Yearbook includes among the possessions of France 1,684,000 square miles in the Sahara region of Africa, not so included in the Tabellen. A similar difference exists regarding the area of the United States. Both foreign works class Cuba with the Isle of Pines as an American dependency, the General Land Office so classes only the Isle of Pines, and the Census Office neither. The Statesman's Yearbook gives the area of Alaska as 531,000 square miles, which was the figure published by the Eleventh Census. The more recent measurement published by the Twelfth Census increases the area by nearly 60,000 square miles. For the Philippine Islands, also, the measurement given in the first column of Table 1 is more than 5,000 square miles greater than the area assigned them by either of the foreign authorities.

Main Geographic Divisions.—Continental United States is too great to be treated as a unit; the states and territories too numerous and too diverse in size, population, and characteristics to meet all the requirements of statistics. This fact was recognized by the census twenty years ago, and a plan for grouping the states and territories into five main divisions: North Atlantic, South Atlantic, North Central, South Central, and Western, reported in 1881 by the geographer of the census, Mr. Henry Gannett, was adopted[1] and has been used ever since. The sketch map of continental United States given on page 6 shows the boundaries of these five divisions.

As the bulletin giving the reasons for this classification never was included in the census volumes, and is now out of print and difficult to find, its explanation is quoted at length. All statements of fact in the quotation refer to the conditions shown in 1880 by the Tenth Census.

"As will be noticed, the country is divided primarily into three great divisions: the Atlantic region, the region of the Great Valley, and the Western or Cordilleran region, corresponding to the three primary topographical divisions of the country. Each of the two eastern divisions is divided by a line approximately east and west. This line between the two sections of the Atlantic division follows Mason and Dixon's line; that between the two sections of the Great Valley follows the Ohio River and the south boundary of Missouri.

"This east and west line separates districts that are very sharply distinguished from one another by population, social conditions, and interests, as well as climate. The different conditions of rainfall and temperature upon the two sides of this line are too well known to require explanation.

"From a historical point of view the divisions are characteristically different. The two Atlantic sections comprise the original thirteen states, with those formed from them, namely, Maine, Vermont, and West Virginia, with the single addition of Florida. They were settled during the colonial period, and may be said to represent that stage of our progress. The two divisions of the Great Valley have been settled almost entirely since the country became independent of Great Britain, and may properly be regarded as representing the stage of our progress from the time of our independence up to the present day; while the West is still, as far as development is concerned, in its infancy, and may properly represent the development of the future.

"The North Atlantic and Northern Central sections are sharply distinguished from the two southern sections by the character of the population. The two former contain not less than 85.8 per cent of the foreign population, while, on the other hand, the two latter contain 90.5 per cent of the negro element.

"In regard to material interests, similar marked differences exist. The North Atlantic section comprises, as its primary interest, a large proportion of the manufactures of the country. The Northern Central section, although also comprising a considerable portion of the manufactures, especially in its eastern part, still is dependent upon agriculture as its primary interest; and, among the various branches of agriculture, mainly upon the culture of cereals, not less than 71 per cent of the cereals of the country being produced in this section. The two southern sections are almost purely agricultural, and of the various branches of agriculture 99.6 per cent of the cotton and all the sugar cane and rice produced in the country are grown here. In the distribution of urban and rural population similar marked differences are to be observed. In the North Atlantic section the urban population forms a very large and powerful class, and evidently soon will be the governing element. In the Northern Central section, while the urban population still forms a considerable proportion, it is by no means a controlling element; and in the two southern sections the controlling interests are almost entirely those of the rural population. Out of a total number of 580 cities and towns of 4,000 population and over in the United States, comprising 12,936,110 population, 266, comprising 6,960,776 population, are found in the North Atlantic section, and 213, comprising 3,663,843 population, in the Northern Central section, while in the two southern sections combined there are but 78 cities and towns, comprising only 1,825,832 population.

"In respect to civil organization, there are also very decided differences between the two northern and the two southern sections. In the two northern sections the township system of government obtains, with the exception of the state of Nebraska and a few counties in southern Illinois, while in the two southern sections, without an exception, the county system of government is the one in use. The Western section is distinguished from the others by its topography, comprising as it does the great western plateau, with the accompanying arid climate, light rainfall, and great extremes of temperature; by its present sparse settlement; and by the occupations of the inhabitants, which are mainly confined to mining and stock raising."

The area of these five main divisions of continental United States, and the per cent that each makes of the total, are stated in Table 3.

TABLE 3.—AREA OF THE MAIN GEOGRAPHIC DIVISIONS OF CONTINENTAL UNITED STATES: 1900.

DIVISION.	Land surface in square miles.	Per cent of total.
Continental United States	2,970,230	100.0
North Atlantic	162,103	5.5
South Atlantic	268,620	9.0
North Central	753,550	25.4
South Central	610,215	20.5
Western	1,175,742	39.6

The table shows that the Western division includes nearly two-fifths, the North Central about one-fourth, the

[1] Tenth Census Bulletin No. 277.

South Central about one-fifth, the South Atlantic about one-tenth, and the North Atlantic about one-twentieth of the area of continental United States. By combining the two Atlantic and the two central groups three divisions are obtained, which correspond about as closely as state lines admit to the great topographic divisions, namely, Atlantic, Central or Mississippi Valley, and Western or Cordilleran. The area of each and its proportion of the total are stated in Table 4.

TABLE 4.—AREA OF THE GREAT TOPOGRAPHIC DIVISIONS OF CONTINENTAL UNITED STATES: 1900.

DIVISION.	Land surface in square miles.	Per cent of total.
Continental United States	2,970,230	100.0
Atlantic	430,723	14.5
Central	1,363,765	45.9
Western	1,175,742	39.6

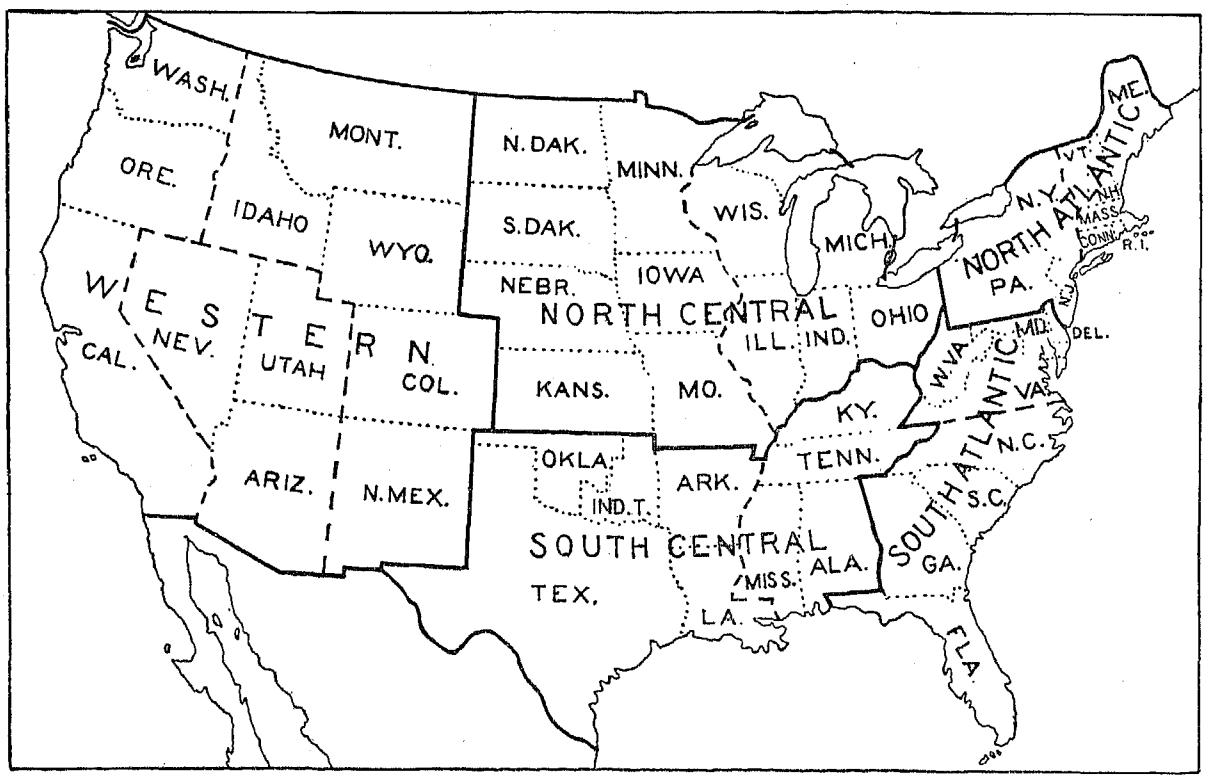
The Atlantic group is about one-seventh, the Central group about four-ninths, and the Western group about two-fifths of the area of continental United States.

From Table 3, by combining the two northern and the two southern groups, one obtains the area of the two sections, the antagonism between which was a conspicuous feature of American history during the nineteenth century. The Northern states have a land surface of 915,653 square miles, the Southern of 878,835, the former exceeding the latter by 4.2 per cent. Together they embrace at present rather less than half the area of the United States, including the outlying districts.

Minor Geographic Divisions.—Bulletin No. 277 of the Tenth Census, already quoted, closes with the following paragraph:

"This scheme is susceptible of still further subdivision, as may be required for various purposes. New England will undoubtedly remain a distinct subdivision, while at the same time regarded as a portion of the North Atlantic section. The Northern and Southern Central divisions might properly be separated along the line of the Mississippi River. On some accounts a subdivision of the West is advisable, separating it, perhaps, into what might be denominated the Rocky Mountain region, the Plateau region, the Great Basin region, and the region of the Pacific."

For the present report the foregoing suggestion has been adopted, and after conference with the geographer the five main divisions of continental United States have been subdivided into 11 minor divisions by breaking the Atlantic and Central divisions each into two and the Western division into three. The map on this page shows by broken lines the boundaries of the minor divisions where they do



not coincide with those of the major divisions, as along the Mississippi River from Minnesota to Louisiana, or at the western boundary of New England. In most cases the minor division has been so named as to indicate the larger division of which it forms a part. The states falling into each division, main and minor, appear in the following list.

Main and Minor Geographic Divisions of Continental United States, with States and Territories included in each.

NORTH ATLANTIC DIVISION.

New England.
- Maine.
- New Hampshire.
- Vermont.
- Massachusetts.
- Rhode Island.
- Connecticut.

Southern North Atlantic.
- New York.
- New Jersey.
- Pennsylvania.

SOUTH ATLANTIC DIVISION.

Northern South Atlantic.
- Delaware.
- Maryland.
- District of Columbia.
- Virginia.
- West Virginia.

Southern South Atlantic.
- North Carolina.
- South Carolina.
- Georgia.
- Florida.

NORTH CENTRAL DIVISION.

Eastern North Central.
- Ohio.
- Indiana.
- Illinois.
- Michigan.
- Wisconsin.

Western North Central.
- Minnesota.
- Iowa.
- Missouri.
- North Dakota.
- South Dakota.
- Nebraska.
- Kansas.

SOUTH CENTRAL DIVISION.

Eastern South Central.
- Kentucky.
- Tennessee.
- Alabama.
- Mississippi.

Western South Central.
- Louisiana.
- Arkansas.
- Indian Territory.
- Oklahoma.
- Texas.

WESTERN DIVISION.

Rocky Mountain.
- Montana.
- Idaho.
- Wyoming.
- Colorado.
- New Mexico.

Basin and Plateau.
- Arizona.
- Utah.
- Nevada.

Pacific.
- Washington.
- Oregon.
- California.

The area of these minor divisions, and the per cent that each makes of the total for continental United States, are stated in Table 5.

TABLE 5.—AREA OF THE MINOR GEOGRAPHIC DIVISIONS OF CONTINENTAL UNITED STATES: 1900.

DIVISION.	Land surface in square miles.	Per cent of total.
Continental United States	2,970,230	100.0
New England	61,973	2.1
Southern North Atlantic	100,130	3.4
Northern South Atlantic	76,650	2.6
Southern South Atlantic	191,970	6.5
Eastern North Central	244,550	8.2
Western North Central	509,000	17.1
Eastern South Central	179,630	6.0
Western South Central	430,585	14.5
Rocky Mountain	553,280	18.6
Basin and Plateau	304,850	10.3
Pacific	317,612	10.7

Of these eleven groups, New England is the smallest, containing about one-fiftieth, and the Rocky Mountain group the largest, containing one-sixth, of the whole. Of the 6 divisions lying east of the Mississippi every one contains less, and of the 5 divisions lying west of the Mississippi every one contains more, than one-tenth of continental United States. From the table it appears that the divisions between the Mississippi River and the Atlantic Ocean have 854,903 square miles of land surface, and the divisions between the Mississippi River and the Pacific Ocean have 2,115,327 square miles of land surface. The former is nearly three-tenths (28.8 per cent) and the latter is seven-tenths (71.2 per cent) of continental United States.

States and Territories.—Continental United States includes, as primary political subdivisions, 45 states, 4 territories, and 1 district. In order to have a brief phrase under which to embrace these divisions and also the several outlying districts, "states and territories" or "state or territory" will at times be applied to them collectively, although neither word, in its narrowest meaning, was applicable to the District of Columbia, Indian Territory, or any of the outlying districts at the date of the Twelfth Census.

In Table 6 the land surface of each state and territory in continental United States is given and the gross area of each outlying district, the states and territories being arranged in order of size from Alaska to the District of Columbia.

TABLE 6.—AREA OF STATES AND TERRITORIES, ARRANGED IN ORDER OF SIZE: 1900.[1]

STATE OR TERRITORY.	Area in square miles.	STATE OR TERRITORY.	Area in square miles.
The United States	3,690,822	Alabama	51,540
		North Carolina	48,580
Alaska	[2] 590,884	New York	47,620
Texas	262,290	Mississippi	46,340
California	156,172	Louisiana	45,420
Montana	145,310		
New Mexico	122,460	Pennsylvania	44,985
		Tennessee	41,750
Philippine Islands	[2] 119,542	Ohio	40,760
Arizona	112,920	Virginia	40,125
Nevada	109,740	Kentucky	40,000
Colorado	103,645		
Wyoming	97,575	Oklahoma	38,830
		Indiana	35,910
Oregon	94,560	Indian Territory	31,000
Idaho	84,290	South Carolina	30,170
Utah	82,190	Maine	29,895
Kansas	81,700		
Minnesota	79,205	West Virginia	24,645
		Maryland	9,860
South Dakota	76,850	Vermont	9,135
Nebraska	76,840	New Hampshire	9,005
North Dakota	70,195	Massachusetts	8,040
Missouri	68,735		
		New Jersey	7,525
Washington	66,880	Hawaii	[2] 6,449
Georgia	58,980	Connecticut	4,845
Michigan	57,430	Porto Rico	[2] 3,435
Illinois	56,000	Delaware	1,960
Iowa	55,475	Rhode Island	1,053
Wisconsin	54,450	Guam	[2] 201
Florida	54,240	Samoa	[2] 81
Arkansas	53,045	District of Columbia	60

[1] For a similar table with alphabetical arrangement see Twelfth Census, Vol. I, page xxxii.
[2] Gross area.

The average area of these 56 states and territories is 65,908 square miles. There are 20 larger and 36 smaller than the average. Perhaps the most noticeable break in the series is found between West Virginia and Maryland.

There is no other point, except near the upper and lower limits, where a state or territory is more than double the area of the one next below it in size. Accordingly, the 56 states and territories fall naturally into three groups—20 large, comprising all above the average and all above 60,000 square miles; 13 small, comprising all with less than 10,000 square miles; and 23 of medium size, comprising those with an area of from 24,000 to 60,000 square miles.

The 13 small states and territories are either divisions close to the Atlantic coast north of the Potomac River, or islands; the 23 of medium size lie between the Atlantic Ocean and the Mississippi River, or not far west of that river; the 20 large, except two outlying districts, Alaska and the Philippine Islands, lie in continental United States west of the Mississippi. As population has spread across the continent, the political units formed have been of greater average extent. If the area of each great topographic division be divided by the number of states and territories it contains, the following results appear:

TABLE 7.—AVERAGE AREA OF A STATE OR TERRITORY IN THE GREAT TOPOGRAPHIC DIVISIONS OF CONTINENTAL UNITED STATES: 1900.

DIVISION.	Land surface in square miles.	Number of states and territories.	Average area of a state or territory.
Continental United States	2,970,230	50	59,405
Atlantic	430,723	18	23,929
Central	1,368,765	21	64,941
Western	1,175,742	11	106,886

The average area of a state or territory in the Central division is more than two and one-half times that on the Atlantic slope. The average area of a state or territory in the Western division is two-thirds greater than that in the Mississippi Valley, and the excess would be more marked were it not that the largest state in the country, Texas, lies in the Central division as defined by the Census, and raises the average size in that group by nearly 10,000 square miles. The larger area of the Central and Western states is further illustrated in Table 8.

TABLE 8.—AVERAGE AREA OF A STATE OR TERRITORY IN THE MINOR GEOGRAPHIC DIVISIONS OF CONTINENTAL UNITED STATES: 1900.

DIVISION.	Land surface in square miles.	Number of states and territories.	Average size of a state or territory.
Rocky Mountain	553,280	5	110,656
Pacific	317,612	3	105,871
Basin and Plateau	304,850	3	101,617
Western South Central	430,585	5	86,117
Western North Central	509,000	7	72,714
Eastern North Central	244,550	5	48,910
Southern South Atlantic	191,970	4	47,993
Eastern South Central	179,630	4	44,908
Southern North Atlantic	100,130	3	33,377
Northern South Atlantic	76,650	5	15,330
New England	61,973	6	10,329

In each of the three subdivisions of the Western group the average area of a state or territory is a little over 100,000 square miles. In the two central groups west of the Mississippi the average area is between 70,000 and 90,000 square miles. In the two central divisions east of the Mississippi, and also in the Southern South Atlantic, the average area of a state is between 40,000 and 50,000 square miles, while in New England the average area is but little more than 10,000 square miles.

The greater area of the Central and Western states may be connected with the larger scale on which the physical characteristics of the country in the Valley and Cordilleran regions are built, and with the rapid improvement in means of communication during the nineteenth century, whereby a single government over large areas has been facilitated. It also registers, probably, a gradual growth away from that idea of local autonomy for small areas which was common and natural under the conditions preceding the American Revolution.

Counties.—In continental United States each state or territory is organized into a number of political divisions called usually counties, but in Louisiana parishes, in Indian Territory nations, and in a few cases Indian reservations. There are a few independent cities of rank coordinate with counties. But as more than 95 per cent of these secondary political divisions are counties, this word will be used loosely to include them all.

The number of counties in continental United States, June 1, 1900, was 2,852.[1] But the areas of only 2,828 are given by the census.[2] The difference of 24 includes the 18 independent cities of Virginia, the area of which is not separately reported, and the 7 reservations in Indian Territory, which are given as a single area.

The counties of measured area range in size from Bristol county, Rhode Island, with 25 square miles, to Custer county, Montana, with 20,490 square miles, or more than New Hampshire and Vermont combined. The average area is 1,050 square miles, or almost exactly the size of Rhode Island. But this average is greatly raised by the existence in the sparsely settled districts of 128 counties each having an area of more than 4,000 square miles. To minimize the influence of these abnormally large counties, the median area of the counties may be found, that is, the area of a county of such a size that the number larger is equal to the number smaller. The median area is 615 square miles. The average area is greater than the median by 435 square miles, or 70.7 per cent.

The following table gives the number of counties in the United States within specified limits of size.

[1] This number differs from the 2,867 given in Twelfth Census, Vol. I, page xxxvii, Table XIV, in the following particulars: It omits 9 in the outlying districts of Alaska and Hawaii, and 7 Indian reservations, 4 in South Dakota and 1 in each of the 3 divisions, Arizona, Minnesota, and North Dakota. On the other hand it treats the District of Columbia as a county. The differences are due primarily to the fact that the present count is made from the point of view of political divisions, while that in the first volume of the Twelfth Census is made from the point of view of population.

[2] Twelfth Census, Vol. I, pages xxxviii-lvii, Table XV, and Bulletin No. 57.

TABLE 9.—NUMBER OF COUNTIES WITHIN SPECIFIED LIMITS OF SIZE: 1900.

LIMITS OF SIZE IN SQUARE MILES.	Number of counties within the limits.	LIMITS OF SIZE IN SQUARE MILES.	Number of counties within the limits.
0 to 50	5	700 to 750	139
50 to 100	16	750 to 800	85
100 to 150	23	800 to 850	93
150 to 200	54	850 to 900	111
200 to 250	72	900 to 950	82
250 to 300	98	950 to 1,000	73
300 to 350	107	1,000 to 1,050	54
350 to 400	158	1,050 to 1,100	46
400 to 450	240	1,100 to 1,150	42
450 to 500	165	1,150 to 1,200	27
500 to 550	184	1,200 and over	420
550 to 600	242		
600 to 650	168	Total	2,828
650 to 700	129		

The table shows that the most usual or the typical area of a county is 400 to 650 square miles. Each of the five groups within those limits embraces more counties than any of the other groups of equal range, and together they include 999, or over a third (35.3 per cent) of the counties in the United States. The table shows that several groups separated by 150 square miles are unusually large, a reason for which may be found in the methods of county survey and county organization in the United States.

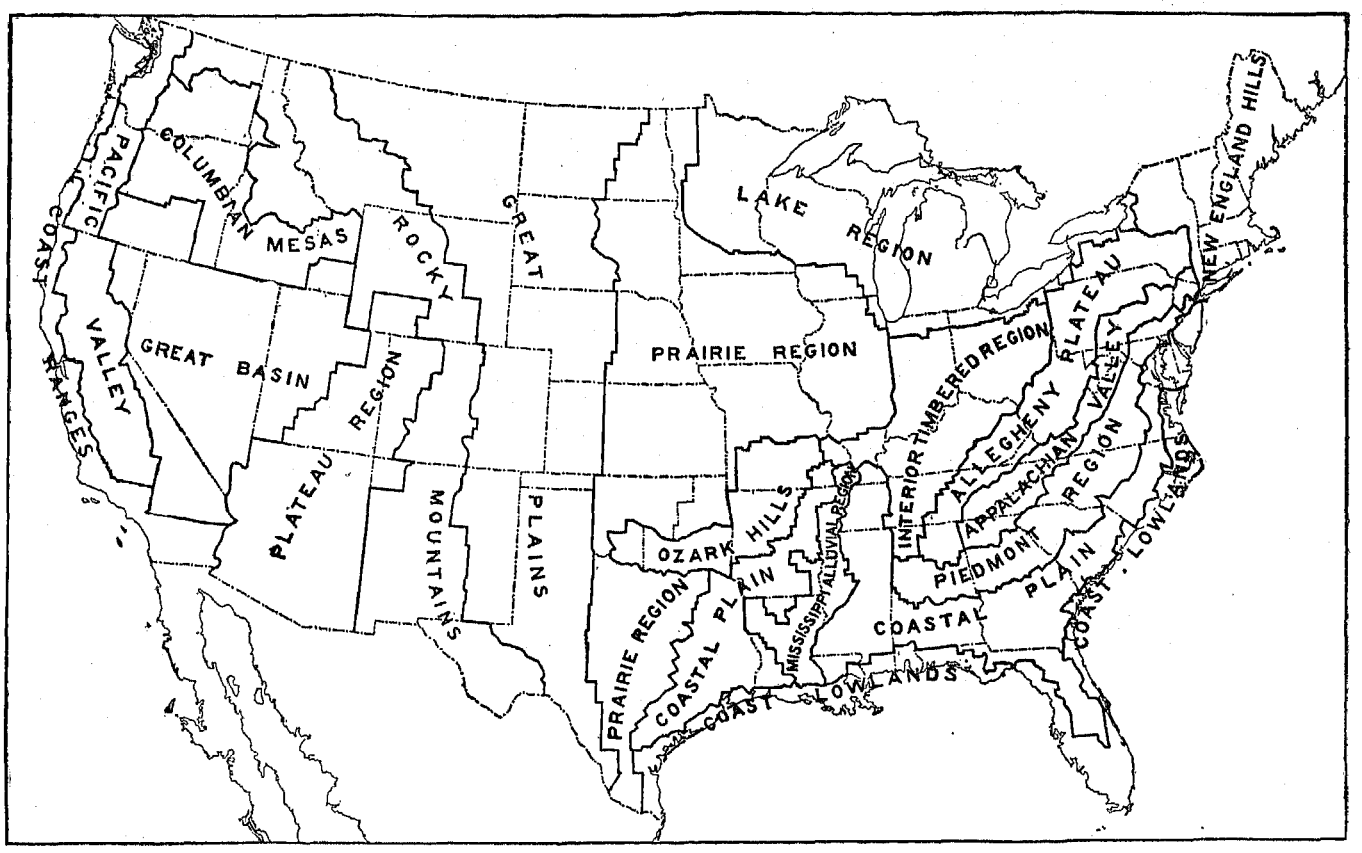
Topographic Divisions.—Continental United States is divided by geographers into regions each having somewhat uniform physiographic features. In some cases the dividing lines are clear and well recognized, and in places have industrial importance. A good illustration is the "Fall line" between the Piedmont region and the Coastal plain. At the intersections of this line with rivers, rapids or falls commonly occur, and many such points have become centers of population. This line probably exerted an influence upon the location of Philadelphia, Baltimore, Washington, Richmond, Augusta, and other cities. Usually, however, the several topographic divisions pass one into another by insensible gradations, making it impossible to fix accurately the dividing line. A number of different criteria must be applied, and their results are more or less diverse. The location of the line depends upon the balance of these results, and there can be no complete agreement regarding the weight to be assigned the several tests in the final decision. For these reasons geographers are not agreed regarding the number or the boundaries of the divisions. Under the circumstances any list must be somewhat arbitrary and tentative. Still, geographic differences exert a profound and continuous influence upon the people subject to them, and even in their present ill-defined condition furnish what is probably the best basis for a natural classification of the population of continental United States. The oldest and shortest list is that long ago adopted by the Census Office—Appalachian Mountain or Atlantic, Mississippi Valley or Central, and Rocky Mountain or Western (see Table 4, page 6). But each of these three divisions includes areas so diverse that they should not be grouped together.

In order that topographic divisions may subserve statistical purposes, the lines between them must coincide with the boundaries of areas for which statistics are given separately by the census. The smallest available area is the county. Accordingly the geographer of the Twelfth Census has sketched 19 topographic divisions of continental United States, and adjusted their boundaries to coincide with county lines. In making the division it was found desirable to consider geology, topography, altitude, rainfall, and temperature, and in many cases a result could be reached only by a compromise between opposing considerations, or where the indications were negative or indecisive by an arbitrary determination.

The 19 topographic divisions finally adopted were as follows:

1. New England hills.
2. Coast lowlands.
3. Coastal plain (east of the Mississippi River).
4. Piedmont region.
5. Appalachian valley.
6. Allegheny plateau.
7. Lake region.
8. Interior timbered region.
9. Mississippi alluvial region.
10. Prairie region.
11. Ozark hills.
12. Coastal plain (west of the Mississippi River).
13. Great plains.
14. Rocky Mountains.
15. Columbian mesas.
16. Great basin.
17. Plateau region.
18. Pacific valley.
19. Coast ranges.

The situation and boundaries of these regions are indicated on the sketch map on page 10, and Mr. Gannett



has prepared for this report the following description of their characteristic features:

Coast Lowlands.—This marshy area stretches along the Atlantic and Gulf coasts from New Jersey to the Rio Grande, with few breaks in its continuity. North of Virginia, however, it is narrow, and as the coast counties of New Jersey, Delaware, and Maryland stretch inland for considerable distances, the greater part of their area being beyond the swamps, it has been judged best not to represent this region north of the eastern shore of Virginia. South of this limit it extends inland for varying distances, in some places being narrow, in others, as in North Carolina and Louisiana, having a breadth of a hundred miles or more. Upon the Atlantic coast the surface of the swamps, although generally level, has sufficient slope for drainage, and accordingly as the land becomes valuable, the borders of the swamps are being drained and converted into farms. In the Carolinas a considerable area is utilized for rice plantations. In the main, the coast lowlands are well timbered, principally with cypress and juniper, among which is a luxuriant growth of cane.

Coastal Plain.—This comprises a strip of land lying along the Atlantic and the Gulf between the Coast lowlands and the Piedmont region. It stretches from New York Bay southwest nearly to the Mississippi River. There it turns northward to the Ohio River, partly girdling the Appalachian Mountain System. Westward it is divided by the Mississippi alluvial region, but reappears on the west side of the Mississippi, in the uplands of southern Missouri and Arkansas south of the Ozark hills, and in the timbered region of eastern Texas. The Coastal plain consists of soft tertiary rocks, has a level surface with little elevation above the sea, and either has, or had before the advent of the white man, a covering of pine forests. Being cut into two parts by the Mississippi alluvial region, it has been treated in the maps and tables as two topographic divisions.

Piedmont Region.—This division extends from New York Bay southwest to the western boundary of Alabama. It is bordered on the southeast by the Coastal plain, the limit between the two being set by the Fall line, where the streams, in passing off the hard granite rocks of the Piedmont region to the soft tertiary rocks of the Coastal plain, have rapids or falls, marking the limit of navigation from the sea.

The Piedmont region is underlain by metamorphic rocks, mainly granitic, and was originally covered with forests of mixed hardwood and conifers. The lower portion is comparatively level, being broken only by stream beds, but the higher portion is intersected by many ridges parallel to the Appalachian System, that is, running nearly northeast and southwest.

Appalachian Valley.—The name Appalachian is often given by geographers to the entire eastern mountain system of the country, but here it is applied to a narrow region extending from the Hudson to northeastern Alabama, and lying between the Piedmont region on the southeast and the Allegheny plateau on the northwest. This region has been greatly folded, faulted, and eroded, resulting in the formation of alternate and parallel, narrow, sinuous ridges and valleys; the former consisting of sandstone and quartzite, the latter of softer and more soluble

limestones. The eastern of these ridges, from Maryland southwest, is known as the Blue Ridge, and other ridges have received various names. Most of this region forms a depression known as the Appalachian Valley, drained in different parts by different streams; the Delaware, Susquehanna, Potomac, and James cross it flowing eastward; the New River, heading in western North Carolina, crosses it, flowing to the Ohio; and the Tennessee drains it throughout east Tennessee and southwest Virginia.

New England Hills.—This region is properly part of the Appalachian Mountain System, but is here distinguished on account of its difference in character. The mountains, instead of being disposed in parallel ridges, are mainly isolated, irregular groups, such as the hills of Maine, the White Mountains of New Hampshire, and the Adirondacks of New York, while the Green Mountains of Vermont and the Berkshire Hills of Massachusetts show some signs of a regular north and south trend.

This region was invaded by the ice sheet of the Laurentian glacier, traces of which are seen to-day in glacial deposits and lake basins, the latter occurring so frequently as to make this a characteristic lacustrine region.

Allegheny Plateau.—Rising from the northwestern border of the Appalachian Valley is an escarpment extending more or less continuously from the Hudson River southwestward to Alabama. From its summit stretches a plateau with a general northwestern slope, everywhere deeply scored into canyons by streams, whose general direction is that of the slope. These streams have cut the plateau into very irregular ridges and gorges, making it one of the most intricate mountain regions on the globe. The entire plateau is densely forested.

Interior Timbered Region.—West of this plateau, comprising most of Ohio, Indiana, southern Illinois, western Kentucky, and western central Tennessee, is a region possessing few distinctive characteristics beyond the fact that it is, or was when entered by the white man, pretty generally covered with forests.

Lake Region.—The country bordering the Great Lakes has been segregated under this name. It is a lacustrine region, heavily forested, mainly by conifers. Owing to the proximity of large bodies of water, this region has many of the characteristics of a coast climate, the atmosphere being moist, the winters abnormally warm, and the summers abnormally cool.

Prairie Region.—This is a region of transition from the forested country on the east to the barren plains on the west. On the east it merges by insensible degrees into the forest-clad regions, and on the west by equally insensible degrees into the Great Plains. As its rainfall is rather light, ranging between 20 and 30 inches a year, most species of trees can not thrive. Its surface is level or slightly undulating, and in its natural state is covered with luxuriant grasses. The natural growth of timber is sparse, and confined almost entirely to the bluffs and borders of streams, but with the protection afforded by man the growth of forests has increased, and now the region presents a landscape diversified by a tree growth the extent of which is constantly widening.

Mississippi Alluvial Region.—This region is characterized by the fact that its surface lies mainly below the high-water mark of the rivers traversing it. The rivers, by deposit, have built low, flat ridges along their courses, which, except in times of extraordinary floods, serve to confine them and protect the lower country. The only habitable parts are these river ridges, the lower country upon either hand consisting of swamps. Thus throughout this region the habitable portion of the land forms but a small part of it. These river ridges are well cultivated, in Louisiana mainly in sugar, while higher up on the rivers, almost the sole crop is cotton, which is here produced in great abundance and with an unusually long fiber, giving it a greater value than the cotton of the uplands. The soil is extremely fertile.

Ozark Hills.—The southern part of this region, the portion in central Arkansas and Indian Territory, is composed of crooked, winding, octopus-like ridges of quartzite, separated by limestone valleys. The northern portion, in northern Arkansas and southern Missouri, is a plateau, sloping gently northward, and deeply scored by stream canyons.

Great Plains.—Merging insensibly with the Prairie region are the Great Plains. The line of demarcation between them, although not capable of sharp distinction, has been set at the line of normal annual rainfall of 20 inches. These plains or plateaus extend westward to the foot of the Rocky Mountains, and from the Canadian to the Mexican border. They are without forests, and are sparsely covered with various species of bunch grass, changing in the more arid portions to sage brush, cactus, and yucca. The surface is a monotonous, billowy expanse, broken here and there by buttes and lines of cliffs.

Throughout this region the rainfall is insufficient for agriculture, and irrigation is necessary. The water in the streams can irrigate only a small part of the land. The plains are now occupied mainly by cattle and sheep.

Cordilleran Region.—The Great Plains form the long eastern slope of a plateau, the summit of which extends to the Cascade Range and the Sierra Nevada. It bears upon its slopes and summit a vast number of mountain ranges, great plateaus, and elevated valleys. At the head of the slope the elevation ranges from 2,000 feet above the sea level up to 8,000 feet or more. Except in the western part of Oregon and Washington the climate is arid, and irrigation is, as a rule, necessary for the production of crops. The rainfall is least in the southwest, particularly in south Nevada and southeast California, where it is almost entirely wanting. Forests are found, as a rule, only upon mountain ranges and the highest of the plateaus, the plains being treeless. This region has been subdivided into several areas.

Rocky Mountains.—This region includes the easternmost of the mountain systems in the Cordillera. It is composed of a series of ranges separated by valleys of differing

breadth, trending parallel to one another, a little west of north and east of south. It is naturally subdivided into two parts, the northern, including Montana, Idaho, and northern Wyoming, being separated from the southern by a broad belt of plateaus, 100 miles or more in width. The northern part ranges in altitude from 9,000 to 13,000 feet or more, rising from a base of 4,000 or 5,000 feet. In the southern part the base is much higher, rising in Colorado to 6,000 or 8,000 feet, while many of the ranges exceed 14,000 feet in altitude. Both the general level of the country and the mountain ranges diminish in altitude in New Mexico and Texas.

Plateau Region.—This region comprises most of the drainage basin of the Colorado River. It consists of great plateaus, whose surfaces are level or slightly inclined, and which terminate in great lines of cliffs, in some cases thousands of feet in height. From the mountains which border this area on the east and west, the plateaus descend by a succession of gigantic steps, from an elevation of 12,000 feet down to near sea level. Every stream is in a canyon, and as the rainfall is light and spasmodic, most of these canyons are dry during the greater part of the year. In some regions these canyons are so numerous as to have shredded the plateau to a mere skeleton, or the process of erosion may have gone even farther, so that the only remains of the plateau consist of buttes and mesas. The higher plateaus, having ample rainfall, are green and forested, while the lower plateaus are covered with sparse vegetation or are absolutely sterile.

Great Basin.—In the interior of the Cordilleran region is a large area which has no drainage to the sea. The only outlet for its waters is by sinking into the thirsty soil or by evaporation into the atmosphere. With the exception of the country along the lower Colorado and Gila rivers this is the most desert part of the United States. The rainfall is scanty, even upon the mountains; so scanty, indeed, that very few flowing streams originate within it. The surface is diversified by mountain ranges trending nearly north and south, separated by level valleys, floored with alluvium washed down from the mountains and deposited by the sinking of the streams. These ranges divide the basin into numerous minor basins, in each of which water collects and sinks. In the eastern part the largest of these basins is that occupied by Great Salt Lake, into which flow several small streams from the Wasatch Range. In the western part the principal basin is that of the Humboldt and Truckee rivers. The elevation of the floor of the basin ranges from 6,000 feet near its middle line to 200 feet below sea level in Death Valley in the western part.

Columbian Mesas.—The area drained by Snake River and most of that drained by the Columbia above its passage through the Cascade Range has been in great part covered by eruptions of basalt, which, bursting through the overlying rock, spread over the country, forming for many thousands of square miles great table lands.

Pacific Valley.—Lying parallel to the Pacific coast, a short distance inland, is a great depression extending from British Columbia southward into southern California. This depression is occupied in part by various streams and other bodies of water, Puget Sound in the north, Willamette River and other streams of Oregon, and in California by the Sacramento and its branch, the San Joaquin. The east boundary of this region is drawn upon the crest of the Cascade Range and the Sierra Nevada, partly because it is necessary in order to avoid dividing counties, and partly because the amount of settlement within the mountains is not sufficiently great to warrant the separation of these ranges as a distinct topographic feature.

Coast Ranges.—Separating this valley from the Pacific is a succession of ranges trending parallel with the coast. In Oregon, Washington, and northern California they are heavily timbered, but in southern California they are almost devoid of forests. The valleys among these ranges, especially in southern California, possess the highest degree of fertility, and produce a great variety of fruits, many of which are tropical in character.

Area of Topographic Divisions.—Table 10 shows the area of each of the foregoing topographic divisions.

TABLE 10.—AREA OF TOPOGRAPHIC DIVISIONS: 1900.

DIVISION.	Land surface in square miles.	Per cent of total.
Continental United States	2,970,230	100.0
New England hills	82,696	2.8
Coast lowlands	82,807	2.8
Coastal plain (east of Mississippi)	167,097	5.6
Piedmont region	89,920	3.0
Appalachian valley	54,519	1.8
Allegheny plateau	99,539	3.4
Lake region	173,302	5.8
Interior timbered region	118,326	4.0
Mississippi alluvial region	41,713	1.4
Prairie region	454,991	15.3
Ozark hills	62,195	2.1
Coastal plain (west of Mississippi)	87,726	3.0
Great plains	460,994	15.5
Rocky Mountains	296,220	10.0
Columbian mesas	112,525	3.8
Great basin	229,869	7.7
Plateau region	188,422	6.3
Pacific valley	106,549	3.6
Coast ranges	60,820	2.1

The Great Plains is the most extensive topographic division, followed closely by the Prairie region, the two together including nearly one-third (30.8 per cent) of continental United States. There are 5 other divisions each embracing over 5 per cent of the entire area of continental United States, and these 7 together include two-thirds (66.2 per cent) of it, leaving one-third for the remaining 12 divisions. The eastern boundary of the Great Plains about bisects the country, 1,455,399 square miles, or 49 per cent of the area of continental United States, lying in the 7 topographic divisions west of that north and south line, and 1,514,831 square miles, or 51 per cent, lying in the 12 east of it.

Table 11 shows the number of counties and the average area of a county in each topographic division. The divisions are arranged in the order of increasing size of counties.

TABLE 11.—NUMBER AND AVERAGE AREA OF COUNTIES IN TOPOGRAPHIC DIVISIONS: 1900.

DIVISION.	Number of counties.	Average area in square miles.
Continental United States	2,828	1,050
Interior timbered region	293	404
Appalachian valley	129	423
Piedmont region	189	476
Allegheny plateau	181	550
Coastal plain (east of Mississippi River)	278	601
Mississippi alluvial region	60	695
Prairie region	614	741
Lake region	223	777
Coastal plain (west of Mississippi River)	110	798
Coast lowlands	99	836
New England hills	91	909
Ozark hills	59	1,054
Pacific valley	57	1,869
Coast ranges	31	1,962
Great plains	227	2,081
Columbian mesas	37	3,041
Rocky Mountains	73	4,058
Great basin	45	5,108
Plateau region	32	5,888

The 7 topographic divisions west of the eastern boundary of the Great Plains have counties much above the average in area. Of the 12 topographic divisions east of that line all but the Ozark hills have counties below average size. Treating the halves of continental United States as units, the average area of a county in what may fairly be called the upland half is 2,899 square miles; in the eastern or lowland half it is 651 square miles.

It will be seen that the smallest average size of a county is found in the Interior timbered region, including most of Ohio, Indiana, and Kentucky. Next to these are the three upland regions between the Interior timbered belt and the Atlantic coastal plain. The largest average size of a county east of the Mississippi is found in the New England hills, a region where this unit has little historical or political importance. The size of a county in the Pacific Valley and Coast ranges is smaller than it is in the Great Plains, or any of the four regions lying between the plains and the Pacific coast.

It has already been shown that the Central and Western states are larger than the Eastern. This table shows that the same is in some degree, but not so uniformly, true of the counties.

Minor Civil Divisions.—The 2,852 counties into which continental United States is divided are themselves subdivided, with few exceptions, into political divisions, to which collectively the Census Office has given the name of minor civil divisions in contrast to the major civil divisions, namely, the states or territories and the counties. These minor civil divisions in the different parts of the country pass under different names, such as towns, townships, hundreds, beats, precincts, districts, or plantations, and have widely different powers and duties. To the Census Office they are territorial divisions, and their population is reported separately.[1] At the date of the Twelfth Census there were 39,391 minor civil divisions in continental United States. The area of these divisions has not been measured by the Census Office, but their average area can be computed. It is 69.3 square miles. If the states are arranged in order of average size of a minor civil division, it will be found that more than half of these 39,391 minor civil divisions lie in states in which the average size of a minor civil division is less than 45 square miles. It seems probable that more than half the minor civil divisions in the United States are less than 45 square miles in area. Table 12 shows the number and average area of these minor civil divisions in the several states and territories. The average areas have been found by making of the numbers of minor civil divisions in the following table a series of divisors, and of the land surfaces given in Table 6, diminished in a few cases by the area not returned by minor civil divisions, a series of dividends.

[1] Compare Twelfth Census, Vol. I, Table 5, pages 54–427.

TABLE 12.—NUMBER AND AVERAGE AREA OF MINOR CIVIL DIVISIONS: 1900.

STATE OR TERRITORY.	Number.	Average area in square miles.
Continental United States	39,391	69.3
North Atlantic division	5,467	29.7
New England	1,687	36.7
Maine	631	47.4
New Hampshire	245	36.8
Vermont	252	36.3
Massachusetts	353	22.8
Rhode Island	38	27.7
Connecticut	168	28.8
Southern North Atlantic	3,780	26.5
New York	974	48.9
New Jersey	424	17.7
Pennsylvania	2,382	18.9
South Atlantic division	4,575	58.7
Northern South Atlantic	1,107	69.2
Delaware	33	59.4
Maryland	272	36.3
District of Columbia	1	60.0
Virginia	458	87.6
West Virginia	343	71.9
South Atlantic division—Continued.		
Southern South Atlantic	3,468	55.4
North Carolina	958	50.7
South Carolina	434	69.5
Georgia	1,457	40.5
Florida	619	87.6
North Central division	17,381	42.1
Eastern North Central	6,602	37.0
Ohio	1,382	29.5
Indiana	1,016	35.3
Illinois	1,609	34.8
Michigan	1,288	44.6
Wisconsin	1,307	41.7
Western North Central	10,779	45.2
Minnesota	2,205	35.9
Iowa	1,654	33.5
Missouri	1,240	55.4
North Dakota	1,407	45.5
South Dakota	1,311	46.8
Nebraska	1,357	56.6
Kansas	1,605	50.9

TABLE 12.—NUMBER AND AVERAGE AREA OF MINOR CIVIL DIVISIONS: 1900—Continued.

STATE OR TERRITORY.	Number.	Average area in square miles.
South Central division	7,228	74.6
Eastern South Central	3,835	46.8
Kentucky	693	57.7
Tennessee	1,551	26.9
Alabama	1,216	42.4
Mississippi	375	123.6
Western South Central	3,393	106.1
Louisiana	455	99.8
Arkansas	1,246	42.6
Oklahoma	344	89.3
Texas	1,348	171.1
Western division	4,740	216.6
Rocky Mountain	2,106	245.6
Montana	271	413.8
Western division—Continued.		
Rocky Mountain—Continued.		
Idaho	361	233.5
Wyoming	225	420.7
Colorado	330	124.9
New Mexico	419	292.3
Basin and Plateau	526	364.9
Utah	348	236.2
Nevada	178	616.5
Pacific	2,108	150.7
Washington	872	76.7
Oregon	699	135.3
California	537	290.8

Table 12 shows that the average size of the minor civil division is least in New Jersey, Pennsylvania, the three southern New England states, and Tennessee. Next in order come five states of the North Central group. The Northern states as a rule have smaller minor civil divisions than those in the South and the densely settled states smaller than the sparsely settled. Exceptional states are New York, where the minor civil division averages larger than in any of the New England states, even Maine, and much larger than in the states to the south of it; Delaware, where the minor civil division is over three times its average area in New Jersey and Pennsylvania; Virginia, where the minor civil division averages much larger than in any other Atlantic coast state except Florida; Mississippi, where the minor civil division is about three times its area in any adjoining state except Louisiana; and Washington, where it averages much smaller than in any other state or territory of the Western division.

The minor civil divisions in each state and territory of the Western division except Arizona, where they have not been returned, are larger than the average for the country. The same is true of Virginia, West Virginia, South Carolina, Florida, Mississippi, Louisiana, Oklahoma, and Texas. The average area of these minor civil divisions depends in part upon whether the village, city, or borough is a direct subdivision of a county or a subdivision of a subdivision. For example, in New York villages are not direct subdivisions of counties, but rather subdivisions of towns from which they were carved out on receiving their charter; but in Pennsylvania and New Jersey boroughs having the same statistical significance are subdivisions of the counties in which they lie. This accounts in a measure for the fact that the minor civil division in New York is more than two and a half times as large as it is in Pennsylvania or New Jersey.

Increase of Area.—The gross area of the United States in 1790 and 1800 was 827,844 square miles.[1] In 1900 it was 3,746,192,[2] or four and one-half times as great.

[1] Twelfth Census, Vol. I, page xxxii, Table X.
[2] Table 1, page 4 of this bulletin, and Twelfth Census, Vol. I, page xxxii, Table XI.

DISCUSSION OF POPULATION.

Meaning of Population.—Population means the number of living persons. But that number is constantly being increased by births and decreased by deaths. To exclude these variations and make the word serviceable for census purposes, the definition must include reference to a certain date, which is called the census day. Population, as a census term, means the number of persons living on the census day. At the Twelfth Census of the United States each enumerator was instructed to obtain the required information "as of date June first," 1900; births and deaths occurring between June 1 and the time of the enumerator's visit were to be disregarded, and a return made of the persons living on that day, and of no others.[1] Some countries specify not merely the day but also the moment for which the census speaks,[2] a refinement which in view of the imperfections inseparable from all census work is of theoretical rather than of practical value.

If population means the number of persons living, the population of a country must mean the number of persons living in a country. "Living in" is naturally understood as residing in or inhabiting, and that is the meaning given the phrase by Congress and the Census Office. The population of the United States, therefore, means the number of persons whose usual place of abode, on the census day, is within the United States.

If any such persons are absent from the country when the census is taken, they are included. If persons whose usual place of abode is elsewhere are present in the country when the census is taken, they are excluded. The same is true of each enumeration district. The persons to be reported from it are not the persons found in it by the enumerator, but the persons whose usual place of abode is within it, whether they are in fact present or absent.

The Census Office does not define the phrase of the law, "usual place of abode."[3] In some cases it is difficult for the conscientious enumerator to decide where a person has his usual place of abode. A similar question is often a puzzle even to the courts, turning mainly upon a careful balance of probabilities regarding intent. Such considerations have led to an alternative definition of population for census purposes, as the people present in a country or a district on the census day, no matter where the usual place of abode may be.

In the census usage of the world, therefore, the word population has two main meanings—the number of persons present in a country at a fixed moment or day, and the number of persons resident in a country at a fixed moment or day. The former is called the *de facto* population, the latter the *de jure* population. In the census practice of the United States and Canada, population means *de jure* population; in the practice of most other countries it means *de facto* population.

Area of Enumeration.—The population of the area of enumeration, June 1, 1900, according to the Twelfth Census was 76,303,387.[4] A careful census is like a decision by a court of last resort—there is no higher or equal authority to which to appeal.[5] Hence there is no trustworthy means of determining the degree of error to which a census count of population is exposed, or the accuracy with which any particular census is taken. But no well-informed person believes that the figures of a census, however carefully taken, may be relied upon as accurate to the last figures. There being no test available, the opinions of competent experts may be put in evidence in support of this conclusion. Thus Francis A. Walker, Superintendent of the Ninth and Tenth censuses, testified in 1892 to a select committee of the House: "I should consider that a man who did not come within half of 1 per cent of the population had made a great mistake and a culpable mistake."[6] Hon. Carroll D. Wright, Commissioner of Labor, who completed the work of the Eleventh Census, wrote in July, 1897: "I think that the Eleventh Census came within less than 1 per cent of the true enumeration of the inhabitants," and authorized the publication of this opinion.

In the light of these expressions of opinion, and in view of the serious difficulties in the way of accurately determining the population of the United States, I doubt that one is warranted in assuming that the population was determined by the Twelfth Census with greater acccuracy than the area of continental United States. It has been shown (page 4) that two independent measurements of the land surface of continental United States differ by about one-tenth of 1 per cent. If we assume that the population figure misses the goal of perfect accuracy by at least the same amount, or that the minimum probable error was one-tenth of 1 per cent, then the true population of the area of enumeration, June 1, 1900, lay between 76,227,000 and 76,380,000. If the round number 76,300,000 be taken to express everything between 76,250,000 and 76,350,000, then perhaps that number may be deemed trustworthy, the probable error being well within the limits required for any scientific use likely to be made of the results.

The United States.—In the discussion of area (page 1) it was shown that the United States includes some territory not embraced in the area of enumeration. To get an

[1] 30 Stat. L. 1018. Twelfth Census, Instructions to Enumerators, Secs. 94, 109 and 110.

[2] For example, the instructions issued in connection with the Canadian census of 1901 state: "The decisive hour of reckoning is made 12 o'clock or midnight on the night of 31st March to 1st April, so that every one born before that hour and every one dying after it are to be counted in the population."

[3] Twelfth Census, Instructions to Enumerators, Secs. 111–119.

[4] Twelfth Census, Vol. I, page 2.

[5] Twelfth Census, Bulletin No. 135, Methods of Estimating Population.

[6] House Report No. 2393, page 73, Fifty-second Congress, second session.

approximation to the total population figures for the territory outside the area of enumeration—obtained from the best available sources, but all, except those for Porto Rico, subject to a large probable error—have been added to the population reported by the Twelfth Census. The result is stated in the following table:

TABLE 13.—POPULATION OF THE UNITED STATES: 1900.

The United States	84,233,069
Area of enumeration	76,303,357
Philippine Islands	6,961,389
Porto Rico [1]	953,243
Guam [2]	9,000
Samoa	6,100

[1] War Department, Census of Porto Rico, 1899, page 40.
[2] War Department, Adjutant General's Office, No. XXVIII, Report on the Island of Guam, page 20.

The estimate for the Philippine Islands in Table 13 was made by Mr. C. C. Plehn, recently statistician to the Philippine Commission, in a letter to the Census Office. A census of the Philippine Islands was in progress in 1896, when the insurrection broke out. A large number of the schedules were found in Manila by the Americans, and tabulated. They related to 496 pueblos with a total population of 2,744,151, and showed an average increase of 3.8 per cent over the population of the same towns in 1887. This rate of increase, applied to the entire archipelago, gives a population in 1896 of 6,212,146. To this Mr. Plehn adds 49,193 for new towns, making a total of 6,261,339. This total has been recently published by the present Philippine Commission in its Report to the Secretary of War, for 1900–1901, Part 2, page 604, footnote. But in his personal letter Professor Plehn adds to this number 700,000 for the wild tribes, "remontados y infieles." In explanation of this estimate for a class which has often been thought more numerous, he writes: "My guess, based on the estimates of the Jesuits for the separate tribes and districts, is 700,000 at the outside. I could find no satisfactory evidence of any more, nor in fact any place for them to live. Indeed, compared with territory, means of subsistence, mode of life, and the more conservative reports, many tribes seem to me to be overestimated in the returns I used. In some cases there was a suspicion of duplicating."

The estimate for American Samoa was reported to the Census Office by the Navy Department in the following letter, which the Census Office has been authorized to print:

"NAVY DEPARTMENT,
WASHINGTON, D. C., *June 4, 1901.*

To the Director of the Census.

SIR: The Department is in receipt of a letter from the Commandant of the United States Naval Station, Tutuila, Samoan Islands, in which he reports the population of the islands under the jurisdiction of the Navy Department as follows: Tutuila, 4,000; Manua group, 2,000; total, 6,000. The above figures represent the census taken during the past year, and include the adults and children (native Samoans). In addition to the native population, there are, approximately, one hundred whites.

Very respectfully,

(SIGNED) F. W. HACKETT,
Acting Secretary."

With these figures for the United States may be compared Table 14, compiled from the most recent English and German sources. The differences between the two authorities furnish some indication of the margin of error to which the figures are subject. The table includes all countries to which either authority assigns a population of at least 25,000,000. The names of the countries are to be taken in a legal sense, as sovereign powers, rather than in a geographical sense—France, the German Empire, and the Netherlands, for example, like the British Empire, including populous territory in other parts of the world than Europe.

TABLE 14.—POPULATION OF EACH COUNTRY HAVING AT LEAST 25,000,000 INHABITANTS ACCORDING TO TWO RECENT AUTHORITIES.

COUNTRY.	POPULATION ACCORDING TO—	
	Statesman's Yearbook, 1901.	Huebner's Tabellen, 1901.
Chinese Empire	399,680,000	357,250,000
British Empire	395,152,105	389,321,826
Russian Empire	128,982,173	130,956,807
France	94,297,835	88,643,631
German Empire	71,032,014	68,811,329
Japan	43,760,754	46,541,976
Austria-Hungary	42,986,730	47,013,835
Ottoman Empire	39,900,913	48,168,323
Netherlands	39,311,524	40,434,143
Italy	32,045,404	32,449,754
Total	1,287,049,452	1,244,576,624

These ten countries, with the United States, include, according to the best authorities, at least five-sixths of the total population of the earth.

Main Geographic Divisions.—Table 15 gives the population of the main geographic divisions of continental United States, and the per cent each makes of the whole population.

TABLE 15.—POPULATION OF MAIN GEOGRAPHIC DIVISIONS: 1900.

DIVISION.	Population.	Per cent of total.
Continental United States	75,994,575	100.0
North Atlantic	21,046,695	27.7
South Atlantic	10,443,480	13.7
North Central	26,383,001	34.7
South Central	14,080,047	18.5
Western	4,091,349	5.4

To these figures for continental United States there must be added for Alaska 63,592, for Hawaii 154,001, for the other outlying districts the figures given in Table 13, this page, and for the persons in the military and naval service outside of continental United States 91,219, in order to reach the total already stated for the entire United States, namely, 84,233,069.

From Table 15 it appears that the most populous divisions are the North Central and the North Atlantic, the former containing one-third and the latter over one-fourth of the entire population. Each northern division contains

about twice as many inhabitants as the corresponding southern division, the entire population of the northern states being 47,379,699, and of the southern states 24,523,527. The North, while exceeding the South in area by only 4.2 per cent (page 6) exceeds it in population by 93.2 per cent. The Atlantic divisions have 41.4 per cent, the Central divisions 53.2 per cent, and the Western division 5.4 per cent of the population.

Minor Geographic Divisions.—Table 16 gives the population of the 11 minor geographic divisions into which the 5 main divisions have been broken.

TABLE 16.—POPULATION OF MINOR GEOGRAPHIC DIVISIONS: 1900.

DIVISION.	Population.	Per cent of total.
Continental United States	75,994,575	100.0
New England	5,592,017	7.4
Southern North Atlantic	15,454,678	20.3
Northern South Atlantic	4,464,481	5.9
Southern South Atlantic	5,978,999	7.9
Eastern North Central	15,985,581	21.0
Western North Central	10,347,423	13.6
Eastern South Central	7,547,757	9.9
Western South Central	6,532,290	8.6
Rocky Mountain	1,232,642	1.6
Basin and Plateau	442,015	0.6
Pacific	2,416,692	3.2

The table shows that the most populous divisions are the Eastern North Central, the Southern North Atlantic, and the Western North Central, which together include more than one-half (55 per cent) of the population of continental United States, although they include little more than one-fourth of the area (Table 5). The country east of the Mississippi has nearly three-fourths (72.4 per cent), that west of the Mississippi rather more than one-fourth (27.6 per cent), of the population of continental United States.

States and Territories.—In the following table the states and territories are arranged in order of population, and the number of inhabitants in each is given.

TABLE 17.—POPULATION OF STATES AND TERRITORIES ARRANGED IN ORDER OF POPULATION: 1900.

STATE OR TERRITORY.	Population.	Per cent of total.
The United States	84,233,069	100.0
New York	7,268,894	8.6
Philippine Islands	[1] 6,961,339	8.3
Pennsylvania	6,302,115	7.5
Illinois	4,821,550	5.7
Ohio	4,157,545	4.9
Missouri	3,106,665	3.7
Texas	3,048,710	3.6
Massachusetts	2,805,346	3.3
Indiana	2,516,462	3.0
Michigan	2,420,982	2.9
Iowa	2,231,853	2.7
Georgia	2,216,331	2.6
Kentucky	2,147,174	2.5
Wisconsin	2,069,042	2.5
Tennessee	2,020,616	2.4
North Carolina	1,893,810	2.3
New Jersey	1,883,669	2.2
Virginia	1,854,184	2.2
Alabama	1,828,697	2.2
Minnesota	1,751,394	2.1

TABLE 17.—POPULATION OF STATES AND TERRITORIES ARRANGED IN ORDER OF POPULATION: 1900—Con.

STATE OR TERRITORY.	Population.	Per cent of total.
Mississippi	1,551,270	1.8
California	1,485,053	1.8
Kansas	1,470,495	1.7
Louisiana	1,381,625	1.6
South Carolina	1,340,316	1.6
Arkansas	1,311,564	1.6
Maryland	1,188,044	1.4
Nebraska	1,066,300	1.3
West Virginia	958,800	1.1
Porto Rico	953,243	1.1
Connecticut	908,420	1.1
Maine	694,466	0.8
Colorado	539,700	0.6
Florida	528,542	0.6
Washington	518,103	0.6
Rhode Island	428,556	0.5
Oregon	413,536	0.5
New Hampshire	411,588	0.5
South Dakota	401,570	0.5
Oklahoma	398,331	0.5
Indian Territory	392,060	0.5
Vermont	343,641	0.4
North Dakota	319,146	0.4
District of Columbia	278,718	0.3
Utah	276,749	0.3
Montana	243,329	0.3
New Mexico	195,310	0.2
Delaware	184,735	0.2
Idaho	161,772	0.2
Hawaii	154,001	0.2
Arizona	122,931	0.2
Wyoming	92,531	0.1
Alaska	63,592	0.1
Nevada	42,335	0.1
Guam	[1] 9,000	([2])
Samoa	[1] 6,100	([2])
Not specified [3]	91,219	0.1

[1] Estimated.
[2] Less than one-tenth of 1 per cent.
[3] Persons in the military and naval service outside continental United States.

The inhabitants of the Philippine Islands are about as numerous as those of New York or Pennsylvania, and those of Porto Rico about as numerous as those of West Virginia. Each of the other outlying districts has a comparatively small population. The 8 leading states extend across the country from Massachusetts to Texas, with only one break, the large area of the Western states, already noted, compensating in some degree for their smaller population per unit of area. If Michigan and Iowa be included with these 8 states, the group of 10 contains more than half the inhabitants of continental United States.

Of the 39 states and territories in the Atlantic and Central divisions two-thirds (26) have each more than 1,000,000 inhabitants; of the 11 states and territories in the Western division only 1 has more than 1,000,000 inhabitants. The average population of the 18 states on the Atlantic coast, including the District of Columbia, is 1,749,454; of the 21 states and territories in the Central divisions, 1,924,431; of the 11 states and territories in the Western division, 371,941. In the Western division, in other words, the mean population of a state or territory is about one-fifth of what it is in the Mississippi Valley or on the Atlantic coast. The greater area of the Western states and territories does not at present offset their much smaller population per unit of area.

By dividing the population of each minor division

(Table 16) by the number of states and territories therein (Table 8) the following results are reached:

TABLE 18.—AVERAGE POPULATION OF A STATE OR TERRITORY IN EACH MINOR GEOGRAPHIC DIVISION: 1900.

DIVISION.	Average population of a state or territory.
New England	932,003
Southern North Atlantic	5,151,559
Northern South Atlantic	892,896
Southern South Atlantic	1,494,760
Eastern North Central	3,197,116
Western North Central	1,478,203
Eastern South Central	1,886,989
Western South Central	1,306,458
Rocky Mountain	246,528
Basin and Plateau	147,338
Pacific	805,564

This table shows that the states in the Southern North Atlantic and Eastern North Central groups have by far the greatest average population. In those two regions the average population of the 8 states is nearly four million (3,930,032). In each of the 8 Atlantic and Central divisions and in the Pacific division the average is above 800,000. The average population of a state or territory in the Rocky Mountain or Basin and Plateau divisions is notably less than in the Pacific division. From Table 8 it will be seen that in average area there is no such difference between them. It must be due, therefore, to the greater proportion of well-settled area in the Pacific coast states.

Topographic Divisions.—Table 19 shows the population of each of the 19 topographic divisions described on pages 9 to 13 and sketched on page 10. The per cent of the total population of continental United States residing in each division is given, and the introduction of the last column from Table 10 permits a rough comparison to be made between the population and area of each. The divisions are arranged in order of population.

TABLE 19.—DISTRIBUTION OF POPULATION AND AREA OF CONTINENTAL UNITED STATES BY TOPOGRAPHIC DIVISIONS: 1900.

DIVISION.	Population.	PER CENT OF TOTAL.	
		Population.	Area.
Continental United States	75,994,575	100.0	100.0
Prairie region	13,300,970	17.5	15.3
New England hills	10,260,153	13.5	2.8
Lake region	9,571,215	12.6	5.8
Interior timbered region	8,129,760	10.7	4.0
Piedmont region	6,809,103	9.0	3.0
Coastal plain (east of Mississippi River)	6,427,635	8.4	5.6
Allegheny plateau	6,070,246	8.0	3.4
Appalachian valley	4,499,072	5.9	1.8
Coastal plain (west of Mississippi River)	1,974,677	2.6	3.0
Coast lowlands	1,865,952	2.4	2.8
Mississippi alluvial region	1,227,094	1.6	1.4
Ozark hills	1,203,880	1.6	2.1
Coast ranges	1,079,992	1.4	2.1
Great plains	1,052,719	1.4	15.5
Pacific valley	995,368	1.3	3.6
Rocky Mountain	592,972	0.8	10.0
Great basin	375,345	0.5	7.7
Columbian mesas	356,758	0.5	3.8
Plateau region	201,669	0.3	6.3

This table shows that the Prairie region and the New England hills include over three-tenths (31 per cent), and with the Lake region and the Interior timbered region over one-half (54.3 per cent) of the population of the country. The table, when carefully examined, also shows that each of the 12 topographic divisions east of the eastern boundary of the Great Plains except the Ozark hills, the Coast lowlands, and the western part of the Coastal plain, has a larger proportion of the population than it has of the area of the country, while in each of the 7 topographic divisions west of that line, the reverse is true. It has already been shown that this line almost exactly bisects the country; from the present table it is clear that it separates the relatively well-settled from the sparsely settled parts. East of this line lies 51 per cent of the area with 93.9 per cent of the population; west of it lies 49 per cent of the area, with 6.1 per cent of the population.

Counties.—There are 2,852 counties or equivalent divisions in continental United States, from each of which some population was returned. The population of these divisions was 75,994,575. The average population of a county was, therefore, 26,646. But as these 2,852 counties vary in population from 4 in Bailey county, Texas, to 2,050,600 for New York county, the average of a series within which the range is so wide has little importance. To show what is the most usual population of a county in continental United States and the five divisions, Table 20 has been prepared.

TABLE 20.—COUNTIES GROUPED ACCORDING TO POPULATION, FOR CONTINENTAL UNITED STATES AND FOR MAIN GEOGRAPHIC DIVISIONS: 1900.

LIMITS OF POPULATION.	NUMBER OF COUNTIES WITHIN SPECIFIED LIMITS OF POPULATION IN—					
	Continental United States.	North Atlantic.	South Atlantic.	North Central.	South Central.	Western.
Less than 5,000	894	4	28	115	124	123
5,000 to 10,000	425	4	107	131	106	77
10,000 to 15,000	455	6	103	151	148	47
15,000 to 20,000	484	14	105	193	141	31
20,000 to 25,000	317	12	63	137	95	10
25,000 to 30,000	226	14	46	99	59	8
30,000 to 35,000	153	23	27	65	35	3
35,000 to 40,000	73	11	11	26	21	4
40,000 to 45,000	54	13	4	26	11	----------
45,000 to 50,000	46	14	5	20	5	2
50,000 and over	225	101	21	66	27	10
Total	2,852	216	520	1,029	772	315

The most usual population of a county in continental United States is between 15,000 and 20,000, but this statement holds for only one of the five geographic divisions, the North Central. In the Western division the counties of less than 5,000 inhabitants are most numerous, and the number in each class decreases regularly therefrom. In the South Atlantic division the counties of 5,000 to 10,000 inhabitants are in excess, but the numbers in the two following classes, 10,000 to 15,000 and 15,000 to 20,000, are almost as great. In the South Central division the largest class is that of counties of 10,000 to 15,000 inhabitants. In the North Atlantic division among classes having a range of 5,000 the largest is that of counties with a population of 30,000 to 35,000. But the class of counties with 50,000 inhabitants and over is quadruple any other class, witnessing primarily to the great number of

cities in that division, and also to the great area of the counties, which average fully one-third larger than those in the Eastern North Central group.

The preceding table shows that when the counties of continental United States are grouped by population, the largest class is that with 15,000 to 20,000 inhabitants, about one county in six falling within that group. To ascertain more accurately what is the prevailing population of a county in the United States as a whole, the number falling in groups with a range of only 1,000 has been found. Without giving this table in full, the following figures show more exactly what population of a county occurs most commonly in the United States:

LIMITS OF POPULATION.	Number of counties.
15,000 to 16,000	97
16,000 to 17,000	109
17,000 to 18,000	109
18,000 to 19,000	85
19,000 to 20,000	84

These figures show that the most usual population of a county in continental United States is from 16,000 to 18,000, about one-thirteenth of the counties in the country falling within these limits.

City and Country.—The population of the United States is classified by the Census Office not only by states and territories, counties, and minor civil divisions, but also into the groups of urban and rural. In both classifications the boundary lines of the areas by which the population is returned must be carefully ascertained and rigidly followed or irreparable confusion and error result. In classifying people as urban and rural it is necessary also to define carefully the line between these classes. The meaning popularly attached to urban, namely, pertaining to a city, has been found inapplicable to census purposes, owing to the different meanings of "city" in the different parts of the United States. The dictionary definition, "an incorporated municipality," might be thought adequate. But this country contains New York city with 3,437,202 inhabitants and Rainy Lake city with 7 inhabitants. There are 10,601 incorporated places in continental United States, of which 4,318 have less than 500 inhabitants, 8,949 have less than 2,500, and 9,553, or over nine-tenths of the entire number, less than 4,000.[1] The treatment accorded small incorporated places varies somewhat with the object in view and somewhat with individual judgment. No one classifies them as urban. In the first volume of the Twelfth Census (page lxxxix) all incorporated places having less than 4,000 inhabitants have been assigned to an intermediate class as semi-urban. For the purposes of the present analysis all having less than 2,500 inhabitants have been classed with the rural population, and all with more than 2,500 with the urban.

What is perhaps a more serious difficulty arises in the proper classification of populous but unincorporated New England towns, some of which possess well defined urban characteristics. In this difficulty the general rule of the population division[2] has been followed, and all New England towns which have a population of 2,500 or more, and do not contain an incorporated place have been classed as urban. Accordingly, the definition of city population here adopted is, the population living in incorporated places having at least 2,500 inhabitants, and, in addition, the population of New England towns of like size and not containing an incorporated place. The population of country districts includes all persons not living in cities as just defined.

[1] Twelfth Census, Vol. I, Table XVI, page lviii; Table XVII, page lx; and Table 8, pages 438–480.
[2] Twelfth Census, Vol. I, page lxxxi.

TABLE 21.—AMOUNT AND PER CENT OF POPULATION IN CITIES HAVING AT LEAST 2,500 INHABITANTS AND IN COUNTRY DISTRICTS, FOR MAIN AND MINOR GEOGRAPHIC DIVISIONS: 1900.

DIVISION.	POPULATION.			PER CENT OF POPULATION.	
	Total.	Of cities.	Of country districts.	In cities.	In country districts.
Continental United States	75,994,575	30,583,411	45,411,164	40.2	59.8
North Atlantic	21,046,695	14,352,647	6,694,048	68.2	31.8
New England	5,592,017	4,276,764	1,315,253	76.5	23.5
Southern North Atlantic	15,454,678	10,075,883	5,378,795	65.2	34.8
South Atlantic	10,448,480	2,232,632	8,210,848	21.4	78.6
Northern South Atlantic	4,464,481	1,421,173	3,043,308	31.8	68.2
Southern South Atlantic	5,978,999	811,459	5,167,540	13.6	86.4
North Central	26,333,004	10,148,927	16,184,077	38.5	61.5
Eastern North Central	15,985,581	7,202,383	8,783,198	45.1	54.9
Western North Central	10,347,423	2,946,544	7,400,879	28.5	71.5
South Central	14,080,047	2,188,253	11,891,794	15.5	84.5
Eastern South Central	7,547,757	1,131,056	6,416,701	15.0	85.0
Western South Central	6,532,290	1,057,197	5,475,093	16.2	83.8
Western	4,091,349	1,660,952	2,430,397	40.6	59.4
Rocky Mountain	1,232,642	406,479	826,163	33.0	67.0
Basin and Plateau	442,015	132,117	309,898	29.9	70.1
Pacific	2,416,692	1,122,356	1,294,336	46.4	53.6

Table 21 shows that in continental United States two-fifths of the population live in cities and three-fifths in the country. The main geographic divisions fall roughly into three classes—the North Atlantic, with more than two-thirds of its population in cities; the North Central and Western, with more than one-third (38.8 per cent); and the two southern divisions, with more than one-sixth (18 per cent). When the 11 minor groups are considered, it

appears that next to the two divisions of the North Atlantic group, with more than three-fifths of their population in cities, comes the Pacific group, with a per cent of population in cities slightly higher than that for the Eastern North Central (45.1). The Northern South Atlantic, Western North Central, Rocky Mountain, and Basin and Plateau groups all have about three-tenths of their population in cities, while the two South Central groups and the Southern South Atlantic have in the vicinity of one-seventh.

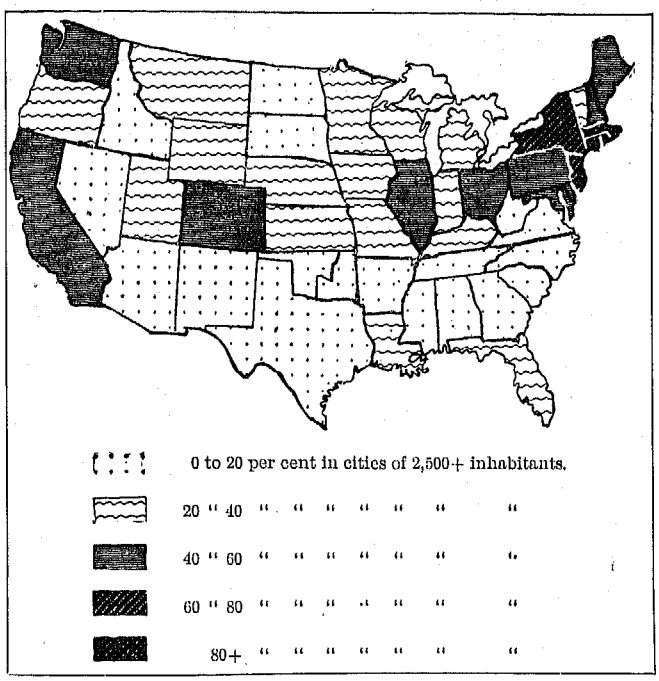
In Table 22 the number and per cent of residents in cities and in country districts is given for every state and territory of continental United States. The divisions are arranged in order of decreasing per cent of urban population, from the District of Columbia to Indian Territory.

TABLE 22.—AMOUNT AND PER CENT OF POPULATION IN CITIES HAVING AT LEAST 2,500 INHABITANTS AND IN COUNTRY DISTRICTS, FOR STATES AND TERRITORIES: 1900.

STATE OR TERRITORY.	POPULATION.			PER CENT OF POPULATION.	
	Total.	Of cities.	Of country districts.	In cities.	In country districts.
District of Columbia	278,718	278,718	----------	100.0	----------
Rhode Island	428,556	407,240	21,316	95.0	5.0
Massachusetts	2,805,346	2,567,098	238,248	91.5	8.5
Connecticut	908,420	680,478	227,942	74.9	25.1
New York	7,268,894	5,298,111	1,970,783	72.9	27.1
New Jersey	1,883,669	1,329,162	554,507	70.6	29.4
New Hampshire	411,588	226,269	185,319	55.0	45.0
Pennsylvania	6,302,115	3,448,610	2,853,505	54.7	45.3
Illinois	4,821,550	2,600,058	2,221,492	53.9	46.1
California	1,485,053	777,699	707,354	52.4	47.6
Maryland	1,188,044	591,206	596,838	49.8	50.2
Colorado	539,700	260,651	279,049	48.3	51.7
Ohio	4,157,545	1,997,100	2,160,445	48.0	52.0
Delaware	184,735	85,717	99,018	46.4	53.6
Maine	694,466	303,904	390,562	43.8	56.2
Washington	518,103	211,477	306,626	40.8	59.2
Michigan	2,420,982	952,323	1,468,659	39.3	60.7
Wisconsin	2,069,042	790,213	1,278,829	38.2	61.8
Utah	276,749	105,427	171,322	38.1	61.9
Missouri	3,106,665	1,128,104	1,978,561	36.3	63.7
Montana	243,329	84,554	158,775	34.7	65.3
Indiana	2,516,462	862,689	1,653,773	34.3	65.7
Minnesota	1,751,394	598,100	1,153,294	34.1	65.9
Oregon	413,536	133,180	280,356	32.2	67.8
Wyoming	92,531	26,657	65,874	28.8	71.2
Vermont	343,641	91,775	251,866	26.7	73.3
Louisiana	1,381,625	366,288	1,015,337	26.5	73.5
Iowa	2,231,853	572,386	1,659,467	25.6	74.4
Nebraska	1,066,300	252,702	813,598	23.7	76.3
Kansas	1,470,495	330,903	1,139,592	22.5	77.5
Kentucky	2,147,174	467,668	1,679,506	21.8	78.2
Florida	528,542	107,031	421,511	20.3	79.7
Virginia	1,854,184	340,067	1,514,117	18.3	81.7
Texas	3,048,710	520,759	2,527,951	17.1	82.9
Nevada	42,335	7,195	35,140	17.0	83.0
Tennessee	2,020,616	326,639	1,693,977	16.2	83.8
Arizona	122,931	19,495	103,436	15.9	84.1
Georgia	2,216,331	346,382	1,869,949	15.6	84.4
West Virginia	958,800	125,465	833,335	13.1	86.9
South Carolina	1,340,316	171,256	1,169,060	12.8	87.2
New Mexico	195,310	24,614	170,696	12.6	87.4
Alabama	1,828,697	216,714	1,611,983	11.9	88.1
South Dakota	401,570	40,936	360,634	10.2	89.8
North Carolina	1,893,810	186,790	1,707,020	9.9	90.1
Oklahoma	398,331	36,211	362,120	9.1	90.9
Arkansas	1,311,564	111,733	1,199,831	8.5	91.5
Mississippi	1,551,270	120,035	1,431,235	7.7	92.3
North Dakota	319,146	23,413	295,733	7.3	92.7
Idaho	161,772	10,003	151,769	6.2	93.8
Indian Territory	392,060	22,206	369,854	5.7	94.3

The main results of the foregoing table may be made clearer to the eye through a shaded map. For this purpose the scale from 0 to 100 per cent has been divided into five parts of equal range, 0 to 20, 20 to 40, 40 to 60, 60 to 80, and 80 and over, and the states and territories falling into each part have been given the same shading on an outline map. The results appear in the cartogram on the next page.

The cartogram shows that the states with a large city population include New York, New Jersey, and those in southern New England; that the states and territories with a small city population include, along with the Dakotas, Idaho, Nevada, and the Virginias, all except Florida and Louisiana lying south of the state boundary lines nearest the parallel of 37° and between the Atlantic and California; and that the states with a medium amount of city population (20 to 60 per cent) include Florida and Louisiana, the Pacific states, and all lying mainly north of the parallel just mentioned except those in the vicinity of New York harbor, the Virginias, the Dakotas, Idaho, and Nevada. The influence of commercial facilities is suggested by the high proportion of urban population about



New York harbor, in Louisiana, and in the Pacific states, but perhaps the main inference from the cartogram is a precise and emphatic indication of the contrast between the South on the one hand and the North and West on the other. Disregarding the border states of Delaware, Maryland, and Kentucky, every Southern state but Florida and Louisiana has less than one-fifth of its population in cities. In every Northern state as far west as the Great Plains, more than one-fifth of the population live in cities. To find a statistical generalization holding true so uniformly of each member of the class is rather unusual.

The definition of urban population here employed differs slightly from those given by the population division and the division of vital statistics. The former makes the population limit 4,000,[1] the latter makes it 8,000.[2] But the social and economic characteristics of urban places, however defined, vary greatly according to the number of inhabitants. The differences between cities of over 100,000 people and towns of 4,000 to 8,000 people are probably almost equal to those separating the latter class from the population of country districts, and the several classes pass into each other by imperceptible gradations. In view of this fact, and of the uncertainty regarding the best population limit, it seems best to divide the urban population into groups, the limits between the lower groups being so fixed as to conform to those recognized in prior publications of the present census. Accordingly, the following groups have been adopted: (1) places having at least 100,000 inhabitants; (2) places having 25,000 to 100,000 inhabitants; (3) places having 8,000 to 25,000 inhabitants; (4) places having 4,000 to 8,000 inhabitants; (5) places having 2,500 to 4,000 inhabitants. Table 23 gives for each state and territory, and for the main and minor geographic divisions of continental United States, the per cent of population living in cities of these several classes and in the country districts. The figures from which these per cents have been derived will be found in Table 24 at the end of this bulletin.

[1] Twelfth Census, Vol. I, page lxxxiii.
[2] Twelfth Census Bulletin No. 83, page 2.

TABLE 23.—PER CENT OF POPULATION LIVING IN CITIES WITHIN SPECIFIED LIMITS OF SIZE AND IN COUNTRY DISTRICTS, FOR STATES AND TERRITORIES: 1900.[1]

STATE OR TERRITORY.	PER CENT OF POPULATION— In cities of— At least 100,000 inhabitants.	25,000 to 100,000 inhabitants.	8,000 to 25,000 inhabitants.	4,000 to 8,000 inhabitants.	2,500 to 4,000 inhabitants.	In country districts.
Continental United States	18.7	7.3	6.9	4.4	2.9	59.8
North Atlantic division	35.8	12.2	10.6	6.1	3.5	31.8
New England	19.1	22.4	18.0	11.0	6.0	23.5
Maine		7.2	16.5	12.5	7.5	56.3
New Hampshire		13.8	24.8	8.1	8.3	45.0
Vermont			11.2	9.7	5.8	73.3
Massachusetts	27.9	30.4	17.7	10.9	4.6	8.5
Rhode Island	41.0	15.7	24.5	10.4	3.4	5.0
Connecticut	11.9	24.5	16.8	12.3	9.4	25.1
Southern North Atlantic	41.8	8.5	7.9	4.4	2.6	34.8
New York	55.9	5.4	7.2	2.7	1.7	27.1
New Jersey	29.6	18.5	13.1	6.3	3.0	29.5
Pennsylvania	29.3	9.0	7.1	5.7	3.6	45.3
South Atlantic division	7.5	4.9	4.6	2.6	1.8	78.6
Northern South Atlantic	17.7	5.5	5.0	1.9	1.7	68.2
Delaware		41.4			5.0	53.6
Maryland	42.8		4.1	1.3	1.6	50.2
District of Columbia	100.0					
Virginia		7.1	7.5	1.8	1.9	81.7
West Virginia		4.1	3.6	3.9	1.5	86.9
Southern South Atlantic		4.5	4.2	3.1	1.8	86.4
North Carolina			5.1	2.9	1.8	90.2
South Carolina		4.2	3.3	4.2	1.1	87.2
Georgia		8.3	2.7	2.9	1.7	84.4
Florida		5.4	9.6	1.6	3.7	79.7

[1] The figures from which these per cents have been computed will be found in Table 24, at the end of this bulletin.

TABLE 23.—PER CENT OF POPULATION LIVING IN CITIES WITHIN SPECIFIED LIMITS OF SIZE AND IN COUNTRY DISTRICTS, FOR STATES AND TERRITORIES: 1900[1]—Continued.

STATE OR TERRITORY.	PER CENT OF POPULATION—					
	In cities of—					In country districts.
	At least 100,000 inhabitants.	25,000 to 100,000 inhabitants.	8,000 to 25,000 inhabitants.	4,000 to 8,000 inhabitants.	2,500 to 4,000 inhabitants.	
North Central division	17.9	5.3	7.4	4.9	3.1	61.4
Eastern North Central	21.3	5.9	9.5	5.3	3.1	54.9
Ohio	23.2	5.8	9.4	6.4	3.2	52.0
Indiana	6.7	7.0	10.4	6.5	3.7	65.7
Illinois	35.2	4.5	7.4	3.9	2.9	46.1
Michigan	11.8	7.6	11.5	6.3	2.1	60.7
Wisconsin	13.8	5.7	11.2	3.9	3.6	61.8
Western North Central	12.7	4.3	4.2	4.2	3.0	71.6
Minnesota	20.9	3.0	2.9	4.1	3.2	65.9
Iowa		9.8	7.0	3.7	5.2	74.3
Missouri	27.1	0.9	2.8	4.1	1.4	63.7
North Dakota			3.0	2.4	1.9	92.7
South Dakota			2.6	4.6	3.0	89.8
Nebraska	9.6	6.2		5.0	2.9	76.3
Kansas		5.8	8.2	5.2	3.3	77.5
South Central division	4.2	4.2	2.7	2.4	2.1	84.4
Eastern South Central	4.1	4.6	2.0	2.2	2.1	85.0
Kentucky	9.5	4.6	2.8	2.8	2.1	78.2
Tennessee	5.1	7.1	1.2	0.8	2.0	83.8
Alabama		5.9	1.4	2.7	1.9	88.1
Mississippi			2.7	2.6	2.4	92.3
Western South Central	4.4	3.7	3.4	2.6	2.1	83.8
Louisiana	20.8		1.9	2.4	1.4	73.5
Arkansas		2.9	2.5	1.5	1.6	91.5
Indian Territory				2.5	3.1	94.4
Oklahoma			5.0		4.1	90.9
Texas		6.7	4.6	3.6	2.2	82.9
Western division	14.1	11.1	6.0	4.7	4.7	59.4
Rocky Mountain	10.9	4.7	8.2	3.8	5.3	67.1
Montana		12.5	14.4	1.8	6.0	65.3
Idaho				6.2		93.8
Wyoming			24.1	4.7		71.2
Colorado	24.8	5.2	8.1	3.1	7.1	51.7
New Mexico				6.1	6.5	87.4
Basin and Plateau		12.1	3.7	6.6	7.5	70.1
Arizona				10.6	5.2	84.2
Utah		19.3	5.9	4.2	8.7	61.9
Nevada				10.6	6.4	83.0
Pacific	18.4	14.2	5.2	4.8	3.8	53.6
Washington		30.0	1.9	4.5	4.4	59.2
Oregon		21.9	2.0	3.7	4.6	67.8
California	30.0	6.5	7.3	5.2	3.4	47.6

[1] The figures from which these per cents have been computed will be found in Table 24, at the end of this bulletin.

The first line of Table 23 shows that the population of cities of at least 100,000 inhabitants (38 in number) is about equal to that of cities of 4,000 to 100,000 inhabitants (1,119 in number), each group containing between 18 and 19 per cent of the population of continental United States. More than half the population of New York state, more than two-fifths that of Maryland and Rhode Island, and more than one-third that of Illinois live in cities of at least 100,000 inhabitants.

The second column shows that, in New England, cities of 25,000 to 100,000 include over one-fifth of the whole population, a much larger proportion than in any other division. Next to New England in this particular are the Pacific, and Basin and Plateau divisions. Among the several states, Delaware has the largest proportion of its population, over four-tenths, in cities of 25,000 to 100,000; Massachusetts and Washington follow, with three-tenths, and Connecticut and Oregon, with over two-tenths. Georgia is the only state south of the Potomac or Ohio in which the per cent of its population living in cities of 25,000 to 100,000 is above the average for continental United States.

In New Hampshire, Rhode Island, and Wyoming, nearly one-fourth of the population live in cities of 8,000 to 25,000 inhabitants, a proportion more than three times the average of continental United States. For every state in the North Atlantic and Eastern North Central groups the proportion in cities of this class is above the average for the country. The same is true of Virginia, Florida, and 6 states west of the Mississippi.

The per cent of population living in cities of 4,000 to 8,000 is considerably smaller than in either of the preceding classes. This class of population is largest proportionately in Maine, southern New England, Arizona, and Nevada. The per cent of population living in cities of 2,500 to 4,000 inhabitants is larger in the Western division than in any other of the 5 main divisions. The leading states in this respect are Connecticut, Utah, New Hampshire, Maine, and Colorado. But in none does one-tenth of the population live in cities of this class.

In the proportion of their urban population the rank of the states varies with the population limit adopted. When it is 100,000 the states with most urban population are New York, Maryland, and Rhode Island; when it is 25,000 the leading states are New York (61.3 per cent), Massachusetts (58.4 per cent), and Rhode Island (56.7 per cent). At

this limit Delaware has a larger proportion of urban population than Pennsylvania. Only when the limit is lowered to 8,000 do Rhode Island and Massachusetts rise to the leading position, the per cents then running, Rhode Island, 81.2; Massachusetts, 76; and New York, 68.5.

The location of the 160 cities of continental United States each having at least 25,000 inhabitants in 1900 is indicated, as accurately as the scale admits, on the following cartogram. It shows a cluster in eastern Massachusetts—that state having 20 cities of this class—another cluster about New York harbor, many cities in the mining and manufacturing regions of Pennsylvania, 12 along the Great Lakes, 10 on the Mississippi River, 7 on the Ohio River, and 7 on the Missouri.

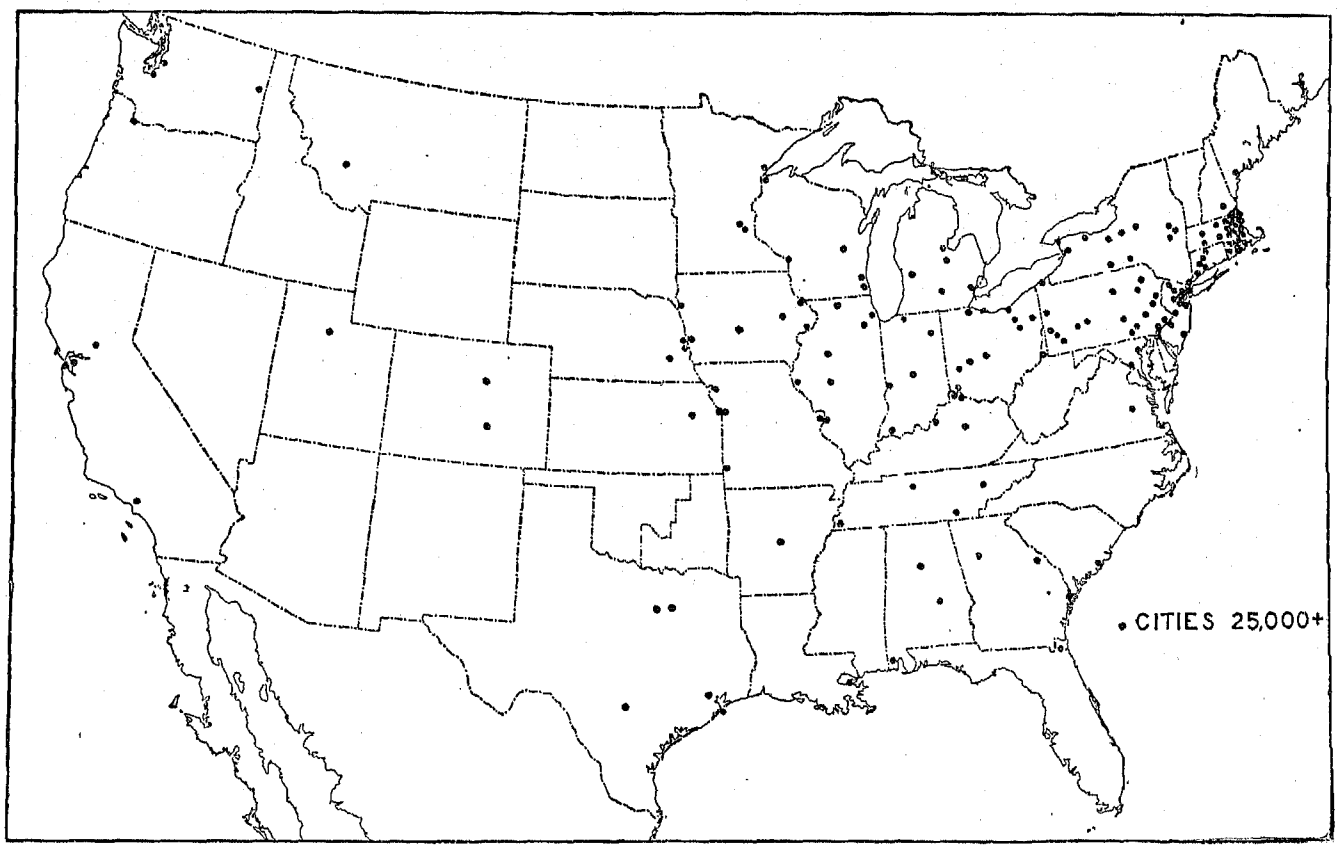


TABLE 24.—POPULATION LIVING IN CITIES WITHIN SPECIFIED LIMITS OF SIZE AND IN COUNTRY DISTRICTS, FOR STATES AND TERRITORIES: 1900.[1]

STATE OR TERRITORY.	POPULATION.						
	Total.	In cities of—					In country districts.
		At least 100,000 inhabitants.	25,000 to 100,000 inhabitants.	8,000 to 25,000 inhabitants.	4,000 to 8,000 inhabitants.	2,500 to 4,000 inhabitants.	
Continental United States	75,994,575	14,208,347	5,509,965	5,273,887	3,380,193	2,211,019	45,411,164
North Atlantic division	21,046,695	7,533,280	2,565,416	2,226,013	1,289,027	733,911	6,694,048
New England	5,592,017	1,067,800	1,250,258	1,007,671	615,997	335,038	1,315,253
Maine	694,466		50,145	114,494	87,046	52,219	390,562
New Hampshire	411,588		56,987	101,933	33,320	34,029	185,319
Vermont	343,641			38,587	33,461	19,727	251,866
Massachusetts	2,805,346	784,176	852,988	495,459	305,871	129,104	238,248
Rhode Island	428,556	175,597	67,435	104,860	44,617	14,731	21,316
Connecticut	908,420	108,027	222,703	152,338	112,182	85,228	227,942
Southern North Atlantic	15,454,678	6,465,480	1,315,158	1,218,342	673,030	403,873	5,378,795
New York	7,268,894	4,060,571	396,462	523,009	196,372	121,697	1,970,783
New Jersey	1,883,669	557,674	349,073	246,254	119,258	56,903	554,507
Pennsylvania	6,302,115	1,847,235	569,623	449,079	357,400	225,273	2,853,505

[1] Compiled from Twelfth Census, Vol. I, Tables xxv, xxviii, xxx, xxxii, 5, and 23.

TABLE 24.—POPULATION LIVING IN CITIES WITHIN SPECIFIED LIMITS OF SIZE AND IN COUNTRY DISTRICTS, FOR STATES AND TERRITORIES: 1900[1]—Continued.

STATE OR TERRITORY.	POPULATION.						
	Total.	In cities of—					In country districts.
		At least 100,000 inhabitants.	25,000 to 100,000 inhabitants.	8,000 to 25,000 inhabitants.	4,000 to 8,000 inhabitants.	2,500 to 4,000 inhabitants.	
South Atlantic division	10,443,480	787,675	514,853	475,098	271,894	183,112	8,210,848
Northern South Atlantic	4,464,481	787,675	247,060	223,286	86,268	76,884	3,043,308
Delaware	184,735		76,508			9,209	99,018
Maryland	1,188,044	508,957		48,540	15,298	18,411	596,838
District of Columbia	278,718	278,718					
Virginia	1,854,184		131,674	140,021	33,534	34,838	1,514,117
West Virginia	958,800		38,878	34,725	37,436	14,426	833,335
Southern South Atlantic	5,978,999		267,793	251,812	185,626	106,228	5,167,540
North Carolina	1,893,810			96,537	55,482	34,771	1,707,020
South Carolina	1,340,316		55,807	44,363	56,941	14,145	1,169,060
Georgia	2,216,331		183,557	60,212	64,918	37,695	1,869,949
Florida	528,542		28,429	50,700	8,285	19,617	421,511
North Central division	26,338,004	4,714,117	1,383,767	1,957,622	1,287,707	805,714	16,184,077
Eastern North Central	15,985,581	3,403,810	935,320	1,522,255	848,796	492,202	8,783,198
Ohio	4,157,545	965,052	241,866	392,922	264,679	132,581	2,160,445
Indiana	2,516,462	169,164	176,794	261,876	162,573	92,282	1,653,773
Illinois	4,821,550	1,698,575	216,570	356,795	188,203	139,915	2,221,492
Michigan	2,420,982	285,704	182,718	278,912	153,222	51,767	1,468,659
Wisconsin	2,069,042	285,315	117,372	231,750	80,119	75,657	1,278,829
Western North Central	10,347,423	1,310,307	448,447	435,367	438,911	313,512	7,400,879
Minnesota	1,751,394	365,783	52,969	51,294	72,205	55,849	1,153,294
Iowa	2,231,853		218,259	156,466	81,754	115,907	1,659,467
Missouri	3,106,665	841,969	26,023	87,571	128,451	44,090	1,978,561
North Dakota	319,146			9,589	7,652	6,172	295,733
South Dakota	401,570			10,266	18,477	12,193	360,634
Nebraska	1,066,300	102,555	66,170		52,968	31,009	313,598
Kansas	1,470,495		85,026	120,181	77,404	48,292	1,139,592
South Central division	14,080,047	594,155	591,870	371,306	339,324	291,598	11,891,794
Eastern South Central	7,547,757	307,051	348,494	152,132	166,402	156,977	6,416,701
Kentucky	2,147,174	204,731	97,608	60,620	60,687	44,022	1,679,506
Tennessee	2,020,616	102,320	143,666	23,942	15,968	40,753	1,693,977
Alabama	1,828,697		107,230	26,476	48,742	34,266	1,611,983
Mississippi	1,551,270			41,094	41,005	37,936	1,431,235
Western South Central	6,532,290	287,104	243,376	219,174	172,922	134,621	5,475,093
Louisiana	1,381,625	287,104		27,282	32,890	19,012	1,015,337
Arkansas	1,311,564		38,307	33,056	19,033	21,337	1,199,831
Indian Territory	392,060				9,935	12,271	369,854
Oklahoma	398,331			20,043		16,168	362,120
Texas	3,048,710		205,069	138,793	111,064	65,833	2,527,951
Western division	4,091,349	579,120	454,059	243,848	192,241	191,684	2,430,397
Rocky Mountain	1,232,642	133,859	58,627	101,134	47,054	65,305	826,163
Montana	243,329		30,470	35,153	4,366	14,565	158,775
Idaho	161,772				10,003		151,769
Wyoming	92,531			22,294	4,363		65,874
Colorado	539,700	133,859	28,157	43,687	16,481	38,467	279,049
New Mexico	195,310				11,841	12,773	170,696
Basin and Plateau	442,015		53,531	16,313	29,211	33,062	309,898
Arizona	122,931				13,075	6,420	103,436
Utah	276,749		53,531	16,313	11,636	23,947	171,322
Nevada	42,335				4,500	2,695	35,140
Pacific	2,416,692	445,261	341,901	126,401	115,976	92,817	1,294,336
Washington	518,103		155,233	10,049	23,468	22,727	306,626
Oregon	413,536		90,426	8,381	15,327	19,046	280,356
California	1,485,053	445,261	96,242	107,971	77,181	51,044	707,354

[1] Compiled from Twelfth Census, Vol. I, Tables xxv, xxviii, xxx, xxxii, 5, and 23.

Twelfth Census of the United States.

CENSUS BULLETIN.

No. 150. WASHINGTON, D. C. March 14, 1902.

MANUFACTURES.

UNITED STATES.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the preliminary results of the Twelfth Census of the manufacturing and mechanical industries of the United States. Changes may be found necessary in the totals, as a result of further examination and analysis in this office. But in the meantime this preliminary report, embodying the main results of the census of manufactures in 1900, and presenting a general view of the progress of industries since 1850, is submitted for immediate publication in the belief that the information it contains is desired by the country at the earliest practicable date. This information will thus be made available two years earlier than the corresponding data of the Eleventh Census, the bulletin presenting the preliminary totals for all classes of manufacturing and mechanical industries in the United States for 1890 having been transmitted to the Secretary of the Interior on February 20, 1894, and bearing the publication date of March 15, 1894.

These statistics have been gathered in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

Table 1 shows the manufacturing and mechanical industries of the United States as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade.

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TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900[1]	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	512,726	355,415	253,852	252,148	140,433	123,025	44.3	40.0	0.7	79.6	14.1
Capital	$9,874,664,087	$6,525,156,486	$2,790,272,606	$2,118,208,769	$1,009,855,715	$533,245,351	51.3	133.9	31.7	109.8	89.4
Salaried officials, clerks, etc., number	397,730	[2]461,009	(3)	(3)	(3)	(3)	[4]13.7				
Salaries	$404,837,591	[2]$391,988,208	(3)	(3)	(3)	(3)	3.3				
Wage-earners, average number	5,821,087	4,251,613	2,732,595	2,053,996	1,311,246	957,059	25.2	55.6	33.0	56.6	37.0
Total wages	$2,330,273,021	$1,891,228,321	$947,953,795	$775,584,343	$378,878,966	$236,755,464	23.2	99.5	22.2	104.7	60.0
Men, 16 years and over	4,120,716	3,327,042	2,019,035	1,615,598	1,040,349	731,137	23.9	64.8	25.0	55.3	42.3
Wages	$2,022,899,275	$1,659,234,483	(3)	(3)	(3)	(3)	21.9				
Women, 16 years and over	1,031,747	803,686	531,639	323,770	270,897	225,922	28.4	51.2	64.2	19.5	19.9
Wages	$281,705,586	$215,367,976	(3)	(3)	(3)	(3)	30.8				
Children, under 16 years	168,624	120,885	181,921	114,628	(3)	(3)	39.5	[4]33.6	58.7		
Wages	$25,668,160	$16,625,862	(3)	(3)	(3)	(3)	54.4				
Miscellaneous expenses	$1,028,855,586	$631,225,035	(5)	(5)	(5)	(5)	63.0				
Cost of materials used	$7,360,954,597	$5,162,044,076	$3,396,823,549	$2,488,427,242	$1,031,605,092	$555,123,822	42.6	52.0	36.5	141.2	85.8
Value of products, including custom work and repairing	$13,040,013,638	$9,372,437,283	$5,369,579,191	$4,232,325,442	$1,885,861,676	$1,019,106,616	39.1	74.5	26.9	124.4	85.1

[1] Includes, for comparative purposes, 85 governmental establishments in the District of Columbia having products valued at $9,887,355, the statistics of such establishments for 1890 not being separable.
[2] Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 6.)
[3] *Not reported separately.*
[4] Decrease.
[5] Not reported.

Table 1 embodies in concrete form the essential results of the Twelfth Census relative to manufactures, and presents a general view of the progress of industry.

The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. It will be observed that, in comparison with the figures of the census of 1850, there has been an increase in capital invested approximating nineteenfold; in the average number of wage-earners about five and one-half fold; in amount of wages paid about tenfold; and in value of products about thirteenfold. The population of the country has in the meanwhile increased two and one-quarter fold. While these comparisons must be made with many reservations, they nevertheless afford, in all the items except that of capital invested, an approximate exhibit of the enormous increase in manufactures which occurred in the United States in the last half of the Nineteenth century. They are particularly suggestive as an indication of the increasing productive capacity of labor, due chiefly to the increased effectiveness of machinery and the largely increased investment of capital. The apparent value of products per wage-earner has increased from $1,065 in 1850 to $2,451 in 1900.

The preliminary grand total of the gross value of products of all manufacturing and mechanical industries for 1900 is $13,040,013,638, an increase of $3,667,576,355, or 39.1 per cent, over the gross value shown in 1890, which was $9,372,437,283. The grand total of the gross products returned by the census of 1880 was $5,369,579,191, the increase from 1880 to 1890 being $4,002,858,092, or 74.5 per cent. While the increase during the decade ending with 1890 exceeded that for the last decade by $335,281,737, it should be borne in mind that the gross value of products for 1900 represents relatively a greater volume or quantity of products than is indicated by the value expressed in dollars. Table 1 shows that both the greatest absolute increase in capital, $3,734,883,880, and the greatest percentage of increase, 133.9, were for the decade ending with 1890. The greatest absolute increase in the average number of wage-earners, 1,519,018, was for the decade ending with 1890, while the greatest percentage of increase, 56.6, was for the decade ending with 1870. So, also, in amount of wages paid, the decade ending with 1890 shows the greatest absolute increase, $943,274,526, and the greatest percentage of increase, 104.7, was for the decade ending with 1870. In this connection, however, attention is directed to paragraphs on pages 4 and 5 stating why comparisons may not be made safely as to capital, number of wage-earners, and wages paid.

The value of products referred to in this bulletin is the gross value, and does not represent the final value of the manufactured products of the country. A constant duplication of products appears in these tables, owing to the fact that the finished products of many manufacturing establishments become the materials of other establishments, in which they are further utilized and again included in the value of products.

The gross value thus obtained fairly represents the commercial transactions involved in these manufacturing enterprises, in much the same way that the total transactions of the bank clearing house of a city represent the actual banking transactions of that city. But it is necessary to make certain deductions from this gross total value, in order to approximately ascertain the intrinsic addition to the wealth of the country accruing from the manufacturing operations of the census year. This may be done by deducting from the gross value of products presented in Table 2 for "hand trades" and "all other establishments," the value of materials purchased in a partially manufactured form. The value of these materials is $4,641,717,228, and the net value of products is, therefore, $8,388,409,055. It is impossible to make a similar comparison with previous censuses, for this is the first time that the Census Office has attempted to differentiate mate-

rials consumed in manufacture between the absolute raw materials and the materials purchased in a partly manufactured form. The intrinsic or net value of the manufactured products of the country consists of the value of raw materials as they are originally received from the farm, the forest, the mine, or the sea, and the value added to these crude materials by the different processes of manufacture through which they have passed in their various stages to the final finished products, ready for the consumer. The total may be further subdivided into $2,393,836,629, the sum paid for the crude materials of manufacture, $322,669,636 for fuel, freight, etc., and $5,671,902,790, the value added to materials by the various processes of manufacture.

The gross value fairly represents the volume of our internal trade in manufactured articles, exclusive of the retailing of the products of manufacture, which represents transactions involving an amount at least as great, and consists of the reselling of these products as they pass into the possession of the ultimate consumer. The total money volume of the wholesale and retail transactions in the manufactured products of the United States is unquestionably greater than the volume of the international trade of the principal countries of the world, which equals the sum of $20,005,884,354[1] (exports and imports added together), and which also consists very largely of twice or thrice sold articles in various stages of manufacture.

For the purpose of uniformity in comparison, the statistics for establishments reporting a product valued at less than $500, and also the statistics for governmental establishments and educational, eleemosynary, and penal institutions, as reported at the Twelfth Census, are omitted from Table 1. These establishments were not uniformly reported at prior censuses, and therefore their statistics are omitted from this table and their totals confined to Table 2, which follows.

Table 2 divides the industries between the hand trades and the manufactures proper. This table also gives the statistics for governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than $500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

[1] Progress of the United States in its Material Industries, 1800–1900, published by the Bureau of Statistics of the Treasury Department, page 46.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	640,607	$9,984,424,167	709,826	5,393,246	$2,339,923,615	$1,031,654,335	$7,377,907,079	$2,395,958,161	$4,658,697,841	$323,251,077	$13,091,876,790
Hand trades[1]	215,990	393,997,796	244,376	560,384	288,658,806	124,763,014	483,723,995	8,759,959	463,558,647	11,405,389	1,186,201,455
Governmental establishments	145	70,071,349	----------	17,072	12,619,686	338,113	6,671,019	60,576	6,370,421	240,022	21,452,079
Educational, eleemosynary, and penal institutions	402	12,952,776	181	8,355	1,266,159	212,862	4,109,318	641,391	3,153,333	314,594	10,573,785
Establishments with a product of less than $500	127,419	44,388,065	136,127	55,128	2,122,126	2,527,607	8,903,249	1,419,565	7,456,859	26,825	29,724,643
All other establishments	296,651	9,463,014,181	328,692	4,752,307	2,035,256,838	903,812,739	6,874,499,498	2,385,076,670	4,178,158,581	311,264,247	11,843,924,828

[1] Includes bicycle and tricycle repairing, 6,331; blacksmithing and wheelwrighting, 51,791; boots and shoes, custom work and repairing, 23,574; carpentering, 21,332; clothing, men's, custom work and repairing, 22,214; clothing, women's, dressmaking, 14,485; dyeing and cleaning, 1,810; furniture, cabinetmaking, repairing, and upholstering, 6,164; lock and gun smithing, 2,103; masonry, brick and stone, 6,434; millinery, custom work, 16,153; painting, house, sign, etc., 15,809; paper hanging, 1,645; plastering and stuccowork, 1,902; plumbing, and gas and steam fitting, 11,881; sewing machine repairing, 396; taxidermy, 147; typewriter repairing, 85; watch, clock, and jewelry repairing, 12,243.

Table 3 shows the totals for certain selected industries for which preliminary results have thus far been ascertained, in comparison with the totals for the same industries as reported at the census of 1890.

TABLE 3.—COMPARATIVE SUMMARY, TOTALS FOR SELECTED INDUSTRIES, 1890 AND 1900.

	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Number.	Salaries.	Average number.	Total wages.			
Total	1900	117,681	$5,434,629,405	156,405	$169,244,988	2,306,537	$972,714,010	$475,868,665	$3,743,536,496	$6,117,965,710
	1890	92,475	3,781,966,681	125,567	111,606,244	1,923,781	785,907,485	341,628,493	2,792,150,885	4,603,434,185
Increase	-------	25,206	1,652,662,724	30,838	57,638,744	382,756	186,806,525	134,240,172	951,385,611	1,514,531,525
Per cent of increase	-------	27.3	43.7	24.6	51.6	19.9	23.8	39.3	34.1	32.9

The selected industries for which statistics are given in Table 3 represent reports from 117,681 establishments, and the total value of their products was $6,117,965,710, or practically 50 per cent of the total value of the manufactured products for the census year. The industries included in this table comprise most of the great basic industries of the United States.

The industries omitted from Table 3, and to be presented in later bulletins, comprise, in addition to the hand trades and other miscellaneous neighborhood industries, many great branches of manufacture—like foundry and machine shop products—the statistics of which are rapidly advancing to the point of preliminary publication.

The percentage of increase in the value of products for the industries included in Table 3, which eliminates from the computation certain industries, shown in Table 5, where the statistics of 1900 are not comparable with those of 1890, was 32.9 per cent. Table 4, which presents the comparative statistics for each of these selected industries, shows a substantial and gratifying progress during the decade, the exceptions being in some of the subdivisions of certain industries—such as woolen goods, under textiles, or slaughtering, wholesale, not including meat packing, under slaughtering—the decreases being due to changes that have taken place in the character of the finished products of the establishments assigned to the subclasses. In the manufacture of distilled liquors the decrease is more apparent than real, being due to the fact that the internal-revenue tax upon distilled liquor was not so generally included in the value of products as at previous censuses.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

Table 4 is a comparison of the statistics for each of the selected industries reported at the censuses of 1890 and 1900, showing the absolute increase or decrease for each item, with the corresponding percentage.

Table 5 shows for 1900 the statistics for each of the selected industries included in Table 4, and also totals for industries not comparable with statistics shown at the census of 1890. In this table the industries are arranged in the order of the value of their products.

Table 6 shows the statistics for each state and territory as reported at the census of 1900, in comparison with the totals for 1890.

Very respectfully,

S. N. D. North

Chief Statistician for Manufactures.

TABLE 4.—COMPARATIVE SUMMARY, SELECTED INDUSTRIES, 1890 AND 1900.

INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Number.	Salaries.	Average number.	Total wages.			
Total	1900	117,681	$5,434,629,405	156,405	$169,244,988	2,306,537	$972,714,010	$475,868,665	$3,743,536,496	$6,117,965,710
	1890	92,475	3,781,966,681	125,567	111,606,244	1,923,781	785,907,485	341,628,493	2,792,150,885	4,603,434,185
Increase		25,206	1,652,662,724	30,838	57,638,744	382,756	186,806,525	134,240,172	951,385,611	1,514,531,525
Per cent of increase		27.3	43.7	24.6	51.6	19.9	23.8	39.3	34.1	32.9
Agricultural implements	1900	715	157,707,951	10,046	8,863,210	46,582	22,450,880	11,394,656	43,944,628	101,207,428
	1890	910	145,813,997	3,717	3,704,667	38,827	18,107,094	11,129,548	31,603,265	81,271,651
Increase		[1]195	12,893,954	6,329	4,658,543	7,755	4,343,786	265,108	12,341,363	19,935,777
Per cent of increase		[1]21.4	8.5	170.3	125.7	20.0	24.0	2.4	39.1	24.5
Boots and shoes, factory product	1900	1,600	101,795,233	7,848	7,757,749	142,922	59,175,883	10,766,402	169,604,054	231,028,580
	1890	2,082	95,282,311	5,648	5,707,931	133,690	60,667,145	9,217,519	118,785,831	220,649,358
Increase		[1]482	6,512,922	2,200	2,049,818	9,232	[1]1,491,262	1,548,883	50,818,223	40,379,222
Per cent of increase		[1]23.2	6.8	39.0	35.9	6.9	[1]2.5	16.8	42.8	18.3
Carriages and wagons	1900	7,682	118,187,888	4,311	4,073,932	62,540	29,814,911	6,261,469	56,676,073	121,537,276
	1890	8,614	104,210,602	9,194	7,533,221	64,259	32,665,301	6,022,972	49,889,173	114,551,907
Increase		[1]932	13,977,286	[1]4,883	[1]3,459,289	[1]1,719	[1]2,850,390	238,497	6,786,900	6,985,369
Per cent of increase		[1]11.4	13.4	[1]53.1	[1]45.9	[1]2.7	[1]8.7	4.0	13.6	6.1
Cars and general shop construction and repairs by steam railroad companies.	1900	1,296	119,580,273	7,096	6,210,247	173,652	96,062,329	6,293,987	109,539,018	218,238,277
	1890	716	76,192,477	1,953	1,584,242	106,632	60,218,433	95,054	66,561,526	129,461,698
Increase		580	43,387,796	5,143	4,626,005	67,020	35,848,896	6,198,933	42,977,487	88,756,579
Per cent of increase		81.0	56.9	263.3	292.0	62.9	59.5	6,521.5	64.6	68.6
Cheese, butter, and condensed milk	1900	9,351	36,491,799	2,826	915,067	12,860	6,169,060	1,590,518	109,139,801	131,183,338
	1890	4,712	16,624,163	2,320	968,604	12,601	4,422,101	875,182	51,364,574	62,686,048
Increase		4,639	19,867,636	506	[1]53,537	259	1,746,959	715,336	57,775,227	68,497,295
Per cent of increase		98.5	119.5	21.8	[1]5.5	2.1	39.5	81.7	112.5	109.3
Chemical products	1900	1,740	238,529,641	8,605	11,840,385	46,765	21,799,251	14,825,112	124,043,837	202,582,396
	1890	1,697	164,859,576	6,918	7,824,767	37,237	17,486,871	13,221,774	104,143,249	174,699,079
Increase		43	73,670,065	2,687	4,015,618	9,528	4,312,380	1,603,338	19,900,588	27,883,317
Per cent of increase		2.5	44.7	45.4	54.8	25.6	24.7	12.1	19.1	16.0
Chemicals (acids, bases, and salts)	1900	459	89,091,430	2,123	2,923,033	19,054	9,401,467	4,363,868	34,564,137	62,676,730
	1890	563	55,032,452	1,914	2,383,432	15,038	7,308,411	4,413,170	33,694,927	59,852,548
Increase		[1]104	34,058,978	209	539,601	4,016	2,093,056	[1]149,302	869,210	3,824,182
Per cent of increase		[1]18.5	61.9	10.9	22.6	26.7	28.6	[1]1.1	2.6	5.6
Explosives	1900	97	19,465,846	768	914,447	4,501	2,388,756	1,096,604	10,384,974	17,125,418
	1890	69	13,539,478	197	309,008	2,353	1,240,502	1,168,920	5,481,723	11,352,615
Increase		28	5,926,368	571	605,439	2,148	1,148,254	[1]72,316	4,853,251	5,772,803
Per cent of increase		40.6	43.8	289.8	195.9	91.3	92.2	[1]6.2	88.5	50.8
Fertilizers	1900	422	60,685,753	1,712	2,124,972	11,581	4,185,289	3,734,285	28,958,473	44,657,385
	1890	390	40,594,168	1,132	1,253,961	9,026	3,417,870	2,790,082	25,113,874	39,180,844
Increase		32	20,091,585	580	871,011	2,555	767,419	944,203	3,844,599	5,476,541
Per cent of increase		8.2	49.5	51.2	69.5	28.3	22.5	33.8	15.3	14.0
Paints	1900	419	42,501,782	2,512	3,077,318	8,151	3,929,787	3,430,061	33,799,386	50,874,995
	1890	382	34,009,203	1,693	2,036,869	7,044	3,568,757	3,039,427	24,930,532	40,438,171
Increase		37	8,492,579	819	1,040,449	1,107	361,030	390,634	8,868,854	10,436,824
Per cent of increase		9.7	25.0	48.4	51.1	15.7	10.1	12.9	35.6	25.8
Varnish	1900	181	17,550,892	1,198	1,939,338	1,546	995,803	1,616,642	10,939,131	13,337,240
	1890	140	11,308,943	766	1,016,346	1,145	732,715	1,310,811	7,805,663	13,795,510
Increase		41	6,241,949	492	922,987	401	263,088	305,831	3,133,468	4,891,730
Per cent of increase		29.3	55.2	69.7	90.8	35.0	35.9	23.3	40.1	35.5
All other chemical manufactures (dye stuffs and extracts, bone, ivory, and lamp black, and oils, essential).	1900	162	9,233,938	292	361,282	1,932	903,149	583,652	5,447,736	8,560,628
	1890	153	10,375,332	276	325,151	2,631	1,218,616	499,364	7,116,530	10,579,391
Increase		9	[1]1,141,394	16	36,131	[1]699	[1]315,467	84,288	[1]1,668,794	[1]2,018,763
Per cent of increase		5.9	[1]11.0	5.8	11.1	[1]26.6	[1]25.9	16.9	[1]23.4	[1]19.1
Clay products	1900	6,422	147,913,323	5,260	5,031,295	105,618	39,534,070	6,839,840	22,908,184	95,443,862
	1890	6,535	108,705,670	6,291	4,254,943	123,156	38,578,389	7,111,776	18,257,998	89,827,785
Increase		[1]113	39,207,653	[1]1,031	776,352	[1]17,538	955,681	[1]271,936	4,645,186	5,616,077
Per cent of increase		[1]1.7	36.1	[1]17.3	18.2	[1]14.2	2.5	[1]3.8	25.4	6.3
Coke	1900	241	36,502,679	915	797,296	16,999	7,085,736	2,184,968	19,665,532	35,585,445
	1890	218	17,462,729	161	113,632	8,998	4,072,632	394,784	11,509,787	16,498,345
Increase		23	19,039,950	754	683,664	8,001	3,013,104	1,790,184	8,155,795	19,087,100
Per cent of increase		10.6	109.0	468.3	601.7	88.9	74.0	453.5	70.9	115.7
Cordage and twine	1900	165	29,275,470	436	666,936	13,114	4,113,112	1,716,205	26,632,006	37,849,651
	1890	150	23,351,883	414	560,639	12,385	3,976,232	1,020,697	24,051,666	33,312,559
Increase		[1]45	5,923,587	22	106,297	729	136,880	695,508	2,580,340	4,537,092
Per cent of increase		[1]30.0	25.4	5.3	19.0	5.9	3.4	68.1	10.7	13.6
Cotton manufactures	1900	1,051	467,240,157	4,902	7,350,199	302,861	83,689,752	22,112,678	176,551,527	330,198,619
	1890	905	354,020,843	2,709	3,464,734	218,876	66,024,538	16,716,524	154,912,979	267,981,724
Increase		146	113,219,314	2,193	3,885,465	83,985	20,665,214	5,396,154	21,638,548	71,216,895
Per cent of increase		16.1	32.0	81.0	112.1	38.4	31.3	32.3	14.0	26.6
Dyeing and finishing textiles	1900	298	60,643,104	1,818	2,267,128	29,776	12,726,316	4,137,947	17,958,137	44,963,331
	1890	248	38,450,800	666	805,291	19,601	8,911,720	3,131,381	12,385,220	28,900,560
Increase		50	22,192,304	652	1,461,837	10,175	3,814,596	1,006,366	5,572,917	16,062,771
Per cent of increase		20.2	57.7	97.9	181.5	51.9	42.8	32.2	45.0	55.6
Flouring and grist mill products	1900	25,258	218,714,104	5,790	5,404,760	37,073	17,703,418	10,325,588	475,826,345	560,719,063
	1890	18,470	208,473,500	16,078	8,897,340	47,403	18,138,402	13,162,637	434,152,290	513,971,474
Increase		6,788	10,240,604	[1]10,288	[1]3,492,590	[1]10,330	[1]434,984	[1]2,836,449	41,674,055	46,747,589
Per cent of increase		36.8	4.9	[1]64.0	[1]39.3	[1]21.8	[1]2.4	[1]21.6	9.6	9.1
Gas, illuminating and heating	1900	877	567,000,506	5,904	5,273,500	22,459	12,436,296	14,769,022	20,605,356	75,716,693
	1890	742	258,771,795	1,864	2,143,169	12,996	8,499,625	7,799,385	14,037,087	56,987,290
Increase		135	308,228,711	4,040	3,130,331	9,463	3,936,671	6,969,637	6,568,269	18,729,403
Per cent of increase		18.2	119.1	216.7	146.1	72.8	46.3	89.4	46.8	32.9

[1] Decrease.

TABLE 4.—COMPARATIVE SUMMARY, SELECTED INDUSTRIES, 1890 AND 1900—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Number.	Salaries.	Average number.	Total wages.			
Glass	1900	355	$61,423,903	2,268	$2,792,376	52,818	$26,529,748	$3,588,641	$16,731,009	$56,539,712
	1890	294	40,966,850	1,095	1,232,561	44,892	20,885,961	2,267,696	12,140,985	41,051,004
Increase		61	20,457,053	1,173	1,559,815	7,926	5,643,787	1,320,945	4,590,024	15,488,708
Per cent of increase		20.7	49.9	107.1	126.6	17.7	27.0	58.3	37.8	37.7
Iron and steel	[1]1900	725	580,041,710	9,544	12,028,811	226,161	122,710,193	32,510,556	549,127,082	885,759,034
	1890	719	405,771,786	4,325	6,462,236	171,181	89,273,956	18,214,948	327,272,845	478,687,519
Increase		6	174,269,924	5,219	5,566,575	54,980	33,436,237	14,295,608	221,854,237	357,071,515
Per cent of increase		0.8	43.0	120.7	86.1	32.1	37.5	78.5	67.8	74.6
Blast furnaces	1900	228	143,159,232	1,757	2,304,120	39,241	18,484,400	7,463,234	181,503,655	206,756,557
	1890	304	129,547,485	1,068	1,611,687	33,415	14,614,458	6,342,675	110,098,615	145,643,153
Increase		[2]81	13,611,747	689	692,433	5,826	3,869,942	1,120,559	21,405,040	61,113,404
Per cent of increase		[2]26.6	10.5	64.5	43.0	17.4	26.5	17.7	19.4	42.0
Forges and bloomeries	1900	7	272,388	12	11,500	226	97,184	15,203	327,160	522,432
	1890	20	876,470	15	17,309	471	199,065	54,680	905,208	1,183,494
Increase		[2]13	[2]604,082	[2]3	[2]5,809	[2]245	[2]101,881	[2]39,477	[2]578,048	[2]661,062
Per cent of increase		[2]65.0	[2]68.9	[2]20.0	[2]33.6	[2]52.0	[2]51.2	[2]72.2	[2]63.9	[2]55.9
Rolling mills and steel works	1900	438	429,960,043	7,442	9,421,868	183,023	102,238,692	24,795,663	390,568,117	596,583,034
	1890	395	275,347,831	3,242	4,833,240	137,295	74,460,433	11,817,593	216,269,022	331,860,872
Increase		43	154,612,212	4,200	4,588,628	45,728	27,778,259	12,978,070	174,299,095	264,727,162
Per cent of increase		10.9	56.2	129.5	94.9	33.3	37.3	109.8	80.6	79.8
Jute and jute goods	1900	18	7,027,293	88	147,313	4,507	1,181,790	574,986	3,015,362	5,383,797
	1890	7	1,645,636	18	23,001	1,194	368,585	168,258	501,909	1,120,121
Increase		11	5,381,657	70	124,312	3,313	813,205	406,728	2,513,453	4,263,676
Per cent of increase		157.1	327.0	388.9	540.5	277.5	220.6	241.7	500.8	380.7
Leather, tanned, curried, and finished	1900	1,306	173,977,421	2,442	3,158,842	52,109	22,591,091	7,023,416	155,603,004	204,038,127
	1890	1,749	97,653,898	2,577	2,687,979	42,095	21,090,176	5,366,694	122,221,982	171,063,337
Increase		[2]443	76,323,523	[2]135	470,863	10,014	1,500,915	1,656,722	33,381,022	32,974,790
Per cent of increase		[2]25.3	78.2	[2]5.2	17.5	23.8	7.1	30.9	27.3	19.3
Liquors	1900	2,850	457,674,087	8,158	14,301,644	44,417	28,005,484	183,099,796	70,512,042	340,615,466
	1890	1,924	269,270,249	5,358	8,419,266	36,067	23,258,900	113,726,594	80,230,532	289,775,639
Increase		926	188,403,838	2,800	5,882,378	8,350	4,746,584	69,373,202	[2]9,718,490	50,839,827
Per cent of increase		48.1	70.0	52.3	69.9	23.2	20.4	61.0	[2]12.1	17.5
Liquors, distilled	1900	967	32,551,604	661	839,606	3,722	1,733,218	73,218,227	15,147,784	96,798,443
	1890	440	31,006,176	581	568,825	4,762	2,246,064	65,179,927	14,909,173	104,197,869
Increase		527	1,545,428	80	320,781	[2]1,040	[2]512,846	8,038,300	238,611	[2]7,399,426
Per cent of increase		119.8	5.0	13.8	56.4	[2]21.8	[2]22.8	12.3	1.6	[2]7.1
Liquors, malt	1900	1,524	415,284,468	7,153	13,046,540	39,532	25,826,211	109,329,231	51,674,928	237,269,713
	1890	1,248	232,471,290	4,543	7,669,161	30,257	20,713,383	48,276,290	64,003,347	182,731,622
Increase		276	182,813,178	2,610	5,377,379	9,275	5,112,828	61,052,941	[2]12,328,419	54,538,091
Per cent of increase		22.1	78.6	57.5	70.1	30.7	24.7	126.5	[2]19.3	29.8
Liquors, vinous	1900	359	9,838,015	344	365,498	1,163	446,055	552,338	3,689,330	6,547,310
	1890	236	5,792,783	234	181,280	1,048	299,453	270,377	1,318,012	2,846,148
Increase		123	4,045,232	110	184,218	115	146,602	281,961	2,371,318	3,701,162
Per cent of increase		52.1	69.8	47.0	101.6	11.0	49.0	104.3	179.9	130.0
Lumber and timber products	1900	33,035	611,611,524	12,530	11,260,608	283,260	104,640,591	17,731,519	317,923,548	566,832,984
	1890	22,617	557,881,054	20,375	11,203,757	311,964	87,934,284	25,324,063	242,562,296	437,957,882
Increase		10,418	53,730,470	[2]7,845	56,851	[2]28,704	16,706,307	[2]7,592,544	75,361,252	128,875,602
Per cent of increase		46.1	9.6	[2]38.5	0.5	[2]9.2	19.0	[2]30.0	31.1	29.4
Oleomargarine	1900	24	3,023,646	394	412,012	1,085	534,544	2,489,784	7,639,501	12,499,812
	1890	12	634,532	64	91,752	264	154,138	385,563	2,175,264	2,988,525
Increase		12	2,389,114	330	320,260	821	380,406	2,104,221	5,464,237	9,511,287
Per cent of increase		100.0	376.5	515.6	349.0	311.0	246.8	545.8	251.2	318.3
Paper and wood pulp	1900	763	167,507,713	2,935	4,500,911	49,646	20,746,426	10,184,106	70,530,236	127,286,162
	1890	649	89,829,548	1,348	1,770,657	31,050	13,204,828	6,770,681	44,228,480	78,937,184
Increase		114	77,678,165	1,587	2,730,254	18,596	7,541,598	3,413,425	26,301,756	48,348,978
Per cent of increase		17.6	86.5	117.7	154.2	59.9	57.1	50.4	59.5	61.2
Petroleum, refining	1900	67	95,327,892	1,201	1,811,400	12,199	6,717,087	3,330,851	102,859,341	123,920,384
	1890	94	77,416,296	1,068	1,117,011	11,403	5,872,467	2,069,268	67,918,723	85,001,198
Increase		[2]27	17,911,596	133	694,389	796	844,620	1,261,583	34,940,618	38,928,186
Per cent of increase		[2]28.7	23.1	12.5	62.2	7.0	14.4	61.0	51.4	45.8
Printing and publishing, newspapers and periodicals.	1900	15,305	192,443,708	27,579	27,015,791	94,604	50,333,051	38,544,642	50,214,904	222,983,569
	1890	12,362	126,269,885	20,120	17,777,173	85,975	50,324,359	35,727,039	38,955,322	179,859,750
Increase		2,943	66,173,823	7,459	9,238,618	8,629	[2]491,308	2,817,603	11,259,582	43,123,819
Per cent of increase		23.8	52.4	37.1	52.0	10.0	[2]1.0	7.9	28.9	24.0
Salt	1900	159	27,123,364	406	499,748	4,774	1,911,140	760,539	3,335,922	7,966,897
	1890	200	13,437,749	200	189,049	4,255	1,593,442	674,183	1,826,770	5,484,618
Increase		[2]41	13,685,615	206	310,699	519	317,698	86,356	1,509,152	2,482,279
Per cent of increase		[2]20.5	101.8	103.0	164.3	12.2	19.9	12.8	82.6	45.3
Shipbuilding	1900	1,116	77,362,701	1,407	2,008,537	46,781	24,839,163	3,685,661	33,486,772	74,578,158
	1890	1,006	27,262,892	1,123	1,194,870	22,143	13,083,949	1,392,551	16,521,246	38,065,410
Increase		110	50,099,809	284	813,667	24,638	11,755,214	2,293,110	16,965,526	36,512,748
Per cent of increase		10.9	183.8	25.3	68.1	111.3	89.8	164.7	102.7	95.9
Ship and boat building, wooden	1900	1,072	17,523,146	550	596,674	15,875	8,607,852	1,042,971	9,901,223	24,210,419
	1890	989	19,492,926	985	903,765	14,182	8,546,019	846,416	10,287,684	25,135,457
Increase		83	[2]1,969,780	[2]435	[2]307,091	1,693	61,833	196,555	[2]386,461	[2]925,038
Per cent of increase		8.4	[2]10.1	[2]44.2	[2]34.0	11.9	0.7	23.2	[2]3.8	[2]3.7
Shipbuilding, iron and steel	1900	44	59,839,555	857	1,411,863	30,906	16,231,811	2,642,690	23,585,549	50,367,739
	1890	17	7,769,966	138	291,105	7,961	4,537,930	546,135	6,233,562	12,929,953
Increase		27	52,069,589	719	1,120,758	22,945	11,693,881	2,096,455	17,351,987	37,437,786
Per cent of increase		158.8	670.1	521.0	385.0	288.2	257.7	383.9	278.4	289.5

[1] Includes statistics for 57 establishments engaged in the manufacture of tin and terne plate. (See Table 5.)
[2] Decrease.

TABLE 4.—COMPARATIVE SUMMARY, SELECTED INDUSTRIES, 1890 AND 1900—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Number.	Salaries.	Average number.	Total wages.			
Silk and silk goods	1900	483	$81,082,201	2,657	$3,134,352	65,416	$20,982,194	$10,264,208	$62,406,665	$107,256,258
	1890	472	51,007,537	1,531	1,917,877	49,382	17,762,441	4,259,623	51,004,425	87,298,454
Increase		11	30,074,664	1,126	1,216,475	16,034	3,219,753	6,004,585	11,402,240	19,957,804
Per cent of increase		2.3	59.0	73.5	63.4	32.5	18.1	141.0	22.4	22.9
Slaughtering	1900	921	189,198,264	10,227	10,123,247	68,534	33,457,013	24,060,412	683,583,577	736,603,670
	1890	1,118	116,887,504	3,971	4,536,600	43,975	24,304,976	15,716,735	480,962,211	561,611,668
Increase		[1] 197	72,310,760	6,256	5,586,647	24,559	9,152,037	8,343,677	202,621,366	224,992,002
Per cent of increase		[1] 17.6	61.9	157.5	123.1	55.8	37.7	53.1	42.1	40.1
Slaughtering and meat packing, wholesale.	1900	573	174,094,697	9,658	9,472,653	64,783	31,079,715	22,684,837	606,171,587	699,247,785
	1890	611	98,190,766	2,907	3,187,072	37,502	20,304,029	13,200,585	366,993,662	433,252,315
Increase		[1] 38	75,903,931	6,751	6,285,581	27,281	10,775,686	9,484,252	239,177,925	265,995,470
Per cent of increase		[1] 6.2	77.3	232.2	197.2	72.7	53.1	71.8	65.2	61.4
Slaughtering, wholesale, not including meat packing.	1900	348	15,103,567	569	650,594	3,751	2,377,298	1,375,575	77,411,990	87,355,885
	1890	507	18,696,738	1,064	1,349,528	6,473	4,000,947	2,516,150	113,968,549	128,359,353
Increase		[1] 159	[1] 3,593,171	[1] 495	[1] 698,934	[1] 2,722	[1] 1,623,649	[1] 1,140,575	[1] 36,556,559	[1] 41,003,468
Per cent of increase		[1] 31.4	[1] 19.2	[1] 46.5	[1] 51.8	[1] 42.1	[1] 40.6	[1] 45.3	[1] 32.1	[1] 31.9
Turpentine and rosin	1900	1,503	11,847,495	1,889	778,694	41,864	8,393,483	476,171	6,186,492	20,344,888
	1890	670	4,062,375	49	26,944	15,266	2,906,547	178,662	2,874,693	8,077,379
Increase		833	7,785,120	1,840	751,750	26,598	5,486,936	297,509	3,311,799	12,267,509
Per cent of increase		124.3	191.6	3,755.1	2,790.0	174.2	188.8	166.5	115.2	151.9
Wool manufactures, not including fur hats and wool pulling.	[2] 1900	2,465	398,374,405	7,488	9,819,008	245,141	83,379,998	24,324,985	237,291,546	400,093,833
	1890	2,583	300,248,544	5,417	5,892,331	216,014	71,624,993	19,487,602	209,098,607	345,655,524
Increase		[1] 118	98,125,861	2,071	3,926,677	29,127	11,755,005	4,837,383	28,192,939	54,438,309
Per cent of increase		[1] 4.6	32.7	38.2	66.6	13.5	16.4	24.8	13.5	15.7
Woolen goods	1900	1,036	126,169,862	2,271	2,977,091	69,350	24,964,282	7,323,489	72,227,104	120,038,792
	1890	1,311	130,989,940	2,436	3,339,737	76,915	26,139,194	8,402,628	82,270,335	133,577,977
Increase		275	4,820,078	165	637,354	[1] 7,565	[1] 1,174,912	[1] 1,079,134	[1] 10,043,231	[1] 13,539,185
Per cent of increase		[1] 21.0	[1] 3.7	[1] 6.8	27.2	[1] 9.8	[1] 4.5	[1] 12.8	[1] 12.2	[1] 10.1
Worsted goods	1900	185	130,384,510	1,344	2,299,175	56,551	19,885,462	6,712,756	75,851,616	118,705,710
	1890	143	68,085,116	615	935,217	42,978	14,944,966	4,917,760	50,706,769	79,194,652
Increase		42	62,299,394	729	1,363,958	13,573	4,940,496	1,794,996	25,144,847	39,511,058
Per cent of increase		29.4	91.5	118.5	145.8	31.6	33.1	36.5	49.6	49.9
Hosiery and knit goods	1900	921	81,860,604	2,809	3,124,798	83,387	24,358,627	6,599,865	51,071,859	95,482,566
	1890	796	50,607,738	1,621	1,685,153	59,588	16,578,119	3,627,245	35,861,585	67,241,013
Increase		125	31,252,866	1,188	1,439,645	23,799	7,780,508	2,972,620	15,210,274	28,241,553
Per cent of increase		15.7	61.8	73.3	85.4	39.9	46.9	82.0	42.4	42.0
Carpets and rugs, other than rag	1900	133	44,449,299	687	881,398	28,411	11,121,383	2,751,879	27,228,719	48,192,351
	1890	173	38,208,842	385	510,857	28,736	11,122,259	1,819,441	28,644,905	47,770,193
Increase		[1] 40	6,240,457	302	370,539	[1] 325	[1] 876	932,438	[1] 1,416,186	422,158
Per cent of increase		[1] 23.1	16.3	78.4	72.5	[1] 1.1	0.0	51.2	[1] 4.9	0.9
Felt goods	1900	36	7,125,276	136	231,065	2,688	1,024,835	356,164	3,801,028	6,461,691
	1890	34	4,460,621	124	157,916	2,142	883,380	232,871	2,809,937	4,654,768
Increase		2	2,664,655	12	73,149	546	141,455	123,293	991,091	1,806,923
Per cent of increase		5.9	59.7	9.7	46.3	25.5	16.0	52.9	35.3	38.8
Wool hats	1900	24	2,050,802	57	66,766	2,108	937,855	185,644	2,042,202	3,591,940
	1890	32	4,142,224	92	113,968	3,500	1,249,976	249,568	2,802,041	5,329,921
Increase		[1] 8	[1] 2,091,422	[1] 35	[1] 47,202	[1] 1,392	[1] 312,121	[1] 63,924	[1] 759,839	[1] 1,737,981
Per cent of increase		[1] 25.0	[1] 50.5	[1] 38.0	[1] 41.4	[1] 39.8	[1] 25.0	[1] 25.6	[1] 27.1	[1] 32.6
Shoddy	1900	105	5,272,929	139	166,704	1,926	748,948	293,149	4,875,192	6,730,974
	1890	94	3,754,063	144	149,483	2,155	707,099	238,094	6,003,035	7,887,000
Increase		11	1,518,866	[1] 5	17,221	[1] 229	41,849	55,055	[1] 1,127,843	[1] 1,156,026
Per cent of increase		11.7	40.5	[1] 3.5	11.5	[1] 10.6	5.9	23.1	[1] 18.8	[1] 14.7

[1] Decrease.
[2] Includes statistics for 25 establishments engaged in wool scouring. (See Table 5.)

TABLE 5.—TOTALS FOR SELECTED INDUSTRIES: 1900.

INDUSTRIES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
			Number.	Salaries.	Average number.	Total wages.			
Aggregate for selected industries	118,017	$5,616,515,569	158,719	$172,838,620	2,355,174	$999,935,946	$481,201,888	$4,044,059,827	$6,516,255,385
Textiles	4,609	1,066,032,937	17,732	24,471,875	682,978	219,229,265	64,934,841	539,919,428	966,924,835
Wool manufactures	2,636	415,075,713	8,214	10,763,006	264,021	92,499,262	25,741,722	250,805,214	427,905,020
Woolen goods	1,036	126,169,862	2,271	2,977,091	69,350	24,964,282	7,323,489	72,227,104	120,038,792
Worsted goods	185	130,384,510	1,344	2,299,175	56,551	19,885,462	6,712,756	75,851,616	118,705,710
Hosiery and knit goods	921	81,860,604	2,809	3,124,798	83,387	24,358,627	6,599,865	51,071,859	95,482,566
Carpets and rugs, other than rag	133	44,449,299	687	881,398	28,411	11,121,383	2,751,879	27,228,719	48,192,351
Fur hats	171	16,701,308	726	943,998	18,880	9,119,264	1,416,737	13,513,663	27,811,187
Shoddy	105	5,272,929	139	166,704	1,926	748,948	293,149	4,875,192	6,730,974
Felt goods	36	7,125,276	136	231,065	2,688	1,024,835	356,164	3,801,028	6,461,691
Wool hats	24	2,050,802	57	66,766	2,108	937,855	185,644	2,042,202	3,591,940
Wool scouring	25	1,061,123	45	72,011	720	338,606	102,039	193,826	889,809
Cotton manufactures	1,051	467,240,157	4,902	7,350,199	302,861	86,689,752	22,112,678	176,551,527	339,198,619
Cotton goods	969	460,842,772	4,713	7,123,574	297,929	85,126,310	21,650,144	173,441,390	332,804,455
Cotton small wares	82	6,397,385	189	226,625	4,932	1,563,442	462,534	3,110,137	6,394,164

TABLE 5.—TOTALS FOR SELECTED INDUSTRIES: 1900—Continued.

INDUSTRIES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
			Number.	Salaries.	Average number.	Total wages.			
Textiles—Continued.									
Silk and silk goods	483	$81,082,201	2,657	$3,134,352	65,416	$20,982,194	$10,264,208	$62,406,665	$107,256,258
Dyeing and finishing textiles	298	60,643,104	1,318	2,267,128	29,776	12,726,316	4,137,947	17,958,137	44,963,331
Cordage and twine	105	29,275,470	436	666,936	13,114	4,113,112	1,716,205	26,682,006	37,849,651
Jute and jute goods	18	7,027,298	88	147,313	4,507	1,181,790	574,986	3,015,362	5,383,797
Linen goods	18	5,688,999	117	142,941	3,288	1,036,839	387,095	2,550,517	4,368,159
Iron and steel	725	580,041,710	9,544	12,028,811	226,161	122,710,193	32,510,556	549,127,082	835,759,034
Rolling mills and steel works	438	429,960,048	7,442	9,421,868	183,023	102,238,692	24,795,663	390,568,117	596,588,034
Blast furnaces	228	148,159,232	1,757	2,304,120	39,241	18,484,400	7,463,284	131,503,655	206,756,557
Tin and terne plate	57	6,650,047	333	291,323	3,671	1,889,917	236,456	26,728,150	31,892,011
Forges and bloomeries	7	272,388	12	11,500	226	97,184	15,203	327,160	522,432
Slaughtering	921	189,198,264	10,227	10,123,247	68,534	33,457,013	24,060,412	683,583,577	786,603,670
Slaughtering and meat packing, wholesale	573	174,094,697	9,658	9,472,653	64,783	31,079,715	22,684,837	606,171,587	699,247,785
Slaughtering, not including meat packing	348	15,103,567	569	650,594	3,751	2,377,298	1,375,575	77,411,990	87,355,885
Lumber and timber products	38,085	611,611,524	12,530	11,260,608	283,260	104,640,591	17,731,519	317,923,548	566,832,984
Flouring and grist mill products	25,258	218,714,104	5,790	5,404,750	37,073	17,703,418	10,825,588	475,826,345	560,719,063
Smelting and refining	117	139,354,138	1,121	2,150,018	24,504	15,973,626	3,088,007	279,655,350	358,786,472
Lead, smelting and refining	39	72,148,933	425	754,913	8,311	5,088,684	1,166,210	144,195,163	175,466,304
Copper, smelting and refining	47	53,063,395	488	954,905	11,324	8,529,021	1,522,325	122,174,129	165,131,670
Zinc, smelting and refining	31	14,141,810	208	440,200	4,869	2,355,921	399,472	13,286,058	18,188,498
Liquors	2,850	457,674,087	8,158	14,301,644	44,417	28,005,484	183,099,796	70,512,042	340,615,466
Liquors, malt	1,524	415,284,468	7,153	13,046,540	39,582	25,826,211	109,829,231	51,674,928	237,269,713
Liquors, distilled	967	32,551,604	661	889,606	3,722	1,733,218	73,218,227	15,147,784	96,798,443
Liquors, vinous	359	9,838,015	344	365,498	1,163	446,055	552,338	3,689,330	6,547,310
Boots and shoes, factory product	1,600	101,795,233	7,843	7,757,749	142,922	59,175,883	10,766,402	169,604,054	261,028,580
Printing and publishing, newspapers and periodicals	15,305	192,443,708	27,579	27,015,791	94,604	50,333,051	38,544,642	50,214,904	222,983,569
Cars and general shop construction and repairs by steam railroad companies	1,296	119,580,273	7,096	6,210,247	173,652	96,062,329	6,293,987	109,539,013	218,238,277
Leather, tanned, curried, and finished	1,306	173,977,421	2,442	3,158,842	52,109	22,591,091	7,023,416	155,603,004	204,038,127
Chemical manufactures	1,740	238,529,641	8,605	11,340,385	46,765	21,799,251	14,825,112	124,048,837	202,582,396
Chemicals	459	89,091,430	2,123	2,923,083	19,054	9,401,467	4,863,868	34,564,137	62,676,730
Paints	419	42,501,782	2,512	3,077,318	8,151	3,929,787	3,430,061	33,799,386	50,874,995
Fertilizers	422	60,685,753	1,712	2,124,972	11,581	4,185,239	3,734,285	28,958,473	44,657,385
Varnish	181	17,550,892	1,198	1,939,333	1,546	995,803	1,616,642	10,939,131	18,687,240
Explosives	97	19,465,846	768	914,447	4,501	2,383,756	1,096,604	10,334,974	17,125,418
Dye stuffs and extracts	77	7,839,034	229	312,109	1,648	737,942	458,212	4,745,912	7,350,748
Oil, essential	70	612,657	42	25,523	199	69,100	49,762	596,112	850,093
Bone, ivory, and lamp black	15	782,247	21	23,650	85	46,107	75,678	105,712	359,787
Cheese, butter, and condensed milk	9,351	36,491,799	2,826	915,067	12,860	6,169,060	1,590,518	109,139,801	131,183,338
Cheese, butter, and condensed milk, factory product	9,242	36,288,748	2,816	911,337	12,794	6,143,951	1,574,633	108,831,167	130,769,490
Cheese and butter, urban dairy products	109	203,051	10	3,730	66	25,109	15,885	308,634	413,848
Paper and wood pulp	763	167,507,713	2,935	4,500,911	49,646	20,746,426	10,184,106	70,530,236	127,286,162
Petroleum, refining	67	95,327,892	1,201	1,811,400	12,199	6,717,087	3,830,851	102,859,341	123,929,384
Carriages and wagons	7,632	118,187,838	4,311	4,073,932	62,540	29,814,911	6,261,469	56,676,073	121,537,276
Agricultural implements	715	157,707,951	10,046	8,363,210	46,582	22,450,880	11,394,656	43,944,628	101,207,428
Clay products	6,422	147,913,323	5,200	5,031,295	105,618	39,534,070	6,839,840	22,903,184	95,443,862
Brick and tile	5,422	81,961,438	2,423	2,019,783	61,904	21,842,333	3,579,119	10,987,948	51,180,476
Pottery, terra cotta, and fire-clay products	1,000	65,951,885	2,777	3,011,512	43,714	17,691,737	3,260,721	11,915,236	44,263,386
Gas, illuminating and heating	877	567,000,506	5,904	5,273,500	22,459	12,436,296	14,769,022	20,605,356	75,716,693
Shipbuilding	1,116	77,362,701	1,407	2,008,537	46,781	24,839,163	3,685,661	33,486,772	74,578,158
Shipbuilding, iron and steel	44	59,839,555	857	1,411,863	30,906	16,231,317	2,642,690	23,585,549	50,367,739
Ship and boat building, wooden	1,072	17,523,146	550	596,674	15,875	8,607,852	1,042,971	9,901,223	24,210,419
Glass	355	61,423,903	2,268	2,792,376	52,818	26,529,748	3,588,641	16,731,009	56,539,712
Coke	241	36,502,679	915	797,296	16,999	7,085,736	2,184,968	19,665,532	35,585,445
Turpentine and rosin	1,503	11,847,495	1,889	778,694	41,864	8,393,483	476,171	6,186,492	20,344,888
Oleomargarine	24	3,023,646	394	412,012	1,085	534,544	2,489,784	7,639,501	12,499,812
Salt	159	27,123,364	406	499,748	4,774	1,911,140	760,539	3,335,922	7,966,897
Sugar and molasses, beet	30	20,141,719	350	356,675	1,970	1,092,207	441,384	4,803,796	7,323,857

TABLE 6.—MANUFACTURES IN THE UNITED STATES

	STATES AND TERRITORIES.	Year.	Number of establishments.	CAPITAL. Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC. Number.	Salaries.
1	United States	1900	512,726	$9,874,664,087	$1,030,190,003	$1,456,983,130	$2,559,766,383	$4,827,724,571	573,068	397,780	$404,837,591
		1890	355,415	6,525,156,486	775,586,849	878,570,737	1,584,276,390	3,286,722,510	(1)	461,009	391,988,208
2	Alabama	1900	5,602	70,370,081	10,021,049	14,957,424	24,159,595	21,232,013	6,744	2,580	2,168,671
		1890	2,977	46,122,571	6,222,432	6,487,089	21,128,468	12,284,587		2,684	1,876,282
3	Alaska	1900	63	3,600,409	84,860	1,092,209	2,033,605	389,735	42	82	117,480
		1890	10	105,727	4,250	26,350	66,103	9,024		8	3,548
4	Arizona	1900	314	10,157,408	643,443	1,471,612	1,476,596	6,565,757	311	210	267,510
		1890	76	616,629	24,120	76,240	282,930	233,339		70	55,981
5	Arkansas	1900	4,794	35,960,640	8,164,629	3,681,258	12,444,494	11,670,259	5,751	1,649	1,251,096
		1890	2,073	14,971,614	2,707,958	1,782,609	5,957,669	4,523,378		1,829	1,100,702
6	California	1900	12,582	205,395,025	34,735,416	22,562,385	62,440,759	85,656,465	14,224	7,884	8,360,829
		1890	7,928	146,797,102	21,352,258	15,898,565	42,753,788	66,792,498		10,946	10,365,862
7	Colorado	1900	3,570	62,825,472	5,796,070	15,977,672	21,494,888	19,556,842	3,667	2,052	2,272,480
		1890	1,518	26,651,840	3,628,703	3,065,498	8,217,556	11,740,083		2,051	2,413,829
8	Connecticut	1900	9,128	314,696,736	19,208,863	47,663,187	80,177,430	167,647,256	9,381	9,931	12,286,050
		1890	6,822	227,004,496	14,781,994	34,495,124	52,180,881	125,546,497		9,425	9,525,289
9	Delaware	1900	1,417	41,203,239	4,164,048	6,644,406	11,540,663	18,854,122	1,510	1,327	1,422,831
		1890	1,003	33,695,400	3,494,802	5,394,517	7,818,289	16,987,792		1,427	1,261,912
10	District of Columbia	1900	2,754	41,981,245	5,887,958	9,043,349	15,738,779	11,311,159	3,024	2,083	1,833,437
		1890	2,295	23,865,089	5,438,756	5,396,278	8,543,897	9,486,158		2,998	2,358,122
11	Florida	1900	2,056	33,107,477	10,795,140	2,892,701	7,298,569	12,121,067	2,476	1,778	1,295,139
		1890	805	11,110,304	2,435,136	1,079,512	3,762,472	3,833,184		808	594,454
12	Georgia	1900	7,504	89,789,656	10,992,824	13,290,214	32,830,482	32,676,136	8,828	4,203	3,354,946
		1890	4,285	56,921,580	8,034,507	9,072,266	19,031,192	20,783,615		4,085	2,688,206
13	Hawaii	1900	395	11,541,655	190,503	1,693,344	7,579,378	2,078,430	458	574	622,564
		1890									
14	Idaho	1900	591	2,941,524	415,267	543,724	950,625	1,031,908	669	97	70,786
		1890	140	1,048,916	80,500	146,108	389,892	432,356		107	68,295
15	Illinois	1900	38,360	776,829,598	80,855,805	114,760,460	206,242,775	374,970,558	41,191	44,342	48,337,464
		1890	20,482	502,004,512	61,986,313	68,754,214	106,084,493	265,179,492		31,980	28,650,814
16	Indiana	1900	18,015	234,481,528	19,404,624	38,642,214	65,046,726	111,387,964	20,322	11,282	10,526,298
		1890	12,354	131,605,366	11,327,139	20,252,707	31,043,355	68,982,165		13,759	9,172,718
17	Indian Territory	1900	789	2,624,265	71,818	555,365	1,322,040	675,047	967	135	86,067
		1890	20	201,329	5,800	27,400	114,549	56,580		8	6,608
18	Iowa	1900	14,819	102,733,103	11,701,330	18,554,185	26,150,011	46,327,577	16,619	5,664	4,486,117
		1890	7,440	77,513,097	10,322,103	11,375,796	17,303,454	38,511,744		8,137	5,449,377
19	Kansas	1900	7,830	66,827,362	5,683,636	15,503,097	17,298,921	28,341,708	8,872	3,860	3,256,086
		1890	4,471	43,926,002	4,716,800	8,734,553	10,462,237	20,012,912		4,606	3,040,310
20	Kentucky	1900	9,560	104,070,791	10,493,135	15,603,906	25,424,506	52,549,244	11,233	5,679	4,687,441
		1890	7,745	79,811,980	7,468,633	12,127,764	17,115,724	43,099,859		9,021	6,434,915
21	Louisiana	1900	4,350	113,084,294	12,795,630	14,661,469	41,421,587	44,205,608	4,761	3,944	3,090,185
		1890	2,613	34,754,121	4,882,106	4,764,183	11,329,783	13,778,049		3,524	3,036,995
22	Maine	1900	6,702	122,918,826	13,105,141	18,161,515	31,770,449	59,881,721	7,501	3,329	3,171,433
		1890	5,010	80,419,809	7,198,639	12,039,040	21,945,499	39,236,631		5,406	3,563,635
23	Maryland	1900	9,879	163,147,260	14,069,288	31,635,566	29,203,714	88,238,692	11,123	7,585	7,380,263
		1890	7,485	119,667,316	13,565,147	17,703,369	26,936,483	61,462,317		9,246	7,085,418
24	Massachusetts	1900	29,180	823,264,287	57,284,347	116,410,327	201,933,253	447,636,360	31,925	27,860	31,257,630
		1890	26,923	630,032,341	40,926,844	83,906,371	149,948,630	355,250,496		37,912	33,826,172
25	Michigan	1900	16,807	284,097,133	42,830,900	35,243,987	68,117,259	137,904,987	18,680	13,858	12,562,855
		1890	12,127	262,412,240	61,557,730	24,269,785	49,840,036	126,744,689		15,267	11,364,892
26	Minnesota	1900	11,114	165,832,246	29,548,954	19,850,136	37,953,943	78,479,213	12,253	7,319	6,554,424
		1890	7,505	127,686,618	27,332,889	12,567,605	25,476,978	62,309,146		9,839	7,818,116
27	Mississippi	1900	4,772	35,807,419	8,671,109	4,498,156	13,077,469	9,560,685	5,395	1,569	1,167,020
		1890	1,698	14,896,884	2,006,782	2,447,028	5,535,904	4,907,170		1,352	722,109
28	Missouri	1900	18,754	249,888,581	26,757,573	36,748,766	70,040,656	116,341,586	20,659	13,900	14,569,606
		1890	14,052	189,558,546	21,388,383	25,190,728	40,076,746	102,902,689		18,936	16,773,935
29	Montana	1900	1,080	40,945,846	1,631,077	12,530,993	6,455,511	20,328,265	1,152	563	837,971
		1890	289	4,293,794	561,265	689,165	1,197,883	1,845,481		310	295,800
30	Nebraska	1900	5,414	71,982,127	6,359,075	15,822,336	23,201,558	26,599,163	5,942	2,657	2,325,038
		1890	3,014	37,569,508	4,668,810	7,465,566	8,281,782	17,153,350		3,426	2,713,093
31	Nevada	1900	228	1,472,784	121,968	336,683	446,412	567,721	247	39	37,560
		1890	95	1,211,269	203,410	194,123	296,977	516,759		62	68,968
32	New Hampshire	1900	4,671	100,929,661	10,108,063	14,411,744	25,919,073	50,490,781	5,127	2,193	2,290,210
		1890	3,229	79,375,160	8,392,436	10,884,979	21,933,519	38,164,226		3,250	2,320,764

[1] Included with salaried officials, clerks, etc., in 1890.

BY STATES AND TERRITORIES: 1890 AND 1900.

Average number of wage-earners and total wages.								Miscellaneous expenses.	Cost of materials used.	Products, including custom work and repairing.		Population.		
Total.		Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.								
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Average number.	Wages.			Value.	Rank.	Total.	Rank.	
5,321,087	$2,330,273,021	4,120,716	$2,022,899,275	1,031,747	$281,705,586	168,624	$25,668,160	$1,028,855,586	$7,360,954,597	$13,040,013,638	-------	76,303,387	-------	1
4,251,613	1,891,228,821	3,327,042	1,659,234,483	803,686	215,367,976	120,885	16,625,862	631,225,035	5,162,044,076	9,372,437,283	-------	62,622,250	-------	
52,902	15,130,419	45,530	14,073,456	3,898	704,099	3,474	352,864	3,828,402	44,098,671	80,741,449	30	1,828,697	18	2
31,137	10,799,747	27,848	10,231,041	1,864	416,610	1,425	152,096	2,797,896	28,432,281	51,226,605	27	1,513,017	17	
2,263	1,395,709	2,262	1,395,304	1	405	-------	-------	170,334	1,785,776	4,250,984	49	63,592	51	3
78	18,625	78	18,625	-------	-------	-------	-------	5,252	30,198	58,440	51	-------	-------	
3,266	2,369,065	3,186	2,345,813	42	15,394	38	7,858	433,272	8,464,410	21,315,189	42	122,931	49	4
458	302,146	440	296,929	9	4,435	9	782	49,231	353,814	947,547	48	59,620	48	
26,501	8,686,291	25,158	8,424,011	700	159,820	643	102,460	1,482,779	23,963,768	45,197,731	38	1,311,564	25	5
14,143	4,649,186	13,277	4,515,560	463	92,383	403	41,243	1,035,107	12,397,261	22,659,179	37	1,128,179	24	
91,047	47,425,947	71,648	42,229,366	17,285	4,814,498	2,114	382,083	16,190,282	188,125,602	302,874,761	12	1,485,053	21	6
72,696	41,172,918	59,065	37,588,772	11,774	3,289,042	1,857	295,104	12,984,191	120,243,683	213,403,996	12	1,208,130	22	
24,725	15,146,667	22,588	14,425,442	1,894	671,539	243	49,686	4,169,635	66,886,016	102,830,137	27	539,700	31	7
15,016	9,872,405	13,521	9,309,281	1,223	512,263	272	50,861	1,948,025	20,848,516	42,480,205	28	412,198	31	
176,694	82,767,725	130,610	69,227,497	42,605	12,873,190	3,479	667,038	23,089,806	185,641,219	352,824,106	11	908,420	29	8
140,514	66,465,317	101,318	55,223,273	36,111	10,697,893	3,085	544,151	15,399,101	123,183,080	248,336,364	10	746,258	29	
22,203	9,259,661	17,765	8,374,023	3,579	754,726	859	130,912	2,155,948	26,652,601	45,387,630	37	184,735	46	9
20,479	8,630,475	16,219	8,002,849	2,890	476,344	1,370	151,282	1,851,575	21,161,752	37,571,848	35	168,493	42	
24,693	14,643,714	20,415	12,449,136	4,162	2,176,195	116	18,383	4,433,652	19,369,571	47,667,622	35	278,718	42	10
20,406	12,264,142	17,114	10,724,792	3,159	1,516,240	133	23,110	1,589,869	17,194,666	39,331,437	32	230,392	39	
34,230	10,683,088	32,188	10,181,990	1,668	455,906	374	45,142	2,363,626	15,637,520	36,810,243	40	528,542	32	11
13,119	5,918,614	11,539	5,462,984	1,312	424,555	268	31,075	1,131,067	8,021,854	18,222,890	39	391,422	32	
83,842	20,290,071	66,540	17,582,519	10,929	2,015,852	6,373	691,700	5,321,330	58,232,202	106,654,527	26	2,216,331	11	12
52,298	14,628,996	42,779	12,976,291	5,998	1,298,806	3,521	348,899	4,019,539	35,774,480	68,917,020	25	1,887,353	12	
4,587	1,886,756	4,396	1,856,336	151	24,692	40	5,728	873,300	12,848,663	24,992,068	41	154,001	48	13
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1,477	862,088	1,395	841,755	59	18,160	23	2,173	142,596	2,055,368	4,020,532	50	161,772	47	14
667	255,907	629	250,262	21	3,835	17	1,810	69,586	638,673	1,396,096	46	84,385	45	
395,110	191,510,962	325,713	172,659,499	58,978	16,964,974	10,419	1,886,489	130,876,318	739,754,414	1,259,571,105	3	4,821,550	3	15
280,218	142,873,205	241,882	132,596,470	32,910	9,492,151	5,426	784,644	79,515,193	529,019,089	908,640,280	3	3,326,351	3	
155,956	66,847,317	133,009	62,054,517	19,266	4,181,375	3,681	611,425	33,052,160	214,961,610	378,120,140	8	2,516,462	8	16
110,590	42,577,258	94,960	39,730,049	12,315	2,438,287	3,315	408,922	16,500,903	130,119,106	226,825,082	11	2,192,404	8	
1,714	553,899	1,625	534,798	73	17,299	16	1,802	163,174	2,225,730	3,892,181	51	392,060	39	17
167	73,222	157	71,864	3	784	7	574	11,590	127,864	248,932	49	-------	-------	
58,553	23,931,680	48,417	21,893,983	8,248	1,766,858	1,888	270,839	7,988,767	101,170,357	164,617,877	17	2,231,853	10	18
51,037	20,429,620	44,210	19,232,655	5,183	999,806	1,644	197,159	5,732,206	79,292,407	125,049,183	17	1,911,896	10	
35,193	16,317,689	31,171	15,444,390	3,162	743,886	860	129,413	5,241,450	129,485,320	172,129,398	16	1,470,495	22	19
28,237	13,288,175	24,846	12,727,955	2,510	484,521	881	75,699	5,853,466	78,845,167	110,219,805	18	1,427,096	19	
62,962	22,434,185	51,101	20,216,990	9,174	1,887,904	2,687	329,291	19,531,630	82,773,415	154,605,115	18	2,147,174	12	20
56,558	21,326,831	46,015	19,212,477	8,280	1,850,514	2,263	263,840	15,879,728	63,677,583	126,719,857	16	1,858,635	11	
42,210	15,385,715	35,531	14,122,777	5,448	1,112,812	1,231	150,126	7,999,870	82,299,803	121,181,683	22	1,381,625	23	21
28,377	10,122,569	20,967	8,868,867	6,798	1,183,229	612	70,473	3,760,753	33,282,724	57,806,713	26	1,118,587	25	
74,816	28,527,849	53,701	23,384,835	18,913	4,835,171	2,202	307,843	7,774,216	68,863,408	127,361,485	21	694,466	30	22
70,374	22,962,582	46,881	17,827,273	21,051	4,891,060	2,442	244,249	5,394,694	51,520,589	95,689,600	19	661,086	30	
108,325	38,748,551	72,824	31,872,361	29,617	6,112,187	5,884	764,003	17,209,623	144,397,680	242,552,990	14	1,188,044	26	23
97,808	34,441,414	67,261	29,049,820	26,482	5,009,548	4,115	382,046	10,616,347	92,059,390	171,842,593	14	1,042,390	27	
497,448	228,040,442	341,783	179,955,824	143,109	45,630,890	12,556	2,453,728	73,209,015	553,320,955	1,035,198,989	4	2,805,346	7	24
447,270	205,844,337	305,151	163,726,542	133,452	40,647,480	8,667	1,470,315	63,083,782	473,199,434	888,160,403	4	2,238,943	6	
162,355	66,467,867	136,627	60,835,081	23,092	5,239,149	2,636	393,637	25,495,423	199,559,905	356,944,082	10	2,420,982	9	25
148,674	54,982,906	133,176	51,932,652	12,857	2,720,453	2,641	329,801	18,348,381	154,521,918	277,896,706	8	2,093,889	9	
77,234	35,484,825	66,889	32,905,947	9,553	2,451,400	792	127,478	13,273,648	173,425,615	262,655,881	13	1,751,394	19	26
69,790	30,371,123	63,522	28,689,503	5,508	1,583,443	760	98,172	12,136,612	118,481,941	192,033,478	13	1,301,826	20	
26,418	7,471,886	23,643	7,035,534	1,726	314,013	1,049	122,339	1,476,855	21,692,092	40,431,386	39	1,551,270	20	27
14,465	4,191,754	12,320	3,838,250	1,236	261,526	909	91,978	827,627	10,064,897	18,705,834	38	1,289,600	21	
134,975	60,719,428	106,782	53,921,296	23,683	6,041,960	4,510	756,172	41,396,905	214,988,018	385,492,784	7	3,106,665	5	28
124,203	59,643,429	102,418	54,527,944	18,294	4,603,128	3,491	512,357	22,885,565	177,582,382	324,561,993	7	2,679,184	5	
10,117	7,969,886	9,718	7,839,261	287	100,233	112	30,392	1,668,487	32,702,650	57,075,824	34	243,329	44	29
2,386	1,652,413	2,300	1,605,996	75	43,809	11	2,608	296,684	2,375,093	5,507,573	42	132,159	44	
24,461	11,570,688	21,059	10,749,706	2,626	676,278	776	144,704	6,935,399	102,197,707	143,990,102	19	1,066,300	27	30
20,450	10,271,478	18,263	9,807,631	1,473	376,960	714	86,887	5,395,242	67,334,532	93,037,794	20	1,058,910	26	
601	416,732	563	408,424	18	5,431	20	2,877	68,457	826,138	1,643,675	52	42,335	52	31
558	376,535	543	373,589	14	2,826	1	120	53,869	439,058	1,105,063	47	45,761	49	
70,419	27,620,247	46,847	20,704,590	21,921	6,584,156	1,651	331,501	6,356,131	66,348,594	118,669,308	24	411,588	36	32
60,111	21,927,290	37,509	15,706,723	20,933	5,973,349	1,669	247,218	4,363,192	47,754,152	85,770,549	22	376,530	33	

TABLE 6.—MANUFACTURES IN THE UNITED STATES

	STATES AND TERRITORIES.	Year.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.	
				Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.
33	New Jersey	1900	15,481	$502,824,082	$42,539,846	$76,227,514	$135,371,296	$248,685,426	16,438	16,283	$19,688,946
		1890	9,225	260,805,745	26,057,714	40,777,779	61,807,978	122,162,279	----------	13,620	13,834,618
34	New Mexico	1900	420	2,698,786	280,955	474,503	1,115,832	827,496	458	95	95,792
		1890	127	965,938	60,507	185,295	471,948	248,188	----------	95	62,366
35	New York	1900	78,659	1,679,906,515	175,260,215	217,011,426	387,421,432	900,213,442	88,757	74,482	82,077,648
		1890	65,840	1,180,161,195	120,861,115	141,542,405	270,350,446	597,407,229	----------	98,018	96,466,083
36	North Carolina	1900	7,226	76,503,894	8,135,807	11,156,157	28,531,456	28,680,474	8,473	3,001	2,434,621
		1890	3,667	32,745,995	3,780,403	4,932,861	11,576,508	12,506,223	----------	2,589	1,278,415
37	North Dakota	1900	1,130	5,396,490	424,263	987,165	1,634,964	2,350,098	1,252	168	141,432
		1890	382	2,894,553	201,160	498,520	943,450	1,251,423	----------	348	243,749
38	Ohio	1900	32,398	605,762,566	49,629,109	94,493,965	158,986,928	302,652,564	36,624	30,003	29,351,045
		1890	28,673	402,793,019	38,125,149	58,206,728	86,202,120	220,169,022	----------	38,566	30,321,084
39	Oklahoma	1900	870	3,352,064	349,609	632,837	1,329,784	1,039,834	999	202	159,554
		1890	72	95,519	13,412	8,410	51,114	22,583	----------	48	19,592
40	Oregon	1900	3,088	33,422,393	4,597,502	5,684,991	10,492,960	12,646,940	3,599	1,280	1,323,155
		1890	1,523	32,122,051	8,147,763	4,380,451	7,337,083	12,256,754	----------	2,038	1,975,495
41	Pennsylvania	1900	52,185	1,551,548,712	148,768,571	227,035,804	392,150,856	783,593,481	58,836	47,439	48,605,173
		1890	39,339	991,243,115	111,859,797	135,112,770	258,504,628	485,765,920	----------	50,169	42,215,788
42	Rhode Island	1900	4,189	183,784,587	13,467,509	30,713,220	49,418,315	90,185,543	4,536	4,433	5,552,189
		1890	3,377	126,483,401	8,980,688	19,294,199	39,738,605	58,469,909	----------	4,865	4,688,608
43	South Carolina	1900	3,762	67,356,465	3,448,643	11,867,770	26,096,931	25,943,121	4,088	1,525	1,327,052
		1890	2,382	29,276,261	2,981,486	5,591,670	9,644,578	11,058,527	----------	1,914	1,116,244
44	South Dakota	1900	1,639	7,578,895	621,370	1,559,102	2,352,329	3,046,094	1,732	311	184,233
		1890	499	3,207,796	322,855	512,142	1,329,023	1,043,776	----------	411	265,725
45	Tennessee	1900	8,007	71,182,966	7,832,537	12,372,961	20,177,607	30,799,861	9,814	3,653	3,244,100
		1890	4,559	51,475,092	6,441,558	7,263,689	16,190,443	21,579,402	----------	5,272	3,342,171
46	Texas	1900	12,289	90,433,882	12,880,367	15,154,506	34,198,170	28,200,839	14,074	3,560	3,229,075
		1890	5,268	46,815,181	8,495,546	6,090,177	15,765,884	16,463,574	----------	4,681	3,437,843
47	Utah	1900	1,400	14,650,948	1,907,868	2,895,819	5,217,298	4,629,963	1,530	740	566,165
		1890	531	6,583,022	1,281,296	838,690	1,483,059	2,979,977	----------	681	524,540
48	Vermont	1900	4,071	48,547,964	6,738,461	8,089,567	11,682,873	22,037,063	4,574	1,772	1,620,876
		1890	3,031	32,703,291	3,606,967	4,995,066	8,223,289	15,937,969	----------	2,775	1,668,990
49	Virginia	1900	8,248	103,670,988	12,697,782	17,211,750	26,965,985	46,795,471	9,421	4,198	3,846,072
		1890	5,915	63,456,799	7,041,581	9,572,702	18,348,110	28,494,406	----------	6,025	3,827,920
50	Washington	1900	3,631	52,649,760	10,504,214	5,842,640	15,563,736	21,239,170	4,106	2,242	2,164,024
		1890	1,543	34,309,735	9,133,392	3,643,086	8,766,916	12,826,341	----------	1,689	1,646,720
51	West Virginia	1900	4,418	55,904,238	6,853,767	8,242,458	16,790,585	24,017,428	5,084	1,857	1,570,797
		1890	2,376	28,118,030	3,615,607	4,138,734	8,710,179	11,653,510	----------	2,629	1,419,218
52	Wisconsin	1900	16,187	330,568,779	60,375,729	44,014,040	62,101,320	164,077,690	17,247	10,760	10,608,383
		1890	10,417	246,515,404	57,766,281	24,461,110	43,228,127	121,059,886	----------	12,025	8,885,441
53	Wyoming	1900	334	2,411,435	282,341	370,545	974,005	784,544	372	98	99,777
		1890	190	1,411,184	146,369	209,721	455,748	599,346	----------	122	91,477

BY STATES AND TERRITORIES: 1890 AND 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.								Miscellaneous expenses.	Cost of materials used.	PRODUCTS, INCLUDING CUSTOM WORK AND REPAIRING.		POPULATION.		
Total.		Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.				Value.	Rank.	Total.	Rank.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.	Average number.	Wages.							
241,582	$110,088,605	181,879	$94,463,105	51,661	$14,281,265	8,042	$1,344,235	$42,654,076	$960,945,843	$611,748,953	6	1,883,669	16	38
173,778	82,944,118	131,370	72,333,325	37,095	9,815,208	5,313	795,585	18,453,052	189,365,740	354,573,571	6	1,444,938	18	
2,600	1,350,586	2,499	1,327,072	72	18,369	29	5,145	204,337	2,914,138	5,605,795	47	195,310	45	34
849	470,361	818	461,105	16	6,934	15	2,322	76,638	691,420	1,516,195	45	153,593	43	
849,092	408,864,952	605,694	338,033,234	230,199	68,528,388	13,199	2,203,330	221,889,171	1,148,802,501	2,175,766,900	1	7,268,894	1	35
752,066	370,380,559	545,453	312,759,301	194,350	55,706,915	12,263	1,914,343	122,042,219	871,264,085	1,711,577,671	1	5,997,853	1	
70,570	13,868,430	44,549	10,477,765	15,644	2,394,417	10,377	996,248	9,118,637	53,072,388	94,919,668	28	1,893,810	15	36
33,625	6,552,121	22,665	5,260,422	6,227	908,857	4,733	382,842	3,329,101	22,789,187	40,375,450	31	1,617,947	16	
2,398	1,222,472	2,168	1,160,288	193	57,433	37	4,751	302,492	5,615,793	9,183,114	45	319,146	41	37
1,493	759,132	1,398	733,179	85	23,195	16	2,758	236,909	3,087,161	5,028,107	43	182,719	41	
345,869	153,955,330	237,789	140,364,129	58,711	12,883,284	4,369	707,917	69,728,206	447,525,677	832,438,113	5	4,157,545	4	38
292,982	128,447,799	244,900	118,158,916	41,531	9,286,497	6,551	1,002,386	45,062,325	341,016,464	641,683,064	5	3,672,316	4	
2,054	807,826	1,876	775,707	140	27,180	38	4,939	246,081	4,449,944	7,083,938	46	398,331	38	39
147	52,326	133	50,660	3	620	11	1,046	21,970	56,518	130,445	50	61,834	46	
17,236	8,333,433	15,120	7,830,594	1,821	452,939	295	49,900	2,242,795	26,099,855	46,000,587	36	413,536	35	40
16,760	9,559,784	15,754	9,232,608	806	294,496	200	32,630	2,108,668	21,793,578	41,432,174	30	313,767	38	
733,834	332,072,670	574,606	293,697,372	126,093	33,067,828	33,135	5,307,470	134,344,269	1,042,561,628	1,835,104,431	2	6,302,115	2	41
570,393	263,375,215	460,939	236,614,013	87,035	23,357,951	22,419	3,403,251	74,841,458	773,734,637	1,331,794,901	2	5,258,014	2	
93,813	41,114,084	64,508	31,295,442	29,269	8,909,010	5,036	909,632	12,199,283	96,392,720	184,074,378	15	428,556	34	42
81,111	33,239,313	49,684	24,915,189	25,602	7,397,979	5,825	926,145	8,825,407	76,253,023	142,500,625	15	345,506	35	
48,135	9,455,900	29,823	6,921,355	9,752	1,685,139	8,560	849,406	3,111,587	34,027,795	58,748,731	32	1,340,316	24	43
22,748	5,474,739	16,664	4,516,437	3,775	736,696	2,309	221,606	1,792,386	18,873,666	31,926,681	36	1,151,149	23	
3,121	1,544,409	2,776	1,471,626	231	55,263	114	17,520	471,528	7,827,110	12,231,239	44	401,570	37	44
2,011	832,693	1,846	795,676	129	33,344	36	3,673	268,214	3,523,840	5,682,748	41	328,808	37	
50,167	16,533,849	42,195	15,091,897	5,810	1,193,374	2,162	248,078	6,179,332	63,384,665	107,437,879	25	2,020,616	14	45
37,487	13,557,180	32,644	12,703,062	3,273	679,068	1,570	175,050	4,126,271	40,453,782	72,355,286	28	1,767,518	13	
48,152	20,552,355	44,198	19,669,733	2,918	737,363	1,041	145,259	6,144,924	67,102,769	119,414,982	23	3,048,710	6	46
34,794	15,148,495	31,845	14,524,346	1,977	502,291	972	121,858	3,594,940	36,152,308	70,433,551	24	2,235,523	7	
6,615	3,388,370	5,579	3,143,090	818	207,852	218	37,428	929,173	12,912,704	21,215,783	43	270,749	43	47
4,349	2,191,265	3,657	2,041,314	485	123,117	207	26,834	455,968	4,252,030	8,911,047	49	207,905	40	
29,455	12,237,684	24,714	11,027,185	4,478	1,166,491	263	44,008	3,482,448	29,882,744	57,646,715	38	343,641	40	48
22,119	8,427,553	18,985	7,587,075	2,745	784,156	389	56,322	2,188,826	20,433,174	38,840,066	34	332,422	36	
72,702	22,445,720	56,341	20,038,339	12,197	1,963,999	4,164	443,382	12,264,602	74,851,757	132,937,910	20	1,854,184	17	49
53,566	15,816,930	40,664	14,019,080	9,655	1,518,409	3,247	279,441	7,421,037	50,148,285	88,363,824	21	1,655,980	15	
33,806	19,106,873	32,325	18,669,237	1,216	383,970	265	53,666	3,860,455	49,099,182	86,795,051	29	518,103	33	50
18,677	11,011,894	18,064	10,802,496	483	186,562	130	22,836	2,180,557	19,917,057	41,768,022	29	349,390	34	
33,272	12,969,237	29,083	12,165,341	3,349	674,227	840	129,669	3,945,814	43,006,880	74,338,330	31	958,800	28	51
19,340	6,911,779	17,074	6,546,797	1,455	256,183	811	108,799	1,960,929	23,729,039	38,702,125	33	762,794	28	
142,076	53,407,597	120,131	53,961,539	16,266	3,553,063	5,679	892,995	30,935,354	208,838,167	360,818,942	9	2,069,042	13	52
120,006	42,958,267	105,320	40,284,576	12,751	2,436,013	1,935	237,678	18,602,764	145,437,015	248,546,164	9	1,686,880	14	
2,241	1,386,140	2,179	1,368,764	47	14,280	15	3,096	178,532	1,885,449	4,301,240	48	92,531	50	53
1,022	787,169	957	767,982	60	18,205	5	982	94,073	1,084,432	2,367,601	44	60,705	47	

Twelfth Census of the United States.

CENSUS BULLETIN.

No. 150 (second edition). WASHINGTON, D. C. September 15, 1902.

MANUFACTURES.

UNITED STATES.

Hon. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, certain of the more important features of the Twelfth Census of the manufacturing and mechanical industries of the United States. This is a revised and enlarged edition of Census Bulletin 150, issued March 14, 1902, with such changes, additions, and corrections as are necessary to conform the statistics to those of the final reports, and as are required to meet the daily demands for a concise and comprehensive statement of the main results.

These statistics have been gathered in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

The statistics contained in this bulletin are presented in 9 tables: Table 1, showing the comparative figures for the United States, 1850 to 1900; Table 2, showing a summary for all establishments, divided between the hand trades, institutions, and the manufactures proper, 1900; Table 3, showing a comparative summary, by states, 1850 to 1900; Table 4, showing a comparative summary by specified industries, 1880, 1890, and 1900; Table 5, showing the comparative figures for the 15 groups of industries, 1880, 1890, and 1900; Table 6, showing the more important items of the totals for 55 industries having products valued at over $50,000,000 in 1900, and rank by each item; Table 7, showing the amounts and kinds of power used in each state and territory, 1870 to 1900; Table 8, showing statistics of principal cities, 1880, 1890, and 1900; and Table 9, showing statistics for 1,341 cities, 1900.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the general heads of the inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital—that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of

manufacture, finished products on hand, and other sundries—was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages, in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least number of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarly be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890. With the exception of several other changes of a minor character in the special features of the schedule, the investigation has been conducted along the lines followed at the census of 1890.

Very respectfully,

S. N. D. North

Chief Statistician for Manufactures.

UNITED STATES.

The Twelfth Census marks the close of the first complete century of manufactures in the United States. It will thus become the most important statistical basis by which will be measured the future advancement of American industry.

Table 1 presents what may be called a bird's-eye view of the progress of manufacturing and mechanical industries, as revealed by the decennial censuses from 1850 to 1900, inclusive, representing the development of the latter half of the nineteenth century.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900[1]	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	512,339	355,415	253,852	252,148	140,433	123,025	44.2	40.0	0.7	79.6	14.1
Capital	$9,835,086,909	$6,525,156,486	$2,790,272,606	$2,118,208,769	$1,009,855,715	$533,245,351	50.7	133.9	31.7	109.8	89.4
Salaried officials, clerks, etc., number	397,174	[2] 461,009	(3)	(3)	(3)	(3)	[4] 13.8	.....	.....	.....	.....
Salaries	$404,230,274	[2] $391,988,208	(3)	(3)	(3)	(3)	3.1	.....	.....	.....	.....
Wage-earners, average number	5,316,802	4,251,613	2,732,595	2,053,996	1,311,246	957,059	25.1	55.6	33.0	56.6	37.0
Total wages	$2,328,691,254	$1,891,228,321	$947,953,795	$775,584,343	$378,878,966	$236,755,464	23.1	99.5	22.2	104.7	60.0
Men, 16 years and over	4,116,610	3,327,042	2,019,035	1,615,598	1,040,349	731,137	23.7	64.8	25.0	55.3	42.3
Wages	$2,021,349,508	$1,659,234,483	(3)	(3)	(3)	(3)	21.8	.....	.....	.....	.....
Women, 16 years and over	1,031,609	803,686	531,639	323,770	270,897	225,922	28.4	51.2	64.2	19.5	19.9
Wages	$281,680,054	$215,367,976	(3)	(3)	(3)	(3)	30.8	.....	.....	.....	.....
Children, under 16 years	168,583	120,885	181,921	114,628	(3)	(3)	39.5	[4] 33.6	58.7	.....	.....
Wages	$25,661,692	$16,625,862	(3)	(3)	(3)	(3)	54.3	.....	.....	.....	.....
Miscellaneous expenses	$1,028,035,611	$631,225,035	(5)	(5)	(5)	(5)	62.9	.....	.....	.....	.....
Cost of materials used	$7,348,144,755	$5,162,044,076	$3,396,823,549	$2,488,427,242	$1,031,605,092	$555,123,822	42.3	52.0	36.5	141.2	85.8
Value of products, including custom work and repairing	$13,014,287,498	$9,372,437,283	$5,369,579,191	$4,232,325,442	$1,885,861,676	$1,019,106,616	38.9	74.5	26.9	124.4	85.1

[1] Includes, for comparative purposes, 85 governmental establishments in the District of Columbia having products valued at $9,887,355, the statistics of such establishments for 1890 not being separable. (See Report on Manufactures, Part II, page 120.)
[2] Includes proprietors and firm members, with their salaries; number only reported in 1900, but not included in this table.
[3] Not reported separately.
[4] Decrease.
[5] Not reported.

The statistics of manufactures at the censuses prior to 1850 were too imperfect and fragmentary in character to warrant their presentation in such a table as a measure of industrial growth in the first half of the century. Even the figures shown in Table 1 must be accepted with many qualifications, as hereinafter noted.

In comparison with the figures of the census of 1850, the statistics of manufactures in 1900 show an increase in capital invested approximating seventeenfold; in the average number of wage-earners the increase was about four and one-half fold; in amount of wages paid about ninefold; and in gross value of products about twelvefold. The population of the country has in the same period increased two and one-quarter fold, and the products of agriculture from $1,600,000,000 to $4,739,118,752, or less than twofold. These comparisons are an approximate measure of the relative development of manufactures during the half century just completed.

The value of products of manufacturing and mechanical industries for 1900 was $13,014,287,498, an increase of $3,641,850,215, or 38.9 per cent, over the value shown in 1890, which was $9,372,437,283. The total value of products returned by the census of 1880 was $5,369,579,191, the increase from 1880 to 1890 being $4,002,858,092, or 74.5 per cent. While the increase during the decade ending with 1890 exceeded that for the last decade by $361,007,877, it should be borne in mind that the value of products for 1900 represents a relatively greater volume or quantity of products than is indicated by the value expressed in dollars.

Except where otherwise stated, the term "value of products" as used in this census report refers to the gross value. A constant duplication appears in this gross value, owing to the fact that the finished products of many manufacturing establishments become the materials of other establishments, in which they are further utilized and again included in the value of products. At the present census, the cost of materials was so reported as to show separately the amount purchased in the raw state and that purchased in partly manufactured form. By deducting $4,633,804,967, the cost of partially manufactured materials—hand trades and all

other establishments—from $13,004,400,143, shown in Table 2 as the gross total value of products, there remains as the net value of manufactured products, $8,370,595,176, which represents the original cost of materials, together with the value added by manufacture.

For the sake of uniformity in comparison, the statistics for establishments reporting products valued at less than $500, and also the statistics for governmental establishments (with the exception of 85 in the District of Columbia) and educational, eleemosynary, and penal institutions, as reported at the Twelfth Census, are omitted from Table 1.

Table 2 divides the industries between the hand trades and the manufactures proper. It also gives the statistics for governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than $500; these establishments, for the reasons above stated, are omitted from all other tables except where their statistics are the subjects of special tables.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	640,194	$9,861,822,864	708,738	5,378,108	$2,324,453,993	$1,030,283,385	$7,364,951,954	$2,391,672,009	$4,650,247,399	$323,032,546	$13,062,883,769
Hand trades[1]	215,814	392,442,255	242,154	559,130	288,118,421	124,623,253	482,736,991	8,851,162	462,510,619	11,375,210	1,188,615,478
Governmental establishments	[2]138						6,917,518	60,576	6,607,447	249,495	22,010,391
Educational, eleemosynary, and penal institutions	383						3,717,536	1,088,343	2,390,709	288,484	6,688,592
Establishments with a product of less than $500	127,419	44,388,065	136,127	64,702	2,120,116	2,527,607	8,903,249	1,432,148	7,444,276	26,825	29,784,643
All other establishments	296,440	9,424,992,544	330,457	4,749,276	2,034,215,456	903,132,525	6,862,676,660	2,380,289,780	4,177,294,348	311,092,532	11,820,784,605

[1] Includes bicycle and tricycle repairing, 6,331; blacksmithing and wheelwrighting, 51,791; boots and shoes, custom work and repairing, 23,574; carpentering, 21,332; clothing, men's, custom work and repairing, 22,214; clothing, women's, dressmaking, 14,485; dyeing and cleaning, 1,810; furniture, cabinetmaking, repairing, and upholstering, 6,164; lock and gun smithing, 2,103; masonry, brick and stone, 6,434; millinery, custom work, 16,153; painting, house, sign, etc., 15,300; paper hanging, 1,645; plastering and stuccowork, 1,902; plumbing and gas and steam fitting, 11,881; sewing machine repairing, 396; taxidermy, 147; typewriter repairing, 85; watch, clock, and jewelry repairing, 12,243.

[2] Eighty-five of these governmental establishments were included, for comparative purposes, in the totals for 1900 in Table 1.

Table 3 shows the comparative statistics by states and territories: 1850 to 1900; and Table 4 shows the comparative statistics by specified industries: 1880, 1890, and 1900.

TABLE 3.—COMPARATIVE SUMMARY BY STATES AND TERRITORIES: 1850 TO 1900.

STATES AND TERRITORIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
United States	1900	512,734	$9,846,628,564	397,748	$404,852,838	5,321,389	$2,330,578,010	4,121,006	1,031,760	168,623	$1,028,908,911	$7,360,993,418	$13,039,279,566
	1890	355,415	6,525,156,486	[1] 461,009	[1] 391,988,208	4,251,613	1,891,228,321	3,327,042	803,686	120,885	631,225,035	5,162,044,076	9,372,437,288
	1880	253,852	2,790,272,606	(2)	(2)	2,732,595	947,953,795	2,019,035	531,639	181,921	(3)	3,396,823,549	5,369,579,191
	1870	252,148	2,113,208,769	(2)	(2)	2,053,996	775,584,343	1,615,598	323,770	114,628	(3)	2,488,427,242	4,232,325,442
	1860	140,433	1,009,855,715	(2)	(2)	1,311,246	378,878,966	1,040,349	270,897	.....	(3)	1,031,605,092	1,885,861,676
	1850	123,025	533,245,351	(2)	(2)	957,059	236,755,464	731,137	225,922	.....	(3)	555,123,822	1,019,106,616
Alabama	1900	5,602	70,370,081	2,530	2,168,671	52,902	15,130,419	45,530	3,898	3,474	3,828,402	44,098,671	80,741,449
	1890	2,977	46,122,571	[1] 2,684	[1] 1,876,282	31,137	10,799,747	27,848	1,864	1,425	2,797,896	28,432,281	51,226,605
	1880	2,070	9,668,008	(2)	(2)	10,019	2,500,504	8,368	842	809	(3)	8,545,520	13,565,504
	1870	2,188	5,714,032	(2)	(2)	8,248	2,227,968	7,196	664	388	(3)	7,592,837	13,040,644
	1860	1,459	9,098,181	(2)	(2)	7,889	2,132,940	6,792	1,097	.....	(3)	5,489,963	10,588,566
	1850	1,026	3,450,606	(2)	(2)	4,936	1,105,824	4,397	539	.....	(3)	2,224,960	4,528,876
Alaska	1900	63	3,600,409	82	117,480	2,263	1,395,709	2,262	1	.....	170,334	1,785,776	4,250,984
	1890	10	105,727	[1] 8	[1] 3,548	78	18,625	78	.....	.....	5,252	30,198	58,440
Arizona	1900	314	10,157,408	210	267,510	3,266	2,369,065	3,186	42	38	433,272	8,464,410	21,315,189
	1890	76	616,629	[1] 70	[1] 55,981	458	302,146	440	9	9	49,231	353,814	947,547
	1880	66	272,600	(2)	(2)	220	111,180	216	2	2	(3)	380,028	618,365
	1870	18	150,700	(2)	(2)	84	45,580	84	.....	.....	(3)	110,090	185,410
Arkansas	1900	4,794	35,960,640	1,649	1,251,096	26,501	8,686,291	25,158	700	643	1,482,779	23,963,768	45,197,731
	1890	2,073	14,971,614	[1] 1,829	[1] 1,100,702	14,143	4,649,186	13,277	463	403	1,035,107	12,397,261	22,659,179
	1880	1,202	2,953,130	(2)	(2)	4,557	925,358	4,307	90	160	(3)	4,392,080	6,756,159
	1870	1,079	1,782,913	(2)	(2)	3,206	673,963	3,077	47	82	(3)	2,536,998	4,629,234
	1860	518	1,316,610	(2)	(2)	1,877	554,240	1,831	46	.....	(3)	1,280,503	2,880,578
	1850	261	305,015	(2)	(2)	842	159,876	812	30	.....	(3)	215,789	537,908
California	1900	12,582	205,395,025	7,884	8,360,829	91,047	47,425,947	71,648	17,285	2,114	16,190,282	188,125,602	302,874,761
	1890	7,923	146,797,102	[1] 10,946	[1] 10,365,862	72,696	41,172,918	59,065	11,774	1,857	12,984,191	120,243,683	213,403,996
	1880	5,885	61,243,784	(2)	(2)	43,693	21,065,905	38,311	3,922	1,460	(3)	72,607,709	116,218,973
	1870	3,934	39,728,202	(2)	(2)	25,392	13,136,722	24,040	873	479	(3)	35,351,193	66,594,556
	1860	8,468	22,043,096	(2)	(2)	49,226	28,402,287	49,171	55	.....	(3)	27,051,674	68,253,228
	1850	1,003	1,006,197	(2)	(2)	3,964	3,717,180	3,964	.....	.....	(3)	1,201,154	12,862,522
Colorado	1900	3,570	62,825,472	2,052	2,272,480	24,725	15,146,667	22,588	1,894	243	4,169,635	66,886,016	102,830,137
	1890	1,518	26,651,840	[1] 2,051	[1] 2,413,329	15,016	9,872,405	13,521	1,223	272	1,948,025	20,848,516	42,480,205
	1880	599	4,311,714	(2)	(2)	5,074	2,314,427	4,652	266	156	(3)	8,806,762	14,260,159
	1870	256	2,835,605	(2)	(2)	876	528,221	874	2	.....	(3)	1,593,280	2,852,820
Connecticut	1900	9,128	314,696,736	9,981	12,286,050	176,694	82,767,725	130,610	42,605	3,479	23,089,806	185,641,219	352,824,106
	1890	6,822	227,004,496	[1] 9,425	[1] 9,525,289	140,514	66,465,317	101,318	36,111	3,085	15,399,101	123,183,080	248,336,364
	1880	4,488	120,480,275	(2)	(2)	112,915	43,501,518	75,619	28,851	8,445	(3)	102,183,341	185,697,211
	1870	5,128	95,281,278	(2)	(2)	89,523	38,987,187	61,684	20,810	7,029	(3)	86,419,579	161,065,474
	1860	3,019	45,590,430	(2)	(2)	64,469	19,026,196	44,002	20,467	.....	(3)	40,909,090	81,924,555
	1850	3,737	25,876,648	(2)	(2)	50,731	12,435,984	34,248	16,483	.....	(3)	23,608,971	47,114,585
Dakota	1900	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1880	251	771,428	(2)	(2)	868	339,375	854	8	6	(3)	1,523,761	2,373,970
	1870	17	79,200	(2)	(2)	91	21,106	89	.....	2	(3)	105,997	178,570
Delaware	1900	1,417	41,203,239	1,327	1,422,831	22,203	9,259,661	17,765	3,579	859	2,155,948	26,652,601	45,387,630
	1890	1,003	33,695,400	[1] 1,427	[1] 1,261,912	20,479	8,630,475	16,219	2,890	1,370	1,851,575	21,161,752	37,571,848
	1880	746	15,655,822	(2)	(2)	12,638	4,267,349	10,250	1,426	962	(3)	12,828,461	20,514,438
	1870	800	10,339,093	(2)	(2)	9,710	3,692,195	7,705	1,199	806	(3)	10,206,397	16,791,382
	1860	615	5,452,887	(2)	(2)	6,421	1,905,754	5,465	956	.....	(3)	6,028,918	9,892,902
	1850	531	2,978,945	(2)	(2)	3,888	936,924	3,237	651	.....	(3)	2,864,607	4,649,296
District of Columbia.	1900	2,754	41,981,245	2,083	1,833,437	24,693	14,643,714	20,415	4,162	116	4,433,652	19,369,571	47,667,622
	1890	2,295	28,865,089	[1] 2,998	[1] 2,358,122	20,406	12,264,142	17,114	3,159	133	1,589,869	17,194,666	39,331,437
	1880	971	5,552,520	(2)	(2)	7,146	3,924,612	5,496	1,389	261	(3)	5,365,400	11,882,310
	1870	952	5,021,925	(2)	(2)	4,685	2,007,600	4,333	216	136	(3)	4,754,883	9,292,173
	1860	429	2,905,865	(2)	(2)	3,148	1,139,154	2,653	495	.....	(3)	2,884,185	5,412,102
	1850	403	1,001,575	(2)	(2)	2,570	757,584	2,034	536	.....	(3)	1,405,871	2,690,258
Florida	1900	2,056	33,107,477	1,778	1,295,139	34,230	10,683,038	32,188	1,668	374	2,363,626	15,637,520	36,810,243
	1890	805	11,110,304	[1] 808	[1] 594,454	13,119	5,918,614	11,539	1,312	268	1,131,067	[2] 8,021,854	18,222,890
	1880	426	3,210,680	(2)	(2)	5,504	1,270,875	4,564	558	382	(3)	8,040,119	5,546,448
	1870	659	1,679,930	(2)	(2)	2,749	989,592	2,670	20	59	(3)	2,330,873	4,685,403
	1860	185	1,874,125	(2)	(2)	2,454	619,840	2,297	157	.....	(3)	874,506	2,447,969
	1850	103	547,060	(2)	(2)	991	199,452	876	115	.....	(3)	220,611	668,335
Georgia	1900	7,504	89,789,656	4,203	3,354,946	83,842	20,290,071	66,540	10,929	6,373	5,321,330	58,232,202	106,654,527
	1890	4,285	56,921,580	[1] 4,085	[1] 2,688,200	52,298	14,623,996	42,779	5,998	3,521	4,019,539	35,774,480	68,917,020
	1880	3,593	20,672,410	(2)	(2)	24,875	5,266,152	18,937	3,619	2,319	(3)	24,143,939	36,440,948
	1870	3,836	13,930,125	(2)	(2)	17,871	4,844,508	15,078	1,498	1,295	(3)	18,583,731	31,196,115
	1860	1,890	10,890,875	(2)	(2)	11,575	2,925,148	9,492	2,083	.....	(3)	9,986,582	16,925,564
	1850	1,522	5,456,483	(2)	(2)	8,368	1,709,664	6,650	1,718	.....	(3)	8,404,917	7,082,075
Hawaii	1900	395	11,541,655	574	622,564	4,587	1,886,756	4,396	151	40	873,300	12,848,663	24,992,068
Idaho	1900	591	2,941,524	97	70,786	1,477	862,088	1,395	59	23	142,596	2,055,368	4,020,532
	1890	140	1,048,916	[1] 107	[1] 68,295	667	255,907	629	21	17	69,586	638,673	1,396,096
	1880	162	677,215	(2)	(2)	388	136,326	374	8	6	(3)	844,874	1,271,317
	1870	101	742,300	(2)	(2)	265	112,372	264	.....	1	(3)	691,785	1,047,624
Illinois	1900	38,360	776,829,598	44,342	43,337,464	395,110	191,510,962	325,713	58,978	10,419	130,876,318	739,754,414	1,259,730,168
	1890	20,482	502,004,512	[1] 31,980	[1] 28,650,314	280,218	142,873,265	241,882	32,910	5,426	79,515,193	529,019,089	908,640,280
	1880	14,549	140,652,066	(2)	(2)	144,727	57,429,085	120,558	15,233	8,936	(3)	289,843,907	414,864,673
	1870	12,597	94,368,057	(2)	(2)	82,979	31,100,244	73,045	6,717	3,217	(3)	127,600,077	205,620,672
	1860	4,268	27,548,568	(2)	(2)	22,968	7,637,921	22,489	479	.....	(3)	35,558,782	57,580,886
	1850	3,162	6,217,765	(2)	(2)	11,559	3,204,336	11,066	493	.....	(3)	8,959,327	16,534,272

[1] Includes proprietors and firm members, with their salaries; not included for 1900 in this table.
[2] Not reported separately.
[3] Not reported.
[4] See North Dakota, and South Dakota.

TABLE 3.—COMPARATIVE SUMMARY, BY STATES AND TERRITORIES: 1850 TO 1900—Continued.

STATES AND TERRITORIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Indiana	1900	18,015	$234,481,528	11,282	$10,526,293	155,956	$66,847,317	133,009	19,266	3,681	$33,052,160	$214,961,610	$378,120,140
	1890	12,354	131,605,366	[1]13,759	[1]9,172,718	110,590	42,577,258	94,960	12,315	3,315	16,500,903	130,119,106	226,825,082
	1880	11,198	65,742,962	(2)	(2)	69,508	21,960,888	62,072	3,615	3,821	(3)	100,262,917	148,006,411
	1870	11,847	52,052,425	(2)	(2)	58,852	18,366,780	54,412	2,272	2,168	(3)	63,135,492	108,617,278
	1860	5,323	18,451,121	(2)	(2)	21,295	6,318,335	20,563	732	.....	(3)	27,142,597	42,803,469
	1850	4,392	7,750,402	(2)	(2)	14,440	3,728,844	13,748	692	.....	(3)	10,369,700	18,725,423
Indian Territory	1900	789	2,624,265	135	86,067	1,714	553,899	1,625	78	16	163,174	2,225,730	3,892,181
	1890	20	204,329	[1]8	[1]6,608	167	73,222	157	3	7	11,590	127,864	248,932
Iowa	1900	14,819	102,733,108	5,664	4,486,117	58,553	23,931,680	48,417	8,248	1,888	7,988,767	101,170,357	164,617,877
	1890	7,440	77,513,097	[1]8,137	[1]5,449,377	51,037	20,429,620	44,210	5,183	1,644	5,732,206	79,292,407	125,049,183
	1880	6,921	33,987,886	(2)	(2)	28,372	9,725,962	25,382	1,431	1,559	(3)	48,704,311	71,045,926
	1870	6,566	22,420,183	(2)	(2)	25,082	6,893,292	23,395	951	686	(3)	27,682,096	46,584,322
	1860	1,939	7,247,130	(2)	(2)	6,307	1,922,417	6,142	165	.....	(3)	8,612,259	13,971,325
	1850	522	1,292,875	(2)	(2)	1,707	473,016	1,687	20	.....	(3)	2,356,881	3,551,783
Kansas	1900	7,830	66,827,362	3,860	3,256,086	35,193	16,317,689	31,171	3,162	860	5,241,450	129,485,320	172,129,398
	1890	4,471	43,926,002	[1]4,606	[1]3,040,310	28,237	13,288,175	24,846	2,510	881	5,853,466	78,845,167	110,219,805
	1880	2,803	11,192,315	(2)	(2)	12,062	3,995,010	11,139	392	531	(3)	21,453,141	30,843,777
	1870	1,477	4,319,060	(2)	(2)	6,844	2,377,511	6,599	118	127	(3)	6,112,163	11,775,833
	1860	344	1,084,935	(2)	(2)	1,735	880,346	1,700	35	.....	(3)	1,444,975	4,357,408
Kentucky	1900	9,560	104,070,791	5,079	4,687,441	62,962	22,434,185	51,101	9,174	2,687	19,581,630	82,830,415	154,166,365
	1890	7,745	79,811,980	[1]9,021	[1]6,434,915	56,558	21,326,831	46,015	8,280	2,263	15,879,728	63,677,583	126,719,857
	1880	5,328	45,813,039	(2)	(2)	37,391	11,657,844	30,949	3,529	2,913	(3)	47,461,830	75,483,377
	1870	5,390	29,277,809	(2)	(2)	30,636	9,444,524	27,687	1,159	1,790	(3)	29,497,535	54,626,809
	1860	3,450	20,256,579	(2)	(2)	21,258	6,020,082	19,587	1,671	.....	(3)	22,295,759	37,931,240
	1850	3,609	11,810,462	(2)	(2)	21,476	5,106,048	19,576	1,900	.....	(3)	12,165,075	21,710,212
Louisiana	1900	4,350	113,084,294	3,944	3,090,185	42,210	15,385,715	35,531	5,448	1,231	7,999,870	82,299,893	121,181,683
	1890	2,613	34,754,121	[1]3,524	[1]3,036,995	28,377	10,122,569	20,967	6,798	612	3,760,753	33,282,724	57,806,713
	1880	1,553	11,462,468	(2)	(2)	12,167	4,360,371	10,171	1,335	661	(3)	14,442,506	24,205,183
	1870	2,557	18,313,974	(2)	(2)	30,071	4,593,470	23,637	4,210	2,224	(3)	12,412,023	24,161,905
	1860	1,744	7,151,172	(2)	(2)	8,789	3,688,679	7,878	916	.....	(3)	6,738,486	15,587,473
	1850	1,008	5,032,424	(2)	(2)	6,217	2,033,928	5,458	759	.....	(3)	2,459,508	6,779,417
Maine	1900	6,702	122,918,826	3,329	3,171,433	74,816	28,527,849	53,701	18,913	2,202	7,774,216	68,863,408	127,361,485
	1890	5,010	80,419,809	[1]5,406	[1]3,563,635	70,374	22,962,582	46,881	21,051	2,442	5,394,694	51,520,589	95,689,500
	1880	4,481	49,988,171	(2)	(2)	52,954	13,623,318	35,431	13,777	3,746	(3)	51,120,708	79,829,793
	1870	5,550	39,796,190	(2)	(2)	49,180	14,282,205	34,310	13,448	1,422	(3)	49,379,757	79,497,521
	1860	3,810	22,044,020	(2)	(2)	34,619	8,368,691	24,827	9,792	.....	(3)	21,553,066	38,198,254
	1850	3,974	14,699,152	(2)	(2)	28,020	7,485,588	21,853	6,167	.....	(3)	13,553,144	24,661,057
Maryland	1900	9,879	163,147,260	7,585	7,380,263	108,325	38,748,551	72,824	29,617	5,884	17,209,623	144,397,680	242,552,990
	1890	7,485	119,667,316	[1]9,246	[1]7,085,418	97,808	34,441,414	67,261	26,432	4,115	10,616,347	92,059,390	171,842,593
	1880	6,787	58,742,384	(2)	(2)	74,945	18,904,965	46,698	21,700	6,547	(3)	66,937,846	106,780,563
	1870	5,812	36,438,729	(2)	(2)	44,860	12,682,817	34,061	8,278	2,521	(3)	46,897,032	76,593,613
	1860	3,088	23,280,608	(2)	(2)	28,403	7,190,672	21,630	6,773	.....	(3)	25,494,007	41,735,157
	1850	3,725	14,934,450	(2)	(2)	30,212	7,403,832	22,729	7,483	.....	(3)	17,690,836	33,043,892
Massachusetts	1900	29,180	823,264,287	27,860	31,257,630	497,448	228,240,442	341,783	143,109	12,556	73,209,015	552,717,955	1,035,198,989
	1890	26,923	630,032,341	[1]37,912	[1]33,826,172	447,270	205,844,337	305,151	133,452	8,667	63,083,782	473,199,434	888,160,403
	1880	14,852	303,806,185	(2)	(2)	352,255	128,315,362	228,834	105,976	17,445	(3)	386,972,655	631,135,284
	1870	13,212	231,677,862	(2)	(2)	279,380	118,051,886	179,032	86,229	14,119	(3)	334,413,982	553,912,568
	1860	8,176	132,792,327	(2)	(2)	217,421	56,960,913	146,268	71,153	.....	(3)	135,053,721	255,545,922
	1850	8,852	88,940,292	(2)	(2)	177,461	41,954,736	107,784	69,677	.....	(3)	85,856,771	157,743,994
Michigan	1900	16,807	284,097,133	13,858	12,562,855	162,355	66,467,867	136,627	23,092	2,636	25,495,423	199,559,905	356,944,082
	1890	12,127	262,412,240	[1]15,267	[1]11,364,892	148,674	54,982,906	133,176	12,857	2,641	18,348,381	154,521,918	277,896,706
	1880	8,873	92,930,959	(2)	(2)	77,591	25,313,682	68,445	4,784	4,362	(3)	92,900,269	150,715,025
	1870	9,455	71,712,288	(2)	(2)	63,694	21,205,355	58,347	2,941	2,406	(3)	68,142,515	118,394,676
	1860	3,448	23,808,226	(2)	(2)	28,190	6,735,047	22,144	1,046	.....	(3)	17,635,611	32,658,356
	1850	2,033	6,563,660	(2)	(2)	9,344	2,717,124	8,990	354	.....	(3)	6,136,328	11,169,002
Minnesota	1900	11,114	165,832,246	7,319	6,554,424	77,234	35,484,825	66,889	9,553	792	13,273,648	173,425,615	262,655,881
	1890	7,505	127,686,618	[1]9,839	[1]7,818,116	69,790	30,371,123	63,522	5,508	760	12,136,612	118,481,941	192,033,478
	1880	3,493	31,004,811	(2)	(2)	21,247	8,613,094	18,937	1,636	674	(3)	55,660,681	76,065,198
	1870	2,270	11,993,729	(2)	(2)	11,290	4,052,837	10,892	259	139	(3)	13,842,902	23,110,700
	1860	562	2,388,310	(2)	(2)	2,123	712,214	2,104	19	.....	(3)	1,904,070	3,373,172
	1850	5	94,000	(2)	(2)	63	18,540	63	.....	.....	(3)	24,300	58,300
Mississippi	1900	4,772	35,807,419	1,569	1,167,020	26,418	7,471,886	23,643	1,726	1,049	1,476,855	21,692,092	40,431,386
	1890	1,698	14,896,884	[1]1,352	[1]722,109	14,465	4,191,754	12,320	1,236	909	827,627	10,064,897	18,705,334
	1880	1,479	4,727,600	(2)	(2)	5,827	1,192,645	4,887	413	527	(3)	4,667,183	7,518,302
	1870	1,731	4,501,714	(2)	(2)	5,941	1,547,428	5,500	191	250	(3)	4,364,206	8,154,758
	1860	976	4,384,492	(2)	(2)	4,775	1,618,320	4,572	203	.....	(3)	3,146,636	6,590,687
	1850	947	1,815,820	(2)	(2)	3,154	771,528	3,046	108	.....	(3)	1,275,771	2,912,068
Missouri	1900	18,754	249,888,581	13,900	14,569,606	134,975	60,719,428	106,782	23,683	4,510	41,396,905	214,988,018	385,492,784
	1890	14,052	189,558,546	[1]18,936	[1]16,773,935	124,203	59,643,429	102,418	18,294	3,491	22,885,565	177,582,382	324,561,993
	1880	8,592	72,507,844	(2)	(2)	63,995	24,309,716	54,200	5,474	4,321	(3)	110,798,392	185,386,205
	1870	11,871	80,257,244	(2)	(2)	65,354	31,055,445	55,904	3,884	5,566	(3)	115,533,269	206,213,429
	1860	3,157	20,034,220	(2)	(2)	19,681	6,669,916	18,628	1,053	.....	(3)	23,849,941	41,782,731
	1850	2,923	8,576,607	(2)	(2)	15,808	4,692,648	14,880	928	.....	(3)	12,798,351	24,324,418
Montana	1900	1,080	40,945,846	563	837,971	10,117	7,969,886	9,718	287	112	1,668,487	32,702,650	57,075,824
	1890	289	4,293,794	[1]310	[1]295,800	2,386	1,652,413	2,300	75	11	296,684	2,375,093	5,507,573
	1880	196	899,390	(2)	(2)	578	318,759	574	3	1	(3)	1,006,442	1,835,367
	1870	201	1,794,300	(2)	(2)	701	370,843	697	2	2	(3)	1,316,331	2,494,511
Nebraska	1900	5,414	71,982,127	2,657	2,325,038	24,461	11,570,688	21,059	2,626	776	6,935,399	102,197,707	148,990,102
	1890	3,014	37,569,508	[1]3,426	[1]2,713,093	20,450	10,271,478	18,263	1,473	714	5,395,242	67,334,532	93,037,794
	1880	1,403	4,881,150	(2)	(2)	4,793	1,742,311	4,464	120	209	(3)	8,208,478	12,627,336
	1870	670	2,169,963	(2)	(2)	2,665	1,429,913	2,558	81	26	(3)	2,902,074	5,738,512
	1860	107	266,575	(2)	(2)	336	105,332	334	2	.....	(3)	237,215	607,328

[1] Includes proprietors and firm members, with their salaries; not included for 1900 in this table. [2] Not reported separately. [3] Not reported.

TABLE 3.—COMPARATIVE SUMMARY, BY STATES AND TERRITORIES: 1850 TO 1900—Continued.

STATES AND TERRITORIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Nevada	1900	228	$1,472,784	39	$37,560	601	$416,732	563	18	20	$68,457	$826,138	$1,643,675
	1890	95	1,211,269	[1]62	[1]68,968	558	376,535	543	14	1	53,869	439,058	1,105,063
	1880	184	1,323,300	(2)	(2)	577	461,807	556	5	16	(3)	1,049,794	2,179,626
	1870	330	5,127,790	(2)	(2)	2,859	2,498,473	2,856	3	.....	(3)	10,315,984	15,870,539
New Hampshire	1900	4,671	100,929,661	2,193	2,290,210	70,419	27,620,247	46,847	21,921	1,651	6,356,131	66,348,594	118,709,308
	1890	3,229	79,375,160	[1]3,250	[1]2,320,764	60,111	21,927,290	37,509	20,933	1,669	4,363,192	47,754,152	85,770,549
	1880	3,181	51,112,263	(2)	(2)	48,831	14,814,793	29,356	16,184	3,291	(3)	43,552,462	73,978,028
	1870	3,342	36,023,743	(2)	(2)	40,783	13,823,091	25,829	12,775	2,179	(3)	44,577,967	71,038,249
	1860	2,592	23,274,094	(2)	(2)	32,340	8,110,561	18,379	13,961	.....	(3)	20,539,857	37,586,453
	1850	3,211	18,242,114	(2)	(2)	27,092	6,123,876	14,103	12,989	.....	(3)	12,745,466	23,154,503
New Jersey	1900	15,481	502,824,082	16,283	19,688,946	241,582	110,088,605	181,879	51,661	8,042	42,654,076	360,945,843	611,748,933
	1890	9,225	250,805,745	[1]13,620	[1]13,834,618	173,778	82,944,118	131,370	37,095	5,313	18,458,052	189,365,740	354,573,571
	1880	7,128	106,226,593	(2)	(2)	126,038	46,083,045	86,787	27,099	12,152	(3)	165,285,779	254,380,236
	1870	6,636	79,606,719	(2)	(2)	75,552	32,648,409	58,115	11,198	6,239	(3)	103,415,245	169,237,732
	1860	4,173	40,521,048	(2)	(2)	56,027	16,277,337	43,198	12,829	.....	(3)	41,429,100	76,306,104
	1850	4,207	22,293,258	(2)	(2)	37,830	9,364,740	29,068	8,762	.....	(3)	22,011,871	39,851,256
New Mexico	1900	420	2,698,786	95	95,792	2,600	1,350,586	2,499	72	29	204,337	2,914,138	5,605,795
	1890	127	965,938	[1]95	[1]62,366	849	470,361	818	16	15	76,638	691,420	1,516,195
	1880	144	463,275	(2)	(2)	557	218,731	553	.....	4	(3)	871,352	1,284,846
	1870	182	1,450,695	(2)	(2)	427	167,281	423	1	3	(3)	880,957	1,489,868
	1860	82	2,008,350	(2)	(2)	1,074	341,306	1,044	30	.....	(3)	367,892	1,249,123
	1850	23	68,300	(2)	(2)	81	20,772	81	.....	.....	(3)	110,220	249,010
New York	1900	78,658	1,651,210,220	74,480	82,075,648	849,056	408,855,652	605,686	230,181	13,189	221,886,271	1,143,791,776	2,175,726,900
	1890	65,840	1,130,161,195	[1]98,018	[1]96,466,083	752,066	370,380,559	545,453	194,350	12,263	122,042,219	871,264,085	1,711,577,671
	1880	42,739	514,246,575	(2)	(2)	531,533	198,634,029	364,549	137,455	29,529	(3)	679,612,545	1,080,696,596
	1870	36,206	366,994,320	(2)	(2)	351,800	142,466,758	267,378	63,795	20,627	(3)	452,065,452	785,194,651
	1860	22,624	172,895,652	(2)	(2)	230,112	65,446,759	176,885	53,227	.....	(3)	214,813,061	378,870,939
	1850	23,553	99,904,405	(2)	(2)	199,349	49,131,000	147,737	51,612	.....	(3)	134,655,674	237,597,249
North Carolina	1900	7,226	76,503,894	3,001	2,434,621	70,570	13,868,430	44,549	15,644	10,377	9,118,637	53,072,388	94,919,663
	1890	3,667	32,745,995	[1]2,589	[1]1,278,415	33,625	6,552,121	22,665	6,227	4,733	3,329,101	22,789,187	40,375,450
	1880	3,802	13,045,639	(2)	(2)	18,109	2,740,768	12,818	2,939	2,352	(3)	13,090,937	20,095,037
	1870	3,642	8,140,473	(2)	(2)	13,622	2,195,711	11,339	1,422	861	(3)	12,824,693	19,021,327
	1860	3,689	9,693,703	(2)	(2)	14,217	2,689,441	12,102	2,115	.....	(3)	10,203,228	16,678,698
	1850	2,663	7,456,860	(2)	(2)	14,601	2,383,456	12,473	2,128	.....	(3)	4,602,501	9,111,050
North Dakota	1900	1,130	5,396,490	168	141,432	2,398	1,222,472	2,168	193	37	302,492	5,615,793	9,183,114
	1890	382	2,894,558	[1]348	[1]243,749	1,499	759,132	1,398	85	16	236,909	3,087,161	5,028,107
	1880	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1870	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio	1900	32,398	605,792,266	30,003	29,351,045	345,869	153,955,330	287,789	53,711	4,369	69,728,206	447,849,677	832,438,113
	1890	28,673	402,793,019	[1]38,566	[1]30,321,084	292,982	128,447,799	244,900	41,531	6,551	45,062,325	341,016,464	641,688,064
	1880	20,699	188,939,614	(2)	(2)	183,609	62,103,800	152,217	18,563	12,829	(3)	215,334,258	348,298,390
	1870	22,773	141,923,964	(2)	(2)	137,202	49,066,488	119,686	11,575	5,941	(3)	157,131,697	269,713,610
	1860	11,123	57,295,303	(2)	(2)	75,602	22,302,989	65,749	9,853	.....	(3)	69,800,270	121,691,148
	1850	10,622	29,019,538	(2)	(2)	51,491	13,467,156	47,054	4,437	.....	(3)	34,678,019	62,692,279
Oklahoma	1900	870	3,352,064	202	159,554	2,054	807,826	1,876	140	38	246,081	4,449,944	7,033,938
	1890	72	95,519	[1]48	[1]19,592	147	52,326	133	3	11	21,970	56,518	180,445
Oregon	1900	3,088	33,422,393	1,280	1,323,155	17,236	8,333,433	15,120	1,821	295	2,242,795	26,108,313	46,000,587
	1890	1,523	32,122,051	[1]2,038	[1]1,975,495	16,760	9,559,734	15,754	806	200	2,108,668	21,793,578	41,432,174
	1880	1,080	6,312,056	(2)	(2)	3,473	1,667,046	3,280	96	97	(3)	6,954,436	10,931,232
	1870	969	4,376,849	(2)	(2)	2,884	1,120,173	2,753	67	64	(3)	3,419,756	6,877,387
	1860	309	1,337,238	(2)	(2)	978	685,256	968	10	.....	(3)	1,431,952	2,976,761
	1850	52	843,600	(2)	(2)	285	388,620	285	.....	.....	(3)	809,560	2,236,640
Pennsylvania	1900	52,185	1,551,548,712	47,439	48,605,173	733,834	332,072,670	574,606	126,093	33,135	134,344,269	1,042,434,599	1,834,790,860
	1890	39,339	991,243,115	[1]50,169	[1]42,215,788	570,393	263,375,215	460,939	87,035	22,419	74,841,458	773,734,637	1,331,794,901
	1880	31,232	474,510,993	(2)	(2)	387,072	134,055,904	284,359	73,046	29,667	(3)	465,020,563	744,818,445
	1870	37,200	406,821,845	(2)	(2)	319,487	127,976,594	256,543	43,712	19,232	(3)	421,197,673	711,894,344
	1860	22,363	190,055,904	(2)	(2)	222,132	60,369,165	182,593	39,539	.....	(3)	153,477,698	290,121,188
	1850	21,605	94,473,810	(2)	(2)	146,766	37,163,232	124,688	22,078	.....	(3)	87,206,377	155,044,910
Rhode Island	1900	4,189	183,784,587	4,433	5,552,189	98,813	41,114,084	64,508	29,269	5,036	12,199,283	96,392,661	184,074,378
	1890	3,377	126,483,401	[1]4,865	[1]4,688,608	81,111	33,239,313	49,684	25,602	5,825	8,825,407	76,253,023	142,500,625
	1880	2,205	75,575,943	(2)	(2)	62,878	21,355,619	37,050	18,270	7,548	(3)	58,103,443	104,163,621
	1870	1,850	66,557,322	(2)	(2)	49,417	19,354,256	28,804	14,752	5,861	(3)	73,154,109	111,418,354
	1860	1,191	24,278,295	(2)	(2)	32,490	8,760,125	20,795	11,695	.....	(3)	19,858,515	40,711,296
	1850	864	12,935,676	(2)	(2)	20,967	5,047,080	12,923	8,044	.....	(3)	13,186,703	22,117,688
South Carolina	1900	3,762	67,356,465	1,525	1,327,052	48,135	9,455,900	29,823	9,752	8,560	3,111,587	34,027,795	58,748,731
	1890	2,382	29,276,261	[1]1,914	[1]1,116,244	22,748	5,474,739	16,664	3,775	2,309	1,792,386	18,873,666	31,926,681
	1880	2,078	11,205,894	(2)	(2)	15,828	2,836,289	13,687	1,023	1,118	(3)	9,885,538	16,738,008
	1870	1,584	5,400,418	(2)	(2)	8,141	1,545,715	7,099	578	464	(3)	5,855,736	9,858,981
	1860	1,280	6,931,756	(2)	(2)	6,994	1,380,027	6,096	898	.....	(3)	5,198,881	8,615,195
	1850	1,430	6,053,265	(2)	(2)	7,066	1,127,712	5,992	1,074	.....	(3)	2,787,534	7,045,477
South Dakota	1900	1,639	7,578,895	311	184,233	3,121	1,544,409	2,776	231	114	471,528	7,827,110	12,231,239
	1890	499	3,207,796	[1]411	[1]265,725	2,011	832,693	1,846	129	36	268,214	3,523,840	5,682,748
	1880	(5)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1870	(5)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tennessee	1900	8,016	71,814,038	3,673	3,261,347	50,504	16,647,638	42,492	5,841	2,171	6,235,557	63,857,511	108,144,565
	1890	4,559	51,475,092	[1]5,272	[1]3,342,171	37,487	13,557,180	32,644	3,273	1,570	4,126,271	40,463,782	72,355,286
	1880	4,326	20,092,845	(2)	(2)	22,445	5,254,775	19,575	1,196	1,674	(3)	23,834,262	37,074,886
	1870	5,317	15,595,295	(2)	(2)	19,412	5,390,630	17,663	1,089	660	(3)	19,657,027	34,362,636
	1860	2,572	14,426,261	(2)	(2)	12,528	3,370,687	11,582	946	.....	(3)	9,416,514	17,987,225
	1850	2,887	6,527,729	(2)	(2)	12,039	2,247,492	11,080	959	.....	(3)	5,166,886	9,725,608

[1] Includes proprietors and firm members, with their salaries; not included for 1900 in this table.
[2] Not reported separately.
[3] Not reported.
[4] See territory of Dakota, of which the present state of North Dakota formed a part prior to November 2, 1889.
[5] See territory of Dakota, of which the present state of South Dakota formed a part prior to November 2, 1889.

TABLE 3.—COMPARATIVE SUMMARY BY STATES AND TERRITORIES: 1850 TO 1900—Continued.

STATES AND TERRITORIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Texas	1900	12,289	$90,488,882	3,560	$8,229,075	48,158	$20,552,355	44,199	2,913	1,041	$6,144,924	$67,102,769	$119,414,982
	1890	5,268	46,815,181	[1] 4,681	[1] 8,437,843	34,794	15,148,495	31,845	1,977	972	3,594,940	36,152,308	70,433,551
	1880	2,996	9,245,561	(2)	(2)	12,159	3,343,087	11,645	116	398	(3)	12,956,269	20,719,928
	1870	2,399	5,284,110	(2)	(2)	7,927	1,787,835	7,450	157	320	(3)	6,273,198	11,517,302
	1860	983	3,272,450	(2)	(2)	3,449	1,102,756	3,338	111	.....	(3)	3,367,372	6,577,202
	1850	309	539,290	(2)	(2)	1,066	322,368	1,042	24	.....	(3)	394,642	1,168,538
Utah	1900	1,400	14,650,948	740	566,105	6,615	3,388,870	5,579	818	218	929,173	12,853,954	21,156,183
	1890	531	6,583,022	[1] 631	[1] 524,540	4,349	2,191,265	3,657	485	207	455,968	4,252,030	8,911,047
	1880	640	2,656,657	(2)	(2)	2,495	858,863	2,042	221	232	(3)	2,561,737	4,324,992
	1870	533	1,391,898	(2)	(2)	1,534	395,365	1,465	43	26	(3)	1,238,252	2,343,019
	1860	148	443,356	(2)	(2)	389	231,701	380	9	.....	(3)	439,512	900,158
	1850	14	44,400	(2)	(2)	51	9,984	51	.....	.....	(3)	337,381	291,220
Vermont	1900	4,071	48,547,964	1,772	1,620,876	29,455	12,237,684	24,714	4,478	263	3,482,448	29,858,824	57,628,815
	1890	3,031	32,763,291	[1] 2,775	[1] 1,668,996	22,119	8,427,558	18,985	2,745	389	2,188,826	20,433,174	38,340,066
	1880	2,874	23,265,224	(2)	(2)	17,540	5,164,479	14,438	2,271	831	(3)	18,330,677	31,354,366
	1870	3,270	20,329,637	(2)	(2)	18,686	6,264,581	16,301	1,872	513	(3)	17,007,769	32,184,606
	1860	1,883	9,498,617	(2)	(2)	10,497	3,004,986	8,563	1,934	.....	(3)	7,608,858	14,637,807
	1850	1,849	5,001,377	(2)	(2)	8,445	2,202,348	6,894	1,551	.....	(3)	4,172,552	8,570,920
Virginia	1900	8,248	103,670,988	4,198	3,846,072	72,702	22,445,720	56,341	12,197	4,164	12,264,602	74,851,757	132,172,910
	1890	5,915	63,456,799	[1] 6,025	[1] 3,827,920	53,566	15,816,930	40,664	9,655	3,247	7,421,087	50,148,285	88,363,824
	1880	5,710	26,968,990	(2)	(2)	40,184	7,425,261	28,779	6,144	5,261	(3)	32,883,933	51,780,992
	1870	5,933	18,455,400	(2)	(2)	26,974	5,343,099	22,175	2,259	2,540	(3)	23,832,384	38,364,322
	1860	5,385	26,935,560	(2)	(2)	36,174	8,544,117	32,606	3,568	.....	(3)	30,840,531	50,652,124
	1850	4,740	18,109,143	(2)	(2)	29,110	6,434,476	25,790	3,320	.....	(3)	18,101,131	29,602,507
Washington	1900	3,631	52,649,760	2,242	2,164,024	33,806	19,106,873	32,825	1,216	265	3,860,455	49,099,182	86,795,051
	1890	1,543	34,369,735	[1] 1,689	[1] 1,646,720	18,677	11,011,894	18,064	483	130	2,180,557	19,917,057	41,768,022
	1880	261	3,202,497	(2)	(2)	1,147	532,226	1,110	25	12	(3)	1,967,469	3,250,134
	1870	269	1,893,674	(2)	(2)	1,026	574,936	1,025	1	.....	(3)	1,435,128	2,851,052
	1860	52	1,296,200	(2)	(2)	870	453,601	866	4	.....	(3)	502,021	1,406,921
West Virginia	1900	4,418	55,904,298	1,857	1,570,797	33,272	12,969,237	29,083	3,349	840	3,945,814	43,006,880	74,838,330
	1890	2,376	28,118,030	[1] 2,629	[1] 1,419,218	19,340	6,911,779	17,074	1,455	811	1,960,929	23,729,089	38,702,125
	1880	2,375	13,888,390	(2)	(2)	14,311	4,313,965	12,900	346	1,065	(3)	14,027,888	22,867,126
	1870	2,444	11,084,520	(2)	(2)	11,672	4,322,164	10,728	287	657	(3)	14,503,701	24,102,201
Wisconsin	1900	16,187	330,568,779	10,760	10,608,383	142,076	58,407,597	120,131	16,266	5,679	30,935,854	208,838,167	360,818,942
	1890	10,417	246,515,404	[1] 12,025	[1] 8,885,441	120,006	42,958,267	105,320	12,751	1,935	18,602,764	145,437,016	248,546,164
	1880	7,674	73,821,802	(2)	(2)	57,109	18,814,917	48,255	6,241	2,613	(3)	85,796,178	128,255,480
	1870	7,013	41,981,872	(2)	(2)	43,910	13,575,642	40,296	2,114	1,500	(3)	45,851,266	77,214,326
	1860	3,064	15,831,581	(2)	(2)	15,414	4,268,708	14,641	773	.....	(3)	17,137,334	27,849,467
	1850	1,262	3,382,148	(2)	(2)	6,089	1,712,496	5,798	291	.....	(3)	5,414,931	9,293,068
Wyoming	1900	334	2,411,435	98	99,777	2,241	1,386,140	2,179	47	15	178,532	1,885,449	4,301,240
	1890	190	1,411,184	[1] 122	[1] 91,477	1,022	787,169	957	60	5	94,073	1,084,432	2,367,601
	1880	57	364,673	(2)	(2)	391	187,798	380	.....	11	(3)	601,214	898,494
	1870	32	889,400	(2)	(2)	502	347,578	500	1	1	(3)	280,156	765,424

[1] Includes proprietors and firm members, with their salaries; not included for 1900 in this table.
[2] Not reported separately.
[3] Not reported.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900.[1]

[At the census of 1880 salaried officials, clerks, etc., were not reported separately, and miscellaneous expenses were not reported. Proprietors and firm members, with their salaries, were included with salaried officials, clerks, etc., in 1890; their number only reported in 1900, but not included in this table. The group number indicates the group to which each industry is assigned in Table 5.]

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
	All industries	1900	512,254	$9,817,484,799	396,759	$403,711,233	5,308,406	$2,322,333,877	4,110,527	1,029,296	168,583	$1,027,755,778	$7,845,413,651	$13,004,400,143
		1890	355,415	6,525,156,486	461,009	391,988,208	4,251,613	1,891,228,321	3,327,042	803,686	120,885	631,225,085	5,162,044,076	9,372,437,283
		1880	253,852	2,790,272,606	.....	.....	2,732,595	947,953,795	2,019,035	531,639	181,921	.....	3,396,823,549	5,369,579,191
14	Agricultural implements	1900	715	157,707,951	10,046	8,363,210	46,582	22,450,880	46,174	214	194	11,394,656	43,944,628	101,207,428
		1890	910	145,313,997	3,717	3,704,667	38,827	18,107,094	38,327	288	212	11,129,548	31,603,265	81,271,651
		1880	1,943	62,109,668	.....	.....	39,580	15,359,610	38,313	73	1,194	.....	31,531,170	68,640,486
14	Ammunition	1900	33	6,719,081	204	370,568	5,231	2,560,954	3,163	2,028	40	1,078,803	7,436,748	13,027,635
		1890	35	4,368,529	109	140,581	2,158	969,951	1,381	754	23	292,856	2,759,782	6,538,959
		1880	4	824,000	.....	.....	1,066	361,778	498	553	15	.....	1,223,452	1,904,966
14	Artificial feathers and flowers.	1900	227	3,633,869	285	291,449	5,383	1,561,763	671	4,192	470	405,349	2,765,151	6,297,805
		1890	251	3,081,828	478	555,279	6,357	2,125,906	979	5,319	59	320,446	4,645,850	9,078,683
		1880	174	1,258,050	.....	.....	4,342	1,081,040	550	3,577	215	.....	2,444,418	4,879,324
4	Artificial limbs	1900	87	290,104	81	57,651	249	146,620	234	11	4	92,326	126,062	749,854
		1890	59	186,896	88	86,932	162	102,488	151	4	7	40,170	93,795	475,977
		1880	33	82,600	.....	.....	72	43,833	71	.....	1	.....	81,370	187,024
14	Artists' materials[2]	1900	21	376,736	32	37,858	200	79,267	120	74	6	29,418	249,107	497,046
		1890	39	361,460	64	63,145	242	102,196	210	23	9	45,400	190,850	531,785
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Awnings, tents, and sails	1900	858	4,342,728	450	347,357	4,400	2,038,613	2,604	1,761	35	523,961	6,480,685	11,728,843
		1890	581	3,063,009	737	626,506	3,135	1,581,729	1,979	1,133	23	325,853	4,150,180	7,829,003
		1880	151	522,700	.....	.....	1,268	334,463	526	699	43	.....	1,230,558	1,968,942
14	Axle grease	1900	29	577,195	85	82,966	127	55,238	111	16	.....	67,885	360,411	718,114
		1890	31	451,228	68	73,467	126	61,642	113	9	4	50,158	401,897	846,459
		1880	16	372,600	.....	.....	72	41,407	67	2	3	.....	209,152	365,048
10	Babbitt metal and solder	1900	51	3,115,568	145	172,423	535	294,584	530	4	1	182,246	7,998,369	9,191,409
		1890	36	954,654	88	103,946	173	84,288	170	3	.....	49,866	2,385,894	2,905,102
		1880	9	73,100	.....	.....	44	18,745	44	.....	.....	.....	214,193	262,950
2	Bags, other than paper[3]	1900	78	7,696,732	342	386,055	4,039	1,133,128	1,260	2,625	154	546,135	16,849,311	20,123,486
		1890	80	9,347,787	285	317,385	6,633	2,049,839	2,892	3,347	394	469,161	15,178,265	20,207,805
		1880	64	4,917,400	.....	.....	5,451	1,603,785	2,505	2,129	817	.....	10,085,787	13,238,253
6	Bags, paper	1900	63	6,900,291	394	415,500	2,029	683,783	1,076	935	18	282,133	4,659,001	7,359,975
		1890	56	2,321,797	182	180,378	1,200	399,714	586	653	11	216,584	3,167,717	5,023,793
		1880	80	1,304,700	.....	.....	1,569	439,620	546	883	140	.....	3,037,319	4,112,566
8	Baking and yeast powders	1900	191	8,337,723	749	835,281	1,988	717,000	959	946	33	2,482,306	7,126,967	14,568,380
		1890	150	3,587,919	426	426,889	1,441	574,241	873	543	25	705,991	4,273,796	7,406,806
		1880	110	1,350,600	.....	.....	1,042	466,252	660	326	56	.....	3,333,868	4,760,598
4	Baskets, and rattan and willow ware.	1900	550	2,989,568	185	142,921	4,396	1,280,511	3,138	920	338	177,129	1,398,374	3,851,244
		1890	403	2,702,713	429	265,114	3,303	1,004,021	2,355	657	291	250,471	1,398,483	3,633,592
		1880	304	1,852,917	.....	.....	3,119	657,405	1,976	552	591	.....	867,031	1,992,851
10	Bells	1900	23	1,038,305	73	62,382	663	307,991	593	65	5	97,265	602,856	1,247,730
		1890	22	590,420	58	43,447	372	193,780	355	14	3	86,658	389,701	823,010
		1880	20	793,120	.....	.....	773	280,169	570	14	189	.....	525,175	1,065,824
5	Belting and hose, leather	1900	105	7,410,219	443	484,874	1,667	913,937	1,605	28	34	418,155	7,500,413	10,623,177
		1890	93	4,973,420	279	334,139	1,342	780,615	1,286	36	20	268,278	6,132,704	8,633,634
		1880	96	2,748,799	.....	.....	1,227	606,087	1,138	39	50	.....	5,019,853	6,525,737
2	Belting and hose, linen	1900	7	526,059	34	43,932	254	64,102	65	184	5	64,802	452,430	717,137
		1890	9	795,909	19	29,842	273	123,524	101	168	4	46,332	427,865	777,942
		1880	1	10,000	.....	.....	10	4,500	10	.....	.....	.....	12,000	23,000
14	Belting and hose, rubber	1900	18	5,493,885	197	336,319	1,771	918,191	1,500	197	74	234,730	4,075,702	6,169,044
		1890	17	5,270,068	110	160,748	1,835	883,020	1,734	91	10	282,543	3,479,538	5,512,840
		1880	2	265,000	.....	.....	364	131,721	342	2	20	.....	863,000	1,085,000
15	Bicycle and tricycle repairing.[4]	1900	6,328	6,760,070	296	145,558	5,749	2,505,974	5,432	33	284	1,184,155	5,224,886	13,766,033
		1890	83	172,070	94	59,542	212	102,141	207	.....	5	24,067	67,332	301,709
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	Bicycles and tricycles[4]	1900	312	29,783,659	2,034	1,753,235	17,525	8,189,817	16,700	517	308	2,252,604	16,792,051	31,915,908
		1890	27	2,058,072	128	123,714	1,797	982,014	1,747	15	35	242,018	718,848	2,568,326
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Billiard tables and materials.	1900	75	884,901	89	105,276	455	278,218	419	32	4	196,477	730,046	1,650,868
		1890	57	1,456,624	140	165,280	1,017	705,200	1,013	3	1	142,431	1,295,942	2,823,278
		1880	46	1,078,169	.....	.....	857	400,779	849	.....	8	.....	1,080,466	2,289,758

[1] Exclusive of statistics for Hawaii and for 85 governmental establishments in the District of Columbia.
[2] Included in other classifications in 1880.
[3] Includes 16 establishments in 1890 and 27 in 1880 reported as "bagging, flax, hemp, and jute," and 64 in 1890 and 37 in 1880 reported as "bags, other than paper."
[4] No reports received for this industry in 1880.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
14	Blacking	1900	121	$2,718,504	459	$507,094	1,250	$424,174	445	764	41	$617,009	$2,186,809	$4,504,965
		1890	71	1,403,087	207	280,412	832	331,232	409	357	66	264,715	1,484,203	2,900,402
		1880	48	494,625	.....	.....	436	168,188	251	174	11	.....	710,629	1,491,474
15	Blacksmithing and wheelwrighting.[1]	1900	51,771	54,976,341	339	217,718	36,193	17,974,264	35,718	1	479	3,610,401	24,701,682	85,971,630
		1890	28,000	34,500,139	24,328	13,297,189	26,539	13,499,738	26,332	11	196	2,510,586	14,645,096	54,304,639
		1880	38,802	30,269,932	.....	.....	50,634	16,200,800	49,813	35	786	.....	21,276,040	62,667,129
14	Bluing	1900	65	415,119	54	41,000	220	79,380	96	107	17	50,552	244,970	575,804
		1890	53	184,472	77	56,561	155	47,633	107	33	15	21,736	186,588	457,251
		1880	23	178,650	.....	.....	146	50,245	88	53	5	.....	197,463	344,824
8	Bone, ivory, and lamp black.	1900	15	782,247	21	23,650	85	46,107	85	.....	.....	75,678	105,712	359,787
		1890	24	1,627,651	62	64,247	323	152,041	302	.....	21	84,872	485,867	1,031,030
		1880	18	627,350	.....	.....	224	80,249	198	2	24	.....	440,068	661,376
6	Bookbinding and blank book making.	1900	954	12,744,628	1,076	1,077,790	15,971	6,671,666	7,592	7,872	507	1,575,936	7,702,543	20,790,358
		1890	805	10,062,034	1,342	1,395,468	12,473	5,508,483	6,484	5,752	237	1,214,297	6,007,417	17,067,780
		1880	588	5,798,671	.....	.....	10,612	3,927,349	5,127	4,831	654	.....	5,195,771	11,976,764
5	Boot and shoe cut stock	1900	342	7,003,080	342	302,889	6,155	2,230,691	3,784	2,212	159	490,548	17,860,282	23,242,892
		1890	344	5,401,834	511	432,240	4,992	1,891,031	3,152	1,738	102	411,472	13,744,655	17,903,846
		1880	172	1,210,300	.....	.....	2,885	735,482	1,235	1,422	228	.....	5,939,249	7,581,635
5	Boot and shoe findings	1900	186	3,277,958	211	177,929	2,993	1,127,784	1,759	1,176	58	233,353	4,627,048	7,145,820
		1890	138	1,793,123	202	175,864	2,081	596,073	990	1,022	69	163,865	1,965,173	3,459,328
		1880	135	770,800	.....	.....	1,498	451,075	758	652	88	.....	1,188,817	2,144,945
5	Boot and shoe uppers	1900	133	273,796	16	7,897	256	125,627	220	34	2	27,429	401,680	700,225
		1890	317	1,216,026	355	289,012	1,353	609,924	727	604	22	125,707	1,902,926	3,346,002
		1880	81	209,264	.....	.....	437	170,425	245	174	18	.....	448,104	790,842
15	Boots and shoes, custom work and repairing.	1900	23,560	9,262,134	133	81,864	9,698	4,128,361	9,444	126	128	2,429,529	8,288,664	26,550,678
		1890	20,803	14,230,081	18,467	9,328,352	16,981	7,422,377	16,452	405	124	2,786,701	10,403,383	34,856,651
		1880	16,013	11,364,273	.....	.....	22,667	7,993,706	21,474	824	369	.....	12,524,133	30,870,127
5	Boots and shoes, factory product.	1900	1,600	101,795,233	7,843	7,757,749	142,922	59,175,883	91,215	47,186	4,521	10,766,402	169,604,054	261,028,580
		1890	2,082	95,282,311	5,643	5,707,931	133,690	60,667,145	91,406	39,849	2,435	9,217,519	118,785,831	220,649,358
		1880	1,959	42,994,028	.....	.....	111,152	43,001,438	82,547	25,122	3,483	.....	102,442,442	166,050,354
14	Boots and shoes, rubber	1900	22	33,667,533	483	597,239	14,391	6,426,579	8,248	5,942	201	2,089,154	22,682,543	41,089,819
		1890	11	17,790,970	130	153,802	9,134	3,813,073	5,126	3,924	84	943,918	11,050,787	18,632,060
		1880	9	2,425,000	.....	.....	4,662	1,469,038	2,514	1,984	164	.....	6,023,053	9,705,724
7	Bottling[2]	1900	2,064	16,620,152	937	917,038	7,680	3,589,447	7,135	136	409	2,471,707	28,087,823	41,640,672
		1890	716	5,656,705	885	759,677	3,044	1,511,678	2,904	58	82	728,178	7,937,001	13,583,418
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Boxes, cigar	1900	315	3,288,272	216	172,014	4,609	1,439,599	2,137	2,255	217	245,853	3,061,193	5,856,915
		1890	291	3,374,461	412	331,717	5,125	1,802,666	2,771	2,133	221	337,496	3,567,320	7,091,948
		1880	221	1,023,777	.....	.....	2,365	748,657	1,274	718	373	.....	1,389,700	2,903,465
6	Boxes, fancy and paper	1900	729	14,979,305	1,368	1,269,358	27,653	8,151,625	7,739	18,192	1,722	1,507,391	11,765,424	27,316,317
		1890	688	9,277,973	1,005	1,042,801	18,949	5,827,099	5,567	12,866	516	941,498	7,893,941	18,805,330
		1880	369	2,496,495	.....	.....	9,678	2,373,948	2,194	6,836	648	.....	3,578,827	7,665,553
4	Boxes, wooden packing	1900	896	21,952,757	1,043	979,632	22,034	7,827,955	19,331	1,207	1,496	1,553,710	22,807,627	38,216,384
		1890	636	13,018,456	916	861,418	13,006	5,615,707	11,240	947	819	1,011,900	14,244,503	25,513,180
		1880	602	5,304,212	.....	.....	7,722	2,769,135	6,611	405	706	.....	7,674,921	12,687,068
10	Brass[3]	1900	10	503,367	27	33,680	162	98,796	159	.....	3	34,863	1,152,635	1,419,817
		1890	14	1,208,619	39	35,334	780	401,235	780	.....	.....	53,046	1,765,605	2,549,860
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	Brass and copper, rolled	1900	19	15,629,766	351	524,899	6,759	3,512,781	6,330	352	27	798,432	30,000,632	37,536,325
		1890	16	8,041,593	103	197,400	2,698	1,380,378	2,394	252	52	321,793	5,493,231	8,381,472
		1880	26	9,057,600	.....	.....	5,082	2,524,169	4,105	673	304	.....	9,523,157	14,329,731
10	Brass castings and brass finishing.	1900	442	21,925,039	860	1,044,546	11,964	6,070,762	11,055	765	144	1,222,263	18,871,141	30,343,044
		1890	453	18,663,286	960	1,164,156	10,943	5,758,338	10,277	549	117	1,222,989	12,249,607	24,344,434
		1880	396	5,740,237	.....	.....	6,237	2,729,794	5,573	263	401	.....	5,894,452	10,808,742
10	Brassware	1900	204	12,194,715	502	596,412	7,668	3,550,074	5,879	1,479	310	822,162	9,830,319	17,140,075
		1890	113	10,866,001	361	499,989	7,157	3,557,069	5,298	1,748	116	844,475	7,089,202	13,615,172
		1880	20	594,582	.....	.....	1,142	411,329	662	336	144	.....	948,118	1,523,093
1	Bread and other bakery products.	1900	14,917	81,049,553	9,177	6,067,103	60,271	27,893,170	47,926	10,452	1,893	10,427,891	95,221,915	175,657,348
		1890	10,484	45,758,489	13,921	9,668,788	38,841	19,120,259	33,345	4,672	824	6,388,722	72,507,579	128,421,535
		1880	6,396	19,155,286	.....	.....	22,488	9,411,328	18,925	2,210	1,353	.....	42,612,027	65,824,896
9	Brick and tile	1900	5,423	82,086,438	2,426	2,024,683	61,979	21,883,333	59,956	76	1,947	3,584,319	11,006,148	51,270,476
		1890	5,828	82,578,566	4,975	2,985,882	104,176	29,709,357	99,198	212	4,766	5,108,769	12,639,597	67,770,695
		1880	5,631	27,673,616	.....	.....	66,355	13,443,532	59,032	268	7,055	.....	9,774,884	32,833,587
14	Bridges	1900	196	16,768,948	716	860,774	12,181	6,711,260	12,152	1	28	1,240,399	16,258,561	30,151,624
		1890	137	10,960,218	539	730,231	8,382	4,951,133	8,359	.....	23	652,947	12,770,146	21,868,068
		1880	75	4,058,549	.....	.....	4,293	1,882,179	4,153	.....	140	.....	5,669,793	8,978,122
10	Bronze castings	1900	21	881,769	74	93,131	621	372,797	616	1	4	76,565	1,339,722	2,229,329
		1890	14	710,190	40	58,300	271	195,535	265	3	3	68,001	695,485	1,165,163
		1880	7	186,500	.....	.....	153	64,072	140	6	7	.....	498,470	670,912
14	Brooms and brushes	1900	1,626	9,616,780	900	757,631	10,349	3,788,046	7,433	2,452	464	864,094	9,546,854	18,490,847
		1890	1,285	7,743,832	1,428	1,017,633	9,556	3,299,393	7,145	1,786	625	611,554	6,900,553	14,156,383
		1880	980	4,186,397	.....	.....	8,778	2,424,040	5,798	1,715	1,260	.....	5,694,855	10,560,855
1	Butter, reworking[4]	1900	10	255,525	29	30,319	148	67,747	141	4	3	31,032	1,345,418	2,114,935
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Buttons	1900	238	4,212,568	339	296,358	8,685	2,826,238	4,086	4,131	468	393,862	2,803,246	7,695,910
		1890	106	3,089,265	205	262,787	3,331	1,411,089	1,544	2,176	111	256,846	1,551,603	4,216,795
		1880	124	2,013,350	.....	.....	5,825	1,645,130	2,128	3,052	645	.....	1,792,891	4,449,542
14	Calcium lights	1900	19	95,114	6	6,192	55	24,418	52	.....	3	11,888	34,982	118,666
		1890	15	73,402	17	15,418	80	34,152	80	.....	.....	6,696	35,048	110,062
		1880	4	19,500	.....	.....	20	10,912	20	.....	.....	.....	25,031	51,443

[1] In 1880 includes 28,101 establishments reported as "blacksmithing" and 10,701 as "wheelwrighting."
[2] No reports received for this industry in 1880.
[3] Included in other classifications in 1880.
[4] No reports received for this industry in 1880 and 1890.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
6	Cardboard	1900	5	$1,168,495	59	$102,644	626	$264,427	344	218	64	$82,532	$705,527	$1,270,416
		1890	5	616,548	17	35,010	206	104,772	142	64	.....	38,281	701,764	1,070,805
		1880	8	443,000	.....	.....	345	116,410	166	126	53	.....	637,971	959,145
6	Card cutting and designing	1900	43	337,642	25	21,727	325	135,139	216	54	55	39,358	312,760	618,488
		1890	26	89,584	34	30,035	180	76,548	141	29	10	9,789	88,186	243,070
		1880	9	13,793	.....	.....	64	18,215	42	12	10	.....	15,610	51,670
15	Carpentering	1900	21,315	71,327,047	2,701	2,228,484	123,985	71,049,737	123,728	56	201	48,840,671	142,419,410	316,101,758
		1890	16,917	81,542,845	17,069	15,169,168	122,952	79,355,029	122,723	39	190	10,945,617	137,847,002	281,195,162
		1880	9,184	19,541,358	.....	.....	54,138	24,582,077	53,547	74	517	.....	51,621,120	94,152,139
2	Carpets and rugs, other than rag.	1900	133	44,449,299	687	881,898	28,411	11,121,383	13,860	12,468	2,083	2,751,879	27,228,719	48,192,351
		1890	173	38,208,842	385	510,857	28,736	11,122,259	13,655	13,076	2,005	1,819,441	28,644,905	47,770,193
		1880	195	21,468,587	.....	.....	20,371	6,835,218	10,104	8,570	1,697	.....	18,984,877	31,792,802
2	Carpets, rag	1900	1,014	975,190	61	32,929	1,504	492,656	1,099	348	57	110,991	681,311	1,993,756
		1890	854	975,381	782	339,631	982	310,488	745	191	46	78,132	726,419	1,714,480
		1880	396	252,604	.....	.....	724	190,792	573	88	63	.....	424,943	861,710
4	Carpets, wood	1900	31	412,357	49	34,950	608	362,112	603	4	1	67,403	418,343	1,056,702
		1890	6	333,000	19	18,464	309	136,932	305	4	.....	41,781	210,814	511,700
		1880	5	41,600	.....	.....	119	23,750	108	.....	11	.....	23,500	102,170
12	Carriage and wagon materials.	1900	588	19,085,775	1,023	1,002,199	15,387	5,987,267	14,949	233	205	1,202,666	13,048,608	25,027,173
		1890	539	13,028,161	932	842,194	9,996	4,366,233	9,532	236	228	821,743	7,387,904	16,262,293
		1880	412	7,034,718	.....	.....	7,502	2,733,004	7,237	35	230	.....	4,781,095	10,114,352
12	Carriages and sleds, children's.	1900	77	2,906,472	172	158,916	2,726	1,090,296	2,481	164	81	399,142	1,996,070	4,289,695
		1890	87	3,158,412	210	176,050	2,726	1,154,905	2,391	280	55	248,126	1,900,907	4,094,255
		1880	67	770,000	.....	.....	1,310	462,852	1,152	70	88	.....	868,054	1,677,776
12	Carriages and wagons	1900	7,632	118,187,838	4,302	4,073,932	62,540	29,814,911	61,281	846	413	6,261,469	56,676,073	121,537,276
		1890	8,614	104,210,602	9,194	7,533,221	64,259	32,665,301	63,070	627	562	6,022,972	49,889,173	114,551,907
		1880	3,841	37,973,493	.....	.....	45,394	18,988,615	43,630	273	1,491	.....	30,597,086	64,951,617
12	Cars and general shop construction and repairs by steam railroad companies.[1]	1900	1,296	119,580,273	7,096	6,210,247	173,652	96,062,329	173,209	364	79	6,293,987	109,539,013	218,238,277
		1890	716	76,192,477	1,953	1,584,242	106,632	60,213,433	106,448	128	56	95,054	66,561,526	129,461,698
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	Cars, railroad and street, and repairs, not including establishments operated by steam railroad companies.[2]	1900	193	106,721,188	1,711	1,966,310	44,063	28,342,763	43,710	115	238	3,390,922	70,046,354	107,186,359
		1890	166	48,460,687	781	866,394	35,148	18,579,304	34,689	256	203	1,944,336	47,528,561	76,352,199
		1880	130	9,272,680	.....	.....	14,232	5,507,753	13,885	13	334	.....	19,780,271	27,997,591
14	Celluloid and celluloid goods.[3]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	12	3,158,487	84	172,341	939	447,120	687	250	2	482,016	856,180	2,575,786
		1880	6	1,214,000	.....	.....	736	242,798	452	175	109	.....	389,262	1,261,540
4	Charcoal[4]	1900	183	811,225	23	15,986	1,786	431,381	1,784	.....	2	70,150	405,339	1,133,638
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	175	457,484	.....	.....	1,401	390,697	1,393	2	6	.....	320,735	975,540
1	Cheese, butter, and condensed milk.[5]	1900	9,355	36,508,015	2,828	915,442	12,865	6,170,670	11,694	1,049	122	1,690,766	109,151,205	131,199,277
		1890	4,712	16,624,163	2,320	968,604	12,601	4,422,101	11,775	725	101	875,182	51,364,574	62,086,043
		1880	3,932	9,604,803	.....	.....	7,903	1,546,495	6,419	1,330	154	.....	18,363,579	25,742,510
8	Chemicals[6]	1900	459	89,091,430	2,123	2,923,033	19,054	9,401,467	18,132	856	66	4,363,868	34,564,187	62,676,730
		1890	563	55,032,452	1,914	2,383,432	15,038	7,308,411	11,911	2,995	132	4,418,170	33,694,927	59,352,548
		1880	595	28,983,458	.....	.....	9,724	4,222,663	8,318	1,138	268	.....	24,665,766	38,640,458
9	China decorating[1]	1900	169	372,017	38	26,346	360	148,004	153	186	21	52,786	261,819	693,800
		1890	78	499,647	114	91,904	353	162,620	206	141	6	47,879	364,778	847,555
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	Chocolate and cocoa products.	1900	24	6,890,732	289	371,063	1,314	525,875	688	592	34	773,527	6,876,682	9,666,192
		1890	11	2,630,067	70	140,557	893	456,047	544	343	6	232,891	2,892,219	4,221,675
		1880	7	530,500	.....	.....	223	82,258	110	113	.....	.....	812,403	1,302,153
14	Cleansing and polishing preparations.	1900	154	943,328	227	205,410	508	209,438	342	153	13	194,489	965,242	2,193,019
		1890	56	304,160	89	74,689	301	102,260	207	86	8	40,801	382,120	865,904
		1880	21	412,325	.....	.....	209	91,455	181	15	13	.....	237,070	500,280
10	Clocks	1900	46	8,792,653	260	352,536	6,037	2,650,703	4,519	1,371	147	382,846	3,028,606	7,157,856
		1890	27	5,727,202	94	127,500	3,491	1,808,025	2,942	510	39	272,984	1,457,778	4,228,846
		1880	22	2,474,900	.....	.....	3,940	1,622,693	2,807	630	503	.....	1,908,411	4,110,267
2	Cloth, sponging and refinishing.	1900	46	288,894	39	34,924	534	268,191	525	2	7	93,295	17,490	566,000
		1890	23	229,335	42	43,672	354	200,630	348	4	2	40,493	34,182	399,814
		1880	20	137,350	.....	.....	176	62,790	135	18	23	.....	71,960	222,560
2	Clothing, horse	1900	26	653,545	55	47,012	575	176,687	178	339	58	83,246	847,846	1,305,164
		1890	31	1,028,523	71	74,231	881	239,074	265	523	93	57,894	777,570	1,572,265
		1880	3	410,000	.....	.....	565	137,400	73	492	.....	.....	458,700	695,000
2	Clothing, men's[7]	1900	28,014	173,034,543	14,150	13,723,046	191,043	79,434,932	97,251	89,874	3,918	52,234,824	197,742,067	415,256,391
		1890	18,658	182,552,938	26,587	23,675,358	217,270	87,714,314	119,112	96,077	2,081	28,419,424	179,425,661	378,022,815
		1880	6,166	79,861,696	.....	.....	160,813	45,940,358	77,255	80,994	2,564	.....	131,363,282	209,548,460
15	Clothing, women's, dressmaking.[1]	1900	14,479	13,815,221	908	750,658	45,595	14,352,453	4,379	40,835	381	3,342,143	16,503,754	48,356,034
		1890	19,587	12,883,079	18,985	9,227,902	48,613	13,145,734	1,056	47,164	393	3,177,570	23,393,829	57,071,732
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] No reports received for this industry in 1880.

[2] Includes 108 establishments in 1900 and 78 in 1890 reported as "cars and general shop construction and repairs by street railroad companies;" 65 in 1900 and 71 in 1890 reported as "cars steam railroad, not including operations of railroad companies;" and 20 in 1900 and 17 in 1890 reported as "cars, street railroad, not including operations of railroad companies."

[3] Included in other classifications in 1900.

[4] Included in "timber products, not manufactured at mill," in 1890.

[5] Includes 113 establishments in 1900 and 160 in 1890 reported as "cheese and butter, urban dairy products," and 9,242 in 1900 and 4,552 in 1890 reported as "cheese, butter, and condensed milk, factory product."

[6] In 1880 includes 3 establishments reported as "coal tar," and 592 as "drugs and chemicals."

[7] Includes 22,134 establishments in 1900 and 13,591 in 1890 reported as "clothing, men's, custom work and repairing," 5,731 in 1900 and 4,867 in 1890 reported as "clothing, men's, factory product," and 149 in 1900 and 200 in 1890 reported as "clothing, men's, factory product, buttonholes."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
2	Clothing, women's, factory product.	1900	2,701	$48,431,544	6,715	$6,573,618	33,739	$32,586,101	26,109	56,866	764	$11,733,695	$84,704,592	$159,339,539
		1890	1,224	21,259,528	2,859	3,384,515	39,149	15,428,272	12,963	25,913	273	3,620,042	34,277,219	68,164,019
		1880	562	8,207,273	.....	.....	25,192	6,661,005	2,594	22,253	345	.....	19,559,227	32,004,794
1	Coffee and spice, roasting and grinding.	1900	458	28,436,397	2,749	2,951,460	6,387	2,486,759	3,455	2,809	123	3,435,257	55,112,203	69,527,108
		1890	358	16,996,009	1,356	1,447,385	3,766	1,815,634	2,751	941	74	1,229,926	65,961,465	75,042,010
		1880	300	6,366,392	.....	.....	2,716	1,370,699	2,125	438	153	.....	18,201,302	22,924,894
15	Coffins and burial cases, trimming and finishing.[1]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	1,368	6,016,385	1,408	1,052,712	1,826	946,441	1,778	42	6	443,882	3,656,859	7,783,140
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Coffins, burial cases, and undertakers' goods.	1900	217	13,585,162	948	1,023,398	6,840	3,077,481	5,581	1,179	80	832,644	6,945,848	13,952,308
		1890	194	11,097,736	673	712,812	5,751	2,842,444	4,806	858	87	822,312	5,547,082	12,230,554
		1880	769	5,735,392	.....	.....	4,415	1,895,805	3,762	481	172	.....	3,776,222	8,157,760
14	Coke	1900	241	36,502,679	915	797,296	16,999	7,085,736	16,932	.....	67	2,184,968	19,665,532	35,585,445
		1890	218	17,462,729	161	113,632	8,998	4,072,632	8,942	.....	56	394,784	11,509,737	16,498,345
		1880	149	5,545,058	.....	.....	3,142	1,198,654	3,068	3	71	.....	2,995,441	5,359,489
6	Collars and cuffs, paper[2]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	3	237,764	9	13,512	82	35,125	53	29	.....	7,627	223,077	301,093
		1880	13	901,233	.....	.....	435	151,576	151	284	.....	.....	1,166,000	1,582,571
14	Combs	1900	34	832,791	71	57,541	1,399	572,467	1,174	198	27	112,243	951,514	1,976,129
		1890	31	742,200	65	68,321	742	364,715	602	123	17	61,133	344,120	1,020,835
		1880	38	533,390	.....	.....	1,026	374,785	743	250	33	.....	341,719	951,395
1	Confectionery	1900	4,297	35,155,361	5,628	4,171,191	33,583	10,867,687	15,855	15,849	1,879	6,011,512	45,584,153	81,290,543
		1890	2,921	23,326,799	5,487	3,850,441	21,724	7,783,007	11,882	9,254	588	3,302,708	31,116,629	55,997,101
		1880	1,450	8,486,874	.....	.....	9,801	3,242,852	6,157	2,827	817	.....	17,125,775	25,637,033
4	Cooperage	1900	2,146	22,568,873	838	843,668	22,938	9,200,303	22,264	76	598	1,375,524	23,299,312	40,576,462
		1890	2,652	17,806,554	2,097	1,609,117	22,555	10,056,249	22,031	194	330	1,269,618	20,636,911	38,617,956
		1880	3,898	12,178,726	.....	.....	25,973	8,992,603	24,435	42	1,496	.....	18,441,064	33,714,770
10	Copper, smelting and refining.[3]	1900	47	53,063,395	488	954,905	11,324	8,529,021	11,272	4	48	1,522,325	122,174,129	165,131,670
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Cordage and twine	1900	105	29,275,470	436	666,936	13,114	4,113,112	7,341	4,797	976	1,716,205	26,632,006	37,849,651
		1890	150	23,351,888	414	560,639	12,385	3,976,232	6,412	5,010	963	1,020,697	24,051,666	33,312,559
		1880	165	7,140,475	.....	.....	5,435	1,558,676	2,926	1,480	1,029	.....	9,330,261	12,492,171
1	Cordials and sirups	1900	39	1,153,006	112	120,994	362	116,917	228	130	4	158,157	1,505,096	2,107,132
		1890	40	783,567	106	121,874	281	111,114	202	58	21	121,207	1,231,141	1,903,200
		1880	16	128,400	.....	.....	81	42,928	81	.....	.....	.....	210,506	331,233
4	Cork, cutting	1900	62	2,683,683	136	195,468	2,340	687,796	1,013	1,144	183	329,081	2,403,829	4,392,364
		1890	65	1,869,360	119	125,649	2,019	636,869	842	884	293	119,710	1,501,902	2,840,359
		1880	46	872,384	.....	.....	792	232,846	382	270	140	.....	976,274	1,566,555
14	Corsets	1900	216	7,481,048	842	986,424	12,729	3,791,509	1,276	11,096	357	1,030,745	6,555,467	14,878,116
		1890	205	6,640,056	442	553,776	10,928	3,509,039	1,781	9,093	104	908,510	5,662,140	12,401,575
		1880	113	1,611,695	.....	.....	8,802	1,745,969	776	7,487	539	.....	3,686,821	6,494,705
2	Cotton, cleaning and rehandling.[4]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	13	116,210	14	10,820	196	43,248	88	100	8	12,026	415,605	525,595
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Cotton, compressing	1900	111	8,323,558	407	346,321	2,742	788,288	2,725	5	12	442,645	353,910	2,629,590
		1890	52	7,864,373	215	187,811	2,785	1,040,808	2,778	.....	7	324,469	254,309	2,624,027
		1880	29	3,243,800	.....	.....	1,008	573,005	1,008	.....	.....	.....	326,808	1,271,700
2	Cotton, ginning[5]	1900	11,369	23,228,130	1,174	129,964	14,135	1,930,039	14,083	11	41	571,692	3,912,303	14,748,270
		1890	1,637	3,221,987	740	130,913	6,920	650,885	6,721	93	106	176,004	542,481	2,367,450
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Cotton goods[6]	1900	1,055	467,240,157	4,902	7,350,199	302,861	86,689,752	185,721	126,882	40,258	22,112,678	176,551,527	339,200,320
		1890	905	354,020,843	2,709	3,464,734	218,876	66,024,538	88,837	106,607	23,432	16,716,524	154,912,979	267,981,724
		1880	1,005	219,504,794	.....	.....	185,472	45,614,419	64,107	91,148	30,217	.....	113,765,537	210,950,383
2	Cotton waste[6]	1900	26	2,560,759	65	93,505	1,116	336,827	570	546	.....	177,604	4,950,490	5,880,024
		1890	31	711,956	50	51,216	279	103,041	198	76	5	55,700	1,592,041	1,906,622
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	Crucibles	1900	11	1,843,616	89	154,050	671	250,654	402	269	.....	198,029	1,673,290	2,607,308
		1890	10	908,152	24	38,960	230	110,250	218	6	6	77,354	396,296	726,708
		1880	11	1,450,250	.....	.....	694	284,169	691	.....	3	.....	955,841	1,445,641
3	Cutlery and edge tools	1900	309	16,532,383	805	928,764	12,069	5,673,619	11,158	649	262	945,805	5,116,042	14,881,478
		1890	474	12,082,638	779	717,219	8,708	4,200,933	8,348	248	112	790,045	3,465,124	11,110,614
		1880	429	9,859,885	.....	.....	10,519	4,447,349	9,458	380	681	.....	4,682,222	11,661,370
15	Dentistry, mechanical[7]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	3,214	4,019,637	3,251	2,712,788	1,486	768,401	1,235	195	56	870,592	1,475,255	7,864,299
		1880	753	773,670	.....	.....	541	269,044	469	35	37	.....	455,037	1,860,647
14	Dentists' materials	1900	68	2,112,236	182	184,494	1,017	508,603	631	351	35	134,046	2,109,231	3,721,150
		1890	24	2,908,113	203	324,978	1,011	542,648	772	188	51	406,125	993,855	2,594,888
		1880	20	840,800	.....	.....	490	237,729	405	70	15	.....	247,824	860,758
8	Druggists' preparations, not including prescriptions.[5]	1900	250	16,820,120	2,046	2,274,940	5,766	2,041,061	2,600	3,110	56	3,860,429	11,022,417	28,192,785
		1890	1,805	4,624,814	1,909	1,099,014	2,031	839,686	1,773	209	49	663,883	2,411,851	6,659,797
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Drug grinding[5]	1900	26	2,837,911	102	126,623	644	291,823	545	88	11	224,335	3,315,228	4,308,144
		1890	13	337,885	25	28,883	148	74,711	132	15	1	37,213	192,321	436,766
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] No reports received for this industry in 1880 and 1900.
[2] Included in "all other industries" in 1900.
[3] No reports received for this industry in 1880 and 1890.
[4] No reports received for this industry in 1880; included in "all other industries" in 1900.
[5] No reports received for this industry in 1880.
[6] In 1900 includes 973 establishments reported as "cotton goods" and 82 as "cotton small wares."
[7] No reports received for this industry in 1900.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
15	Dyeing and cleaning	1900	1,810	$4,678,211	595	$292,460	5,424	$2,271,066	3,167	2,128	129	$959,067	$1,434,292	$7,567,358
		1890	976	3,041,178	1,198	820,169	3,991	1,717,387	2,313	1,618	60	625,052	1,103,556	5,267,819
		1880	303	851,110	.....	.....	1,467	511,886	893	499	75	.....	581,886	1,613,948
2	Dyeing and finishing textiles.	1900	298	60,648,104	1,318	2,267,128	29,776	12,726,316	24,419	4,253	1,104	4,137,947	17,958,137	44,968,331
		1890	248	38,450,800	666	805,291	19,601	8,911,720	16,510	2,298	793	3,131,081	12,385,220	28,900,560
		1880	191	26,223,981	.....	.....	16,698	6,474,364	12,788	2,038	1,872	.....	13,664,295	32,297,420
8	Dyestuffs and extracts	1900	77	7,839,034	229	312,109	1,647	787,942	1,607	35	5	458,212	4,745,912	7,350,748
		1890	62	8,645,458	191	252,836	2,111	1,037,651	2,099	4	8	380,030	6,500,928	9,292,514
		1880	41	2,363,700	.....	.....	992	512,097	976	10	6	.....	3,918,741	5,253,038
14	Electrical apparatus and supplies.[1]	1900	580	83,130,948	4,987	4,563,112	40,890	20,190,344	34,150	6,158	582	6,788,314	48,916,440	91,848,889
		1890	189	18,997,337	683	849,188	8,802	4,517,050	7,289	1,469	44	1,154,462	8,819,498	19,114,714
		1880	76	1,509,758	.....	.....	1,271	683,164	1,132	72	67	.....	1,116,470	2,655,036
14	Electrical construction and repairs.[2]	1900	1,162	5,438,087	799	624,965	5,949	3,312,126	5,785	98	66	875,207	7,673,507	15,907,420
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Electric light and power[3]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	144	33,838,549	210	271,381	1,794	1,285,242	1,791	1	2	755,201	1,155,789	4,783,224
		1880	3	425,000	.....	.....	229	117,500	214	.....	15	.....	150,650	458,400
10	Electroplating	1900	422	1,460,692	123	98,076	2,275	1,036,750	2,061	108	106	221,674	836,726	3,007,455
		1890	313	2,051,134	397	368,723	1,765	891,752	1,602	95	68	182,826	1,048,057	3,121,642
		1880	221	865,898	.....	.....	1,441	620,848	1,257	89	95	.....	663,588	1,975,700
9	Emery wheels	1900	34	1,489,527	125	126,577	546	303,091	544	2	.....	133,466	508,753	1,381,675
		1890	17	823,059	47	47,244	245	135,356	241	2	2	81,148	186,579	726,425
		1880	11	397,900	.....	.....	112	58,253	111	.....	1	.....	109,952	322,022
14	Enameling and enameled goods.[4]	1900	129	9,184,178	303	304,950	7,675	2,259,003	5,686	1,675	314	338,992	5,466,971	9,978,509
		1890	46	422,715	70	72,464	508	224,133	371	115	22	39,607	171,658	626,884
		1880	22	295,200	.....	.....	387	98,762	324	54	9	.....	306,379	504,269
14	Engravers' materials	1900	12	104,741	13	22,154	79	46,064	79	.....	.....	18,690	148,270	289,339
		1890	16	139,920	22	20,889	139	76,450	137	1	1	13,959	61,985	203,764
		1880	11	54,500	.....	.....	70	39,840	66	3	1	.....	26,464	85,764
6	Engraving and diesinking	1900	414	790,461	68	63,773	1,034	572,874	904	59	71	147,578	225,637	1,683,690
		1890	382	794,554	467	472,422	1,168	696,651	1,105	39	24	150,239	434,506	2,187,157
		1880	246	416,840	.....	.....	852	419,646	698	62	92	.....	262,828	1,180,165
6	Engraving, steel, including plate printing.	1900	286	5,061,520	313	338,347	3,299	2,006,824	2,114	1,085	100	434,629	1,206,462	5,068,558
		1890	134	2,924,125	264	305,178	2,296	1,576,405	1,384	883	29	155,902	742,765	3,347,804
		1880	55	2,387,050	.....	.....	1,916	1,951,745	1,118	661	137	.....	648,994	2,998,616
6	Engraving, wood	1900	145	231,817	22	22,630	337	206,537	309	6	22	57,638	68,272	616,166
		1890	285	480,990	341	355,913	945	600,453	904	8	33	106,791	157,656	1,555,418
		1880	167	183,733	.....	.....	509	333,590	468	20	21	.....	68,605	734,728
6	Envelopes	1900	51	5,612,509	313	316,360	2,984	1,150,463	906	2,040	38	430,915	3,665,275	6,299,330
		1890	41	3,218,466	176	246,006	2,325	812,544	598	1,707	20	346,129	2,530,793	4,855,680
		1880	12	923,800	.....	.....	1,204	344,143	233	948	23	.....	2,346,500	3,000,617
8	Explosives[5]	1900	97	19,465,846	768	914,447	4,502	2,383,756	4,349	117	36	1,096,604	10,334,974	17,125,418
		1890	69	13,539,478	197	309,008	2,353	1,240,502	2,281	39	33	1,168,920	5,481,723	11,352,615
		1880	54	6,585,185	.....	.....	1,340	675,414	1,316	21	3	.....	3,271,549	5,802,029
14	Fancy articles, not elsewhere specified.	1900	392	5,081,806	714	614,782	5,718	1,921,578	2,417	3,056	245	719,716	4,061,400	9,046,842
		1890	377	2,386,317	558	444,836	3,396	1,284,982	1,327	1,995	74	276,390	1,844,556	4,810,450
		1880	151	1,359,450	.....	.....	2,793	1,036,672	1,676	654	463	.....	1,065,335	2,817,230
2	Felt goods	1900	36	7,125,276	136	231,065	2,688	1,024,835	1,957	658	73	356,164	3,801,028	6,461,691
		1890	34	4,460,621	124	157,916	2,142	883,380	1,474	506	162	232,871	2,809,937	4,654,768
		1880	26	1,958,254	.....	.....	1,524	439,760	1,203	233	88	.....	2,530,710	3,619,652
8	Fertilizers	1900	422	60,685,753	1,712	2,124,972	11,581	4,185,289	11,435	131	15	3,734,285	28,958,473	44,657,385
		1890	390	40,594,168	1,132	1,253,961	9,026	3,417,870	8,863	88	75	2,790,082	25,113,874	39,180,844
		1880	364	17,913,660	.....	.....	8,598	2,648,422	8,377	75	146	.....	15,595,078	23,650,795
8	Files	1900	86	3,857,647	127	153,875	3,160	1,277,199	2,649	340	171	229,076	1,166,414	3,403,906
		1890	140	2,991,988	231	228,365	2,435	1,217,576	2,258	74	103	130,310	1,038,943	3,179,649
		1880	179	1,666,550	.....	.....	2,508	957,412	2,191	49	268	.....	787,569	2,486,533
8	Firearms	1900	32	6,916,231	228	243,206	4,482	2,542,366	4,402	33	47	561,590	1,305,421	5,444,659
		1890	34	4,672,424	99	124,274	2,660	1,575,931	2,637	14	9	202,656	485,946	2,922,514
		1880	39	8,115,489	.....	.....	4,862	2,700,281	4,578	87	197	.....	1,859,026	5,736,936
14	Fire extinguishers, chemical.	1900	17	136,933	47	39,348	64	32,828	63	1	.....	23,134	70,874	217,833
		1890	9	405,733	26	32,284	56	25,594	55	1	.....	18,859	57,786	195,834
		1880	3	400,000	.....	.....	119	84,750	117	.....	2	.....	81,840	204,693
14	Fireworks[6]	1900	46	1,086,133	136	145,570	1,638	506,990	880	606	152	81,530	627,761	1,786,271
		1890	22	507,266	39	47,805	518	165,298	289	197	32	25,483	188,938	692,542
		1880	39	579,750	.....	.....	735	216,069	313	217	205	.....	840,877	1,391,132
1	Fish, canning and preserving.[7]	1900	348	19,514,215	618	585,160	13,410	4,229,638	9,731	2,533	1,146	883,363	13,232,001	22,253,749
		1890	110	3,186,975	182	120,253	5,020	1,128,143	3,787	841	392	280,660	4,710,709	6,972,268
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Flags and banners	1900	36	666,033	62	63,764	509	148,933	166	311	32	76,370	547,165	1,038,052
		1890	29	376,130	43	46,436	321	96,189	135	180	6	20,098	195,587	455,849
		1880	11	54,300	.....	.....	68	27,375	15	50	3	.....	48,200	119,600
1	Flavoring extracts	1900	352	3,319,716	594	654,225	1,254	478,975	653	573	28	461,462	3,294,380	6,314,552
		1890	148	1,361,800	262	233,071	507	208,715	341	150	16	153,406	1,430,120	2,614,514
		1880	58	404,615	.....	.....	374	129,343	238	104	32	.....	796,049	1,195,637

[1] In 1880 includes 36 establishments reported as "electrical apparatus and supplies," and 40 as "telegraph and telephone apparatus."
[2] No reports received for this industry in 1880 and 1890.
[3] In 1890 the data for this industry were confined to New York state, District of Columbia, and the city of St. Louis, Mo.; in 1900 no reports were received.
[4] Includes 19 establishments in 1890 and 3 in 1880 reported as "enameled goods," and 27 in 1890 and 19 in 1880 reported as "enameling."
[5] Includes 37 establishments in 1890 and 33 in 1880 reported as "gunpowder," and 32 in 1890 and 21 in 1880 reported as "high explosives."
[6] In 1880 reported as "explosives and fireworks."
[7] Included in other classifications in 1880.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children under 16 years.			
2	Flax, dressed	1900	4	$71,496	12	$6,589	211	$46,000	177	9	25	$2,481	$91,032	$158,650
		1890	6	1,361,635	20	28,400	497	198,723	217	255	25	45,567	638,285	981,233
		1880	79	620,455	.....	.....	1,019	268,420	786	57	176	.....	818,248	1,310,231
1	Flouring and grist mill products.	1900	25,258	218,714,104	5,790	5,404,750	37,073	17,703,418	36,419	497	157	10,325,588	475,826,345	560,719,063
		1890	18,470	208,473,500	16,078	8,897,340	47,403	18,188,402	46,889	308	206	13,162,037	434,152,290	513,971,474
		1880	24,338	177,361,878	.....	.....	58,407	17,422,316	58,239	42	126	.....	441,545,225	505,185,712
1	Food preparations	1900	644	20,998,102	1,472	1,422,182	8,154	3,051,718	5,259	2,619	276	3,567,186	23,675,165	38,457,651
		1890	302	6,715,535	674	593,922	3,478	1,222,913	2,236	1,150	92	881,628	8,129,925	14,105,485
		1880	109	1,293,905	.....	.....	1,333	318,258	863	312	158	.....	1,604,660	2,493,224
3	Foundry and machine shop products.[1]	1900	9,324	665,058,245	27,451	31,663,481	350,327	182,232,009	345,058	2,633	2,636	41,108,995	286,357,107	644,990,999
		1890	6,500	383,257,473	16,651	19,242,145	231,331	129,282,263	228,577	1,206	1,548	24,659,543	171,363,925	413,197,118
		1880	4,984	155,021,734	.....	.....	145,650	66,093,920	140,727	675	4,248	.....	104,041,972	215,442,011
14	Foundry supplies	1900	30	981,817	75	79,445	278	135,877	272	4	2	42,084	628,160	1,128,856
		1890	21	679,817	49	61,140	163	91,633	163	.....	.....	53,282	357,874	672,440
		1880	16	126,500	.....	.....	74	27,303	72	.....	2	.....	132,220	215,650
1	Fruits and vegetables, canning and preserving.	1900	1,808	27,743,067	1,741	1,277,028	36,401	8,050,793	13,542	19,699	3,160	2,423,673	37,524,297	56,668,313
		1890	886	15,316,185	1,119	592,390	49,752	4,651,317	18,469	25,714	5,579	1,289,681	18,665,163	29,862,416
		1880	411	8,247,488	.....	.....	31,905	2,679,960	10,638	15,463	5,804	.....	12,051,293	17,599,576
14	Fuel, artificial[2]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	1	100,000	.....	.....	70	10,000	70	.....	.....	.....	55,000	102,000
14	Fur goods[3]	1900	994	13,378,867	1,211	1,042,392	8,588	4,273,192	4,241	4,280	67	2,007,034	15,113,365	27,785,264
		1890	484	11,115,840	1,128	1,272,043	6,947	3,477,148	2,986	3,920	41	864,506	11,742,508	20,526,988
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Furnishing goods, men's	1900	470	20,168,222	2,135	2,160,142	30,216	9,680,077	4,311	25,283	622	2,460,838	23,404,969	43,902,162
		1890	586	12,299,011	1,433	1,511,323	20,778	6,078,026	4,152	16,415	211	2,330,360	15,280,572	29,870,946
		1880	161	3,724,664	.....	.....	11,174	2,644,155	1,274	9,565	335	.....	6,503,164	11,506,857
4	Furniture, including cabinetmaking, repairing, and upholstering.[4]	1900	7,972	117,982,091	7,235	7,042,172	100,018	42,638,810	93,323	3,742	2,953	10,724,283	65,499,877	153,168,309
		1890	5,973	93,642,147	8,917	7,976,186	83,587	40,816,566	77,437	3,800	2,350	7,935,924	55,125,830	135,627,332
		1880	6,008	47,831,529	.....	.....	62,662	25,048,414	55,474	2,908	4,280	.....	40,011,090	85,004,618
14	Furs, dressed	1900	92	798,030	46	49,124	835	478,190	750	82	3	49,291	519,699	1,400,455
		1890	26	266,921	37	48,618	400	238,890	391	4	5	13,294	203,199	651,296
		1880	192	3,598,887	.....	.....	4,134	1,389,284	1,463	2,604	77	.....	5,338,242	8,238,712
10	Galvanizing	1900	28	1,775,770	52	46,522	535	229,406	523	5	7	47,355	1,677,584	2,470,703
		1890	27	1,301,973	85	111,233	761	361,878	746	4	11	99,192	1,940,712	2,957,143
		1880	21	671,450	.....	.....	518	244,799	501	.....	17	.....	1,103,186	1,884,695
10	Gas and lamp fixtures	1900	223	10,009,239	875	992,003	7,642	3,504,301	5,582	1,754	306	1,023,036	5,013,597	12,577,806
		1890	108	7,218,964	516	712,699	5,014	2,879,813	4,743	233	38	793,283	2,208,124	7,825,672
		1880	35	3,248,400	.....	.....	3,069	1,469,287	2,660	243	166	.....	1,675,875	4,329,656
3	Gas and oil stoves[5]	1900	35	3,766,065	191	231,436	2,471	1,138,442	2,458	8	5	274,242	2,501,568	4,579,700
		1890	24	1,199,528	108	122,047	923	506,726	918	5	.....	118,617	840,126	2,137,944
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Gas, illuminating and heating.[6]	1900	877	567,000,506	5,904	5,273,500	22,459	12,436,296	22,446	10	3	14,769,022	20,605,356	75,716,693
		1890	742	258,771,795	1,864	2,143,169	12,996	8,499,625	12,952	.....	44	7,799,385	14,037,087	56,987,290
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	Gas machines and meters.	1900	114	4,605,624	257	251,382	2,167	1,185,959	2,093	64	10	191,058	1,943,769	4,392,730
		1890	38	1,603,426	73	83,627	998	625,902	979	19	.....	105,209	675,542	1,838,644
		1880	34	1,147,000	.....	.....	853	397,108	807	12	34	.....	636,676	1,334,091
9	Glass	1900	355	61,423,903	2,268	2,792,376	52,818	27,084,710	42,173	3,529	7,116	3,588,641	16,731,009	56,539,712
		1890	294	40,966,850	1,095	1,232,561	44,892	20,885,961	36,064	1,885	6,943	2,267,696	12,140,985	41,051,004
		1880	211	19,844,699	.....	.....	24,177	9,144,100	17,778	741	5,658	.....	8,028,621	21,154,571
9	Glass, cutting, staining, and ornamenting.	1900	417	4,013,534	475	487,270	4,931	2,403,591	4,303	507	121	652,726	3,540,097	8,776,006
		1890	279	2,504,089	474	541,860	3,320	1,954,560	3,107	155	58	272,138	2,188,287	6,090,378
		1880	170	945,180	.....	.....	1,586	706,768	1,281	139	166	.....	1,156,866	2,535,009
14	Gloves and mittens	1900	394	9,089,809	659	547,320	14,345	4,182,518	4,365	9,703	277	567,697	9,483,130	16,926,156
		1890	324	5,977,820	482	438,664	8,187	2,670,344	2,998	5,091	98	426,937	5,021,144	10,103,821
		1880	300	3,379,648	.....	.....	7,697	1,655,695	2,102	5,249	346	.....	4,351,469	7,379,605
1	Glucose	1900	8	41,011,345	147	280,284	3,288	1,755,179	3,266	22	.....	645,804	15,773,233	21,693,656
		1890	7	5,991,023	35	72,320	1,724	902,086	1,719	5	.....	923,429	5,029,131	7,756,686
		1880	7	2,255,000	.....	.....	1,192	605,802	1,167	5	20	.....	3,044,450	4,551,212
14	Glue	1900	61	6,144,407	159	192,147	1,618	685,096	1,462	120	36	341,170	3,767,023	5,389,096
		1890	62	4,859,266	139	147,363	1,697	676,089	1,580	50	67	420,913	2,510,927	4,270,460
		1880	82	3,916,750	.....	.....	1,801	600,018	1,486	186	129	.....	2,786,342	4,324,072
10	Gold and silver, leaf and foil.	1900	93	1,086,854	35	35,996	1,163	498,692	592	545	26	37,677	1,604,013	2,666,224
		1890	81	1,105,198	94	102,629	1,405	698,167	724	663	18	46,863	1,834,716	2,977,791
		1880	60	498,500	.....	.....	955	410,647	542	383	30	.....	1,011,792	1,614,040
10	Gold and silver, reducing and refining, not from the ore.	1900	57	1,944,124	76	83,484	219	141,400	217	1	1	87,878	10,932,361	11,811,537
		1890	38	4,763,397	83	145,422	883	625,608	879	2	2	354,113	30,005,096	32,035,520
		1880	28	817,100	.....	.....	304	178,696	299	.....	5	.....	9,128,811	9,548,188
14	Graphite and graphite refining.[7]	1900	11	411,128	16	20,750	137	64,376	137	.....	.....	16,038	216,560	429,173
		1890	3	38,614	3	1,434	18	9,008	17	1	.....	4,999	26,380	54,605
		1880	4	113,000	.....	.....	89	35,225	69	17	3	.....	144,100	210,000

[1] Includes 3 establishments in 1890 and 6 in 1880 reported as "cotton ties," 6,475 in 1890 and 4,958 in 1880 reported as "foundry and machine shop products," and 22 in 1890 and 20 in 1880 reported as "lightning rods."

[2] Included in "all other industries" in 1890 and 1900.

[3] Included in other classifications in 1880.

[4] In 1900 includes 6,158 establishments reported as "furniture, cabinetmaking, repairing, and upholstering," and 1,814 as "furniture, factory product;" in 1890 includes 4,054 reported as "furniture, cabinetmaking, repairing, and upholstering," 340 as "furniture, chairs," and 1,579 as "furniture, factory product;" in 1880 includes 4,843 reported as "furniture," 384 as "furniture, chairs," and 781 as "upholstering."

[5] Included in other classifications in 1880; in 1890 reported as "gas stoves."

[6] No report received for this industry in 1880.

[7] Reported as "graphite" in 1880 and 1890.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
14	Grease and tallow	1900	289	$7,080,692	256	$265,863	2,046	$1,069,683	2,031	9	6	$515,767	$8,761,857	$11,969,821
		1890	233	4,336,193	317	285,396	1,470	793,888	1,439	7	24	278,334	5,135,901	7,474,911
		1880	156	2,566,779	.....	.....	1,091	556,015	1,075	3	13	.....	11,779,482	13,730,013
9	Grindstones	1900	25	903,348	60	57,805	1,167	407,153	1,163	.....	4	35,391	268,811	1,088,909
		1890	9	78,750	8	5,204	124	51,776	123	.....	1	5,799	34,742	122,240
		1880	14	125,261	.....	.....	231	57,040	231	.....	.....	.....	85,366	184,555
14	Hairwork	1900	397	1,009,908	59	37,948	1,101	375,156	157	938	6	238,703	673,004	1,952,792
		1890	492	1,362,993	548	380,347	1,397	490,254	284	1,089	24	282,152	846,045	2,489,061
		1880	299	613,040	.....	.....	1,172	323,315	205	937	30	.....	667,132	1,467,723
2	Hammocks	1900	13	308,254	21	16,100	339	101,626	84	172	83	24,432	242,950	480,114
		1890	6	65,525	6	3,755	80	14,604	16	64	.....	3,369	26,535	60,254
		1880	5	22,300	.....	.....	82	17,576	28	49	5	.....	61,330	110,352
2	Hand knit goods	1900	86	205,488	22	13,362	304	75,870	43	260	1	27,359	124,009	352,226
		1890	28	78,468	38	26,188	186	35,851	29	149	8	20,352	88,280	205,775
		1880	39	152,700	.....	.....	1,814	137,720	50	1,378	386	.....	230,040	446,354
10	Hand stamps	1900	268	1,203,910	137	118,960	1,052	490,036	860	130	62	216,202	522,659	1,937,628
		1890	234	998,373	363	306,558	705	344,089	597	67	41	126,548	432,687	1,583,872
		1880	46	103,150	.....	.....	163	82,395	151	8	4	.....	103,648	318,618
3	Hardware	1900	381	39,311,745	1,844	2,054,704	26,463	11,422,758	22,850	2,492	1,121	2,612,416	14,605,244	35,846,656
		1890	350	26,271,840	1,176	1,255,419	18,495	8,656,067	16,252	1,532	711	2,400,827	10,186,442	26,726,463
		1880	492	15,363,551	.....	.....	16,801	6,846,913	14,481	814	1,506	.....	10,097,577	22,653,693
3	Hardware, saddlery	1900	80	3,335,274	222	247,117	2,940	1,217,202	2,663	210	67	334,350	1,690,168	4,149,489
		1890	102	3,376,356	262	286,970	2,917	1,260,325	2,594	258	65	250,668	1,624,849	4,118,195
		1880	64	1,655,550	.....	.....	2,815	960,432	2,167	321	327	.....	1,351,436	3,651,021
14	Hat and cap materials	1900	70	1,744,419	50	60,408	1,371	434,148	774	549	48	103,505	2,797,756	3,849,116
		1890	73	1,709,650	116	145,897	1,589	698,455	1,100	476	13	146,073	2,059,001	3,465,524
		1880	64	746,828	.....	.....	1,215	463,854	819	355	41	.....	1,325,231	2,217,250
2	Hats and caps, not including wool hats.[1]	1900	816	25,095,798	1,369	1,618,791	31,425	14,144,552	19,406	11,642	377	2,440,343	24,421,052	49,205,667
		1890	705	13,724,002	1,262	1,460,830	25,931	12,650,917	16,465	9,205	261	1,651,268	16,160,802	37,311,599
		1880	489	5,455,468	.....	.....	17,240	6,635,522	11,373	5,337	530	.....	9,341,352	21,303,107
14	Hay and straw baling[2]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	72	416,541	59	25,327	718	124,326	594	114	10	30,430	729,195	1,058,142
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	Hones and whetstones	1900	18	216,836	19	5,907	189	72,879	182	6	1	13,614	64,278	196,323
		1890	9	97,935	14	9,219	57	18,754	47	10	.....	1,918	6,332	54,136
		1880	25	132,525	.....	.....	225	52,961	136	83	6	.....	92,461	224,130
10	Hooks and eyes	1900	9	1,382,394	34	20,458	300	127,518	169	129	2	31,907	255,427	499,543
		1890	10	449,618	25	42,373	218	106,071	119	96	3	33,008	325,615	593,604
		1880	5	420,188	.....	.....	228	88,321	139	63	26	.....	214,986	370,078
3	Horseshoes, factory product.[3]	1900	6	344,151	13	25,957	167	90,527	149	.....	18	10,997	172,237	387,619
		1890	4	1,299,065	19	40,976	474	241,894	394	.....	80	42,019	519,449	1,110,032
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Hosiery and knit goods	1900	921	81,860,604	2,809	3,124,798	83,387	24,358,627	21,154	53,565	8,668	6,599,865	51,071,859	95,482,566
		1890	796	60,607,738	1,621	1,685,153	59,588	16,578,119	14,846	40,826	3,916	3,627,245	35,861,585	67,241,013
		1880	359	15,579,591	.....	.....	28,885	6,701,475	7,517	17,707	3,661	.....	15,210,951	29,167,227
14	House-furnishing goods, not elsewhere specified.	1900	210	10,638,248	584	628,314	5,212	1,837,552	3,034	2,066	112	739,841	9,198,803	14,280,575
		1890	133	6,939,659	260	272,824	3,417	1,506,929	2,515	818	84	366,750	4,832,791	8,347,285
		1880	48	456,806	.....	.....	592	216,890	405	137	50	.....	812,361	1,332,188
14	Ice, manufactured[4]	1900	775	38,019,507	1,531	1,226,331	6,880	3,402,745	6,838	8	34	1,773,692	3,312,393	13,780,978
		1890	222	9,846,468	439	345,191	2,826	1,095,996	2,811	.....	15	477,485	940,699	4,900,983
		1880	85	1,251,200	.....	.....	447	140,885	389	50	8	.....	158,112	544,763
14	Ink[5]	1900	104	3,821,514	401	478,316	787	412,140	636	143	8	417,607	2,109,142	4,372,707
		1890	73	2,655,219	263	336,962	761	420,228	585	164	12	210,230	1,664,785	3,504,979
		1880	63	1,251,050	.....	.....	480	230,284	339	79	62	.....	864,765	1,629,413
14	Instruments, professional and scientific.	1900	265	4,491,627	398	408,314	2,786	1,433,715	2,313	423	50	485,988	1,385,292	4,896,631
		1890	233	2,996,021	393	414,596	1,978	1,191,598	1,806	149	23	203,937	698,352	3,271,616
		1880	171	1,342,196	.....	.....	1,099	588,751	1,011	37	51	.....	444,425	1,639,094
3	Iron and steel	1900	668	573,391,663	9,211	11,737,488	222,490	120,820,276	219,518	1,071	1,901	32,274,100	522,398,932	803,968,273
		1890	645	372,678,018	3,820	5,687,606	148,715	78,977,900	147,357	2	1,356	16,918,753	295,777,343	430,954,348
		1880	1,005	230,971,884	.....	.....	140,978	55,476,785	133,203	45	7,730	.....	191,271,150	296,557,685
3	Iron and steel, bolts, nuts, washers, and rivets.	1900	72	10,799,692	420	571,073	7,660	2,991,857	6,436	701	523	531,095	8,071,071	13,978,382
		1890	82	10,789,821	386	467,748	6,955	3,004,454	6,087	310	558	597,605	6,746,304	12,373,031
		1880	100	4,933,019	.....	.....	5,064	1,981,300	4,264	182	618	.....	6,097,011	10,073,330
3	Iron and steel, doors and shutters.	1900	13	261,958	20	19,452	117	85,683	113	1	3	24,298	115,718	319,629
		1890	7	42,550	7	7,625	46	30,764	44	.....	2	4,210	29,792	88,515
		1880	6	79,375	.....	.....	223	103,269	211	.....	12	.....	296,600	495,060
3	Iron and steel, forgings	1900	91	9,677,193	322	410,845	4,688	2,559,433	4,582	23	83	425,596	5,213,550	10,439,742
		1890	90	7,152,145	240	324,527	4,208	2,314,114	4,111	11	86	366,812	4,875,697	9,042,563
		1880	91	3,598,241	.....	.....	3,210	1,329,151	2,977	95	138	.....	3,960,780	6,492,028
3	Iron and steel, nails and spikes, cut and wrought, including wire nails.	1900	102	10,751,359	431	444,301	4,477	2,042,250	3,569	794	114	614,761	8,561,571	14,777,299
		1890	188	24,334,549	516	672,741	16,600	7,144,253	14,967	879	754	1,244,624	22,960,737	34,227,517
		1880	62	3,877,805	.....	.....	2,910	1,255,171	2,011	519	380	.....	3,312,602	5,629,240
3	Iron and steel, pipe, wrought.	1900	19	18,343,977	193	266,319	5,536	2,495,898	5,486	.....	50	241,091	15,523,858	21,292,043
		1890	22	22,622,367	371	447,747	11,693	5,397,715	11,403	5	285	1,095,805	25,988,798	37,906,801
		1880	35	6,129,565	.....	.....	5,210	1,788,258	4,909	13	288	.....	9,480,049	13,292,162

[1] In 1900 includes 171 establishments reported as "fur hats" and 645 as "hats and caps, not including fur hats and wool hats."
[2] No reports received for this industry in 1880 and 1900.
[3] Included in other classifications in 1880.
[4] Reported as "ice, artificial," in 1880 and 1890.
[5] Includes 59 establishments in 1900 and 35 in 1890 reported as "ink, printing," and 45 in 1900 and 38 in 1890 reported as "ink, writing."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
3	Ironwork, architectural and ornamental.[1]	1900	672	$33,062,409	1,867	$2,034,417	20,646	$11,111,226	20,451	70	125	$2,874,291	$31,140,636	$53,508,179
		1890	724	21,968,172	1,514	1,715,756	17,158	10,285,701	16,999	9	150	1,344,813	18,620,510	37,745,294
		1880	220	1,400,197	.....	.....	1,934	844,614	1,880	.....	54	.....	1,699,465	3,410,086
14	Ivory and bone work	1900	70	939,714	90	67,127	1,384	529,051	1,041	258	40	66,540	930,224	1,873,357
		1890	64	1,894,549	105	95,498	1,240	591,867	1,061	160	19	111,293	921,975	1,918,607
		1880	55	775,564	.....	.....	1,105	414,701	843	137	125	.....	754,654	1,454,901
14	Japanning	1900	38	117,639	4	3,900	160	75,453	144	6	10	16,030	55,305	215,506
		1890	39	285,794	49	51,004	243	105,197	167	64	12	21,941	120,184	350,819
		1880	30	78,710	.....	.....	183	65,562	135	24	24	.....	63,743	190,080
10	Jewelry	1900	908	28,120,939	1,817	1,852,449	20,676	10,746,375	13,957	6,319	400	2,094,069	22,356,067	46,501,181
		1890	783	22,246,508	1,881	2,232,066	13,880	8,038,327	10,696	2,968	216	1,493,545	16,110,219	34,761,458
		1880	739	11,431,164	.....	.....	12,697	6,441,688	10,050	1,998	649	.....	10,324,990	22,201,621
14	Jewelry and instrument cases.	1900	63	547,753	52	34,886	819	322,566	385	399	35	81,194	435,717	1,156,977
		1890	76	634,900	128	140,647	910	446,927	620	272	18	70,679	483,441	1,454,053
		1880	17	62,000	.....	.....	138	51,000	102	31	5	.....	48,550	131,670
2	Jute and jute goods	1900	18	7,027,293	88	147,313	4,506	1,181,790	1,611	2,064	831	574,986	3,015,362	5,383,797
		1890	7	1,645,636	18	23,001	1,194	368,585	307	720	167	168,258	501,909	1,120,121
		1880	4	415,000	.....	.....	525	141,979	205	302	18	.....	447,094	696,982
9	Kaolin and other earth grinding.	1900	145	12,212,341	232	256,584	2,094	820,678	2,089	2	3	270,436	1,651,335	3,722,151
		1890	95	3,334,575	190	195,250	1,271	548,879	1,266	.....	5	222,527	1,330,290	2,846,862
		1880	63	1,291,527	.....	.....	898	310,909	866	3	29	.....	697,006	1,455,757
4	Kindling wood	1900	85	1,775,272	68	55,527	1,525	566,635	1,209	283	33	87,128	735,844	1,784,690
		1890	136	1,299,533	188	156,283	1,617	616,094	1,402	148	67	173,298	1,187,460	2,401,873
		1880	213	1,018,490	.....	.....	1,443	526,861	1,187	14	242	.....	1,403,010	2,480,953
6	Labels and tags	1900	47	848,115	96	119,889	754	289,273	464	261	29	99,478	387,517	1,104,652
		1890	47	646,815	92	90,937	618	288,960	415	149	54	60,882	402,371	1,048,304
		1880	19	451,600	.....	.....	328	149,268	191	81	56	.....	492,655	865,825
10	Lamps and reflectors	1900	156	6,375,474	499	568,516	4,725	2,076,980	3,604	1,011	110	692,459	3,497,236	8,341,374
		1890	93	2,550,214	220	284,313	2,066	1,035,960	1,870	144	52	197,759	1,542,092	4,039,359
		1880	74	1,873,625	.....	.....	1,730	742,423	1,478	81	171	.....	1,852,906	3,357,829
14	Lapidary work	1900	60	3,087,890	43	50,967	498	498,715	469	18	11	78,899	4,655,765	5,786,281
		1890	29	100,635	37	40,844	92	58,642	87	.....	5	13,294	124,852	315,604
		1880	55	176,875	.....	.....	252	142,075	207	17	28	.....	226,277	544,089
1	Lard, refined	1900	19	1,335,759	54	79,675	499	237,930	438	20	41	127,500	7,496,845	8,630,901
		1890	17	3,898,910	130	187,940	888	460,102	686	141	61	845,116	12,654,360	15,474,848
		1880	26	2,513,066	.....	.....	1,181	546,258	1,080	46	105	.....	21,948,826	28,195,702
4	Lasts	1900	65	1,484,966	97	108,250	1,131	649,654	1,108	3	20	142,006	526,670	1,879,742
		1890	52	906,820	78	85,989	696	485,743	694	.....	2	62,192	331,225	1,239,065
		1880	62	477,692	.....	.....	537	308,975	497	18	22	.....	221,905	765,296
10	Lead, bar, pipe, and sheet.	1900	34	3,949,330	151	201,619	605	321,598	602	2	1	222,135	6,279,497	7,477,824
		1890	28	4,892,525	143	169,133	637	383,188	635	2	.....	208,645	6,882,157	8,351,754
		1880	32	2,466,375	.....	.....	571	316,363	551	5	15	.....	4,863,209	5,600,671
10	Lead, smelting and refining.[2]	1900	39	72,148,933	425	754,913	8,319	5,088,684	8,312	.....	7	1,166,210	144,195,163	175,466,304
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	Leather board	1900	3	49,500	4	2,900	71	24,350	20	51	.....	3,440	49,451	108,734
		1890	8	445,743	22	20,711	163	71,452	161	2	.....	30,166	211,936	463,705
		1880	24	856,200	.....	.....	379	121,015	342	27	10	.....	400,975	689,300
5	Leather goods[3]	1900	313	5,467,294	635	559,740	6,253	2,256,280	3,611	2,367	275	867,151	6,162,148	11,717,401
		1890	156	3,126,104	341	360,472	2,834	1,166,135	1,837	903	94	204,529	3,112,892	5,827,802
		1880	60	570,650	.....	.....	1,051	466,193	879	131	41	.....	1,110,873	2,047,243
5	Leather, tanned, curried, and finished.[4]	1900	1,306	173,977,421	2,442	3,158,842	52,109	22,591,091	50,402	1,173	534	7,023,416	155,000,004	204,038,127
		1890	1,787	98,088,698	2,635	2,735,890	42,392	21,249,989	41,733	264	395	5,397,672	122,946,721	172,136,092
		1880	[5] 5,628	73,383,911	.....	.....	40,282	16,503,828	39,081	475	726	.....	156,384,117	200,264,944
9	Lime and cement	1900	1,000	48,833,730	1,408	1,417,185	19,107	7,749,815	18,952	35	120	2,293,268	11,041,577	28,689,135
		1890	873	18,752,396	667	528,909	13,043	4,944,313	12,947	7	89	984,009	5,667,863	15,741,801
		1880	615	6,332,338	.....	.....	5,669	1,579,313	5,493	7	169	.....	2,649,189	5,772,318
2	Linen goods	1900	18	5,688,999	117	142,941	3,283	1,036,839	1,044	1,787	452	337,095	2,550,517	4,368,159
		1890	3	908,589	9	13,070	574	167,134	218	295	61	65,583	268,907	547,273
		1880	5	406,800	.....	.....	484	124,046	211	200	73	.....	381,875	602,451
7	Liquors, distilled	1900	967	32,551,604	661	889,606	3,722	1,733,218	3,628	81	18	73,218,227	15,147,784	96,798,443
		1890	440	31,006,176	581	568,825	4,762	2,246,064	4,753	3	6	65,179,927	14,909,173	104,197,869
		1880	844	24,247,595	.....	.....	6,502	2,663,967	6,452	10	40	.....	27,744,245	41,063,663
7	Liquors, malt	1900	1,509	415,284,468	7,153	13,046,540	39,582	25,826,211	38,385	504	643	109,329,231	51,674,928	237,269,713
		1890	1,248	232,471,290	4,543	7,669,161	30,257	20,713,388	29,491	250	516	48,276,290	64,003,347	182,731,622
		1880	2,191	91,208,224	.....	.....	26,220	12,198,053	26,001	29	190	.....	56,836,500	101,058,385
7	Liquors, vinous	1900	359	9,838,015	344	365,498	1,163	446,055	1,099	61	3	552,338	3,689,330	6,547,310
		1890	236	5,792,783	234	181,280	1,048	299,453	1,016	26	6	270,377	1,818,012	2,846,148
		1880	117	2,581,910	.....	.....	967	216,559	781	57	129	.....	1,340,629	2,169,193
6	Lithographing and engraving.	1900	263	22,676,142	1,497	1,968,388	12,994	6,882,168	10,446	2,146	402	2,590,544	7,886,045	22,240,679
		1890	219	15,490,127	934	1,291,844	9,656	5,855,330	7,851	1,496	309	1,155,653	6,265,464	17,988,157
		1880	167	4,501,825	.....	.....	4,322	2,307,302	3,641	308	373	.....	2,755,264	6,912,338
15	Lock and gun smithing	1900	2,103	2,250,300	69	41,695	1,553	769,351	1,408	59	86	377,989	929,700	3,703,127
		1890	1,308	1,867,220	1,318	846,455	1,242	655,861	1,195	2	45	278,516	822,557	3,153,834
		1880	607	705,815	.....	.....	887	368,967	818	6	63	.....	398,642	1,317,810

[1] In 1880 includes 89 establishments reported as "ironwork, architectural and ornamental," and 131 as "iron railing, wrought."
[2] No report received for this industry in 1880 and 1890.
[3] Includes 17 establishments in 1890 and 3 in 1880 reported as "bellows," and 139 in 1890 and 57 in 1880 reported as "leather goods."
[4] In 1890 includes 38 establishments reported as "leather, dressed skins," 121 as "leather, morocco," 32 as "leather, patent and enameled," and 1,596 as "leather, tanned and curried;" in 1880 includes 2,319 reported as "leather, curried," 202 as "leather, dressed skins," 2 as "leather, patent and enameled," and 3,105 as "leather, tanned."
[5] At the census of 1880 an establishment engaged in both tanning and currying made a separate report for each branch of the industry and was counted twice; in 1890 and 1900 but one report was received for each establishment.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
4	Looking-glass and picture frames.	1900	1,629	$7,747,382	1,182	$984,129	7,712	$3,370,072	6,743	600	369	$1,151,653	$6,887,331	$15,570,293
		1890	1,290	8,554,995	1,736	1,410,696	7,928	3,846,857	6,937	585	406	1,019,920	7,069,115	16,376,173
		1880	645	4,437,666	.....	.....	6,183	2,471,105	5,224	316	643	.....	4,831,248	9,596,219
4	Lumber and timber products.[1]	1900	33,035	611,611,524	12,530	11,260,608	283,260	104,640,591	277,900	1,748	3,612	17,731,519	317,923,548	566,832,984
		1890	22,617	557,881,054	20,375	11,203,757	311,964	87,934,284	306,177	2,501	3,286	25,324,063	242,562,296	437,957,382
		1880	25,758	181,465,392	.....	.....	148,290	31,893,098	141,881	442	6,017	.....	146,312,937	233,608,886
4	Lumber, planing mill products, including sash, doors, and blinds.[2]	1900	4,204	119,271,631	5,682	5,249,632	73,627	32,685,210	72,003	238	1,386	7,289,615	99,927,707	168,343,003
		1890	3,670	120,271,440	6,965	6,748,224	79,923	42,221,856	78,293	141	1,489	6,594,958	104,926,834	183,681,552
		1880	2,491	38,070,593	.....	.....	37,187	14,431,654	35,158	102	1,927	.....	45,268,462	73,424,681
7	Malt	1900	146	39,288,102	290	471,316	1,990	1,182,513	1,986	4	.....	916,866	14,816,741	19,373,600
		1890	202	24,293,864	366	513,026	3,328	1,590,175	3,328	.....	.....	1,305,246	17,100,074	23,442,559
		1880	216	14,390,441	.....	.....	2,332	1,004,548	2,320	8	4	.....	14,321,423	18,273,102
9	Mantels, slate, marble, and marbleized.	1900	36	811,995	72	69,591	449	291,050	448	.....	1	107,094	487,965	1,153,540
		1890	90	1,854,759	184	207,742	1,520	953,119	1,512	4	4	108,899	1,254,667	3,127,662
		1880	46	750,300	.....	.....	725	313,009	690	.....	35	.....	476,431	1,030,660
9	Marble and stone work[3]	1900	6,070	67,509,533	3,306	3,003,875	54,370	28,663,241	54,141	70	159	4,666,095	30,443,297	85,101,591
		1890	3,373	37,115,193	4,261	4,020,898	31,728	21,342,623	31,583	61	84	2,742,375	23,868,904	62,595,762
		1880	2,846	16,498,221	.....	.....	21,471	10,288,885	21,112	23	336	.....	12,743,345	31,415,150
15	Masonry, brick and stone[4]	1900	8,333	48,070,239	2,386	2,352,394	93,568	53,152,258	93,368	85	115	31,238,845	87,280,964	203,593,634
		1890	7,715	54,969,408	8,411	8,216,204	110,618	69,311,083	110,413	27	178	6,000,666	96,207,162	204,165,642
		1880	1,591	3,990,706	.....	.....	16,020	6,880,866	15,877	1	142	.....	10,123,478	20,586,553
4	Matches	1900	22	3,893,000	66	87,115	2,047	612,715	1,054	793	200	463,045	3,420,740	6,005,937
		1890	27	1,941,092	59	70,655	1,696	473,550	780	847	69	124,800	935,008	2,193,638
		1880	37	2,114,850	.....	.....	2,219	535,911	868	1,120	231	.....	3,298,562	4,668,446
2	Mats and matting	1900	9	994,155	42	31,060	1,197	237,282	896	288	13	46,588	516,137	1,165,330
		1890	24	392,639	40	39,607	383	172,874	343	33	7	26,651	301,591	608,625
		1880	12	212,000	.....	.....	285	125,129	199	12	74	.....	233,707	439,370
14	Mattresses and spring beds	1900	797	8,298,772	869	778,817	7,959	3,213,268	6,152	1,603	204	1,049,118	10,444,009	18,463,704
		1890	696	6,662,929	1,019	896,344	6,318	2,763,953	4,906	1,149	263	680,386	8,727,380	15,683,932
		1880	357	1,749,750	.....	.....	2,394	868,325	1,770	466	158	.....	3,116,471	5,288,234
2	Millinery and lace goods	1900	591	10,764,813	1,592	1,392,904	16,871	5,817,855	2,654	14,035	182	1,545,167	15,654,295	29,469,406
		1890	278	6,630,210	709	926,408	11,118	4,526,021	2,524	8,552	42	742,153	8,588,342	18,047,067
		1880	247	2,678,880	.....	.....	6,555	1,661,044	971	5,248	336	.....	6,142,091	9,577,840
15	Millinery, custom work[5]	1900	16,151	27,740,386	3,723	1,508,987	33,298	9,570,536	436	32,487	375	4,943,840	36,455,043	70,368,752
		1890	5,999	16,309,220	6,904	3,703,738	17,072	5,241,401	401	16,457	214	2,620,266	18,756,776	36,983,082
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	Millstones	1900	3	49,238	7	7,816	37	20,957	37	.....	.....	5,273	30,995	75,922
		1890	4	49,450	4	5,100	24	12,764	24	.....	.....	1,628	18,294	47,152
		1880	16	178,900	.....	.....	174	96,534	170	1	3	.....	172,725	355,519
7	Mineral and soda waters	1900	2,816	20,518,708	1,464	1,203,407	8,985	4,169,113	8,380	309	296	2,266,018	8,801,467	23,874,429
		1890	1,377	10,781,817	1,798	1,426,705	5,919	2,780,168	5,642	100	177	1,286,577	4,562,803	14,353,745
		1880	512	2,569,561	.....	.....	2,726	1,065,633	2,480	27	219	.....	2,117,764	4,741,709
9	Mirrors	1900	103	3,184,426	269	277,419	2,555	1,231,689	2,293	173	89	323,798	4,995,671	8,004,301
		1890	45	1,695,772	138	190,828	1,404	842,407	1,346	45	13	169,594	3,274,181	6,000,533
		1880	7	155,800	.....	.....	77	42,900	74	.....	3	.....	212,500	304,000
2	Mixed textiles[6]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	470	37,996,057	.....	.....	43,373	13,316,753	17,471	20,520	5,382	.....	37,227,741	66,221,703
14	Models and patterns[7]	1900	532	2,250,484	118	113,413	2,608	1,565,728	2,400	157	51	245,643	825,111	3,836,518
		1890	456	1,594,804	525	490,112	1,627	1,005,145	1,536	50	41	158,814	510,636	2,734,395
		1880	233	447,351	.....	.....	815	421,857	763	21	31	.....	223,906	1,020,650
14	Mucilage and paste	1900	117	1,265,426	170	164,328	480	205,082	341	117	22	161,143	1,657,342	2,629,299
		1890	55	748,826	95	79,629	309	119,782	258	48	3	67,581	755,034	1,276,611
		1880	4	3,100	.....	.....	9	3,090	8	.....	1	.....	8,770	16,700
14	Musical instruments and materials, not specified.	1900	229	3,896,101	158	141,745	2,405	1,232,039	2,144	226	35	271,093	1,205,337	3,394,734
		1890	293	1,329,329	326	257,067	1,056	605,110	981	54	21	178,488	510,664	1,888,613
		1880	84	654,850	.....	.....	573	293,062	528	29	16	.....	385,776	853,746
14	Musical instruments, organs and materials.	1900	129	5,011,987	274	299,435	3,435	1,720,727	3,271	92	72	603,785	2,220,165	5,691,504
		1890	145	9,890,288	381	422,286	4,608	2,674,191	4,469	117	22	821,815	3,454,720	9,213,188
		1880	171	3,922,338	.....	.....	4,202	2,142,539	3,948	89	165	.....	2,692,332	6,136,472
14	Musical instruments, pianos and materials.	1900	261	38,790,494	1,244	1,715,191	17,869	9,818,996	16,978	463	428	2,908,386	15,147,520	35,324,090
		1890	236	18,430,872	625	978,382	12,432	8,369,347	12,211	181	40	1,394,513	10,470,779	25,766,368
		1880	174	9,869,577	.....	.....	6,575	4,663,193	6,449	57	69	.....	5,283,119	12,264,521
10	Needles and pins	1900	43	3,235,158	101	126,754	2,353	939,846	1,193	1,019	141	215,322	972,570	2,738,439
		1890	45	1,820,089	71	78,518	1,609	649,484	898	691	20	71,674	450,442	1,515,865
		1880	40	1,144,550	.....	.....	1,077	392,214	604	380	93	.....	591,013	1,378,023
2	Nets and seines	1900	19	1,160,782	41	63,545	748	222,146	83	646	19	81,428	865,908	1,476,022
		1890	22	1,135,764	32	27,864	618	190,121	104	514	.....	58,920	634,634	1,002,196
		1880	13	140,650	.....	.....	210	54,112	79	114	17	.....	180,215	291,765
2	Oakum[8]	1900	7	416,199	10	16,922	171	51,343	141	26	4	16,067	283,862	440,237
		1890	7	275,675	9	10,300	142	46,816	124	4	14	6,579	231,733	363,400
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	Oil, castor	1900	3	539,221	12	17,320	49	29,068	48	1	.....	13,339	293,408	395,400
		1890	7	621,798	24	25,599	77	44,532	77	.....	.....	28,314	431,231	573,363
		1880	8	474,000	.....	.....	108	44,714	107	.....	1	.....	384,890	653,900

[1] In 1890 includes 21,011 establishments reported as "lumber and other mill products from logs or bolts," and 1,606 as "timber products, not manufactured at mill;" in 1880 includes 25,708 reported as "lumber, sawed," 45 as "shingles, split," and 5 as "veneering."
[2] In 1880 includes 1,203 establishments reported "lumber, planed," and 1,288 as "sash, doors, and blinds."
[3] Includes 2,351 establishments in 1900 and 1,321 in 1890 reported as "marble and stone work," and 3,719 in 1900 and 2,052 in 1890 reported as "monuments and tombstones."
[4] Includes 6,431 establishments in 1900 and 5,969 in 1890 reported as "masonry, brick, and stone," and 1,902 in 1900 and 1,746 in 1890 reported as "plastering and stuccowork."
[5] No reports received for this industry in 1880.
[6] Included in other classifications in 1890 and 1900.
[7] Includes 7 establishments in 1890 and 3 in 1880 reported as "cigar molds," and 449 in 1890 and 230 in 1880 reported as "models and patterns."
[8] Included in other classifications in 1880.

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
8	Oil, cottonseed and cake	1900	369	$34,451,461	1,569	$1,579,252	11,007	$3,143,459	10,936	54	17	$2,433,912	$45,165,823	$58,726,632
		1890	119	12,808,996	395	414,047	5,906	1,493,780	5,814	55	37	1,163,586	14,363,126	19,335,947
		1880	45	3,862,300	.....	.....	3,319	880,836	3,114	33	172	.....	5,091,251	7,690,921
8	Oil, essential	1900	70	612,657	42	25,523	199	69,100	191	7	1	49,762	596,112	850,093
		1890	67	102,223	23	8,568	197	28,924	197	.....	.....	34,462	129,735	255,847
		1880	124	67,755	.....	.....	278	24,030	278	1	4	.....	125,167	248,858
8	Oil, lard	1900	7	369,773	24	24,426	78	42,205	77	1	.....	47,182	971,647	1,221,841
		1890	7	481,526	26	29,024	94	53,208	94	.....	.....	102,663	920,650	1,181,613
		1880	28	1,127,500	.....	.....	432	161,672	424	.....	8	.....	4,184,450	4,721,066
8	Oil, linseed	1900	48	15,460,512	285	446,247	1,328	693,311	1,321	6	1	659,606	24,395,775	27,184,331
		1890	62	14,003,358	187	308,718	1,886	977,344	1,882	4	.....	1,321,461	19,374,543	23,534,306
		1880	81	5,872,750	.....	.....	1,415	681,677	1,378	17	21	.....	12,874,294	15,393,812
8	Oil, not elsewhere specified.[1]	1900	194	9,549,984	788	967,015	1,386	700,050	1,330	51	5	2,048,845	9,848,409	17,183,799
		1890	129	4,652,653	380	463,526	758	467,362	720	32	6	944,198	5,403,522	9,256,250
		1880	73	1,931,775	.....	.....	513	245,649	499	8	6	.....	2,754,713	3,694,587
8	Oil, resin[2]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	8	284,110	27	29,056	90	53,596	90	.....	.....	20,890	535,320	738,680
		1880	3	82,523	.....	.....	23	14,590	23	.....	.....	.....	189,622	238,471
2	Oilcloth, enameled	1900	9	1,702,904	48	100,584	512	300,878	512	.....	.....	88,889	2,696,412	3,595,515
		1890	9	772,820	26	29,702	341	182,759	335	4	2	66,929	983,518	1,603,265
		1880	4	315,000	.....	.....	258	116,627	215	2	41	.....	864,200	1,062,000
2	Oilcloth, floor	1900	18	7,176,198	105	193,939	2,718	1,327,235	2,626	49	43	433,068	4,853,260	7,807,105
		1890	19	3,704,436	62	92,203	1,521	745,766	1,477	4	40	195,764	2,380,295	3,877,822
		1880	25	3,429,550	.....	.....	1,735	733,235	1,690	5	40	.....	3,118,708	4,752,587
1	Oleomargarine	1900	24	3,023,646	394	412,012	1,084	584,444	1,007	65	12	2,489,784	7,639,501	12,499,812
		1890	12	634,532	64	91,752	264	154,138	252	11	1	385,563	2,175,264	2,988,625
		1880	15	1,680,300	.....	.....	599	212,952	561	18	20	.....	5,486,141	6,892,939
14	Optical goods[3]	1900	350	5,567,809	568	447,743	4,341	1,935,219	3,084	1,062	195	684,682	3,233,430	7,790,970
		1890	191	2,608,176	337	290,078	2,507	1,010,374	1,868	507	132	228,028	1,324,305	3,505,973
		1880	62	643,825	.....	.....	1,088	450,897	872	113	103	.....	417,472	1,182,142
3	Ordnance and ordnance stores.[4]	1900	4	3,468,713	81	96,001	989	615,280	977	12	.....	277,268	802,706	2,239,797
		1890	4	7,639,991	31	34,888	1,428	1,064,418	1,425	2	1	18,885	743,348	2,424,662
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	Oysters, canning and preserving.[4]	1900	39	1,240,696	119	112,879	2,779	630,016	1,355	1,123	301	93,707	2,608,757	3,670,134
		1890	16	1,106,962	61	69,891	3,453	642,610	1,482	1,702	269	80,199	2,088,867	3,260,766
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Painting and paper hanging.[5]	1900	16,939	27,217,086	2,204	1,478,024	59,191	34,822,819	58,579	281	331	3,876,483	26,304,784	88,396,852
		1890	10,043	23,135,781	10,945	8,935,219	45,336	28,787,331	44,830	249	257	2,632,571	23,110,359	74,067,998
		1880	3,968	5,645,950	.....	.....	17,711	7,920,866	17,271	131	309	.....	8,762,780	22,457,560
8	Paints	1900	419	42,501,782	2,512	3,077,318	8,151	3,929,787	7,357	744	50	3,430,061	33,799,386	50,374,995
		1890	382	34,009,203	1,693	2,036,869	7,044	3,568,757	6,460	519	65	3,039,427	24,930,582	40,438,171
		1880	244	13,555,292	.....	.....	4,483	2,132,255	4,192	188	103	.....	17,062,552	23,390,767
6	Paper and wood pulp[6]	1900	763	167,507,713	2,935	4,500,911	49,646	20,746,426	41,547	7,930	169	10,184,106	70,530,236	127,326,162
		1890	649	89,829,548	1,348	1,770,657	31,050	13,204,828	24,015	6,767	268	6,770,681	44,228,480	78,937,184
		1880	742	48,139,652	.....	.....	25,631	8,970,133	17,317	7,648	666	.....	34,862,132	57,366,860
6	Paper goods, not elsewhere specified.[4]	1900	190	11,370,585	720	922,689	6,117	2,242,702	3,135	2,835	147	1,042,923	9,819,820	16,785,269
		1890	66	2,922,449	128	153,828	1,519	611,353	971	439	109	234,325	2,627,454	4,179,235
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	Paper hangings	1900	51	8,889,794	512	816,852	4,172	2,074,138	3,380	492	300	711,100	6,072,809	10,663,209
		1890	27	5,709,909	230	302,634	2,584	1,172,154	2,063	243	278	660,117	3,572,027	7,431,726
		1880	25	3,560,500	.....	.....	2,487	874,921	1,666	150	671	.....	3,629,222	6,267,303
6	Paper patterns	1900	16	256,075	92	72,048	836	262,559	109	719	8	29,295	124,854	563,653
		1890	27	156,106	39	45,212	409	108,526	47	361	1	54,857	85,269	377,456
		1880	4	105,100	.....	.....	97	40,538	13	84	.....	.....	44,000	512,550
8	Patent medicines and compounds.	1900	2,026	37,209,793	5,419	5,330,121	11,809	4,407,988	5,598	6,001	210	18,028,546	13,185,513	59,611,335
		1890	1,127	18,596,823	2,332	2,138,819	7,058	2,955,383	4,231	2,670	157	7,063,311	11,030,916	32,620,182
		1880	563	10,620,880	.....	.....	4,025	1,651,596	2,504	1,186	335	.....	6,704,729	14,682,494
14	Paving and paving materials.	1900	1,729	37,888,412	1,520	1,493,757	34,090	14,570,408	34,010	5	75	2,149,511	20,152,477	46,447,719
		1890	704	12,648,093	1,010	1,025,672	21,720	9,425,298	21,703	1	16	1,147,235	13,891,005	30,644,072
		1880	46	745,750	.....	.....	757	244,339	755	.....	2	.....	576,301	1,024,243
14	Pencils, lead	1900	7	2,227,406	81	111,890	2,162	683,281	758	1,087	317	278,176	1,030,917	2,222,276
		1890	5	3,100,836	64	130,300	1,388	450,450	483	632	273	154,528	796,378	1,687,560
		1880	4	341,597	.....	.....	399	102,233	116	144	139	.....	97,344	279,427
14	Pens, fountain and stylographic.[4]	1900	23	590,629	84	80,808	318	141,012	241	66	11	113,334	351,932	906,454
		1890	15	142,265	24	28,902	152	73,897	128	24	.....	12,380	123,214	351,775
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	Pens, gold	1900	22	496,246	62	67,522	378	229,679	337	38	3	42,740	312,537	799,078
		1890	18	473,964	62	75,124	301	185,545	277	23	1	82,753	235,628	718,070
		1880	16	370,150	.....	.....	264	172,207	226	19	19	.....	190,906	533,061
3	Pens, steel	1900	3	357,460	13	21,416	473	138,433	65	371	37	37,405	52,466	294,340
		1890	3	399,182	15	20,143	496	132,032	141	322	33	6,295	56,630	268,259
		1880	3	182,500	.....	.....	280	88,500	34	230	16	.....	38,950	164,000
8	Perfumery and cosmetics.	1900	266	3,499,168	808	757,695	1,768	569,286	520	1,209	39	1,184,501	3,136,853	7,095,713
		1890	157	2,238,901	359	376,159	1,396	501,520	542	838	16	421,335	2,128,420	4,630,141
		1880	67	813,827	.....	.....	741	238,259	352	357	32	.....	1,201,409	2,203,004

[1] Includes 5 establishments in 1890 and 7 in 1880 reported as "oil, illuminating, not including petroleum refining," 124 in 1890 and 51 in 1880 reported as "oil, lubricating;" and 15 in 1880 reported as "oil, neat's foot."
[2] Included in other classifications in 1900.
[3] In 1880 reported as "spectacles and eyeglasses."
[4] Included in other classifications in 1880.
[5] In 1900 includes 15,295 establishments reported as "painting, house, sign, etc.," and 1,644 as "paper hanging."
[6] In 1890 includes 567 establishments reported as "paper" and 82 as "pulp, wood;" in 1880 includes 692 reported as "paper" and 50 as "wood pulp."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
8	Petroleum, refining[1]	1900	67	$95,327,892	1,207	$1,811,400	12,199	$6,717,087	11,935	66	198	$3,330,851	$102,859,341	$123,929,384
		1890	94	77,416,296	1,068	1,117,011	11,408	5,872,467	10,885	2	516	2,069,268	67,918,723	85,001,198
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Phonographs and graphophones.[2]	1900	11	3,348,282	144	179,145	1,267	608,490	1,114	146	7	215,401	827,529	2,246,274
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Photographic apparatus	1900	48	1,849,724	165	129,618	1,961	779,890	1,662	230	69	229,886	595,925	2,026,063
		1890	25	362,834	43	46,184	506	262,755	436	58	12	28,263	164,620	624,342
		1880	10	90,800	.....	.....	104	41,314	89	9	6	.....	40,658	104,305
14	Photographic materials	1900	105	3,668,026	304	328,676	1,483	662,958	994	450	39	453,092	2,782,285	5,773,325
		1890	45	1,172,640	116	118,018	783	420,248	587	194	2	91,356	1,107,269	2,121,287
		1880	5	63,000	.....	.....	63	25,310	31	30	2	.....	89,900	142,000
14	Photography	1900	7,553	13,193,589	1,063	664,088	8,911	4,013,018	5,580	3,118	213	2,577,308	6,841,853	23,238,719
		1890	3,105	7,804,532	3,465	2,933,228	6,967	3,472,643	4,786	2,063	118	1,592,786	3,892,196	15,488,324
		1880	1,287	3,131,895	.....	.....	3,977	1,751,118	2,660	986	131	.....	1,671,455	5,935,311
6	Photolithographing and photoengraving.[3]	1900	204	1,999,921	485	450,720	2,698	1,756,578	2,529	117	52	400,873	728,743	4,226,106
		1890	89	1,134,873	207	228,279	1,145	760,619	1,056	73	16	145,059	541,395	2,071,580
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	Pickles, preserves, and sauces.	1900	474	10,656,854	1,845	1,652,051	6,812	2,161,962	3,606	3,081	125	2,254,583	12,422,432	21,507,046
		1890	316	4,913,459	675	608,427	3,577	1,158,892	1,964	1,585	28	628,283	5,328,541	9,790,855
		1880	109	841,023	.....	.....	930	259,454	592	230	108	.....	1,472,639	2,407,342
14	Pipes, tobacco	1900	98	1,111,144	120	108,890	1,585	737,647	1,284	212	89	125,189	1,106,299	2,471,908
		1890	69	1,432,753	139	159,181	1,206	571,815	1,024	163	19	95,545	626,668	1,881,262
		1880	37	233,800	.....	.....	645	226,306	500	65	80	.....	209,518	628,688
10	Plated and britannia ware	1900	66	16,486,471	477	702,635	6,392	3,088,224	5,349	979	64	768,939	5,875,312	12,608,770
		1890	68	13,150,990	302	420,045	6,617	3,355,260	5,480	974	163	1,276,431	4,647,890	11,502,966
		1880	55	5,862,025	.....	.....	4,675	2,453,361	3,742	831	102	.....	4,100,116	8,596,181
10	Plumbers' supplies[4]	1900	174	13,598,528	917	987,282	8,024	3,930,594	7,639	245	140	847,094	7,289,867	14,771,185
		1890	122	9,678,107	538	646,629	4,947	2,657,585	4,759	73	115	550,938	5,853,709	11,960,464
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	Plumbing, and gas and steam fitting.[5]	1900	11,876	47,111,264	3,730	2,593,594	53,916	31,873,866	53,336	64	516	4,609,906	65,334,689	131,852,567
		1890	5,327	29,335,247	7,056	6,847,297	35,457	21,915,314	34,915	67	475	2,492,884	37,735,671	80,905,925
		1880	2,161	5,950,512	.....	.....	9,684	4,770,389	9,217	15	452	.....	9,095,308	18,133,250
5	Pocketbooks	1900	68	991,876	124	146,219	1,653	588,595	958	596	99	115,913	1,278,226	2,495,188
		1890	62	1,121,834	140	170,081	1,208	491,911	730	406	72	101,933	968,948	2,165,462
		1880	53	598,350	.....	.....	1,413	484,947	890	416	107	.....	930,033	1,769,036
9	Pottery, terra cotta, and fire-clay products.[6]	1900	1,000	65,951,885	2,777	3,011,512	43,714	17,691,737	38,171	4,481	1,062	3,260,721	11,915,236	44,263,386
		1890	707	26,127,104	1,316	1,269,111	18,980	8,869,032	16,402	2,023	555	2,003,007	5,618,401	22,057,090
		1880	752	7,366,323	.....	.....	10,221	3,600,727	7,882	948	1,391	.....	2,909,063	8,977,333
6	Printing and publishing[7]	1900	22,312	292,517,072	37,799	36,090,719	162,992	84,249,954	125,964	28,765	8,263	55,897,929	86,856,290	347,055,050
		1890	16,566	195,387,445	28,391	26,272,756	136,836	78,810,319	110,434	19,026	7,376	46,971,768	68,858,915	275,452,515
		1880	3,468	63,003,704	.....	.....	58,506	20,541,657	45,890	6,777	5,839	.....	32,660,395	90,970,341
6	Printing materials	1900	70	905,603	64	64,063	560	232,799	503	32	25	98,984	406,357	1,088,482
		1890	64	1,370,487	151	148,010	715	388,096	519	180	16	121,874	567,638	1,459,434
		1880	27	199,900	.....	.....	191	98,878	164	7	20	.....	190,353	421,316
14	Pulp, from fiber other than wood.[4]	1900	3	479,158	6	7,200	121	28,462	103	17	1	13,191	42,204	103,204
		1890	7	583,837	16	24,350	152	68,906	150	.....	2	33,202	126,902	524,243
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Pulp goods[4]	1900	22	2,316,985	75	91,685	691	283,835	638	44	9	76,271	646,639	1,267,013
		1890	9	418,045	24	27,550	252	111,484	228	17	7	46,228	122,851	352,582
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Pumps, not including steam pumps.	1900	130	1,260,710	95	83,677	632	247,193	620	.....	12	80,380	637,768	1,341,713
		1890	256	3,540,097	386	317,571	1,754	827,574	1,740	1	13	225,377	1,681,275	4,103,410
		1880	411	2,383,482	.....	.....	1,731	652,749	1,692	3	36	.....	2,038,634	3,644,631
5	Packing hose[8]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	1	500	.....	.....	2	1,200	2	.....	.....	.....	1,350	5,512
4	Refrigerators	1900	95	4,782,110	237	239,953	3,329	1,287,488	3,229	6	94	406,159	2,476,518	5,317,886
		1890	82	3,367,329	195	218,933	2,178	1,033,832	2,022	57	99	295,322	2,377,958	4,513,616
		1880	71	727,220	.....	.....	1,053	423,680	975	14	64	.....	881,842	1,739,731
2	Regalia and society banners and emblems.	1900	120	1,795,858	248	196,982	1,586	476,580	420	1,128	38	355,117	1,608,415	3,077,945
		1890	137	1,841,193	299	306,869	2,080	737,853	675	1,391	14	247,882	1,246,906	3,203,890
		1880	47	452,590	.....	.....	589	174,097	175	376	38	.....	429,227	815,638
3	Registers, car fare	1900	5	104,408	14	15,354	52	25,775	51	1	.....	9,822	17,403	80,865
		1890	7	74,725	10	9,926	91	54,148	90	.....	1	13,098	32,618	141,320
		1880	1	300,000	.....	.....	7	4,876	7	.....	.....	.....	870	6,600
3	Registers, cash[4]	1900	13	5,137,965	313	313,405	2,015	1,223,966	1,829	186	.....	919,540	903,834	5,594,500
		1890	5	292,150	45	37,858	697	396,282	588	99	10	16,805	222,576	1,281,500
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	Rice, cleaning and polishing.	1900	80	2,601,352	169	182,033	651	265,585	639	.....	12	230,203	7,575,522	8,723,726
		1890	32	2,073,884	96	96,160	647	223,433	630	9	8	147,992	5,601,206	6,693,196
		1880	22	562,200	.....	.....	516	110,467	376	94	46	.....	2,666,497	3,133,324

[1] In 1880 "petroleum refining" formed part of a separate report and was not included in the general statistics of manufacture.
[2] No reports received for this industry in 1880; in 1890 included in "all other industries."
[3] Included in other classifications in 1880; in 1890 reported as "photolithographing and engraving."
[4] Included in other classifications in 1880.
[5] In 1880 and 1890 reported as "plumbing and gas fitting."
[6] In 1880 includes 51 establishments reported as "drain and sewer pipe," 686 as "stone and earthenware," and 15 as "terra-cotta ware;" in 1890 reported as "clay and pottery products."
[7] In 1900 includes 6,920 establishments reported as "printing and publishing, book and job," 87 as "printing and publishing, music," 15,305 as "printing and publishing, newspapers and periodicals;" in 1890 includes 4,098 reported as "printing and publishing, book and job," 79 as "printing and publishing, music," 12,362 as "printing and publishing, newspapers and periodicals," and 27 as "printing, tip;" includes in 1880, 1 reported as "postal cards," and 3,467 as "printing and publishing."
[8] In 1890 included in "all other industries;" in 1900 included in "belting and hose, leather."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
14	Roofing and roofing materials.	1900	2,162	$17,594,162	1,198	$1,051,983	15,362	$6,996,810	15,138	18	206	$1,587,639	$14,624,759	$29,916,592
		1890	2,140	13,303,597	2,396	2,088,512	10,937	6,469,514	10,803	27	107	1,117,670	14,712,379	29,412,813
		1880	493	2,329,277	.....	.....	3,082	1,411,133	3,019	22	41	.....	3,382,354	6,227,284
14	Rubber and elastic goods.	1900	262	39,304,853	1,825	2,215,597	20,405	8,082,738	12,561	7,817	527	2,805,470	33,485,694	52,627,030
		1890	139	13,703,787	619	852,290	9,183	3,663,976	4,509	4,296	378	1,133,182	11,113,528	18,708,917
		1880	90	6,057,987	.....	.....	6,268	2,295,972	3,693	2,281	294	.....	9,249,967	13,751,724
14	Rubber, vulcanized[1]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	3	226,200	.....	.....	495	154,700	335	150	10	.....	391,200	767,200
4	Rules, ivory and wood	1900	11	202,724	14	11,986	213	66,732	150	50	13	16,694	72,657	207,757
		1890	16	172,918	27	22,194	136	51,938	101	28	7	11,183	34,325	154,178
		1880	6	54,200	.....	.....	56	19,974	52	1	3	.....	16,075	66,200
5	Saddlery and harness	1900	12,934	43,354,136	1,976	1,587,651	24,123	10,725,647	22,352	1,147	624	2,996,787	33,127,926	62,630,902
		1890	7,931	35,346,620	7,654	5,121,927	22,672	10,908,918	21,376	962	334	2,666,690	24,674,225	52,970,801
		1880	7,999	16,508,019	.....	.....	21,446	7,997,752	20,024	561	861	.....	19,968,716	38,081,643
3	Safes and vaults	1900	35	5,479,879	272	283,111	2,033	1,017,237	2,018	1	14	300,620	1,689,148	3,927,867
		1890	39	4,603,118	315	265,210	3,816	2,129,615	3,776	1	39	564,756	2,635,313	6,641,844
		1880	40	2,201,600	.....	.....	2,206	1,096,504	2,173	.....	33	.....	1,431,083	3,352,396
8	Salt[2]	1900	159	27,123,364	406	499,748	4,774	1,911,140	4,337	378	59	760,539	3,335,922	7,966,897
		1890	200	13,437,749	200	189,049	4,255	1,593,442	4,055	148	52	674,188	1,826,770	5,484,618
		1880	276	8,548,640	.....	.....	4,493	1,305,020	4,274	67	152	.....	2,354,742	5,191,222
14	Sand and emery paper and cloth.	1900	9	1,372,307	63	97,846	274	144,183	250	16	8	57,878	681,240	1,175,895
		1890	9	705,957	47	52,263	206	104,226	189	17	.....	111,078	781,505	1,249,647
		1880	6	121,500	.....	.....	82	30,970	52	21	9	.....	148,477	262,374
3	Saws	1900	96	8,508,487	312	329,402	3,215	1,692,757	3,012	71	132	347,209	2,600,217	6,443,748
		1890	95	6,313,373	267	276,168	2,676	1,583,526	2,462	46	168	435,625	2,346,401	5,572,992
		1880	89	3,281,135	.....	.....	2,566	1,226,370	2,288	23	255	.....	1,744,083	3,943,105
3	Scales and balances	1900	86	6,307,576	305	297,166	2,775	1,436,839	2,748	16	11	369,999	1,533,379	5,239,788
		1890	76	1,658,655	150	145,078	1,350	692,497	1,335	2	13	108,056	867,955	2,322,744
		1880	64	3,814,981	.....	.....	1,554	783,019	1,527	1	26	.....	654,711	3,252,460
3	Screws[3]	1900	33	7,931,457	247	294,876	3,527	1,423,838	2,584	879	64	375,974	1,720,455	4,658,467
		1890	27	7,244,580	149	146,232	2,615	1,014,176	1,810	754	51	384,465	1,232,377	3,509,986
		1880	20	4,265,000	.....	.....	1,585	456,542	943	378	264	.....	935,800	2,184,532
4	Sewing-machine cases	1900	7	1,333,341	58	66,497	2,653	1,065,180	2,474	12	167	81,772	1,533,880	2,815,142
		1890	7	1,430,403	20	34,122	1,822	852,603	1,667	11	154	81,396	990,439	2,249,551
		1880	18	741,300	.....	.....	1,822	683,338	1,536	.....	286	.....	1,239,400	2,064,837
15	Sewing-machine repairing.[4]	1900	396	331,433	29	18,067	310	154,036	289	15	6	73,758	220,587	710,123
		1890	166	192,593	142	89,209	193	111,857	177	15	1	47,942	86,816	385,941
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	Sewing machines and attachments.	1900	58	18,739,459	624	842,468	10,635	6,213,938	10,118	455	62	864,451	7,809,796	18,314,419
		1890	59	16,043,136	284	420,281	8,837	4,750,324	8,049	536	252	1,865,050	3,502,173	12,823,147
		1880	106	12,501,830	.....	.....	9,558	4,636,099	8,632	248	673	.....	4,829,106	13,863,188
18	Shipbuilding[5]	1900	1,116	77,362,701	1,407	2,008,537	46,781	24,839,163	45,744	34	1,003	3,685,661	33,486,772	74,578,158
		1890	1,010	53,393,074	1,123	1,194,870	24,811	14,833,977	24,628	9	174	1,392,551	16,925,109	40,342,115
		1880	2,188	20,979,874	.....	.....	21,345	12,713,813	21,338	.....	7	.....	19,736,358	36,800,327
2	Shirts	1900	936	20,312,412	2,041	1,734,814	38,492	11,425,101	6,604	31,074	814	4,918,576	28,662,317	49,022,845
		1890	869	14,273,611	1,543	1,511,108	31,207	9,193,495	5,437	25,563	207	2,188,265	15,704,353	33,638,593
		1880	549	6,841,778	.....	.....	25,687	5,403,696	2,878	22,186	623	.....	11,366,444	20,130,031
2	Shoddy	1900	105	5,272,929	139	166,704	1,926	748,948	1,425	480	21	293,149	4,875,192	6,730,974
		1890	94	3,754,063	144	149,483	2,155	707,099	1,252	865	38	238,094	6,003,035	7,887,000
		1880	73	1,165,100	.....	.....	1,282	400,326	695	496	91	.....	3,366,650	4,989,615
4	Show cases	1900	102	1,152,898	106	88,155	1,363	708,211	1,323	10	30	152,336	1,057,666	2,467,901
		1890	99	1,208,022	169	158,048	1,331	718,102	1,261	4	66	147,134	1,077,345	2,569,557
		1880	93	341,970	.....	.....	692	329,230	640	4	48	.....	519,585	1,172,172
2	Silk and silk goods	1900	483	81,082,201	2,657	3,134,352	65,416	20,982,194	24,206	34,797	6,413	10,264,208	62,406,665	107,256,258
		1890	472	51,007,537	1,531	1,917,877	49,382	17,762,441	17,602	28,914	2,866	4,259,623	51,004,425	87,298,454
		1880	382	19,125,300	.....	.....	31,337	9,146,705	9,375	16,396	5,566	.....	22,467,701	41,033,045
10	Silversmithing	1900	44	1,999,921	105	118,047	1,437	803,662	1,215	196	26	91,012	1,229,158	2,936,462
		1890	24	410,773	40	59,874	274	193,778	257	13	4	20,755	204,237	621,567
		1880	33	257,198	.....	.....	131	76,640	123	8	.....	.....	102,058	263,931
10	Silverware	1900	59	12,142,008	547	636,342	4,376	2,639,480	3,999	318	59	818,794	4,564,487	10,569,121
		1890	30	5,317,641	161	223,456	2,145	1,394,973	2,003	130	12	633,891	2,129,344	5,813,737
		1880	39	1,640,900	.....	.....	1,029	675,943	882	34	113	.....	1,028,502	2,253,330
1	Slaughtering and meat packing, not including retail butchering.[6]	1900	1,134	190,706,927	10,290	10,178,773	69,441	33,923,253	64,810	2,960	1,671	24,199,833	686,860,891	790,252,586
		1890	1,367	118,016,066	4,240	4,735,047	44,812	24,668,202	43,097	1,011	704	15,832,255	482,897,381	564,667,035
		1880	872	49,419,213	.....	.....	27,297	10,508,530	26,113	.....	1,184	.....	267,738,902	303,562,413
10	Smelting and refining, not from the ore.[7]	1900	61	5,200,523	203	229,244	983	532,068	927	54	2	270,359	5,899,935	7,784,695
		1890	50	9,425,912	119	171,053	1,646	951,300	1,639	1	6	472,996	25,285,191	28,188,826
		1880	4	162,100	.....	.....	311	158,300	309	.....	2	.....	8,171,900	8,411,100
14	Soap and candles	1900	558	38,068,334	2,738	2,777,071	9,487	3,754,767	6,794	2,066	627	6,237,893	33,143,230	53,231,017
		1890	578	24,821,069	1,484	1,534,794	7,821	3,416,854	6,125	1,182	514	3,355,625	28,687,412	43,600,285
		1880	629	14,541,294	.....	.....	5,289	2,219,513	4,368	388	533	.....	19,907,444	26,552,627
14	Soda water apparatus	1900	30	4,202,452	227	243,710	963	549,939	942	20	1	452,339	997,436	3,015,493
		1890	12	3,354,928	154	181,041	839	547,080	806	22	11	381,110	1,016,202	2,711,879
		1880	8	413,000	.....	.....	332	169,235	308	17	7	.....	565,538	1,075,569

[1] In 1890 included in "all other industries;" in 1900 included in "rubber and elastic goods."
[2] In 1880 includes 268 establishments reported as "salt" and 8 as "salt, ground."
[3] Includes 20 establishments in 1890 and 25 in 1900 reported as "screws, machine," and 7 in 1890 and 8 in 1900 as "screws, wood."
[4] Included in other classifications in 1880.
[5] In 1900 includes 1,072 establishments reported as "ship and boat building, wooden," and 44 as "shipbuilding, iron and steel."
[6] Includes 213 establishments in 1900 and 249 in 1890 reported as "sausage," 573 in 1900 and 611 in 1890 as "slaughtering and meat packing, wholesale," and 348 in 1900 and 507 in 1890 as "slaughtering, wholesale, not including meat packing."
[7] In 1880 and 1890 reported as "smelting and refining."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
14	Sporting goods	1900	144	$2,018,737	168	$167,509	2,230	$810,943	1,189	989	52	$194,748	$1,802,903	$3,633,396
		1890	136	1,693,776	191	176,059	2,008	705,911	1,044	852	112	101,709	1,119,806	2,709,449
		1880	86	1,444,750	.....	.....	1,401	411,854	565	734	102	.....	692,616	1,556,258
8	Springs, steel, car and carriage.	1900	48	4,684,278	166	275,205	2,102	1,061,006	2,094	2	6	337,000	3,024,656	5,690,499
		1890	57	3,459,422	158	211,828	1,734	962,942	1,700	.....	34	178,290	2,219,408	4,331,571
		1880	59	1,769,293	.....	.....	1,580	699,412	1,487	1	42	.....	2,846,818	3,654,862
10	Stamped ware[1]	1900	139	13,954,176	590	667,325	10,002	3,730,241	6,921	2,429	652	785,219	7,333,028	14,546,191
		1890	104	9,718,585	346	424,798	7,281	2,834,809	5,268	1,543	480	664,570	5,505,632	11,277,508
		1880	27	2,325,940	.....	.....	2,730	972,544	2,061	424	245	.....	2,422,849	3,997,926
8	Starch	1900	124	11,671,567	406	451,334	2,655	1,099,696	2,088	535	32	700,277	5,806,422	9,232,984
		1890	80	4,929,155	218	229,909	2,903	959,108	2,307	484	112	1,108,135	5,153,677	8,934,517
		1880	139	5,328,256	.....	.....	3,119	919,197	2,710	301	108	.....	4,911,060	7,477,742
14	Stationery goods, not elsewhere specified.[2]	1900	113	4,494,507	453	411,792	3,032	958,471	1,327	1,508	197	584,081	2,128,445	5,065,869
		1890	206	5,438,934	564	643,629	4,316	1,684,868	2,157	1,971	187	481,473	5,328,252	9,456,467
		1880	159	3,286,325	.....	.....	3,117	1,159,898	1,871	1,028	218	.....	3,501,426	5,898,322
3	Steam fittings and heating apparatus.	1900	227	18,233,173	1,215	1,477,115	9,252	4,982,857	9,073	141	38	1,349,694	10,219,506	22,084,860
		1890	217	17,017,364	1,134	1,390,062	10,645	6,204,338	10,345	188	112	1,485,212	10,628,314	23,147,434
		1880	95	3,075,751	.....	.....	2,474	1,305,739	2,425	.....	49	.....	2,857,000	5,127,842
14	Steam packing[3]	1900	97	2,691,304	290	325,877	1,147	525,332	1,034	101	12	290,067	1,546,398	3,493,710
		1890	34	588,564	103	77,192	315	151,982	276	29	10	101,192	357,819	1,003,372
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	Stencils and brands	1900	92	532,528	34	21,974	418	206,231	374	28	16	53,128	140,711	673,784
		1890	106	445,165	142	135,895	357	209,482	319	24	14	58,839	167,590	732,611
		1880	104	224,525	.....	.....	305	139,639	261	11	33	.....	144,554	472,514
6	Stereotyping and electrotyping.	1900	140	2,389,215	330	311,980	2,408	1,458,977	2,210	121	77	402,592	766,603	3,772,025
		1890	81	1,332,129	186	245,106	1,289	823,885	1,166	67	56	161,924	500,744	2,133,909
		1880	45	536,000	.....	.....	642	312,208	562	44	36	.....	200,491	724,689
14	Straw goods, not elsewhere specified.	1900	4	25,070	3	1,800	54	14,381	22	29	3	847	12,933	36,985
		1890	6	106,750	9	15,340	424	105,048	116	306	2	13,685	134,945	329,987
		1880	77	3,333,560	.....	.....	10,948	2,556,197	3,278	7,501	169	.....	5,455,559	9,345,759
1	Sugar and molasses, beet[4]	1900	30	20,141,719	350	356,675	1,970	1,092,207	1,951	4	15	441,384	4,803,796	7,323,857
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	4	365,000	.....	.....	350	62,271	350	.....	.....	.....	186,128	282,572
1	Sugar and molasses, refining.	1900	832	184,245,519	1,881	1,696,824	14,262	6,945,811	13,644	422	196	7,034,637	222,503,741	240,969,905
		1890	393	24,013,008	486	429,621	7,043	2,385,654	6,697	246	100	5,920,763	107,758,811	123,118,259
		1880	49	27,432,500	.....	.....	5,857	2,875,032	5,832	.....	25	.....	144,698,499	155,484,915
14	Surgical appliances	1900	219	2,487,494	359	356,216	1,539	620,801	755	686	98	772,197	1,291,580	3,932,358
		1890	155	856,396	300	248,514	612	300,804	355	233	24	184,749	524,488	1,650,033
		1880	71	848,142	.....	.....	477	265,872	308	154	15	.....	286,720	906,303
15	Taxidermy	1900	147	366,077	9	5,998	180	91,140	148	28	4	40,387	177,038	513,112
		1890	63	293,112	65	55,875	90	46,362	79	7	4	20,361	37,727	231,773
		1880	16	25,750	.....	.....	150	22,000	27	102	21	.....	21,850	82,500
14	Teasels[5]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	5	61,400	3	1,040	69	20,544	56	10	3	1,088	50,362	84,700
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Thread, linen[6]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	1	500,000	.....	.....	930	260,000	200	730	.....	.....	750,000	1,200,000
8	Tin and terne plate[7]	1900	57	6,650,047	333	291,323	3,671	1,889,917	3,014	625	32	236,456	26,728,150	31,892,011
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	Tinfoil[4]	1900	15	2,094,327	45	59,041	582	227,774	285	258	39	166,053	1,074,192	1,593,169
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	4	686,000	.....	.....	186	100,673	101	70	15	.....	198,942	416,849
10	Tinsmithing, coppersmithing, and sheet-iron working.[8]	1900	12,466	55,703,509	3,115	2,596,695	45,575	22,155,039	41,227	2,597	1,751	4,770,702	50,329,282	100,310,720
		1890	7,002	38,434,900	7,065	5,426,110	31,377	15,610,265	29,081	1,285	1,011	3,029,860	31,217,522	66,653,746
		1880	7,693	23,167,392	.....	.....	27,116	11,243,276	24,755	855	1,506	.....	26,460,228	50,183,811
11	Tobacco, chewing, smoking, and snuff.	1900	437	43,856,570	3,368	3,884,071	29,161	7,109,821	14,124	11,590	3,447	47,533,705	35,038,287	103,754,362
		1890	395	30,841,316	1,477	1,620,913	29,790	6,947,158	14,942	10,564	4,284	19,463,749	29,192,249	65,843,587
		1880	477	17,207,401	.....	.....	32,756	6,419,024	14,886	10,776	7,094	.....	34,397,072	52,793,056
11	Tobacco, cigars, and cigarettes.	1900	14,539	67,706,493	4,470	4,712,786	103,462	40,925,596	62,168	37,762	3,532	31,436,701	57,946,020	160,223,152
		1890	10,956	59,517,827	11,156	8,292,929	87,000	36,475,060	59,452	24,214	3,334	17,673,063	50,298,960	129,693,275
		1880	7,145	21,698,549	.....	.....	53,297	18,464,562	40,099	9,108	4,090	.....	29,577,833	63,979,575
11	Tobacco, stemming and rehandling.	1900	276	12,526,808	424	354,677	9,654	1,817,067	4,698	4,022	934	525,016	14,198,349	19,099,032
		1890	292	5,735,610	519	327,429	5,985	1,128,517	3,804	1,641	540	424,869	12,813,108	16,209,761
		1880	52	1,089,342	.....	.....	1,534	170,871	567	596	371	.....	1,409,502	1,897,535
3	Tools, not elsewhere specified.	1900	448	13,690,047	665	678,674	7,615	3,781,763	7,104	421	90	807,160	4,657,200	13,360,920
		1890	462	11,376,622	685	662,786	6,410	3,482,052	6,127	182	101	835,443	3,517,269	10,528,025
		1880	145	4,384,109	.....	.....	3,151	1,489,531	3,042	29	80	.....	1,532,556	4,236,568
14	Toys and games	1900	170	3,289,445	206	185,734	3,330	1,123,593	2,229	815	286	314,690	1,668,199	4,024,999
		1890	139	2,781,185	292	271,421	3,148	1,075,429	2,211	704	233	283,592	1,453,738	3,749,755
		1880	106	915,575	.....	.....	2,196	512,786	1,153	618	425	.....	595,833	1,562,513
14	Trunks and valises	1900	391	7,046,649	714	694,349	7,084	2,834,892	6,169	547	368	816,913	6,045,387	12,693,225
		1890	395	6,900,756	753	722,999	6,032	2,790,750	5,555	301	176	663,762	4,703,982	10,821,621
		1880	265	2,792,256	.....	.....	4,534	1,786,586	3,805	254	475	.....	3,910,133	7,252,470

[1] Includes 5 establishments in 1890 and 1 in 1880 reported as "fruit-jar trimmings" and 99 in 1890 and 26 in 1880 as "stamped ware."
[2] In 1890 included 6 establishments reported as "pencil cases" and 200 as "stationery goods, not elsewhere specified."
[3] Included in other classifications in 1880.
[4] In 1890 included in "all other industries."
[5] No reports received for this industry in 1880 and 1900.
[6] In 1890 included in "all other industries;" in 1900 included in "linen goods."
[7] No reports received for this industry in 1880 and 1890.
[8] In 1880 includes 98 establishments reported as "coppersmithing" and 7,595 as "tinware, copperware, and sheet-iron ware."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
14	Turpentine and rosin[1]	1900	1,508	$11,847,495	1,889	$778,694	41,864	$8,393,483	41,375	173	316	$476,171	$6,186,492	$20,344,888
		1890	670	4,062,375	49	26,944	15,266	2,906,547	15,081	141	94	178,662	2,874,693	8,077,379
		1880	508	1,866,390	.....	.....	10,535	1,623,061	9,955	338	242	.....	2,324,637	5,876,993
10	Type founding	1900	22	2,269,370	183	210,426	1,424	803,470	1,071	305	48	241,134	863,689	2,842,384
		1890	38	4,968,309	222	280,238	1,950	1,121,511	1,245	605	100	236,907	1,434,092	3,916,904
		1880	48	2,772,690	.....	.....	1,986	958,693	1,327	406	253	.....	660,748	2,330,298
15	Typewriter repairing[2]	1900	85	134,123	32	23,690	185	116,220	176	5	4	39,694	110,603	367,176
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	Typewriters and supplies[3]	1900	47	8,400,431	532	480,468	4,340	2,403,604	3,979	294	67	714,721	1,402,170	6,932,029
		1890	30	1,421,783	104	132,727	1,631	945,476	1,472	157	2	119,773	632,723	3,630,126
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Umbrellas and canes	1900	261	4,677,917	590	505,330	5,695	1,889,673	2,281	3,171	243	621,057	8,457,167	13,855,908
		1890	435	5,646,289	841	768,937	6,022	2,435,860	2,959	2,924	139	961,328	7,562,921	13,771,927
		1880	172	2,658,725	.....	.....	3,608	1,158,682	1,504	1,859	245	.....	4,502,777	6,917,463
2	Upholstering materials[4]	1900	270	7,593,598	358	363,926	5,098	1,715,073	2,911	1,919	268	503,438	5,881,621	10,048,164
		1890	152	4,427,654	248	232,148	3,231	1,221,914	2,168	892	171	244,043	3,013,253	5,733,039
		1880	79	1,690,200	.....	.....	1,477	523,417	961	306	210	.....	1,023,154	1,837,705
8	Varnish	1900	181	17,550,892	1,198	1,939,333	1,546	995,803	1,479	62	5	1,616,642	10,939,131	18,687,240
		1890	140	11,308,943	706	1,016,346	1,145	732,715	1,116	19	10	1,310,811	7,805,663	13,795,510
		1880	81	3,778,100	.....	.....	578	366,716	550	.....	28	.....	3,699,684	5,721,174
3	Vault lights and ventilators.	1900	14	120,750	11	12,775	138	81,184	138	.....	.....	14,792	140,719	338,111
		1890	15	175,225	31	44,814	174	115,780	172	1	1	25,388	185,529	455,413
		1880	12	138,450	.....	.....	115	66,204	115	.....	.....	.....	108,981	273,395
1	Vinegar and cider	1900	1,152	6,187,728	456	391,541	1,801	720,316	1,643	136	22	379,336	3,272,565	6,454,524
		1890	694	5,858,395	751	428,388	2,637	720,681	2,452	155	30	355,334	3,268,455	6,649,300
		1880	306	2,151,766	.....	.....	1,257	413,451	1,160	44	53	.....	1,888,173	3,418,038
14	Washing machines and clothes wringers.	1900	118	2,404,569	104	104,264	1,509	548,707	1,419	7	83	129,729	2,174,762	3,785,243
		1890	163	1,712,053	209	158,635	1,030	430,888	938	25	67	82,444	1,354,550	2,489,175
		1880	61	652,549	.....	.....	476	176,287	398	18	60	.....	587,643	1,182,714
10	Watch and clock materials.[5]	1900	20	367,291	18	20,461	331	152,234	186	145	.....	9,015	105,549	345,347
		1890	36	705,647	48	54,763	547	258,422	417	116	14	31,407	326,398	831,348
		1880	22	123,550	.....	.....	324	101,050	228	47	49	.....	149,315	350,695
10	Watch cases	1900	30	8,119,292	235	289,366	3,907	1,924,847	2,929	866	112	317,902	4,393,647	7,783,960
		1890	45	4,727,100	190	219,699	3,679	1,896,587	2,944	710	25	443,175	5,022,455	8,618,479
		1880	27	1,584,740	.....	.....	1,758	976,041	1,418	139	201	.....	2,812,922	4,589,314
15	Watch, clock, and jewelry repairing.	1900	12,229	12,741,973	330	181,018	8,380	4,683,086	7,831	234	315	2,276,804	4,432,108	20,235,039
		1890	4,502	6,057,125	3,828	2,655,475	4,819	2,861,120	4,632	71	116	1,047,575	2,225,888	10,704,477
		1880	1,202	1,704,571	.....	.....	1,657	866,996	1,547	32	78	.....	768,249	2,712,819
10	Watches	1900	13	14,235,191	165	294,449	6,880	3,586,723	3,381	3,473	26	572,080	1,291,318	6,822,611
		1890	19	10,106,114	80	101,119	6,595	3,587,808	3,935	2,640	20	733,404	995,740	6,051,066
		1880	11	4,144,327	.....	.....	3,346	1,712,276	2,127	1,219	.....	.....	982,224	3,271,244
14	Whalebone and rattan	1900	3	56,200	.....	.....	14	7,856	13	1	.....	4,657	98,875	135,000
		1890	9	221,358	10	15,700	69	38,013	48	21	.....	13,297	555,173	682,977
		1880	12	166,450	.....	.....	175	75,008	123	42	10	.....	371,450	526,777
12	Wheelbarrows	1900	15	513,467	31	26,605	321	127,398	321	.....	.....	41,542	180,036	454,441
		1890	26	1,116,359	53	46,319	567	251,189	560	.....	7	86,125	637,720	1,185,565
		1880	22	266,200	.....	.....	239	72,489	220	.....	19	.....	101,853	227,392
14	Whips	1900	60	1,893,703	228	245,596	1,287	478,176	853	358	76	277,599	1,278,324	2,734,471
		1890	81	1,632,404	143	141,380	944	403,142	668	268	8	245,962	821,614	2,153,818
		1880	88	1,078,070	.....	.....	1,056	415,007	742	266	48	.....	701,225	1,698,633
14	Windmills	1900	68	4,308,666	281	249,684	2,045	940,474	2,027	10	8	314,628	2,172,098	4,354,312
		1890	77	2,463,231	185	135,808	1,110	555,776	1,099	4	7	171,781	1,123,947	2,475,050
		1880	60	697,100	.....	.....	596	244,197	585	3	8	.....	523,594	1,010,542
14	Window shades	1900	207	5,507,842	314	335,233	2,012	871,532	1,477	507	28	400,710	6,046,062	8,868,259
		1890	182	4,167,457	374	421,516	2,025	1,016,255	1,644	364	17	1,298,181	5,341,874	9,239,669
		1880	131	1,385,515	.....	.....	1,279	479,133	1,015	143	121	.....	1,635,700	2,826,518
3	Wire	1900	29	4,242,173	94	136,327	1,603	859,645	1,561	28	19	213,419	7,014,319	9,421,238
		1890	24	11,607,685	208	327,280	7,596	3,856,522	7,547	48	1	447,480	15,038,540	22,012,804
		1880	40	4,230,071	.....	.....	6,169	1,982,731	5,544	172	453	.....	7,034,065	10,836,605
3	Wirework, including wire rope and cable.	1900	597	16,374,629	995	939,904	9,255	3,934,525	7,821	1,162	272	1,014,708	10,858,229	19,942,882
		1890	569	11,757,902	963	897,618	6,954	3,085,591	5,809	870	275	858,877	8,325,435	15,552,857
		1880	305	3,681,893	.....	.....	4,459	1,708,165	3,595	300	564	.....	5,410,084	9,127,818
4	Wood, preserving	1900	21	1,229,746	54	56,670	478	205,105	477	.....	1	61,763	1,825,355	2,395,748
		1890	4	262,718	15	12,692	80	23,317	80	.....	.....	13,385	50,697	143,475
		1880	2	120,000	.....	.....	36	14,717	36	.....	.....	.....	62,700	101,110
4	Wood, turned and carved[6]	1900	1,171	10,278,418	564	487,862	11,569	4,375,345	10,909	364	296	617,365	5,835,492	14,338,503
		1890	872	7,825,668	1,028	893,370	7,402	3,333,553	6,874	290	238	624,837	3,947,227	10,939,647
		1880	916	4,482,800	.....	.....	7,240	2,585,578	6,437	142	661	.....	3,637,950	8,426,817
4	Woodenware, not elsewhere specified.	1900	104	3,824,512	160	137,981	3,206	1,073,303	2,823	223	160	210,789	1,468,383	3,585,542
		1890	167	2,711,609	220	186,921	2,881	1,050,413	2,607	131	143	200,961	1,498,773	3,597,602
		1880	287	3,606,794	.....	.....	5,033	1,539,571	4,268	144	621	.....	2,635,720	5,235,474
2	Wool hats	1900	24	2,050,802	57	66,766	2,108	937,855	1,358	651	99	185,644	2,042,202	3,591,940
		1890	32	4,142,224	92	113,968	3,500	1,249,976	2,220	1,121	159	249,568	2,802,041	5,329,921
		1880	43	3,615,830	.....	.....	5,470	1,893,215	3,222	1,459	789	.....	4,785,774	8,516,569

[1] In 1880 and 1890 reported as "tar and turpentine."
[2] No reports received for this industry in 1880 and 1890.
[3] No reports received for this industry in 1880.
[4] In 1880 and 1890 reported as "upholstery materials."
[5] Included 4 establishments in 1890 and 2 in 1880 reported as "clock cases and materials;" 32 in 1890 and 20 in 1880 as "watch and clock materials."
[6] In 1880 included 205 establishments reported as "handles, wooden," and 710 as "wood, turned and carved."

TABLE 4.—COMPARATIVE SUMMARY, BY SPECIFIED INDUSTRIES: 1880, 1890, AND 1900—Continued.

Group number.	INDUSTRIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
							Total.		Average number.					
					Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
2	Wool pulling[1]	1900	34	$944,715	35	$35,422	475	$247,950	475	.....	.....	$47,395	$53,975	$531,287
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Wool scouring[1]	1900	25	1,061,123	45	72,011	720	338,606	646	74	.....	102,039	193,826	889,809
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Woolen goods	1900	1,035	124,386,262	2,246	2,934,048	68,893	24,757,006	40,601	24,535	3,757	7,268,634	71,011,956	118,430,158
		1890	1,311	130,989,940	2,436	2,339,737	76,915	26,139,194	42,130	30,159	4,626	8,402,623	82,270,335	133,577,977
		1880	1,990	96,095,564	.....	.....	86,504	25,836,392	46,978	29,372	10,154	.....	100,845,611	160,606,721
2	Worsted goods	1900	186	132,168,110	1,369	2,342,218	57,008	20,092,738	25,595	25,829	5,584	6,767,611	77,075,222	120,314,344
		1890	143	68,085,116	615	935,217	42,978	14,944,966	19,071	20,082	3,825	4,917,760	50,706,769	79,194,652
		1880	76	20,374,043	.....	.....	18,803	5,683,027	6,435	9,473	2,895	.....	22,013,628	33,549,942
10	Zinc[2]	1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1890	8	1,007,320	30	38,270	1,052	614,826	1,049	.....	3	76,723	2,005,682	2,976,730
		1880	16	2,022,600	.....	.....	1,298	666,970	1,286	.....	12	.....	1,771,055	2,725,165
10	Zinc, smelting and refining.[2]	1900	31	14,141,810	208	440,200	4,869	2,355,921	4,843	8	18	399,472	13,286,058	18,188,498
		1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	All other industries[3]	1900	4	447,959	22	30,680	132	58,661	87	45	.....	56,325	299,339	503,449
		1890	12	2,952,222	49	62,448	1,699	559,632	735	926	38	219,518	1,773,808	3,142,145
		1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Included in other classifications in 1880 and 1890.

[2] The report for "zinc" in 1880 and 1890 differed in several particulars from that for "zinc, smelting and refining" in 1900, and a comparison between these industries is therefore impracticable.

[3] In 1900 embraces collars and cuffs, paper, 1; cotton, cleaning and rehandling, 2; fuel, artificial, 1; in 1890 embraces fuel, artificial, 2; phonographs and graphophones, 2; racking hose, 1; rubber, vulcanized, 1; sugar and molasses, beet, 2; thread, linen, 2; tinfoil, 2.

THE FIFTEEN GROUPS OF INDUSTRIES.

The manufacturing industries of the United States may now be considered from the point of view of their interdependence or relationship to one another. Previous censuses have made no attempt to combine industries allied to each other through similarity in the raw materials which lie at their base, or in the uses which their products subserve.

To remedy this defect, the Twelfth Census has brought the industries of the country together into 15 grand groups. In making this generic grouping the effort has been to follow lines distinct and well recognized in common practice. The hand trades are set off into one group and the true manufacturing industries are collected into groups distinguished either by similarity of the chief components employed as raw material, or by similarity in the use of the products, or by both. The grouping founded upon these lines is found to include all but a comparatively small number of industries, which are classed together as an independent group.

Statistics, like other branches of investigation, reaches the point where it may properly be called scientific, when the fundamental resemblances of individual phenomena are noticed, and the former haphazard knowledge becomes organized knowledge. The 354 industries of the census correspond, in a measure, to the "species" of natural history, while the 15 great groups of industries are analogous to the "genera," the whole making the great "order" of manufacturing industry. Thus viewed, we have as the subject of investigation the great order of manufacturing industry, made up of the 15 genera or groups of industries, each utilizing a common material or subserving a common purpose. These family groups ramify into the 354 various industries, each in turn made up of the individual establishments.

TABLE 5.—COMPARATIVE SUMMARY, FIFTEEN GROUPS OF INDUSTRIES: 1880, 1890, AND 1900.

GROUPS.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
				Number	Salaries.	Total number	Total wages.
United States	1900	512,254	$9,817,434,799	396,759	$403,711,233	5,308,406	$2,322,333,877
	1890	355,415	6,525,156,486	461,009	391,988,208	4,251,613	1,891,228,321
	1880	253,852	2,790,272,606	.....	.....	2,732,595	947,953,795
Group 1.—Food and kindred products	1900	61,302	940,889,838	46,732	39,313,664	313,809	129,910,070
	1890	41,296	507,678,328	[1] 48,113	[1] 33,354,171	249,321	90,373,450
	1880	38,427	318,800,209	(2)	(2)	174,410	51,840,649
Group 2.—Textiles	1900	30,048	1,366,604,058	44,502	49,982,357	1,029,910	341,734,399
	1890	16,847	1,008,050,268	[1] 33,971	[1] 35,496,486	824,138	278,167,769
	1880	14,137	594,922,784	(2)	(2)	710,493	198,456,573
Group 3.—Iron and steel and their products	1900	13,896	1,528,979,076	49,828	58,090,781	733,968	381,875,499
	1890	11,169	997,872,438	[1] 30,948	[1] 36,583,536	531,323	285,351,714
	1880	8,823	487,870,983	(2)	(2)	379,491	160,865,294
Group 4.—Lumber and its remanufactures	1900	47,079	946,116,515	31,110	28,982,927	546,953	212,201,768
	1890	35,536	844,418,472	[1] 41,292	[1] 30,868,184	547,776	201,558,706
	1880	42,336	813,615,838	(2)	(2)	319,661	96,267,031
Group 5.—Leather and its finished products	1900	16,989	343,600,513	14,036	14,186,690	288,202	99,769,885
	1890	12,918	246,795,713	[1] 17,782	[1] 15,348,267	212,727	98,432,593
	1880	16,208	139,850,821	(2)	(2)	181,772	70,539,442
Group 6.—Paper and printing	1900	26,747	557,610,887	48,183	48,974,138	297,551	140,092,453
	1890	20,160	344,003,723	[1] 35,543	[1] 34,625,986	225,645	117,611,864
	1880	6,044	135,367,497	(2)	(2)	119,388	53,371,147
Group 7.—Liquors and beverages	1900	7,861	534,101,049	10,899	16,893,405	63,072	36,946,557
	1890	4,219	310,002,635	[1] 8,407	[1] 11,118,673	48,358	29,140,916
	1880	3,880	134,997,731	(2)	(2)	38,747	17,148,760
Group 8.—Chemicals and allied products	1900	5,444	498,390,219	22,318	26,335,164	101,522	43,870,602
	1890	5,642	322,543,674	[1] 13,469	[1] 14,171,587	76,535	33,872,540
	1880	2,914	113,887,551	(2)	(2)	45,443	17,271,308
Group 9.—Clay, glass, and stone products	1900	14,809	350,902,367	18,571	13,718,996	244,987	109,022,582
	1890	11,711	217,386,297	[1] 13,511	[1] 11,370,622	221,367	90,541,771
	1880	10,418	83,142,840	(2)	(2)	132,615	39,929,100
Group 10.—Metal and metal products other than iron and steel	1900	16,305	410,646,057	13,973	16,059,194	190,757	96,749,051
	1890	10,019	204,285,820	[1] 14,824	[1] 14,924,917	123,239	64,055,644
	1880	9,801	87,580,051	(2)	(2)	85,278	38,907,126
Group 11.—Tobacco	1900	15,252	124,089,871	8,262	8,951,534	142,277	49,852,484
	1890	11,643	96,094,753	[1] 13,152	[1] 10,241,271	122,775	44,550,735
	1880	7,674	39,995,292	(2)	(2)	87,587	25,054,457
Group 12.—Vehicles for land transportation	1900	10,113	396,778,672	16,369	15,191,444	316,214	164,614,781
	1890	10,175	248,224,770	[1] 13,251	[1] 11,172,134	221,125	118,212,379
	1880	4,472	55,317,091	(2)	(2)	68,677	27,764,713
Group 13.—Shipbuilding	1900	1,116	77,362,701	1,407	2,008,537	46,781	24,839,163
	1890	[3] 1,010	53,393,074	[1] 1,123	[1] 1,194,870	24,811	14,833,977
	1880	2,188	20,979,874	(2)	(2)	21,345	12,713,813
Group 14.—Miscellaneous industries	1900	29,479	1,348,920,721	53,227	49,199,283	483,273	202,746,162
	1890	19,304	768,870,920	[1] 33,192	[1] 33,363,252	302,649	136,643,444
	1880	11,149	180,245,046	(2)	(2)	188,774	66,083,451
Group 15.—Hand trades	1900	215,814	392,442,265	22,342	15,823,119	559,130	288,118,421
	1890	143,716	355,535,601	[1] 142,436	[1] 98,159,252	519,324	287,880,819
	1880	75,381	83,699,048	(2)	(2)	178,914	71,740,931

[1] Includes proprietors and firm members with their salaries; number only reported in 1900, but not included in this table. [2] Not reported separately.
[3] Includes 4 governmental establishments in 1890. (See special report on Shipbuilding in the Report on Manufactures, Part IV.)

TABLE 5.—COMPARATIVE SUMMARY, FIFTEEN GROUPS OF INDUSTRIES: 1880, 1890, AND 1900—Continued.

GROUPS.	Year.	AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.			Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
		Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
United States	1900	4,110,527	1,029,296	168,583	$1,027,755,778	$7,845,413,651	$13,004,400,143
	1890	3,327,042	803,686	120,885	631,225,035	5,162,044,076	9,372,437,283
	1880	2,019,035	531,639	181,921	.....	3,396,828,549	5,369,579,191
Group 1.—Food and kindred products	1900	237,950	64,639	11,220	77,986,185	1,889,256,143	2,277,702,010
	1890	191,200	49,021	9,100	52,986,982	1,318,963,830	1,636,197,191
	1880	140,976	23,276	10,158	.....	1,002,453,074	1,171,165,325
Group 2.—Textiles	1900	440,175	512,712	77,023	128,481,214	895,984,796	1,687,484,484
	1890	356,071	421,550	46,517	78,404,675	705,004,909	1,261,672,504
	1880	288,810	351,482	70,201	.....	569,610,545	971,274,539
Group 3.—Iron and steel and their products	1900	712,195	13,777	7,996	91,492,127	987,198,370	1,793,490,908
	1890	517,092	7,804	6,927	57,694,853	617,554,226	1,144,056,537
	1880	355,937	4,585	18,969	.....	369,142,796	659,411,181
Group 4.—Lumber and its remanufactures	1900	521,177	13,678	12,098	42,142,321	561,501,302	1,030,906,579
	1890	524,133	13,337	10,306	45,510,782	462,658,350	877,954,920
	1880	294,280	7,008	18,373	.....	282,809,519	489,368,139
Group 5.—Leather and its finished products	1900	175,926	55,970	6,306	22,942,594	395,551,282	583,731,046
	1890	163,398	45,786	3,543	18,587,831	294,446,011	487,556,030
	1880	147,141	29,019	5,612	.....	293,834,529	425,901,191
Group 6.—Paper and printing	1900	211,560	73,922	12,069	76,069,663	214,158,423	606,317,768
	1890	165,451	50,831	9,363	59,524,277	149,597,579	445,587,430
	1880	80,187	29,762	9,439	.....	91,792,937	198,312,617
Group 7.—Liquors and beverages	1900	60,608	1,095	1,369	188,754,387	122,218,073	425,504,167
	1890	47,134	437	787	117,046,590	109,830,410	341,155,361
	1880	38,034	131	582	.....	102,360,561	167,306,052
Group 8.—Chemicals and allied products	1900	86,384	14,310	828	49,825,945	356,192,334	552,891,877
	1890	66,572	8,649	1,314	29,508,992	239,915,794	380,056,497
	1880	40,245	3,780	1,468	.....	112,763,633	170,076,312
Group 9.—Clay, glass, and stone products	1900	225,007	9,336	10,644	19,185,657	94,615,281	293,564,235
	1890	204,284	4,551	12,532	14,094,740	68,990,146	229,806,003
	1880	115,547	2,213	14,856	.....	40,064,200	108,010,252
Group 10.—Metals and metal products, other than iron and steel	1900	158,984	26,975	4,798	21,295,406	496,979,368	748,795,464
	1890	104,329	16,157	2,753	14,731,078	179,169,940	316,908,150
	1880	70,718	9,224	5,336	.....	99,597,745	173,273,848
Group 11.—Tobacco	1900	80,990	53,374	7,913	79,495.422	107,182,656	283,076,546
	1890	78,198	36,419	8,158	37,561,681	92,304,317	211,746,623
	1880	55,552	20,480	11,555	.....	65,384,407	118,070,166
Group 12.—Vehicles for land transportation	1900	312,651	2,239	1,324	19,842,332	268,278,205	508,649,129
	1890	218,437	1,542	1,146	9,460,374	174,624,639	344,476,243
	1880	66,124	391	2,162	.....	56,128,359	104,968,728
Group 13.—Shipbuilding	1900	45,744	34	1,003	3,685,661	33,486,772	74,578,158
	1890	24,628	9	174	1,392,551	16.925,109	40,342,115
	1880	21,338	.....	7	.....	19,736,358	36,800,327
Group 14.—Miscellaneous industries	1900	383,684	89,999	9,590	81,933,611	490,078,705	1,004,092,294
	1890	236,852	60,537	5,260	49,025,323	300,231,851	645,574,453
	1880	130,737	47,894	10,143	.....	171,370,479	311,427,194
Group 15.—Hand trades	1900	457,492	97,236	4,402	124,623,253	482,736,991	1,183,615,478
	1890	429,263	87,056	3,005	45,744,306	431,826,965	1,009,347,226
	1880	173,409	2,444	3,061	.....	119,774,407	263,613,370

Having formulated a grouping of the various industries which shows their relation and interdependence, it becomes possible so to apply the rule of selection and aggregation to the results of prior censuses as to show comparative statistics for each of the groups of industries. Table 5 shows a comparison, for each of the groups, of the manufacturing statistics of the censuses of 1880, 1890, and 1900.

Group 1.—*Food and Kindred Products.*—First among the 15 groups stands the manufacture of food and kindred products, with $2,277,702,010 value in 1900, which was nearly double that for 1880, and constituted 17.5 per cent of the total value of all products of manufacture. Included in the group are 25 specified manufacturing industries which utilize one or more of the food products of agriculture. These industries are presented in detail in Table 4. In addition to the statistics of this group of industries shown in that table, there will be found in the Report on Manufactures, Part III, monographs upon several of the more important branches of food manufacture, including the factory production of cheese, butter, and condensed milk; slaughtering and meat packing; flouring and grist mill products; the canning and preserving of fruits and vegetables, of fish, and of oysters; rice, cleaning and polishing; oleomargarine; and beet sugar. A detailed account of the manufacture of cane sugar appears in the Report on Agriculture.

The cost of raw materials consumed in the group was $1,279,450,388, or more than half the gross value of products, $2,277,702,010. The large proportional value of raw materials seen in this group in general is shown particularly in the case of wholesale slaughtering and meat packing, represented by 573 establishments with

gross products of $698,206,548, the largest value of any industry in the group, or indeed of any industry in any of the 15 groups, with the exception of iron and steel.

In marked contrast in respect to distribution is the second most important manufacture included in this group, that of flouring and grist mill products, with a value of $560,719,063, from 25,258 establishments located in every state in the Union.

Group 2.—*Textiles.*—While manufactures of food stuffs form the most valuable class of products, manufactures of clothing and fabrics of every description for household and other uses occupy the third rank. The fundamental materials of this group are textile fibers of every variety—cotton, wool, flax, silk, jute, hemp, ramie, and other coarser fibers, and all admixtures of them. The group includes not merely the fabrics utilized for clothing, but such other products as carpets, oilcloths, mats and mattings, nets, cordage, etc., and the manipulation of textile goods in every form and for every purpose. Forty-four classes of manufactures appear in this group, which, at the census of 1900, comprised 30,048 establishments, being fourth in rank among the 15 groups in this particular. The value of products of these establishments was $1,637,484,484, which constituted 12.6 per cent of the total value of all products for the United States, and was exceeded in 1900 only by group 1, food and kindred products, and by group 3, iron and steel and their products. At the census of 1890 it was second in respect to value of products. Monographs on the leading industries of this group appear in the Report on Manufactures, Part III, including reports on the combined textiles; cotton manufacture; wool manufacture; silk manufacture; hosiery and knit goods; flax, hemp, and jute; dyeing and finishing of textiles; collars, cuffs, and shirts; and the wholesale clothing manufacture.

The cotton manufacture stands at the head of the textile industries proper, with respect to all the items covered by the census reports, the value of its products being $332,806,156.

The United States has pressed forward so rapidly in the manufacture of cotton that in the production of cotton goods, judged by relative spinning capacity, it now holds the second rank among nations.

The advance of the wool manufacture into the perfected factory system has been more slow than that of cotton, although there are many wool-working establishments of enormous productive capacity. The range of products made in American wool factories is as wide as the multiform uses of this most valuable of fibers. The principal products of the industry fall naturally into four great groups—woolen goods, worsted goods, carpets, and felts. The once extensive industry of wool hat manufacture has well-nigh been swallowed up by the newer fur hat industry.

The census of 1900 shows a continued decadence in the manufacture of woolens proper, as distinguished from worsteds, there being an actual decrease in the value of the products of woolen mills, accompanying a marked increase in the value of worsted products. The worsted manufacture is an industry of comparatively recent origin in the United States. Early in the forties there were two or three large mills in New England for the production of worsted fabrics or stuffs for women's wear, but the manufacture made little headway until after the close of the civil war, and it was not until about 1870 that the manufacture of worsted goods for men's wear was seriously undertaken in this country. Since then, however, the development of the industry along these lines has been phenomenal, and there are now in this country half a dozen or more mills of most modern equipment turning out these goods in larger quantities than any foreign establishments.

The most notable achievement in textile manufactures has been, perhaps, in the carpet industry. Beyond question the United States is the greatest carpet manufacturing nation. The 133 mills engaged in this industry in 1900 produced $48,192,351 worth of two-ply or three-ply ingrains, Brussels, moquettes, tapestries, velvets, Smyrnas, and the higher grades of Axminsters and Aubussons, representing an aggregate of over 80,000,000 square yards of carpets.

The manufacture of hosiery and knit goods has in previous censuses been treated as a branch of wool manufacture; it is now more properly presented as a cognate industry, wool having given place to cotton as the chief material of these goods. In this industry also the United States has outstripped the rest of the world. More machine-knit goods, both underwear and hosiery, are turned out annually in this country than in all other countries combined. The value of the products of hosiery and knit goods mills in the census year was $95,482,566, an increase of 42 per cent since 1890. The great variety of goods made, facilitates a tendency shown by this industry to maintain itself in comparatively small mills which purchase their yarns and require but small capital.

Notable also among textiles for its rapid development in recent years is the silk manufacture. In 1850 there were but 67 establishments engaged in this industry, and their production was valued at only $1,809,476. The present census shows 483 establishments manufacturing goods valued at $107,256,258, which is an increase of 22.9 per cent since 1890. Notwithstanding the fact that American silk factories depend entirely upon imports for their raw silk material, the industry has grown so rapidly, stimulated by many inventions of American origin, and by the general prosperity of the people which has encouraged consumption of these comparatively expensive goods, that the United States has in fifty years become the chief silk-manufacturing nation in the world, with the possible exception of France, the value of whose products in this industry may still slightly exceed that of the products of the United States.

The only branch of textile manufacture in which the

United States has not made a progress in keeping with that of all other lines of industry, is the linen manufacture; and the reasons for this are fully explained in the special report upon the flax, hemp, and jute industry, which appears in the Report on Manufactures, Part III.

Cotton Ginning.—Included in the textile group are reports from 11,369 establishments employed in the ginning of cotton. Reports from these establishments, giving the quantity of cotton ginned in the United States preparatory to placing it on the market, constitute a portion of the results of a special inquiry, undertaken for the first time at the Twelfth Census. Much important information, new to the public, was elicited, and the contribution to the precise and accurate knowledge of the cotton crop of the census year was accepted as so important and valuable that, by order of the Director, a second inquiry was undertaken regarding the crop of 1900, and this second report was followed by a third upon the cotton crop of 1901.

The law establishing a permanent census office provides for the annual continuation of the report on cotton ginning and for its publication in parts at frequent intervals.

The cotton ginning report for the census year was based upon returns from 29,620 gins, which, in accordance with the peculiar conditions surrounding this industry, consisted of 6,468 establishments operated for the public, 2,863 establishments operated only for the plantations upon which was grown the cotton they handled, and 20,289 establishments operated jointly for the plantations owning them and for the planters of the immediate neighborhood. In the general statistics of manufactures only 11,369 of these 29,620 ginneries appear under the industry "cotton ginning." The discrepancy is due to the fact that the plantation ginneries were included in the agricultural reports, and to the further fact, explained elsewhere in this report, that a large proportion of these ginning establishments are run in connection with sawmills, grist mills, and cotton-seed oil mills, the separate lines of industry being carried on in the same establishment successively at different seasons of the year; in the consolidation of the reports made to the Census Office, the establishment was assigned to the industry the product of which predominated in value.

Group 3.—Iron and Steel.—The third great group comprises the products of iron and steel in almost infinite variety. Iron is said to be the basis of all manufacturing industry, and the condition of this basic industry is regarded in trade as the most accurate barometer of the general condition of all industrial enterprise. "Manufactures of iron constitute, in whole or in part, the implements or materials, or both, of almost every useful occupation."[1] Included in this group are the primary or fundamental products of iron and steel, such as pig iron, iron and steel ingots, billets, rails, structural iron and steel, machinery and tools of every description, all forms of hardware, and a well-nigh innumerable group of subsidiary products. Special reports upon the primary iron and steel industries, blast furnaces, forges and bloomeries, rolling mills, and steel works; upon locomotives; upon machinery; and upon various other subordinate branches of the industry appear in Part IV, Manufactures.

Returns were received from 13,896 establishments in this group, representing a value of products of $1,793,490,908, which constitutes 13.8 per cent of the total gross value of products of all industries during the census year. Since the last census there has developed an entirely new branch of manufacture, that of tin and terne plate, represented in 1900 by 57 establishments, with 3,671 wage-earners, and products valued at $31,892,011. The increase in the value of products of the iron and steel group was 56.8 per cent.

At the time when the census was taken the blast furnaces, rolling mills, steel works, forges, and bloomeries were in a state of activity unprecedented in the history of the country, and yet it was impossible to promptly supply the demands for their products.

In these mills have occurred the most marked advances in labor-saving machinery and in appliances for reducing labor costs. To these advances, which are nearly all of American invention, is due the fact that since the last census was taken the United States has reached a point where, measured by value of products, it stands preeminently the greatest iron-manufacturing nation in the world. Not less striking than the increase in the value of products is the increased use to which iron and steel have been put in the evolution of other branches of industrial activity.

Group 4.—Lumber and its Remanufactures.—The fourth great group of industries is that which uses wood as its material. The Twelfth Census shows for this group 47,079 establishments, $946,116,515 capital, and $1,030,906,579 as the value of products, which was 7.9 per cent of the total value of products of the country. A special report covering the more important branches of lumber manufacture appears in the Report on Manufactures, Part III.

In each of the four preceding groups—food products, textiles, iron and steel, and lumber—the value of products for 1900 exceeded $1,000,000,000; and these four, taken together, represent more than one-half of the total value of the products of the United States.

Group 5.—Leather and its Finished Products.—The fifth great group of national industries is that which depends upon skins and hides for its chief raw materials. It includes in its products the leather itself in all its forms, tanned and curried, patent and enameled, and morocco, as well as the finished products into which the leather is remanufactured. The most im-

[1] Report on Manufactures, Dec. 5, 1791, by Alexander Hamilton, Secretary of the Treasury.

portant among these are included under the factory production of boots and shoes, and the minor industries of saddlery and harness, trunks, belting, and a great variety of other leather goods. Special reports upon the manufacture of leather and upon the factory manufacture of boots and shoes appear in Part III of the Report on Manufactures. The present census is the first which has given special treatment to the leather industry. The development of the industry is almost wholly the result of American enterprise, both as to machinery and methods, and the United States is the only country in which the factory production of boots and shoes has practically driven out the hand-made article. A large and increasing proportion of the product is exported.

Group 6.—*Paper and Printing.*—The sixth great group is that of paper and printing, in which 26,747 establishments, with $557,610,887 capital and 297,551 employees, turned out products valued at $606,317,768, which constituted 4.7 per cent of the total value of products for all industries. The value of products of this group of industries in 1900 was more than threefold that in 1880. The census classification includes in this group the manufacture of wood pulp, which, except for its more intimate relation under modern conditions to the manufacture of paper, might well have been included in the lumber industry. The difficulty of making a proper separation arises from the fact that many of the great paper-manufacturing companies of the present day own the forests, and operate the wood-pulp mills in intimate connection and often in the same buildings with their paper mills. This condition is one which has arisen almost wholly during the last decade; and, indeed, the whole development of the manufacture of paper from the fiber of wood is of modern date and largely of American origin. Nowhere in industry has there occurred an evolution so striking as that which has entirely changed the sources and character of the materials utilized. The paper and wood-pulp industry records a phenomenal advance during the decade. In 1900, 763 establishments produced $127,326,162 worth of products, an increase in value since 1890 of 61.3 per cent. A special report upon the paper manufacture is, for the first time, presented at this census, and appears in Part III of the Report on Manufactures.

In this group are 21 industries, many of which, like steel engraving, diesinking, lithographing, photo-engraving, stereotyping, and electrotyping, are only related to the rest of the group through their cognate utilities.

Next in importance to the production of the material itself, and of even greater importance than the manufacture of paper, measuring importance by value of product, stands printing and publishing, in which are included, under separate classes, book and job printing, music printing, and the printing and publishing of newspapers and periodicals, representing among them an aggregate product of $347,055,050, or more than one-half of the value of all products included in the group. A special report upon the printing and publishing industry in its several branches appears in Part III, Manufactures. The old-fashioned, laborious method of typesetting by hand has very generally given place, particularly in newspaper offices, to machine typesetting. Accompanying this change has been a development in the printing press which permits the production of newspapers of enormous size with a rapidity and at a price not conceived of twenty-five years ago as within the possibility of mechanical enterprise.

Group 7.—*Liquors and Beverages.*—The seventh great group of industries covers the production of liquors and beverages, including distilled liquors, malt liquors, wines, and mineral and soda waters, and the important cognate industry of bottling. The group includes 7,861 establishments, with $534,101,049 capital, 63,072 wage-earners, and with products valued at $425,504,167, which sum represents 3.3 per cent of the total value of products for all industries. Special reports upon the principal industries of this group appear in Part III, Manufactures.

The products of the distilleries, breweries, and wineries of the country represented a total annual production of 1,325,358,094 gallons of beverages. If this quantity be increased by the excess of imports over exports of the various classes of malt, distilled, and vinous liquors, and the total diminished by the excess of distillates manufactured over those withdrawn from bond, the result obtained (1,322,000,000 gallons) will indicate the approximate annual consumption by the people of the United States.

Group 8.—*Chemicals and Allied Products.*—The eighth great group of industries is that of chemicals and allied products, in which are included, in a manner somewhat arbitrary, the manufacture not only of chemicals proper, but the proprietary and patent preparations of drugs, medicines, and compounds, expressed and other oils, nonmineral paints, explosives, fertilizers, dyestuffs and extracts, salt, petroleum refining, and many similar industries, the total number of classes being 20. A special report on the manufacture of chemicals covering the most important of the above classes appears in Part IV of the Report on Manufactures, where are also included special reports upon the manufacture of salt and starch, and petroleum refining. The manufacture of chemicals and allied products was carried on in 5,444 establishments, with a capital of $498,390,219, employing 101,522 wage-earners, and products valued at $552,891,877, or 4.3 per cent of the total value of products for all industries.

Group 9.—*Clay, Glass, and Stone Products.*—The ninth great group is that of clay, glass, and stone products. Included in this group are sixteen industries, among which are pottery products, plate and window glass and glassware of all kinds, the reworking of glass

and clay products, mantels, marble-work, emery wheels, lime and cement, grindstones, millstones, hones and whetstones, monuments and tombstones, kaolin and other earth grinding, etc.

No report has been prepared upon the stone products of the country. It is practically impossible to represent the stoneworking industry separately from the quarrying of stone, with which it is so intimately connected. Quarrying, like mining, will be the subject of a subsequent report, in accordance with the provision of section 7 of the act creating a permanent Census Office. It follows that the statistics of stone products contained in the present report present a wholly inadequate picture of this important source of wealth.

The group shows 14,809 establishments, with $350,902,367 capital, 244,987 wage-earners, and $293,564,235 as the value of products, or 2.3 per cent of the total value of products for all industries—nearly threefold the value reported in 1880. Special reports upon the glass manufacture and the brick and tile and pottery industries appear in Part III, Manufactures.

Group 10.—*Metals and Metal Products, other than Iron and Steel.*—The tenth great group of industries, the manufacture of metals other than iron and steel, includes 35 of the census industries, among which are brass, copper, brass castings, watches, clocks, and jewelry, gold and silver reducing and refining, plated ware, electroplating, zinc, lead, type founding, and all metal working other than that of iron and steel. The extension of the street-railway system in all parts of the country since the successful application of electricity as a method of propulsion, has been one of the chief factors in quadrupling the uses of copper during the last ten years, and our vast domestic supplies of raw copper have enabled our manufacturers not only to supply the home demand for all forms of manufactured copper, but to develop a large export business.

For the group there were reported 16,305 establishments, with $410,646,057 capital, 190,757 wage-earners, and $748,795,464 as the value of products, or 5.8 per cent of the value of products for all industries. Special reports upon the smelting and refining of lead, copper, and zinc, upon watches and watch cases, needles and pins, and pens, included in this group, appear in Part IV, Manufactures. Attention is also directed to the special report in Part IV upon the manufacture of electrical apparatus and supplies, in which are shown many details of the new uses of copper, growing out of the rapid utilization of electric power in manufacture, transportation, lighting, and heating. In comparing the statistics of this group with those for former censuses, it should be borne in mind that formerly the production of these metals from the ore was not generally considered a manufacturing operation, and therefore the statistics of such production were not separated from the statistics of mining. In a few cases smelting was included in 1890 with the statistics of manufactures, and in view of the known expansion of metal productions since that year it is probable that the error of comparison is less than would at first appear.

Group 11.—*Tobacco.*—The eleventh great group of industries comprises those which are confined to the manufacture of tobacco in any of its forms. This group shows 15,252 establishments, with $124,089,871 capital, 142,277 wage-earners, and products of $283,076,546 in value, or 2.2 per cent of the total gross value of products in 1900, an increase of more than 100 per cent for this group since 1880.

A special report on the tobacco manufacture appears in Part III, Manufactures.

Group 12.—*Vehicles for Land Transportation.*—The twelfth great group of industries includes all manner of vehicles for land transportation. They include nine industries, the most important of which are the manufacture and repair of cars by steam and street railway companies, the manufacture of carriages and wagons, and of bicycles and tricycles.

There were 10,113 establishments in this group, with $396,778,672 capital, 316,214 wage-earners, and products valued at $508,649,129, or 3.9 per cent of the total value of products for all industries, an increase since 1880 of 384.6 per cent, or nearly fourfold. Special reports appear in Part IV, Manufactures, upon the manufacture of bicycles and tricycles, carriages and wagons, and steam railroad cars.

Group 13.—*Shipbuilding.*—The thirteenth great industry group is that of shipbuilding. The value of ships, boats, and vessels of all kinds produced in the shipyards of the country, both private and governmental, has increased from $40,342,115 in 1890 to $85,612,470 in 1900, an increase of 112.2 per cent. The whole of this increase, however, has been in the branch of iron and steel shipbuilding; the value of such vessels constructed, not including those in governmental shipyards, increased from $12,929,953 in 1890 to $50,367,739 in 1900, or 289.5 per cent. On the other hand, there was an actual decrease of 3.7 per cent in the value of wooden ships, boats, etc. (not including those in Government shipyards), built in 1900, as compared with the output of the year 1890, the amounts being $24,210,419 and $25,135,457 respectively. A special report, in which the full significance of these changes in the industry is brought out, appears in Part IV, Manufactures.

Group 14.—*Miscellaneous Industries.*—The fourteenth group of industries is a heterogeneous grouping of all the miscellaneous industries not included in any of the prior groups, nor in the hand trades, and not susceptible of such inclusion. It comprises all those branches of true manufacturing which, by reason of their peculiar character as specialties or novelties, or by reason of the special raw material utilized, or for any other reason, can not properly be classified with any of the great

general groups preceding. Among the raw materials thus employed may be specified rubber, ivory, precious stones, and the like.

Included in the miscellaneous group are 80 industries, the most important of which, on the basis of the classification by value, are agricultural implements, representing $101,207,428; electrical apparatus and supplies, representing $91,348,889; gas, illuminating and heating, representing $75,716,693; soap and candles, representing $53,231,017; rubber and elastic goods, representing $52,627,030; paving and paving materials, representing $46,447,719; rubber boots and shoes, representing $41,089,819; coke, representing $35,585,445; pianos, representing $35,324,090; and bridges, representing $30,151,624.

The group reported 29,479 establishments, $1,348,920,721 capital, 483,273 wage-earners, and products valued at $1,004,092,294, or 7.7 per cent of the total gross value of products, an increase of over threefold since 1880.

Group 15.—*Hand Trades.*—There remains to be considered one great group embracing the industries commonly known as hand trades, which in this census have been segregated from the manufacturing industries proper, in order to bring out distinctly the relative importance of each.

In the total number of establishments reporting at the Twelfth Census, these hand trades naturally represent a proportion altogether out of keeping with the relative value of their products. In 1890 there were 143,716 such establishments reporting, out of a total number for all industries of 355,415, or 40.4 per cent. In 1900 the number of such establishments had increased to 215,814, and represented 42.1 per cent of the total of 512,254 establishments. In 1890 they employed 661,760 persons, including all the proprietors of such establishments. In 1900 the number of wage-earners was 559,130, to which, in order to render the number comparable with that of the census of 1890, must be added 242,154 proprietors, making a total of 801,284. The value of the products of these establishments in 1890 was $1,009,347,226, or 10.8 per cent of the total gross value of the products of the manufacturing industries of that year. In 1900 the gross value of products was $1,183,615,478, or 9.1 per cent of the total.

Included in the 15 groups are establishments representing nearly every manufacturing industry which is pursued by man in any part of the world. The exceptions are practically confined to certain products of skilled hand labor, ordinarily known as specialties or novelties. Because of the limited profitable employment of machinery, and the higher rate of wages paid in this country for skilled labor, which forms a large item in the cost of production in this class of industries, they have not been transferred from the centers of Europe, where they had their origin generations ago.

THE RANK OF INDUSTRIES.

In Table 6 the rule has been adopted of ranking industries by the relative value of the gross products of each. It is necessary for purposes of uniformity in the census to adopt a single standard of measurement, and that of gross value of products has been adopted in all censuses, not because it is necessarily the most exact or the most significant standard of measurement, but because it is the simplest and most readily understood.

In the analysis of the statistics, however, it is necessary to point out the erroneous conclusions likely to result from a strict application of this standard of measurement, and to show that it is of value only in the most general way. Many misleading conclusions can thus be avoided.

The importance of one industry as compared with another depends upon a variety of considerations, of which the value of the gross product is only one, and in some respects the least important. Other standards of measurement which should be carefully considered are the net value of products, the amount of capital utilized, the number of hands employed, the volume of wages paid, and the character and value of the materials used.

It is a curious fact that of all the industries considered in this table there is not one which occupies the same rank among the industries when it is considered from all these points of view. To illustrate: Slaughtering and meat packing ranks first among the industries in net value of products and second in gross value, owing to the intrinsic value of the raw materials operated upon; but when considered from the point of view of capital invested, this industry falls to the tenth rank; from the point of view of the average number of wage-earners, to the seventeenth rank; and from the point of view of wages paid, to the fifteenth rank. It is thus apparent that while this industry occupies nominally the second rank when gauged by the standard adopted for census comparisons, the gross value of products, it is actually, in respect to all the other elements which are combined in manufacture, of much less importance compared with other industries. Another illustration is cotton manufacturing, which ranks eighth when the gross value of the products is taken as the standard, sixth by the net value of products, fifth by wages paid, fifth by capital invested, and second by the standard of the average number of employees. These variations in rank between these two industries make cotton manufacturing much more important economically than slaughtering and meat packing, considering both industries entirely apart from the agricultural forces employed in the creation of their raw materials.

The industry of lumber and timber products ranks second among those in the census classifications when measured by the volume of capital employed, and third when measured by the average number of wage-earners

and the total amount of wages paid, but it falls to the fourth rank when considered on the basis of the gross value, and to the fifth in the net value of products. The variation in this case is easily accounted for by the fact that many establishments engaged in the production of lumber have large sums invested in great tracts of timber lands for future exploitation. The flouring and grist mill industry holds the second rank, measured by the net value of products; fifth, measured by gross value; ninth, measured by the amount of capital utilized; thirty-fifth, measured by the amount paid in wages; and thirty-fourth, measured by the average number of wage-earners. These striking variations are explained by the peculiar conditions surrounding this industry, which is represented by an enormous number of establishments, located in both large and small communities. Some of these mills are very large, but the majority are small mills, in many cases working only during portions of the year, and being operated by the proprietors without any hired assistance.

Table 6 shows the more important items of the totals for 55 industries having products valued at over $50,000,000 in 1900, together with the rank of the industry in each of these items.

TABLE 6.—RANK OF INDUSTRIES WITH PRODUCTS VALUED AT OVER $50,000,000.

INDUSTRIES.	Number of establishments.	Rank.	Capital.	Rank.	Average number of wage-earners.	Rank.	Wages.	Rank.	VALUE OF PRODUCTS. Net.	Rank.	Gross.	Rank.
Iron and steel	668	41	$573,391,663	8	222,490	4	$120,820,276	2	$432,687,119	3	$803,968,278	1
Slaughtering and meat packing, not including retail butchering[1]	1,134	31	190,706,927	10	69,441	17	33,923,258	15	684,119,221	1	790,252,586	2
Foundry and machine shop products	9,324	15	665,058,245	1	350,327	1	182,232,009	1	377,812,876	4	644,990,999	3
Lumber and timber products	33,035	2	611,611,524	2	288,260	3	104,640,591	3	307,961,250	5	566,832,984	4
Flouring and grist mill products	25,258	4	218,714,164	9	37,073	34	17,703,418	35	540,052,649	2	560,719,063	5
Clothing, men's[2]	28,014	3	178,034,543	13	191,048	5	79,434,982	7	220,140,828	8	415,256,391	6
Printing and publishing[3]	22,312	5	292,517,072	8	162,992	7	84,249,954	6	264,859,062	7	347,055,050	7
Cotton manufactures[4]	1,055	33	467,240,157	5	302,861	2	86,689,752	5	296,633,150	6	339,200,320	8
Carpentering	21,315	6	71,327,047	31	123,985	10	71,049,737	8	176,611,706	12	316,101,758	9
Woolen manufactures[5]	1,414	28	310,179,749	7	159,108	8	57,933,817	10	218,637,292	9	296,990,484	10
Boots and shoes, factory product	1,600	26	101,795,283	21	142,922	9	59,175,883	9	93,701,767	19	261,028,580	11
Sugar and molasses refining	832	37	184,245,519	11	14,262	45	6,945,811	46	49,216,847	40	240,969,905	12
Liquors, malt	1,509	27	415,284,468	6	39,532	33	25,826,211	23	202,582,268	10	237,269,713	13
Cars and general shop construction and repairs by steam railroad companies	1,296	30	119,580,273	16	173,652	6	96,062,329	4	111,683,559	16	218,238,277	14
Leather, tanned, curried, and finished	1,306	29	173,977,421	12	52,109	26	22,591,091	27	186,389,057	11	204,088,127	15
Masonry, brick and stone[6]	8,333	16	48,070,289	39	93,568	18	53,152,258	11	125,356,555	14	203,593,634	16
Bread and other bakery products	14,917	9	81,049,553	28	60,271	21	27,893,170	21	89,262,303	23	175,657,348	17
Lead smelting and refining	39	55	72,148,933	30	8,319	52	5,088,684	49	97,425,341	18	175,466,304	18
Lumber, planing-mill products, including sash, doors, and blinds	4,204	22	119,271,631	17	73,627	16	32,685,210	16	74,205,166	28	168,343,003	19
Copper smelting and refining	47	54	53,063,395	37	11,324	49	8,529,021	42	76,502,792	26	165,131,670	20
Tobacco, cigars and cigarettes	14,539	10	67,706,493	32	103,462	11	40,925,596	18	152,300,012	13	160,223,152	21
Clothing, women's, factory product	2,701	23	48,431,544	38	83,739	14	32,586,101	17	75,315,179	27	159,339,539	22
Furniture, including cabinetmaking, repairing, and upholstering[7]	7,972	17	117,982,091	19	100,018	12	42,638,810	12	91,151,488	22	153,168,309	23
Plumbing and gas and steam fitting	11,876	13	47,111,204	40	53,916	24	31,873,866	18	68,035,688	30	131,852,567	24
Cheese, butter, and condensed milk[8]	9,356	14	36,508,015	47	12,865	46	6,170,670	48	124,008,573	15	131,199,277	25
Paper and wood pulp	763	38	167,507,713	14	49,646	27	20,746,426	32	77,954,480	25	127,326,162	26
Petroleum refining	67	53	95,327,892	22	12,199	47	6,717,087	47	107,512,092	17	123,929,384	27
Carriages and wagons	7,632	18	118,187,838	18	62,540	19	29,814,911	19	67,172,479	31	121,537,276	28
Silk and silk goods	483	44	81,082,201	27	65,416	18	20,982,194	31	86,483,994	24	107,256,258	29
Cars, railroad and street, and repairs, not including establishments operated by steam railroad companies[9]	193	52	106,721,188	20	44,063	31	23,342,763	26	39,326,856	47	107,186,359	30
Tobacco, chewing, smoking, and snuff	437	47	43,856,570	41	29,161	39	7,109,821	45	92,915,542	20	103,754,362	31
Agricultural implements	715	39	157,707,951	15	46,582	29	22,450,880	28	60,585,599	36	101,207,428	32
Tinsmithing, coppersmithing, and sheet-iron working	12,466	12	55,703,509	35	45,575	30	22,155,039	29	51,638,038	38	100,310,720	33
Liquors, distilled	967	34	32,651,604	51	3,722	55	1,733,218	55	91,451,293	21	96,798,443	34
Hosiery and knit goods	921	35	81,860,604	26	83,387	15	24,358,627	25	54,544,999	37	95,482,566	35
Electrical apparatus and supplies	580	42	88,130,943	24	40,890	32	20,190,344	33	44,583,830	41	91,348,889	36
Painting and paper hanging	16,939	7	27,217,086	55	59,191	22	34,822,819	14	52,541,861	35	88,396,852	37
Blacksmithing and wheelwrighting	51,771	1	54,976,341	36	36,193	36	17,974,264	34	63,764,914	34	85,971,630	38
Marble and stone work[10]	6,070	19	67,509,533	33	54,370	23	28,663,241	20	69,097,079	29	85,101,501	39
Confectionery	4,297	21	35,155,361	48	38,583	37	10,867,687	38	44,179,706	42	81,290,543	40
Gas, illuminating and heating	877	36	567,000,506	4	22,459	41	12,436,296	36	64,276,431	33	75,716,693	41
Shipbuilding[11]	1,116	32	77,362,701	29	46,781	28	24,839,163	24	42,492,518	46	74,578,158	42
Millinery, custom work	16,151	8	27,740,386	54	33,298	38	9,570,536	40	34,529,813	51	70,363,752	43
Coffee and spice, roasting and grinding	458	46	28,436,597	52	6,387	54	2,486,759	54	64,741,832	32	69,527,108	44
Chemicals	459	45	89,091,430	23	19,054	44	9,401,467	41	36,918,124	48	62,676,730	45
Saddlery and harness	12,934	11	43,354,136	42	24,123	40	10,725,647	39	30,677,173	52	62,630,902	46
Patent medicines and compounds	2,026	24	37,209,793	46	11,809	48	4,407,988	50	43,819,968	44	59,611,385	47
Oil, cottonseed and cake	369	49	34,451,461	49	11,007	50	3,143,459	53	43,195,446	45	58,726,632	48
Fruits and vegetables, canning and preserving	1,808	25	27,743,067	53	36,401	35	8,050,793	44	36,668,635	49	56,668,313	49
Glass	355	50	61,423,903	34	52,818	25	27,084,710	22	43,905,999	43	56,539,712	50
Ironwork, architectural and ornamental	672	40	33,062,409	50	20,646	42	11,111,226	37	23,398,179	54	53,508,179	51
Soap and candles	558	43	38,068,334	45	9,487	51	3,754,767	52	24,228,062	53	53,231,017	52
Rubber and elastic goods	262	51	39,304,853	44	20,405	43	8,082,738	43	35,278,808	50	52,627,030	53
Brick and tile	5,423	20	82,086,438	25	61,979	20	21,883,383	30	50,312,022	39	51,270,476	54
Paints	419	48	42,501,782	43	8,151	53	3,929,787	51	18,545,525	55	50,874,995	55

[1] Includes "sausage," "slaughtering and meat packing, wholesale," and "slaughtering, wholesale, not including meat packing."
[2] Includes "clothing, men's custom work and repairing," "clothing, men's, factory product;" and "clothing, men's, factory product, buttonholes."
[3] Includes "printing and publishing, book and job;" "printing and publishing, music;" and "printing and publishing, newspapers and periodicals."
[4] Includes "cotton goods" and "cotton small wares."
[5] Includes "woolen goods," "worsted goods," "carpets and rugs, other than rag," "felt goods," and "wool hats."
[6] Includes "masonry, brick and stone;" and "plastering and stuccowork."
[7] Includes "furniture, cabinetmaking, repairing, and upholstering," and "furniture, factory product."
[8] Includes "cheese, butter, and condensed milk, factory product;" and "cheese and butter, urban dairy product."
[9] Includes "cars and general shop construction, and repairs by street railroad companies;" "cars, steam railroad, not including operations of railroad companies;" and "cars, street railroad, not including operations of railroad companies."
[10] Includes "marble and stone work" and "monuments and tombstones."
[11] Includes "ship and boat building, wood;" and "shipbuilding, iron and steel."

Table 7 shows the amounts and kinds of power used in each state and territory, in the years 1870, 1880, 1890, and 1900.

TABLE 7.—AMOUNT OF EACH KIND OF POWER, BY STATES AND TERRITORIES: 1870 TO 1900.

STATES AND TERRITORIES.	Year.	NUMBER OF ESTABLISHMENTS.		OWNED.										RENTED.		
		Total.	Reporting power.	Total horsepower.	Engines.				Water wheels.		Electric motors.		Other power.		To this establishment.		By this establishment.
					Steam.		Gas or gasoline.								Electric horsepower.	All other horsepower.	
					Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.			
United States	1900	512,254	169,409	11,300,081	156,100	8,742,416	14,884	143,850	39,182	1,727,258	16,923	311,016	2,144	54,490	183,682	137,369	54,012
	1890	355,415	130,736	5,954,655	91,410	4,581,595	(1)	8,930	39,008	1,255,206	(1)	15,569	(1)	4,784	.....	88,571	.....
	1880	253,852	85,923	3,410,837	56,483	2,185,458	.....	.....	55,404	1,225,379	.....	.....	.....	.....	.....	.....	.....
	1870	252,148	(2)	2,346,142	(2)	1,215,711	.....	.....	(2)	1,180,481	.....	.....	.....	.....	.....	.....	.....
Alabama	1900	5,602	3,659	225,146	3,427	199,220	47	485	1,023	21,298	70	3,069	19	255	404	420	317
	1890	2,977	1,634	102,333	1,373	91,583	(1)	14	764	10,382	(1)	51	(1)	20	.....	288	.....
	1880	2,070	1,257	27,576	551	15,779	.....	.....	931	11,797	.....	.....	.....	.....	.....	.....	.....
	1870	2,188	(2)	18,751	(2)	7,740	.....	.....	(2)	11,011	.....	.....	.....	.....	.....	.....	.....
Alaska	1900	63	45	1,962	49	1,078	.....	.....	14	597	11	287	.....	.....	.....	.....	.....
	1890	10	9	451	7	290	.....	.....	3	161	.....	.....	.....	.....	.....	.....	.....
	[2] 1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	[2] 1870	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arizona	1900	314	91	9,110	132	7,688	19	371	10	442	30	496	1	75	38	.....	.....
	1890	76	21	826	16	457	.....	.....	8	329	.....	.....	.....	.....	.....	40	.....
	1880	66	21	530	14	370	.....	.....	8	160	.....	.....	.....	.....	.....	.....	.....
	1870	18	(2)	90	(2)	80	.....	.....	(2)	10	.....	.....	.....	.....	.....	.....	.....
Arkansas	1900	4,794	3,031	120,470	3,221	116,291	44	451	188	2,940	17	279	4	228	211	70	44
	1890	2,073	1,140	38,344	1,172	36,865	(1)	7	119	1,778	(1)	31	(1)	3	.....	160	.....
	1880	1,202	729	15,733	545	13,709	.....	.....	149	2,024	.....	.....	.....	.....	.....	.....	.....
	1870	1,079	(2)	7,646	(2)	6,101	.....	.....	(2)	1,545	.....	.....	.....	.....	.....	.....	.....
California	1900	12,582	3,077	134,366	2,183	105,857	548	3,283	194	5,164	281	6,138	91	1,609	9,699	2,616	1,054
	1890	7,923	1,614	73,324	1,481	64,364	(1)	361	190	5,091	(1)	393	(1)	22	.....	2,593	.....
	1880	5,885	1,000	32,921	779	28,071	.....	.....	205	4,850	.....	.....	.....	.....	.....	.....	.....
	1870	3,984	(2)	25,370	(2)	18,493	.....	.....	(2)	6,877	.....	.....	.....	.....	.....	.....	.....
Colorado	1900	3,570	829	45,150	830	40,299	82	524	64	1,596	40	709	14	483	1,187	352	110
	1890	1,518	399	32,734	457	30,641	(1)	36	47	1,723	(1)	53	.....	.....	.....	276	.....
	1880	599	181	5,802	152	3,953	.....	.....	52	1,849	.....	.....	.....	.....	.....	.....	.....
	1870	256	(2)	2,225	(2)	1,433	.....	.....	(2)	792	.....	.....	.....	.....	.....	.....	.....
Connecticut	1900	9,128	2,874	270,281	2,729	178,708	178	1,712	1,294	71,414	442	8,710	42	495	4,215	5,027	2,156
	1890	6,822	2,185	163,233	1,794	96,178	(1)	215	1,365	63,417	(1)	205	(1)	120	.....	3,098	.....
	1880	4,488	2,028	118,232	1,124	57,027	.....	.....	1,784	61,205	.....	.....	.....	.....	.....	.....	.....
	1870	5,128	(2)	80,374	(2)	25,979	.....	.....	(2)	54,395	.....	.....	.....	.....	.....	.....	.....
Dakota	[3] 1900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	[3] 1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1880	251	79	2,224	65	1,421	.....	.....	36	803	.....	.....	.....	.....	.....	.....	.....
	1870	17	(2)	324	(2)	248	.....	.....	(2)	76	.....	.....	.....	.....	.....	.....	.....
Delaware	1900	1,417	542	42,560	656	33,100	36	335	177	6,326	138	1,277	.....	.....	605	917	154
	1890	1,003	311	26,516	393	21,556	(1)	80	163	4,671	(1)	104	(1)	1	.....	104	.....
	1880	746	317	15,428	254	10,643	.....	.....	232	4,785	.....	.....	.....	.....	.....	.....	.....
	1870	800	(2)	8,533	(2)	4,313	.....	.....	(2)	4,220	.....	.....	.....	.....	.....	.....	.....
Dist. of Columbia	1900	2,669	324	10,509	241	8,630	53	344	5	369	29	248	23	147	100	671	69
	1890	2,295	197	11,444	246	10,422	(1)	91	9	810	(1)	70	.....	.....	.....	51	.....
	1880	972	115	3,143	118	2,263	.....	.....	15	880	.....	.....	.....	.....	.....	.....	.....
	1870	952	(2)	1,859	(2)	739	.....	.....	(2)	1,100	.....	.....	.....	.....	.....	.....	.....
Florida	1900	2,056	816	40,745	1,005	38,267	35	213	91	1,102	8	140	48	861	162	.....	3
	1890	805	368	16,058	460	15,479	(1)	63	45	(1)	3	(1)	4	.....	18	.....	.....
	1880	426	244	7,147	193	6,208	.....	.....	70	939	.....	.....	.....	.....	.....	.....	.....
	1870	659	(2)	3,700	(2)	3,172	.....	.....	(2)	528	.....	.....	.....	.....	.....	.....	.....
Georgia	1900	7,504	4,453	189,706	3,811	144,855	51	431	1,550	40,337	48	1,065	13	493	1,728	297	293
	1890	4,285	2,002	84,221	1,565	55,082	(1)	119	1,121	28,380	(1)	157	(1)	26	.....	457	.....
	1880	3,593	2,074	51,169	799	21,102	.....	.....	1,917	30,067	.....	.....	.....	.....	.....	.....	.....
	1870	3,836	(2)	38,243	(2)	10,826	.....	.....	(2)	27,417	.....	.....	.....	.....	.....	.....	.....
Idaho	1900	591	211	6,502	161	4,506	7	48	72	1,942	.....	.....	.....	.....	6	.....	.....
	1890	140	64	2,001	33	972	.....	.....	32	1,024	(1)	2	(1)	3	.....	.....	.....
	1880	162	67	1,682	22	546	.....	.....	48	1,136	.....	.....	.....	.....	.....	.....	.....
	1870	101	(2)	606	(2)	311	.....	.....	(2)	295	.....	.....	.....	.....	.....	.....	.....
Illinois	1900	38,360	9,193	615,655	7,661	524,555	1,343	9,642	319	13,175	1,840	36,779	128	4,408	12,471	14,625	3,240
	1890	20,482	4,913	286,866	4,967	261,865	(1)	708	446	15,992	(1)	939	(1)	409	.....	6,753	.....
	1880	14,549	3,722	144,288	3,445	126,848	.....	.....	751	17,445	.....	.....	.....	.....	.....	.....	.....
	1870	12,597	(2)	86,044	(2)	73,091	.....	.....	(2)	12,953	.....	.....	.....	.....	.....	.....	.....
Indiana	1900	18,015	6,272	352,789	6,498	314,776	820	12,600	492	15,510	378	5,139	26	290	2,794	1,680	954
	1890	12,354	4,292	190,898	4,523	172,606	(1)	176	698	18,181	(1)	323	(1)	34	.....	1,678	.....
	1880	11,198	4,066	131,770	3,634	109,960	.....	.....	1,143	21,810	.....	.....	.....	.....	.....	.....	.....
	1870	11,847	(2)	100,369	(2)	76,851	.....	.....	(2)	23,518	.....	.....	.....	.....	.....	.....	.....

[1] Not reported separately. [2] Not reported. [3] See North Dakota and South Dakota.

TABLE 7.—AMOUNT OF EACH KIND OF POWER, BY STATES AND TERRITORIES: 1870 TO 1900—Continued.

STATES AND TERRITORIES.	Year.	NUMBER OF ESTABLISHMENTS.		OWNED.											RENTED.		
		Total.	Reporting power.	Total horsepower.	Engines.				Water wheels.		Electric motors.		Other power.		To this establishment.		By this establishment.
					Steam.		Gasorgasoline.								Electric horsepower.	All other horsepower.	
					Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.			
Indian Territory	1900	789	341	12,690	327	12,332	16	55	13	303	.....	.....	.....	.....	.....	.....	.....
	1890	20	11	424	13	349	.....	.....	2	75	.....	.....	.....	.....	.....	.....	.....
	[1]1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	[1]1870	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iowa	1900	14,819	4,528	125,529	3,432	100,606	973	5,326	543	12,159	211	3,609	16	421	2,766	642	538
	1890	7,440	2,051	77,809	1,969	64,697	(2)	70	622	12,618	(2)	194	(2)	40	.....	190	.....
	1880	6,921	1,546	54,221	1,068	33,858	.....	.....	1,093	20,363	.....	.....	.....	.....	.....	.....	.....
	1870	6,566	(1)	39,547	(1)	25,298	.....	.....	(1)	14,249	.....	.....	.....	.....	.....	.....	.....
Kansas	1900	7,830	1,628	74,391	1,427	57,735	387	3,008	231	8,820	105	2,006	53	1,217	1,420	185	15
	1890	4,471	898	43,053	847	34,806	(2)	77	216	7,617	(2)	110	(2)	220	.....	223	.....
	1880	2,803	578	21,079	396	13,468	.....	.....	299	7,611	.....	.....	.....	.....	.....	.....	.....
	1870	1,477	(1)	8,149	(1)	6,360	.....	.....	(1)	1,789	.....	.....	.....	.....	.....	.....	.....
Kentucky	1900	9,560	3,666	165,140	3,661	150,328	141	1,125	572	9,284	114	1,693	12	260	1,732	718	473
	1890	7,745	1,789	82,508	1,896	75,513	(2)	223	337	6,271	(2)	100	(2)	77	.....	324	.....
	1880	5,328	1,767	54,929	1,494	45,917	.....	.....	653	9,012	.....	.....	.....	.....	.....	.....	.....
	1870	5,390	(1)	39,568	(1)	31,928	.....	.....	(1)	7,640	.....	.....	.....	.....	.....	.....	.....
Louisiana	1900	4,350	2,345	217,125	3,982	213,545	77	584	16	383	61	668	21	352	1,401	192	52
	1890	2,613	554	30,184	684	29,439	(2)	213	6	66	(2)	454	(2)	5	.....	7	.....
	1880	1,553	402	11,346	430	11,256	.....	.....	13	90	.....	.....	.....	.....	.....	.....	.....
	1870	2,557	(1)	25,066	(1)	24,924	.....	.....	(1)	142	.....	.....	.....	.....	.....	.....	.....
Maine	1900	6,702	2,377	271,547	1,681	90,751	115	2,405	2,179	167,264	97	2,087	23	226	7,572	1,242	3,698
	1890	5,010	2,022	150,508	965	42,796	(2)	10	2,396	104,602	(2)	191	(2)	39	.....	2,870	.....
	1880	4,481	1,918	100,476	511	20,759	.....	.....	2,887	79,717	.....	.....	.....	.....	.....	.....	.....
	1870	5,550	(1)	79,573	(1)	9,465	.....	.....	(1)	70,108	.....	.....	.....	.....	.....	.....	.....
Maryland	1900	9,879	2,404	141,879	2,308	118,482	339	3,242	551	13,778	229	3,441	8	525	733	1,678	464
	1890	7,485	1,518	73,547	1,287	56,545	(2)	175	583	15,633	(2)	212	(2)	3	.....	979	.....
	1880	6,787	1,532	51,259	914	33,216	.....	.....	1,004	18,043	.....	.....	.....	.....	.....	.....	.....
	1870	5,812	(1)	32,422	(1)	13,961	.....	.....	(1)	18,461	.....	.....	.....	.....	.....	.....	.....
Massachusetts	1900	29,180	8,560	824,104	6,523	579,110	474	4,157	2,342	187,848	823	19,419	116	1,561	13,424	13,585	8,312
	1890	26,923	7,207	517,897	5,084	340,774	(2)	289	2,622	158,932	(2)	2,327	(2)	268	.....	15,307	.....
	1880	14,352	5,173	309,759	3,096	171,397	.....	.....	3,046	138,362	.....	.....	.....	.....	.....	.....	.....
	1870	13,212	(1)	184,356	(1)	78,502	.....	.....	(1)	105,854	.....	.....	.....	.....	.....	.....	.....
Michigan	1900	16,807	5,884	397,122	5,770	332,598	616	6,178	998	42,888	289	7,839	41	1,154	4,344	2,121	1,869
	1890	12,127	4,414	256,608	4,475	214,748	(2)	237	1,218	38,986	(2)	577	(2)	77	.....	1,983	.....
	1880	8,873	3,581	164,747	3,085	130,352	.....	.....	1,746	34,395	.....	.....	.....	.....	.....	.....	.....
	1870	9,455	(1)	105,851	(1)	70,956	.....	.....	(1)	34,895	.....	.....	.....	.....	.....	.....	.....
Minnesota	1900	11,114	3,356	191,201	2,716	152,451	554	4,207	339	26,958	132	2,531	27	287	3,799	973	563
	1890	7,505	1,519	112,817	1,448	83,548	(2)	126	362	27,300	(2)	280	(2)	82	.....	1,481	.....
	1880	3,493	964	53,880	569	25,191	.....	.....	650	28,689	.....	.....	.....	.....	.....	.....	.....
	1870	2,270	(1)	20,139	(1)	7,085	.....	.....	(1)	13,054	.....	.....	.....	.....	.....	.....	.....
Mississippi	1900	4,772	3,224	124,254	3,330	119,770	23	278	239	3,437	16	228	.....	.....	382	159	51
	1890	1,698	985	35,331	926	32,345	(2)	8	252	2,746	(2)	3	(2)	17	.....	212	.....
	1880	1,479	893	18,450	685	15,001	.....	.....	301	3,449	.....	.....	.....	.....	.....	.....	.....
	1870	1,731	(1)	12,472	(1)	10,019	.....	.....	(1)	2,453	.....	.....	.....	.....	.....	.....	.....
Missouri	1900	18,754	5,041	218,372	4,575	191,558	446	3,448	358	6,748	598	7,121	32	574	5,624	3,299	1,684
	1890	14,052	3,032	145,185	3,368	137,595	(2)	457	313	4,755	(2)	618	(2)	163	.....	1,597	.....
	1880	8,592	2,428	80,749	2,128	72,587	.....	.....	537	8,162	.....	.....	.....	.....	.....	.....	.....
	1870	11,871	(1)	55,062	(1)	48,418	.....	.....	(1)	6,644	.....	.....	.....	.....	.....	.....	.....
Montana	1900	1,080	311	46,981	460	29,374	19	85	51	9,965	78	1,988	17	4,310	1,196	63	5
	1890	289	94	2,848	72	2,105	(2)	17	23	666	(2)	43	.....	.....	.....	17	.....
	1880	196	63	1,498	31	544	.....	.....	39	954	.....	.....	.....	.....	.....	.....	.....
	1870	201	(1)	1,617	(1)	822	.....	.....	(1)	795	.....	.....	.....	.....	.....	.....	.....
Nebraska	1900	5,414	1,215	45,756	848	31,916	364	2,020	217	8,943	90	1,532	10	128	866	351	50
	1890	3,014	626	23,479	514	17,021	(2)	58	196	6,128	(2)	49	(2)	49	.....	179	.....
	1880	1,403	262	8,494	126	2,999	.....	.....	245	5,495	.....	.....	.....	.....	.....	.....	.....
	1870	670	(1)	3,311	(1)	1,865	.....	.....	(1)	1,446	.....	.....	.....	.....	.....	.....	.....
Nevada	1900	228	57	1,625	37	656	9	39	23	929	.....	.....	.....	.....	1	.....	.....
	1890	95	20	372	17	318	(2)	48	2	6	.....	.....	.....	.....	.....	.....	.....
	1880	184	26	716	23	608	.....	.....	6	108	.....	.....	.....	.....	.....	.....	.....
	1870	330	(1)	8,545	(1)	6,007	.....	.....	(1)	2,538	.....	.....	.....	.....	.....	.....	.....
New Hampshire	1900	4,671	1,687	211,221	1,091	91,541	57	670	1,418	112,755	65	1,467	16	362	2,004	2,422	927
	1890	3,229	1,351	116,830	729	46,888	(2)	3	1,437	68,842	(2)	42	(2)	100	.....	955	.....
	1880	3,181	1,653	87,750	456	18,595	.....	.....	2,122	69,155	.....	.....	.....	.....	.....	.....	.....
	1870	3,342	(1)	77,078	(1)	8,787	.....	.....	(1)	68,291	.....	.....	.....	.....	.....	.....	.....
New Jersey	1900	15,481	4,433	341,394	4,873	283,393	434	3,543	756	24,959	804	11,731	205	7,656	4,136	5,976	1,938
	1890	9,225	2,734	180,529	3,073	158,718	(2)	135	639	17,543	(2)	487	(2)	84	.....	3,562	.....
	1880	7,128	2,226	99,858	1,619	72,792	.....	.....	1,213	27,066	.....	.....	.....	.....	.....	.....	.....
	1870	6,636	(1)	58,139	(1)	32,307	.....	.....	(1)	25,832	.....	.....	.....	.....	.....	.....	.....
New Mexico	1900	420	111	4,360	94	3,579	11	64	28	559	.....	.....	1	150	8	.....	.....
	1890	127	56	1,825	46	1,492	.....	.....	18	323	.....	.....	.....	.....	.....	10	.....
	1880	144	78	1,359	19	427	.....	.....	69	932	.....	.....	.....	.....	.....	.....	.....
	1870	182	(1)	911	(1)	252	.....	.....	(1)	659	.....	.....	.....	.....	.....	.....	.....

[1] Not reported.

[2] Not reported separately.

TABLE 7.—AMOUNT OF EACH KIND OF POWER, BY STATES AND TERRITORIES: 1870 TO 1900—Continued.

STATES AND TERRITORIES.	Year.	NUMBER OF ESTABLISHMENTS.		OWNED											RENTED.		
		Total.	Reporting power.	Total horsepower.	Engines.				Water wheels.		Electric motors.		Other power.		To this establishment.		By this establishment.
					Steam.		Gas or gasoline.								Electric horsepower.	All other horsepower.	
					Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.			
New York	1900	78,658	19,656	1,181,369	13,980	677,219	1,971	16,810	5,839	368,456	2,324	29,860	390	6,080	48,148	34,796	9,805
	1890	65,840	13,395	776,820	10,372	513,560	(1)	1,990	6,439	231,959	(1)	2,447	(1)	1,141		25,728	
	1880	42,739	11,776	454,143	6,672	234,795			9,752	219,348							
	1870	36,206	(2)	334,363	(2)	126,107			(2)	208,256							
North Carolina	1900	7,226	4,934	203,297	3,520	141,798	74	528	2,624	57,027	70	1,839	23	583	894	628	169
	1890	3,667	2,078	73,345	1,298	41,171	(1)	42	1,903	31,812	(1)	44	(1)	189		87	
	1880	3,802	2,323	45,088	616	15,025			2,370	30,063							
	1870	3,642	(2)	33,152	(2)	6,941			(2)	26,211							
North Dakota	1900	1,130	304	8,392	150	6,680	139	903	20	581	6	44	4	30	127	27	12
	1890	382	98	3,589	87	2,985	(1)	12	16	540	(1)	2	(1)	23		27	
	[3]1880																
	[3]1870																
Ohio	1900	32,398	9,716	850,600	10,911	758,743	1,224	14,593	867	24,219	1,722	33,419	106	2,977	8,783	7,866	5,394
	1890	28,673	7,216	418,783	7,703	382,301	(1)	1,183	1,134	27,342	(1)	1,705	(1)	372		5,880	
	1880	20,699	6,684	261,143	6,215	222,502			2,080	38,641							
	1870	22,773	(2)	174,323	(2)	129,577			(2)	44,746							
Oklahoma	1900	870	229	9,335	206	9,020	35	207	2	21	3	12	1	10		65	
	1890	72	11	161	11	161											
	[2]1880																
	[2]1870																
Oregon	1900	3,088	1,080	63,767	931	38,956	37	215	339	21,588	27	447			2,248	318	122
	1890	1,523	664	32,545	590	22,430	(1)	2	276	9,280	(1)	37	(1)	306		490	
	1880	1,080	443	13,589	176	4,334			373	9,255							
	1870	969	(2)	8,277	(2)	2,471			(2)	5,806							
Pennsylvania	1900	52,185	17,336	1,859,265	20,955	1,611,815	1,687	27,449	4,067	86,223	4,548	85,434	343	9,985	22,454	15,905	6,133
	1890	39,339	12,091	986,789	13,751	894,007	(1)	919	4,671	82,462	(1)	2,162	(1)	312		6,927	
	1880	31,232	10,381	512,408	7,913	402,132			7,075	110,276							
	1870	37,200	(2)	363,918	(2)	221,936			(2)	141,982							
Rhode Island	1900	4,189	1,390	156,550	1,175	115,876	43	427	364	29,035	152	1,926	67	2,595	2,967	3,722	474
	1890	3,377	926	112,949	852	83,477	(1)	18	344	27,197	(1)	295	(1)	51		1,911	
	1880	2,205	608	63,575	476	41,335			386	22,240							
	1870	1,850	(2)	42,027	(2)	23,546			(2)	18,481							
South Carolina	1900	3,762	2,418	146,225	2,198	100,971	31	368	666	35,019	124	5,876	5	370	213	3,408	3
	1890	2,382	1,149	45,681	864	29,043	(1)	97	611	16,399	(1)	8	(1)	60		74	
	1880	2,078	1,259	25,868	509	11,995			1,057	13,873							
	1870	1,584	(2)	14,932	(2)	4,537			(2)	10,395							
South Dakota	1900	1,639	510	12,611	316	9,443	171	1,349	50	1,466	7	134	18	99	108	12	
	1890	499	183	5,555	147	4,456	(1)	32	48	1,052	(1)	3	(1)	12			
	[3]1880																
	[3]1870																
Tennessee	1900	8,016	4,542	169,350	3,594	141,045	74	656	1,559	24,838	46	823	7	38	1,401	549	231
	1890	4,559	2,243	84,379	1,577	68,537	(1)	54	1,152	15,451	(1)	106	(1)	14		217	
	1880	4,326	2,108	51,952	967	33,388			1,382	18,564							
	1870	5,317	(2)	37,981	(2)	18,467			(2)	19,514							
Texas	1900	12,289	5,265	240,133	5,393	231,346	213	1,165	111	3,782	61	916	28	253	2,400	272	520
	1890	5,268	1,983	68,530	2,066	65,391	(1)	157	121	2,633	(1)	166	(1)	59		124	
	1880	2,996	1,334	30,534	1,167	28,026			174	2,508							
	1870	2,399	(2)	13,044	(2)	11,214			(2)	1,830							
Utah	1900	1,400	423	15,010	292	8,039	7	89	142	4,028	34	1,241	1	10	1,588	15	10
	1890	581	178	5,128	106	2,580	(1)	10	101	2,492	(1)	64				32	
	1880	640	243	4,689	55	1,154			214	3,535							
	1870	533	(2)	2,500	(2)	331			(2)	2,169							
Vermont	1900	4,071	1,972	138,095	1,046	45,142	79	1,186	1,709	87,615	24	729	40	265	1,474	1,684	884
	1890	3,031	1,552	98,554	600	23,539	(1)	10	1,810	74,041	(1)	34	(1)	86		844	
	1880	2,874	1,582	63,314	272	11,088			2,138	52,226							
	1870	3,270	(2)	51,322	(2)	6,425			(2)	44,897							
Virginia	1900	8,248	4,233	171,469	2,878	117,267	86	798	2,141	45,583	115	4,816	22	1,215	822	969	272
	1890	5,915	2,502	82,448	1,341	45,406	(1)	78	1,915	36,654	(1)	105	(1)	12		193	
	1880	5,710	2,768	57,174	899	19,710			2,399	37,464							
	1870	5,933	(2)	49,612	(2)	8,410			(2)	41,202							
Washington	1900	3,631	1,219	88,802	1,450	78,066	31	189	165	7,148	36	575	8	72	2,570	182	13
	1890	1,543	578	42,642	644	37,659	(1)	3	111	4,851	(1)	63	(1)	50		16	
	1880	261	70	4,395	61	3,210			46	1,185							
	1870	269	(2)	2,823	(2)	1,411			(2)	1,412							
West Virginia	1900	4,418	2,301	108,566	2,232	95,595	93	1,081	542	10,273	20	427	35	905	27	258	140
	1890	2,376	1,199	55,457	1,043	44,680	(1)	33	565	10,542	(1)	5	(1)	122		75	
	1880	2,375	1,190	37,910	816	28,456			670	9,454							
	1870	2,444	(2)	27,331	(2)	17,136			(2)	10,195							
Wisconsin	1900	16,187	5,199	393,268	5,049	274,355	557	4,922	1,589	99,007	552	10,723	37	423	2,426	1,412	797
	1890	10,417	2,618	178,668	2,406	120,697	(1)	274	1,528	56,744	(1)	295	(1)	109		549	
	1880	7,674	2,154	106,085	1,366	60,729			2,022	45,356							
	1870	7,013	(2)	64,223	(2)	30,509			(2)	33,714							
Wyoming	1900	334	97	4,335	85	3,486	14	42	19	667	8	80	2	53	7		
	1890	190	41	1,829	52	1,608			9	216	(1)	5					
	1880	57	10	755	18	717			2	38							
	1870	32	(2)	344	(2)	310			(2)	34							

[1] Not reported separately. [2] Not reported. [3] See Dakota.

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900.

[Includes 100 cities for 1880, 164 cities for 1890, and 209 cities for 1900. Items omitted for 1880 were not reported separately at that census.]

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Akron, Ohio	1900	431	$24,199,810	1,130	$1,019,025	9,030	$3,971,307	7,299	1,666	65	$1,779,804	$13,474,282	$23,610,099
	1890	350	14,237,429	587	513,009	5,803	2,693,305	5,067	705	31	977,471	6,928,481	12,580,638
Albany, N. Y	1900	1,566	21,328,764	918	1,018,805	12,389	6,111,059	9,734	2,541	114	2,383,917	11,121,501	24,992,021
	1890	1,305	17,270,705	2,080	1,789,079	13,011	6,191,299	10,261	2,616	134	1,909,304	11,773,241	25,531,486
	1880	804	14,684,130	.....	.....	11,785	4,566,424	9,829	1,528	428	.....	12,509,362	21,751,009
Allegheny, Pa	1900	893	50,122,503	2,027	2,098,121	20,804	10,352,502	17,820	2,467	517	5,120,269	29,478,781	54,136,967
	1890	675	22,253,243	1,206	1,165,004	11,857	5,916,525	10,181	1,308	368	1,728,571	14,231,758	26,878,979
	1880	424	8,451,059	.....	.....	6,471	2,652,774	5,549	614	308	.....	8,818,158	13,731,792
Allentown, Pa	1900	491	11,996,971	390	325,762	8,447	3,160,970	5,251	2,574	622	1,310,643	9,846,047	16,947,722
	1890	382	6,977,091	540	402,026	5,293	1,910,882	3,848	1,073	372	532,876	6,102,911	8,876,565
Altoona, Pa	1900	230	8,108,819	380	266,527	8,090	4,619,828	7,458	432	200	350,501	8,376,488	14,250,656
	1890	208	7,955,423	345	243,798	6,216	3,440,298	5,970	174	72	241,121	6,133,222	10,407,019
Amsterdam, N. Y	1900	213	10,119,879	197	223,221	6,769	2,680,359	3,904	2,694	171	584,019	6,424,315	11,502,316
Anderson, Ind	1900	311	5,709,965	239	260,394	4,583	2,368,994	3,886	367	330	418,526	6,204,219	10,941,854
Atlanta, Ga	1900	390	16,046,156	780	851,801	9,856	3,103,989	6,442	2,129	785	1,352,444	8,563,524	13,707,027
	1890	410	9,608,962	727	603,670	7,957	3,206,285	6,541	937	479	987,623	5,914,571	13,074,037
	1880	196	2,468,456	.....	.....	3,680	889,282	2,753	533	394	.....	3,159,267	4,861,727
Auburn, N. Y	1900	316	12,810,363	343	333,495	6,580	2,706,948	4,669	1,709	152	644,549	5,630,925	10,591,109
	1890	268	11,123,238	445	407,691	5,721	2,220,674	4,211	1,389	121	1,339,705	3,783,071	9,634,785
	1880	154	4,[illegible],950	.....	.....	4,518	1,658,826	3,579	752	187	.....	4,052,746	7,719,409
Augusta, Ga	1900	383	8,999,989	262	277,556	7,092	1,806,654	4,341	2,081	670	617,178	6,234,176	10,041,900
	1890	440	7,770,688	580	373,248	5,714	1,689,941	3,545	1,586	583	526,539	5,430,871	9,241,850
	1880	60	2,069,275	.....	.....	1,680	448,825	867	511	302	.....	2,247,665	3,139,029
Aurora, Ill	1900	229	6,304,454	338	311,158	4,647	1,952,025	3,508	982	157	495,077	3,490,279	7,370,029
Austin, Tex	1900	279	825,293	65	47,590	967	471,818	854	91	22	152,199	896,750	1,921,853
Baltimore, Md	1900	6,359	117,062,459	6,267	6,190,269	78,738	29,220,460	50,954	23,710	4,074	14,512,809	87,175,134	161,249,240
	1890	5,265	92,723,677	7,256	6,019,354	76,489	29,895,500	53,626	21,030	1,833	8,771,860	73,770,001	141,723,599
	[1]1880	3,680	38,581,873	.....	.....	56,316	15,113,489	34,080	18,126	4,110	.....	47,966,447	78,397,064
Bangor, Me	1900	315	2,743,648	176	142,561	2,669	1,291,941	2,239	427	3	260,703	2,740,287	5,172,733
Bay City, Mich	1900	376	5,645,525	233	201,312	3,307	1,466,328	3,021	279	7	385,641	3,820,599	7,087,624
	1890	331	9,654,415	493	429,393	4,203	1,576,659	3,815	324	64	518,771	5,043,587	9,069,342
	1880	80	4,285,500	.....	.....	2,238	802,488	2,066	21	151	.....	3,851,553	5,533,621
Bayonne, N. J	1900	225	26,583,058	251	414,099	5,083	2,856,776	4,890	117	76	805,433	34,094,479	39,352,248
Binghamton, N. Y	1900	594	9,295,859	517	490,442	6,106	2,461,084	3,970	2,113	23	1,040,419	6,339,365	12,638,547
	1890	704	9,058,651	1,013	841,978	9,178	3,607,184	6,454	2,521	203	907,357	7,559,007	15,040,152
Birmingham, Ala	1900	283	7,434,654	359	405,424	6,675	2,587,221	5,980	484	211	533,368	6,045,552	12,581,066
	1890	283	4,553,478	367	340,384	3,247	1,663,312	2,993	196	58	545,290	3,508,588	7,634,248
Bloomington, Ill	1900	185	2,465,300	207	147,282	2,030	974,786	1,761	242	27	202,807	2,008,907	3,845,768
	1890	188	2,874,141	328	253,050	2,201	1,007,995	1,974	168	59	223,532	2,025,949	4,081,001
Boston, Mass	1900	7,247	143,311,376	8,840	9,114,118	72,142	39,184,191	52,831	18,584	727	23,652,792	99,557,019	206,081,767
	1890	7,942	118,198,539	12,329	11,217,435	78,476	43,908,437	57,253	20,892	331	21,543,956	105,602,569	210,936,616
	[1]1880	3,664	47,208,384	.....	.....	59,099	24,886,499	39,790	18,070	1,230	.....	81,608,520	130,366,993
Bridgeport, Conn	1900	832	38,066,890	1,163	1,498,768	19,301	9,123,790	13,609	5,446	246	2,564,392	19,133,230	37,883,721
	1890	559	19,786,572	1,015	1,185,810	12,116	6,381,103	9,121	2,804	191	1,442,378	10,428,987	22,274,635
	[1]1880	169	9,736,785	.....	.....	7,473	3,325,935	5,461	1,787	225	.....	4,805,339	10,418,212
Brockton, Mass	1900	428	10,193,688	631	654,785	10,986	6,166,462	8,161	2,754	71	1,189,168	15,980,653	26,384,881
	1890	537	7,772,452	875	853,841	10,317	5,746,324	7,854	2,377	86	1,136,445	11,211,411	21,070,099
Buffalo, N. Y	1900	2,902	103,939,655	4,184	3,680,491	43,422	19,915,817	36,252	6,606	564	9,559,245	73,359,466	122,230,061
	1890	3,565	70,707,145	5,522	4,928,064	45,911	20,567,769	37,468	7,415	1,028	7,489,363	54,120,611	100,052,208
	1880	1,183	26,847,937	.....	.....	18,021	7,442,109	15,083	1,795	1,193	.....	27,552,086	42,937,701
Burlington, Iowa	1900	340	5,235,624	303	203,540	2,598	1,013,993	2,199	312	87	414,819	2,809,536	5,334,196
	1890	223	3,963,986	329	266,764	2,935	1,157,414	2,556	264	115	259,615	3,099,209	5,413,138
Butte, Mont	1900	212	5,683,033	114	121,734	1,379	1,355,236	1,241	115	23	265,989	3,966,492	8,958,782
Cambridge, Mass	1900	782	26,662,751	1,095	1,160,805	12,986	6,785,070	9,894	3,028	64	2,229,106	23,986,638	39,154,913
	1890	1,232	20,331,585	1,677	1,261,850	12,581	6,497,963	9,806	2,741	34	2,370,252	20,268,534	35,975,039
	1880	379	6,480,799	.....	.....	7,543	3,416,470	6,205	1,172	166	.....	20,101,349	26,605,688
Camden, N. J	1900	817	16,433,611	736	715,598	8,941	3,824,434	6,546	2,115	280	1,487,751	11,499,151	20,451,874
	1890	658	15,244,506	918	798,398	9,444	4,759,182	7,165	2,107	172	709,452	11,816,151	21,146,637
	[1]1880	320	5,023,835	.....	.....	4,312	1,615,506	3,285	785	242	.....	4,337,285	7,613,705
Canton, Ohio	1900	502	10,094,813	562	523,561	6,455	2,970,245	5,530	903	22	1,081,809	5,604,399	12,253,427
	1890	420	11,387,406	693	572,112	6,860	3,208,641	5,519	822	19	952,010	4,948,508	11,881,810
Cedar Rapids, Iowa	1900	241	6,256,801	336	286,448	3,105	1,313,821	2,543	442	120	518,455	8,969,992	12,715,897

[1] The difference between the totals stated in the table for 1880 and those published in the reports of the Tenth Census is caused by the elimination of data which was duplicated in the Tenth Census under the head of "Mixed Textiles," such data having been also included in the totals for that census for the different branches of the textile industry.

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Charleston, S. C.	1900	364	$12,473,187	268	$291,148	5,027	$1,489,966	4,017	790	220	$796,573	$5,633,578	$9,562,387
	1890	566	7,345,459	820	546,289	4,684	1,779,789	3,657	932	95	464,172	4,753,396	9,005,421
	1880	194	1,718,300	.....	.....	2,146	689,030	1,788	150	208	.....	1,468,375	2,732,590
Chattanooga, Tenn.	1900	332	8,103,870	486	442,348	5,472	1,889,795	4,899	432	141	778,998	7,322,503	12,033,786
	1890	294	7,405,646	541	500,364	5,200	2,246,523	4,754	263	183	909,518	4,937,902	10,216,109
Chelsea, Mass.	1900	308	8,211,682	342	346,955	3,332	1,625,875	2,421	902	9	678,248	5,764,409	10,333,549
	1890	347	7,028,356	493	499,057	2,977	1,384,945	2,082	879	16	547,110	4,681,291	8,158,207
	1880	155	1,822,250	.....	.....	1,647	677,787	1,122	500	25	.....	2,691,911	3,846,250
Chester, Pa.	1900	315	18,977,710	324	494,821	7,682	3,462,196	5,935	1,451	296	1,222,400	9,261,886	16,421,725
	1890	201	9,397,033	291	296,708	6,559	2,807,341	4,264	1,749	546	608,831	6,844,825	11,864,899
Chicago, Ill.	1900	19,203	534,000,689	35,003	34,374,733	262,621	131,065,337	210,687	44,961	6,973	80,414,823	538,401,562	888,945,311
	1890	9,977	359,739,598	19,745	19,885,079	190,621	104,069,922	164,309	23,760	2,552	43,235,427	409,493,027	664,567,923
	[1]1880	3,518	68,831,885	.....	.....	79,391	34,646,812	62,421	12,173	4,797	.....	179,194,925	248,995,848
Cincinnati, Ohio	1900	5,127	109,582,142	6,657	6,776,141	68,240	27,189,069	46,882	15,314	1,044	22,873,620	77,539,292	157,806,834
	1890	7,832	104,483,032	12,522	10,962,821	84,167	36,728,511	63,563	18,956	1,648	19,937,152	92,545,231	196,063,988
	[1]1880	3,275	50,531,900	.....	.....	54,513	19,553,029	38,993	10,481	5,039	.....	62,374,570	105,255,165
Cleveland, Ohio	1900	2,927	98,303,682	5,410	5,732,145	58,810	27,892,689	49,240	9,074	496	11,565,697	71,597,595	139,849,806
	1890	2,307	69,732,761	4,759	4,847,565	45,915	23,507,940	40,005	4,758	1,152	4,902,256	65,645,649	113,240,115
	1880	1,055	19,430,989	.....	.....	21,724	8,502,935	18,018	2,286	1,420	.....	31,629,737	48,604,050
Clinton, Iowa	1900	224	4,537,200	202	232,612	3,080	1,137,019	2,738	245	97	370,141	4,247,057	6,939,473
Cohoes, N. Y.	1900	316	11,316,482	215	257,138	8,673	3,140,668	4,246	4,049	378	653,130	6,120,342	11,636,130
	1890	212	11,275,137	298	274,027	8,641	2,881,923	3,963	3,986	692	741,435	5,739,987	10,836,260
Columbia, S. C.	1900	92	5,277,306	87	108,021	3,250	759,200	2,140	569	541	330,626	2,474,628	4,243,030
Columbus, Ohio	1900	914	25,392,136	1,759	1,644,304	17,066	7,718,824	14,528	2,269	269	4,014,022	20,194,532	39,666,848
	1890	708	16,178,703	1,368	1,207,892	12,053	5,658,096	10,231	1,632	190	1,715,056	11,183,710	22,837,586
	1880	316	5,379,401	.....	.....	5,490	1,961,394	4,935	289	266	.....	5,534,496	9,646,679
Council Bluffs, Iowa	1900	198	1,176,408	126	110,013	1,179	609,905	1,034	121	24	160,871	1,224,814	2,596,830
	1890	128	1,292,283	145	120,959	1,469	701,723	1,313	117	39	92,886	1,272,946	2,527,388
Covington, Ky.	1900	404	4,754,786	218	215,860	3,972	1,555,089	3,066	760	146	835,445	3,107,926	6,803,032
	1890	1,308	6,897,380	1,491	1,275,756	6,111	2,956,263	5,344	762	5	1,026,579	8,228,079	15,999,575
	1880	181	3,182,141	.....	.....	2,925	1,033,468	2,251	223	451	.....	3,935,727	5,864,530
Dallas, Tex.	1900	373	6,897,015	540	547,271	3,756	1,852,485	2,947	618	191	665,954	6,276,870	11,480,499
	1890	312	5,250,118	528	505,270	3,554	2,015,369	2,891	472	191	595,257	4,354,769	9,054,766
Davenport, Iowa	1900	416	10,774,707	458	455,082	4,348	1,892,737	3,330	859	159	855,397	6,854,677	11,573,670
	1890	475	8,732,122	675	573,507	4,461	1,640,495	3,295	963	203	780,201	6,098,349	10,357,232
	1880	188	2,806,222	.....	.....	1,705	685,469	1,473	82	150	.....	2,960,668	4,468,978
Dayton, Ohio	1900	1,096	28,027,518	1,455	1,570,994	16,869	7,959,792	13,576	3,143	150	3,295,885	16,800,911	35,697,695
	1890	937	13,469,964	1,433	1,163,336	10,614	4,737,383	8,567	1,886	161	1,469,655	11,686,149	22,446,572
	1880	495	6,063,334	.....	.....	6,025	2,293,630	5,071	513	441	.....	6,434,225	11,985,483
Decatur, Ill.	1900	239	3,632,263	268	220,109	2,313	994,659	1,956	340	17	219,713	3,690,802	5,896,492
Denver, Colo.	1900	1,474	30,883,046	1,139	1,243,703	10,926	6,824,003	9,561	1,275	90	2,409,785	24,572,199	41,368,698
	1890	762	16,811,868	1,330	1,723,935	9,283	6,653,585	8,138	998	147	1,340,868	14,216,549	29,240,747
	1880	259	2,301,850	.....	.....	2,944	1,574,438	2,550	264	130	.....	5,715,215	9,367,749
Des Moines, Iowa	1900	494	7,911,764	730	596,750	4,557	1,942,509	3,640	817	100	894,691	4,975,568	10,488,189
	1890	330	3,877,140	515	437,252	3,420	1,631,107	2,876	487	57	442,162	4,408,377	7,931,272
	1880	155	1,463,250	.....	.....	1,378	667,699	1,211	71	96	.....	2,810,396	4,220,709
Detroit, Mich.	1900	2,847	71,751,193	5,448	5,042,299	45,707	18,718,081	33,943	10,469	1,295	10,844,958	52,349,347	100,892,838
	1890	1,746	45,041,167	3,643	3,410,138	34,535	15,490,171	28,722	5,130	683	5,947,307	41,360,058	77,351,546
	1880	919	15,594,479	.....	.....	16,110	6,306,460	12,477	2,430	1,203	.....	18,150,995	30,181,416
Dubuque, Iowa	1900	460	8,117,358	579	455,306	5,503	2,012,153	4,242	1,150	111	1,028,245	5,930,017	10,952,204
	1890	262	7,016,802	459	418,004	4,198	1,715,876	3,688	441	69	564,377	5,984,431	9,894,860
	1880	346	3,446,866	.....	.....	3,003	1,339,730	2,619	292	92	.....	3,837,846	6,328,889
Duluth, Minn.	1900	433	8,872,940	245	245,448	3,998	2,145,444	3,682	275	41	572,266	5,861,499	10,628,957
	1890	278	5,332,447	437	348,116	3,315	1,750,577	3,165	134	16	412,496	5,436,654	8,811,723
Easton, Pa.	1900	285	4,829,879	180	130,082	3,912	1,516,525	2,684	945	283	485,029	3,794,496	6 746,078
East Orange, N. J.	1900	167	2,311,585	161	197,660	1,354	724,495	1,166	187	1	350,162	1,583,435	3,463,141
East St. Louis, Ill.	1900	183	10,466,412	274	290,088	5,642	2,624,749	5,293	111	238	609,809	28,300,150	33,559,611
Elgin, Ill.	1900	209	8,603,283	158	191,584	4,764	2,249,009	2,860	1,787	117	450,773	2,953,582	7,161,637
Elizabeth, N. J.	1900	419	15,665,545	564	731,152	10,497	6,024,497	9,580	856	61	1,351,411	9,882,821	20,546,468
	1890	190	7,785,553	293	376,624	6,268	3,351,348	5,576	515	177	371,214	4,511,626	10,489,364
	1880	149	2,453,180	.....	.....	3,849	1,740,456	3,151	216	482	.....	2,915,851	6,828,027
Elmira, N. Y.	1900	362	7,365,534	315	276,897	4,914	1,965,056	3,504	1,243	167	486,960	4,961,635	8,558,786
	1890	539	6,895,180	889	630,041	4,332	1,874,565	3,564	689	79	538,070	4,593,241	8,844,936
	[1]1880	262	2,653,762	.....	.....	2,673	1,020,196	2,249	306	118	.....	3,114,412	4,857,783

[1] The difference between the totals stated in the table for 1880 and those published in the reports of the Tenth Census is caused by the elimination of data which was duplicated in the Tenth Census under the head of "Mixed Textiles," such data having been also included in the totals for that census for the different branches of the textile industry.

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Erie, Pa	1900	644	$20,418,016	679	$702,343	9,339	$4,574,625	8,389	699	251	$1,197,411	$9,107,305	$19,053,202
	1890	236	12,812,594	566	580,072	6,463	3,248,366	6,016	192	255	718,157	6,145,680	12,765,768
	1880	167	4,730,503	.....	.....	3,767	1,518,085	3,284	207	276	.....	4,879,319	7,683,356
Evansville, Ind	1900	705	10,059,375	601	621,332	7,279	2,883,975	5,489	1,652	138	988,542	7,504,660	14,193,320
	1890	482	9,166,859	620	533,131	6,815	2,664,797	5,223	1,216	376	804,871	6,875,575	12,809,334
	1880	312	4,673,815	.....	.....	3,609	1,356,006	2,915	307	387	.....	4,892,690	7,941,914
Everett, Mass	1900	168	6,107,735	138	153,963	2,141	1,068,987	1,987	151	3	702,785	2,725,197	5,038,120
Fall River, Mass	1900	785	58,549,934	615	918,442	32,780	11,739,129	17,686	13,374	1,720	3,249,083	19,789,859	43,071,530
	1890	397	37,199,470	555	562,677	22,987	8,213,045	12,201	9,560	1,226	2,063,945	17,685,671	32,519,281
	1880	258	25,076,518	.....	.....	17,085	4,659,077	8,232	6,723	2,130	.....	10,552,192	18,913,584
Fitchburg, Mass	1900	308	13,033,898	322	376,675	6,796	3,113,078	4,794	1,757	245	749,165	8,062,713	14,253,522
	1890	323	7,563,522	418	382,733	5,079	2,396,811	3,608	1,267	204	746,602	6,414,105	11,225,036
Fort Wayne, Ind	1900	397	9,203,613	653	631,513	7,255	2,928,969	5,260	1,827	168	730,122	6,597,414	12,525,222
	1890	235	6,999,600	367	294,762	5,644	2,381,554	5,063	537	44	307,999	5,048,585	9,301,946
	1880	114	2,352,101	.....	.....	2,735	1,020,793	2,426	164	145	.....	4,007,955	5,816,924
Fort Worth, Tex	1900	209	2,668,045	131	145,904	1,449	845,477	1,349	82	18	392,377	3,348,550	5,332,804
	1890	316	3,194,032	375	329,075	2,368	1,618,073	2,156	181	31	286,452	3,435,446	6,826,033
Galveston, Tex	1900	295	6,073,345	153	183,996	2,058	981,827	1,593	333	132	477,229	2,618,996	5,016,360
	1890	190	5,122,612	253	279,206	1,679	962,093	1,345	258	76	405,270	3,253,086	5,724,545
	1880	170	871,350	.....	.....	684	499,785	633	15	36	.....	1,283,246	2,375,965
Gloucester, Mass	1900	392	4,687,559	235	199,436	3,379	1,428,896	2,750	629	.....	349,839	4,862,660	7,843,783
	1890	206	2,763,284	156	112,965	1,563	751,581	1,159	402	2	156,668	3,220,601	4,851,405
Grand Rapids, Mich	1900	824	23,433,760	1,197	1,166,472	14,361	5,904,670	12,625	1,613	123	1,950,456	12,348,978	24,824,042
	1890	869	15,945,947	1,413	1,231,132	11,869	5,279,617	10,546	1,039	284	1,289,458	9,391,615	19,851,181
	1880	355	4,864,298	.....	.....	5,172	1,895,072	4,509	295	368	.....	3,956,663	7,405,007
Hamilton, Ohio	1900	222	12,575,821	325	413,632	5,850	2,626,084	5,027	758	65	803,481	5,535,568	12,003,316
Harrisburg, Pa	1900	446	8,749,516	404	391,086	7,362	2,949,544	5,435	1,812	115	646,950	9,402,516	16,064,597
	1890	475	6,716,074	584	420,650	6,314	2,947,291	5,485	789	40	428,757	5,432,303	10,538,444
	1880	274	4,026,457	.....	.....	3,660	1,236,522	3,243	264	153	.....	4,975,276	7,663,416
Hartford, Conn	1900	888	30,600,047	1,267	1,475,519	13,363	7,603,809	11,597	1,698	68	3,375,585	14,103,167	31,145,715
	1890	513	14,126,282	710	695,090	8,311	4,829,428	7,072	1,198	41	886,428	7,964,936	17,164,318
	1880	268	9,679,126	.....	.....	6,300	2,848,041	4,573	1,373	354	.....	6,467,460	11,437,200
Haverhill, Mass	1900	685	6,801,565	501	380,014	10,600	5,035,882	7,270	3,274	56	1,336,232	15,628,972	24,937,073
	1890	734	8,084,272	1,063	835,056	14,138	6,097,574	10,495	3,628	15	1,777,142	13,635,969	25,394,530
Hoboken, N. J	1900	399	8,331,015	420	510,166	6,443	3,076,235	4,698	1,377	368	878,470	5,724,626	12,092,872
	1890	289	3,948,782	365	364,608	2,982	1,899,628	2,500	434	48	228,743	3,585,921	7,151,391
	1880	120	484,020	.....	.....	714	281,444	610	53	51	.....	586,746	1,046,136
Holyoke, Mass	1900	433	26,760,031	628	843,399	13,454	5,730,998	7,705	5,150	599	1,976,024	13,673,969	26,283,964
	1890	493	24,411,939	834	872,988	12,305	5,324,935	6,840	5,013	452	1,683,226	13,574,788	26,060,315
	1880	122	8,763,903	.....	.....	8,794	2,693,142	4,340	3,749	705	.....	7,439,673	13,286,047
Houston, Tex	1900	509	6,955,350	309	339,990	4,588	2,409,250	4,295	230	63	663,426	5,792,571	10,641,575
	1890	210	3,509,434	298	293,850	2,711	1,353,628	2,506	122	83	313,114	3,638,205	6,832,943
Indianapolis, Ind	1900	1,910	36,828,114	2,636	2,445,785	25,511	10,882,914	21,181	4,065	265	5,389,394	42,055,634	68,607,579
	1890	1,189	15,266,685	2,034	1,794,756	16,027	7,060,056	12,600	2,871	556	2,080,733	21,247,116	36,426,974
	1880	688	10,049,500	.....	.....	10,000	3,917,114	8,671	830	499	.....	19,198,102	27,453,089
Jackson, Mich	1900	291	4,617,656	389	362,462	4,206	1,666,680	2,914	1,270	22	480,757	4,223,891	7,587,526
	1890	220	4,979,444	372	286,509	3,258	1,128,657	2,491	703	64	337,634	2,782,640	5,376,347
Jacksonville, Fla	1900	195	2,068,663	119	106,241	1,602	645,921	1,473	97	32	153,295	1,007,924	2,312,209
Jamestown, N. Y	1900	178	8,552,470	386	474,249	4,685	1,800,192	3,201	1,268	216	583,097	4,096,302	8,218,922
Jersey City, N. J	1900	965	80,327,678	1,676	2,095,778	19,499	9,126,042	14,996	4,139	364	6,528,570	52,254,465	77,225,116
	1890	726	18,165,094	1,457	1,564,388	11,412	6,243,882	9,572	1,521	319	1,893,926	23,206,834	37,376,322
	1880	584	11,899,915	.....	.....	11,138	4,622,655	7,962	2,426	750	.....	49,738,985	60,473,905
Johnstown, Pa	1900	248	16,940,450	394	449,133	6,116	3,213,189	5,918	98	100	1,922,080	14,445,126	22,559,890
	1890	113	13,280,296	276	251,932	5,369	2,879,569	5,227	53	89	780,348	13,137,331	18,422,989
Joliet, Ill	1900	455	15,452,196	407	359,105	6,523	3,957,529	6,271	213	39	1,718,339	17,891,836	27,765,104
	1890	271	9,418,932	317	259,046	2,866	1,723,512	2,708	84	74	551,589	8,884,684	12,732,933
Joplin, Mo	1900	123	1,411,495	52	53,808	951	516,080	875	66	10	110,962	1,854,817	2,961,793
Kalamazoo, Mich	1900	268	5,796,195	513	443,407	4,293	1,617,299	2,990	1,267	36	624,914	4,257,010	8,056,903
Kansas City, Kans	1900	492	18,633,475	2,075	1,918,251	10,544	4,886,259	9,384	812	348	2,643,077	70,386,491	82,768,943
	1890	234	11,629,703	478	440,084	6,855	3,667,289	6,404	347	104	3,243,969	34,236,637	44,079,389
Kansas City, Mo	1900	1,797	26,437,307	1,514	1,449,221	15,381	7,783,652	11,814	3,268	299	3,545,069	18,214,198	36,527,392
	1890	1,478	14,104,620	2,146	2,003,370	12,611	7,445,326	11,054	1,408	149	1,901,313	16,361,184	31,936,366
	1880	224	2,147,305	.....	.....	2,548	1,420,713	2,127	233	188	.....	3,723,916	6,332,681
Kingston, N. Y	1900	344	3,657,551	169	158,913	2,685	1,245,557	2,161	503	21	327,143	2,560,822	5,280,478
	1890	198	3,251,885	192	177,000	2,238	929,678	2,000	203	35	323,553	1,730,637	4,009,574

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Knoxville, Tenn	1900	218	$5,151,180	268	$257,387	4,714	$1,473,543	3,096	1,336	282	$306,795	$3,877,772	$6,943,595
	1890	205	3,045,661	367	306,935	2,746	1,355,566	2,512	187	47	261,707	2,464,914	5,020,116
La Crosse, Wis	1900	255	7,230,360	300	310,436	3,009	1,105,985	2,231	733	45	864,006	4,965,850	8,281,749
	1890	200	10,039,872	283	270,363	3,844	1,387,362	3,386	382	76	703,625	5,971,572	9,157,501
Lancaster, Pa	1900	738	10,803,464	427	398,934	9,349	3,323,748	5,585	2,954	810	1,193,997	8,342,709	16,370,281
	1890	599	7,691,314	849	490,345	7,330	2,219,917	4,783	2,032	515	691,291	6,306,495	11,361,535
	1880	313	3,792,740	.....	.....	4,252	1,177,249	2,741	1,044	467	.....	2,942,312	5,404,937
Lawrence, Mass	1900	546	49,914,035	681	1,011,243	22,358	8,972,310	12,998	8,542	818	2,210,145	26,175,644	44,703,278
	1890	583	29,626,806	708	631,329	15,568	6,092,054	8,641	6,455	472	1,958,366	15,145,851	26,550,725
	1880	228	16,098,977	.....	.....	14,372	4,754,755	6,652	6,849	871	.....	11,979,848	21,646,357
Leavenworth, Kans	1900	220	3,207,111	232	211,761	1,750	833,576	1,556	140	54	252,029	2,822,127	4,721,373
Lewiston, Me	1900	282	10,984,871	181	202,483	7,159	2,509,030	3,837	3,164	158	596,854	4,103,801	8,581,354
	1890	214	8,324,231	297	267,282	7,076	2,418,907	3,618	3,276	182	635,894	4,828,710	9,073,356
Lexington, Ky	1900	272	1,707,118	167	117,933	1,464	556,613	1,236	200	28	263,536	1,492,152	3,033,007
	1890	183	1,619,880	266	266,666	1,279	550,026	1,016	244	19	124,915	1,256,739	2,708,445
Lima, Ohio	1900	195	5,487,584	208	166,716	2,223	1,050,780	1,838	384	1	277,408	4,156,028	6,705,136
Lincoln, Nebr	1900	250	2,608,992	244	207,544	1,736	789,356	1,485	233	18	266,160	2,173,345	4,105,951
	1890	182	2,360,454	281	263,743	1,640	898,003	1,460	101	79	269,742	1,534,623	3,710,138
Little Rock, Ark	1900	171	3,434,393	292	249,943	2,751	1,384,722	2,512	191	48	295,156	1,990,081	4,723,118
	1890	124	2,265,324	201	195,505	1,333	635,352	1,236	72	25	254,227	1,396,773	3,120,677
Los Angeles, Cal	1900	1,415	11,742,838	939	840,855	8,044	3,992,733	6,389	1,465	190	1,513,393	10,572,660	21,297,537
	1890	750	6,811,488	1,085	1,121,514	3,872	2,347,094	3,141	682	49	680,897	5,014,034	9,893,885
Louisville, Ky	1900	2,307	49,334,701	2,893	2,929,141	29,926	10,945,720	23,348	5,175	1,403	13,145,595	41,016,391	78,746,390
	1890	1,700	36,086,985	3,039	2,628,403	24,159	9,844,468	18,137	4,885	1,137	6,250,230	28,033,840	54,515,226
	1880	1,105	21,357,013	.....	.....	17,103	5,734,683	13,401	2,675	1,027	.....	20,760,540	34,768,874
Lowell, Mass	1900	981	46,578,193	820	992,781	31,377	11,821,633	17,082	12,986	1,309	4,639,877	21,727,844	44,774,525
	1890	853	41,911,708	1,377	1,198,984	27,778	10,044,408	14,084	13,082	612	4,150,844	22,996,138	42,450,509
	1880	283	20,465,192	.....	.....	20,039	5,996,591	9,218	9,503	1,318	.....	16,315,062	33,935,777
Lynn, Mass	1900	776	17,011,761	1,231	980,868	17,492	8,576,042	12,352	5,035	105	2,270,595	25,456,798	41,633,845
	1890	1,369	17,919,025	2,134	1,744,008	20,318	11,033,166	14,591	5,642	85	2,045,531	23,039,987	44,223,845
	1880	343	5,894,575	.....	.....	12,420	5,833,849	8,894	3,489	37	.....	17,433,455	26,828,023
McKeesport, Pa	1900	180	17,876,016	523	497,822	7,605	4,370,381	7,331	96	178	428,226	22,809,161	37,074,136
	1890	118	10,979,812	214	246,981	6,078	3,189,558	5,832	95	151	737,562	10,617,338	17,432,721
Macon, Ga	1900	182	5,076,005	263	272,138	3,700	1,047,437	2,762	669	269	445,073	3,741,167	6,495,767
	1890	203	3,988,900	260	185,921	3,157	1,057,041	2,451	471	235	219,988	2,664,498	5,171,530
Malden, Mass	1900	242	5,906,279	129	133,575	3,082	1,520,658	1,907	1,132	43	790,518	4,607,400	7,959,292
	1890	295	7,600,124	351	268,757	4,418	2,115,420	2,708	1,655	55	498,174	5,901,817	9,592,501
Manchester, N. H	1900	577	22,426,125	344	456,258	19,032	7,030,966	10,302	8,236	494	1,548,205	14,755,640	26,607,600
	1890	386	22,424,968	468	444,359	14,883	5,505,875	7,267	7,367	249	1,072,875	11,872,289	20,187,295
	1880	121	15,149,153	.....	.....	10,838	3,370,404	4,632	5,748	458	.....	7,901,066	14,136,305
Memphis, Tenn	1900	659	11,189,249	513	625,135	8,433	3,641,435	7,660	586	187	1,078,649	9,656,969	17,923,059
	1890	345	9,357,821	621	616,411	5,497	2,542,264	5,069	337	91	813,951	7,090,190	13,244,538
	1880	138	2,313,975	.....	.....	2,268	845,672	2,130	69	69	.....	2,419,341	4,413,422
Meriden, Conn	1900	260	16,699,004	435	690,756	7,531	3,702,240	6,021	1,435	75	1,085,142	5,861,612	13,485,640
	1890	238	13,712,146	369	488,618	7,301	3,763,984	5,913	1,373	15	1,460,571	4,900,594	11,962,172
Milwaukee, Wis	1900	3,342	110,363,854	4,352	4,481,829	48,328	20,240,656	37,836	7,501	2,991	16,690,165	65,118,719	123,786,449
	1890	2,879	69,145,814	4,573	3,909,456	38,850	16,737,261	30,593	7,478	779	8,285,410	55,815,485	97,503,951
	1880	844	18,766,914	.....	.....	20,886	6,946,105	16,015	3,922	949	.....	28,975,872	43,473,812
Minneapolis, Minn	1900	2,368	57,708,204	2,606	2,428,396	26,608	12,708,523	22,328	4,090	190	5,237,162	78,175,735	110,943,043
	1890	2,723	42,643,764	4,089	3,579,622	23,703	11,674,553	21,012	2,463	228	3,682,928	54,592,210	82,922,974
	1880	401	9,002,650	.....	.....	5,344	2,582,253	4,702	457	185	.....	24,274,623	29,973,476
Mobile, Ala	1900	222	3,294,238	203	173,810	2,827	1,139,605	2,686	83	58	272,987	2,046,400	4,451,062
	1890	261	2,236,318	294	219,083	2,719	950,276	2,472	172	75	226,987	1,814,463	3,326,399
	1880	91	525,708	.....	.....	704	261,643	622	37	45	.....	830,961	1,335,579
Montgomery, Ala	1900	163	2,930,782	204	163,537	2,359	802,188	1,856	360	143	342,890	2,902,054	5,035,190
	1890	138	1,684,271	177	152,836	1,689	634,423	1,526	116	47	140,829	1,753,166	3,234,962
Muncie, Ind	1900	347	7,793,882	227	319,109	6,294	3,067,748	5,703	448	143	506,279	6,690,155	12,106,643
Muskegon, Mich	1900	200	4,602,390	172	153,976	3,235	1,185,697	2,553	560	122	386,488	2,631,279	5,097,059
	1890	301	9,863,819	381	307,696	3,883	1,608,293	3,685	122	76	478,391	4,795,251	8,278,160
Nashua, N. H	1900	251	9,587,390	207	204,657	6,442	2,633,398	4,221	2,134	87	574,497	6,470,716	11,037,676
Nashville, Tenn	1900	489	13,173,422	1,048	888,467	8,447	2,889,241	6,360	1,706	387	1,440,394	10,472,173	18,469,823
	1890	420	9,904,295	847	676,512	7,275	3,052,444	5,773	1,151	351	681,619	7,994,751	14,590,823
	1880	268	3,892,380	.....	.....	4,791	1,312,765	3,815	538	438	.....	5,312,527	8,597,278
New Albany, Ind	1900	208	2,996,512	110	107,676	2,430	843,680	1,796	596	38	231,771	2,364,138	4,179,490
	1890	298	5,342,071	341	262,490	4,165	1,835,341	3,394	631	140	608,026	3,470,492	6,631,924

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Newark, N. J	1900	3,339	$103,191,403	4,509	$5,534,869	49,550	$23,999,442	37,094	11,133	1,323	$10,050,907	$67,105,944	$126,954,049
	1890	2,490	62,552,752	4,129	4,719,636	42,719	22,137,534	33,012	8,966	741	6,112,289	46,020,536	93,476,652
	1880	1,318	25,575,315	.....	.....	29,907	13,115,949	22,143	5,178	2,586	.....	44,534,415	69,051,075
New Bedford, Mass	1900	618	29,073,410	487	566,457	16,409	6,730,793	9,704	5,759	946	1,703,408	12,727,776	25,681,671
	1890	413	20,132,683	610	606,911	10,812	4,378,105	6,766	3,659	387	980,306	8,581,373	17,025,779
	1880	330	7,681,082	.....	.....	5,812	2,058,751	3,915	1,538	359	.....	5,907,874	9,835,955
New Britain, Conn	1900	226	14,115,610	466	545,057	8,488	3,841,117	6,542	1,681	215	956,848	5,074,396	12,260,782
New Brunswick, N. J	1900	193	6,028,086	218	260,992	3,726	1,256,034	2,095	1,442	189	661,944	2,929,882	5,812,757
Newburg, N. Y	1900	253	5,214,536	310	287,839	3,926	1,665,177	2,622	1,223	81	354,456	3,123,590	6,497,088
	1890	287	5,773,354	420	348,319	4,096	1,741,476	2,674	1,270	152	472,773	3,521,078	6,964,287
Newcastle, Pa	1900	216	13,308,220	198	243,689	4,992	3,226,669	4,754	174	64	491,336	13,646,648	21,046,842
New Haven, Conn	1900	1,236	30,463,066	1,600	1,590,241	20,586	10,016,671	15,398	4,884	259	3,181,004	18,493,593	40,762,015
	1890	1,129	19,592,384	1,958	1,910,944	15,906	8,185,876	12,396	3,477	33	2,696,245	14,400,638	33,396,311
	1880	587	9,703,737	.....	.....	15,156	5,761,374	9,998	4,780	378	.....	14,482,163	24,040,225
New Orleans, La	1900	1,524	46,003,604	1,837	1,819,458	19,435	7,645,167	13,582	5,135	718	4,759,877	43,361,525	63,514,505
	1890	1,961	26,319,277	2,879	2,612,472	22,342	8,275,112	15,309	6,558	475	3,295,077	28,271,445	48,295,449
	1880	915	8,565,303	.....	.....	9,504	3,717,557	7,666	1,286	552	.....	10,771,892	18,808,096
Newport, Ky	1900	272	2,848,435	132	142,404	2,561	1,155,361	1,885	639	37	866,620	2,017,773	4,888,169
	1890	1,002	3,471,388	1,072	784,512	3,776	1,692,177	2,735	1,015	26	335,404	3,072,313	6,687,987
	1880	94	1,700,715	.....	.....	1,748	711,019	1,608	35	105	.....	2,526,936	3,996,995
Newton, Mass	1900	297	5,105,196	134	166,646	3,094	1,581,887	2,624	445	25	388,922	3,065,921	6,322,232
	1890	193	4,393,807	234	239,365	2,390	1,168,910	1,686	643	61	243,663	2,175,249	4,335,764
New York, N. Y	1900	39,776	921,876,081	48,011	55,645,464	462,768	245,021,881	326,299	130,691	5,773	163,170,343	709,109,412	1,371,358,468
	1890	37,163	622,982,074	61,684	67,413,562	415,552	236,250,857	300,652	111,210	3,690	78,455,897	538,596,570	1,084,850,236
	1880	16,923	251,223,975	.....	.....	275,920	120,626,680	186,605	76,748	12,567	.....	423,356,534	659,205,230
Norfolk, Va	1900	445	6,425,099	333	266,227	4,334	1,571,229	3,206	1,023	105	5,701,597	5,283,975	9,397,355
	1890	374	3,417,454	557	371,805	2,391	1,016,390	1,923	440	28	265,675	2,542,790	5,100,408
	1880	105	570,276	.....	.....	752	317,528	668	61	23	.....	861,026	1,455,987
Norristown, Pa	1900	210	4,069,449	168	132,100	3,429	1,168,942	1,744	1,458	227	418,854	2,467,861	4,821,745
North Adams, Mass	1900	231	14,563,492	267	472,324	6,796	2,949,010	4,585	1,890	321	836,345	5,410,262	11,682,663
Oakland, Cal	1900	752	6,364,651	347	319,263	4,012	2,129,598	2,928	919	165	620,459	4,277,647	9,174,257
	1890	342	6,629,468	520	521,073	3,918	2,568,934	3,182	449	287	438,010	4,687,699	9,112,778
	1880	72	1,371,457	.....	.....	1,387	759,917	1,369	13	5	.....	2,012,695	3,181,066
Omaha, Nebr	1900	838	34,478,014	1,026	907,155	7,537	3,804,076	6,209	1,238	90	3,864,988	22,211,573	43,168,876
	1890	675	18,319,594	1,191	1,251,752	8,223	4,863,542	7,187	785	251	3,673,516	29,260,102	42,339,321
	1880	154	1,835,800	.....	.....	1,688	726,918	1,466	64	158	.....	2,527,476	4,280,866
Orange, N. J	1900	284	1,937,457	77	79,758	2,712	1,428,284	2,287	391	34	232,632	2,259,135	4,694,335
Oshkosh, Wis	1900	285	8,018,038	278	268,479	4,587	1,762,410	3,629	620	338	616,564	4,742,744	8,781,248
	1890	423	6,461,812	466	306,004	4,917	1,713,022	4,064	733	120	526,149	4,668,843	8,620,626
Oswego, N. Y	1900	207	7,322,907	273	346,689	3,845	1,543,905	2,829	877	139	667,109	4,611,975	8,137,950
	1890	249	6,254,200	448	401,291	2,967	1,102,352	2,175	719	73	684,969	4,604,096	7,482,378
	1880	178	2,511,238	.....	.....	2,007	728,418	1,716	202	89	.....	3,423,882	5,287,966
Passaic, N. J	1900	185	23,279,421	441	654,094	7,102	2,778,278	4,694	2,192	216	1,199,108	7,971,505	14,031,254
Paterson, N. J	1900	995	43,510,481	1,242	1,617,999	30,190	12,812,538	19,242	9,502	1,446	5,059,521	26,882,183	52,287,975
	1890	599	27,603,549	1,034	1,138,357	23,198	10,439,725	14,512	7,818	868	2,143,313	22,480,727	42,263,531
	1880	340	11,613,442	.....	.....	18,755	6,679,437	9,868	6,145	2,742	.....	13,992,233	25,339,300
Pawtucket, R. I	1900	534	22,399,187	552	781,628	12,776	5,230,268	7,464	4,343	969	2,040,261	12,933,104	24,080,328
	1890	371	16,693,984	589	527,050	8,919	3,552,529	5,113	3,292	514	1,051,697	9,415,654	16,303,729
Peoria, Ill	1900	871	27,971,613	767	768,574	8,022	3,901,186	6,945	1,021	56	25,122,825	14,986,348	48,871,596
	1890	556	15,085,862	890	805,796	6,816	3,538,216	5,577	1,101	138	24,475,327	9,996,379	55,535,023
	1880	296	4,160,707	.....	.....	4,067	1,507,666	3,619	313	135	.....	9,556,476	14,228,134
Petersburg, Va	1900	225	3,960,987	251	227,544	4,730	1,043,550	2,729	1,615	386	658,689	3,747,656	6,464,464
	1890	271	3,911,240	417	238,863	5,108	1,128,551	2,979	1,691	438	834,420	4,384,462	7,167,004
	1880	115	1,755,415	.....	.....	4,196	602,749	2,209	1,245	742	.....	3,290,116	4,643,015
Philadelphia, Pa	1900	15,887	476,529,407	19,113	20,154,886	246,445	111,847,076	172,011	61,688	12,746	55,575,685	326,877,441	603,466,526
	1890	18,166	375,249,715	25,617	22,610,848	234,647	113,306,175	169,225	55,626	9,796	39,615,476	311,645,804	577,234,446
	1880	8,481	178,765,206	.....	.....	174,952	61,152,952	109,071	51,459	14,422	.....	190,451,376	309,424,156
Pittsburg, Pa	1900	1,938	193,162,900	5,064	5,457,443	69,977	36,684,563	62,381	5,873	1,723	15,293,017	116,883,174	203,261,251
	1890	1,420	108,368,838	3,475	4,008,666	52,963	29,889,486	47,426	3,405	2,132	7,561,199	69,892,195	126,859,657
	1880	1,112	52,645,010	.....	.....	36,930	17,168,989	32,011	1,681	3,238	.....	42,109,777	75,915,033
Pittsfield, Mass	1900	261	6,084,849	229	255,527	3,863	1,627,790	2,380	1,372	111	548,483	3,616,578	7,135,770
Portland, Me	1900	639	6,991,251	611	519,425	5,699	2,612,817	4,288	1,380	31	759,854	5,566,225	11,440,201
	1890	662	6,887,557	922	746,239	5,338	2,413,893	4,204	1,117	17	585,149	6,286,438	11,371,487
	1880	302	4,243,225	.....	.....	7,129	1,541,997	4,841	1,550	738	.....	6,813,962	9,832,931
Portland, Oreg	1900	1,064	13,331,500	806	844,847	8,572	4,347,876	7,220	1,211	141	1,186,072	13,312,036	23,451,182
	1890	569	16,863,568	1,078	1,372,583	8,653	6,220,337	8,035	522	96	1,220,577	12,807,106	25,427,603

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Poughkeepsie, N. Y	1900	377	$5,688,058	197	$240,593	3,432	$1,583,268	2,701	666	65	$411,495	$3,475,100	$6,826,769
	1890	303	4,850,650	444	341,860	3,328	1,495,796	2,509	688	131	311,022	3,200,593	6,254,132
	1880	140	3,728,700	.....	.....	2,482	761,711	1,766	493	223	.....	2,781,289	4,392,900
Providence, R. I	1900	1,933	83,513,679	2,766	3,239,419	44,978	19,998,362	31,198	12,090	1,690	5,815,066	46,357,180	88,168,897
	1890	1,934	61,133,598	3,137	3,107,509	38,987	17,685,890	26,176	10,906	1,905	5,082,048	39,794,241	77,467,283
	1880	1,205	27,177,006	.....	.....	22,891	9,464,110	16,050	5,125	1,716	.....	22,794,227	42,597,512
Pueblo, Colo	1900	241	12,374,248	320	370,428	4,911	3,044,280	4,756	127	28	577,501	22,589,669	30,795,481
	1890	102	1,278,792	134	139,587	937	629,759	837	72	28	92,792	999,966	2,374,631
Quincy, Ill	1900	421	6,879,846	491	400,233	4,509	1,918,452	3,612	771	126	779,653	4,952,797	9,234,988
	1890	394	6,554,810	533	443,426	4,577	1,986,408	3,775	565	237	648,086	5,701,973	10,395,102
	1880	318	4,078,200	.....	.....	3,326	1,271,995	2,866	151	309	.....	5,089,880	8,103,277
Quincy, Mass	1900	339	2,208,197	126	108,392	2,546	1,378,823	2,264	281	1	253,703	1,300,260	3,948,932
Racine, Wis	1900	252	16,753,215	876	861,900	6,785	2,994,100	5,531	1,076	178	1,004,165	6,253,372	12,502,796
	1890	190	11,533,207	412	408,629	4,460	2,009,869	3,827	500	133	662,448	4,340,308	8,462,359
Reading, Pa	1900	843	27,975,628	1,073	924,551	19,165	7,544,950	14,351	3,786	1,028	5,085,456	19,089,382	36,902,511
	1890	435	14,083,374	755	680,823	12,211	4,780,470	9,779	1,729	703	1,042,366	12,009,332	20,855,165
	1880	329	7,488,256	.....	.....	6,635	2,219,290	5,373	715	547	.....	8,354,310	13,168,595
Richmond, Va	1900	763	20,848,620	1,166	1,266,270	16,692	5,181,659	11,565	4,399	728	6,158,301	13,161,697	28,900,616
	1890	966	16,785,242	1,621	1,438,783	16,891	5,753,863	12,338	4,006	547	3,290,170	14,014,214	27,792,672
	1880	598	6,884,386	.....	.....	14,047	3,006,456	9,218	2,872	1,957	.....	12,141,512	20,790,106
Roanoke, Va	1900	120	2,057,754	205	169,317	2,688	1,178,542	2,570	84	34	122,145	3,730,926	5,709,817
Rochester, N.Y	1900	2,616	49,086,212	3,279	3,292,451	33,408	13,832,122	22,560	9,889	959	9,143,154	32,082,063	69,129,820
	1890	1,892	46,301,058	3,758	3,674,609	28,962	13,144,957	21,231	6,798	933	5,613,852	33,320,398	65,091,156
	1880	734	13,141,870	.....	.....	14,556	5,207,713	9,276	4,027	1,253	.....	16,414,515	26,418,266
Rockford, Ill	1900	450	14,126,834	456	422,547	6,620	2,765,709	5,190	1,200	230	821,352	6,928,941	12,586,116
	1890	246	7,715,069	356	308,607	4,867	2,166,096	3,787	1,001	79	549,317	4,248,001	8,888,904
Sacramento, Cal	1900	275	7,309,013	188	216,504	4,365	2,977,764	3,954	380	31	703,922	6,057,837	11,141,896
	1890	302	5,654,782	324	315,085	4,186	2,652,869	3,436	676	74	439,227	6,033,317	10,424,582
	1880	160	1,672,400	.....	.....	924	547,692	868	10	46	.....	2,911,889	4,093,934
Saginaw, Mich	1900	480	7,558,806	394	371,741	4,866	1,936,558	4,288	547	31	594,269	5,816,237	10,034,499
	1890	335	12,406,823	411	381,512	5,305	2,271,623	4,922	244	139	667,399	6,587,763	11,303,006
St. Joseph, Mo	1900	440	11,068,825	562	516,083	7,429	3,109,647	4,994	2,297	138	1,160,912	25,068,215	31,690,736
	1890	276	5,230,697	447	381,460	4,579	1,970,231	3,135	1,367	77	496,472	7,848,353	11,916,141
	1880	238	1,423,650	.....	.....	2,258	896,762	2,040	94	124	.....	3,210,080	5,143,585
St. Louis, Mo	1900	6,732	162,179,331	9,778	10,994,620	82,672	38,191,076	64,111	15,548	3,013	33,271,804	117,861,443	233,629,733
	1890	6,148	141,872,386	11,140	11,599,896	82,911	41,794,734	66,669	13,816	2,426	17,734,350	122,216,570	229,157,343
	1880	2,924	50,832,885	.....	.....	41,825	17,743,532	33,980	4,761	3,084	.....	75,379,867	114,333,375
St. Paul, Minn	1900	1,591	28,208,389	2,292	2,012,574	17,593	7,669,805	13,391	3,922	280	3,668,047	19,464,570	38,541,030
	1890	1,442	22,501,211	2,279	1,978,846	16,279	8,394,550	13,765	2,332	182	1,740,518	15,867,573	33,035,073
	1880	593	3,738,791	.....	.....	5,230	2,254,340	3,930	1,092	208	.....	5,719,067	10,286,363
Salem, Mass	1900	446	7,450,935	236	214,656	6,424	2,842,678	4,120	2,135	169	464,618	7,159,987	12,257,449
	1890	513	6,250,164	671	472,110	5,127	1,973,966	3,278	1,735	114	424,772	4,738,643	8,522,751
	1880	241	3,978,850	.....	.....	4,181	1,401,592	2,632	1,309	240	.....	7,264,447	9,926,564
Salt Lake City, Utah	1900	432	4,048,906	364	282,418	2,977	1,601,258	2,404	485	88	479,634	2,743,674	6,109,409
	1890	175	3,354,035	301	293,958	1,986	1,205,454	1,633	268	85	291,255	1,966,818	4,624,419
	1880	166	860,415	.....	.....	928	425,537	696	114	118	.....	812,736	1,610,133
San Antonio, Tex	1900	312	4,252,197	209	244,252	3,073	1,755,008	2,781	262	30	654,339	3,284,524	6,821,797
	1890	309	3,004,425	419	417,370	2,022	1,216,936	1,869	132	21	494,744	2,387,984	5,623,612
	1880	71	310,050	.....	.....	361	137,781	300	13	48	.....	328,476	642,412
San Francisco, Cal	1900	4,002	80,103,367	4,041	4,619,033	41,978	22,037,527	31,722	9,321	935	8,826,167	79,492,952	133,069,416
	1890	4,059	74,834,301	6,682	6,388,258	41,764	24,591,116	32,508	8,184	1,072	8,322,483	78,656,470	135,625,754
	1880	2,969	35,358,639	.....	.....	28,407	14,918,834	23,651	3,574	1,182	.....	47,966,677	77,801,949
San Jose, Cal	1900	349	3,534,136	271	185,958	1,802	853,048	1,243	532	27	351,131	2,447,365	4,584,072
Savannah, Ga	1900	155	5,716,491	220	231,377	2,870	1,176,150	2,782	85	3	469,918	3,915,884	6,461,816
	1890	244	5,379,774	341	302,772	2,419	1,059,348	2,296	92	31	484,497	3,297,804	6,319,066
	1880	120	1,102,970	.....	.....	1,130	447,640	996	68	66	.....	2,457,606	3,396,297
Schenectady, N. Y	1900	388	6,517,864	222	204,977	4,431	2,527,352	3,779	607	45	635,955	4,953,662	9,288,387
Scranton, Pa	1900	710	19,954,525	661	791,589	12,669	5,191,522	8,776	2,863	1,030	1,857,881	18,411,022	27,646,418
	1890	177	16,237,271	298	344,178	8,825	3,928,834	7,466	1,019	340	874,621	16,922,753	24,341,745
	1880	216	4,470,681	.....	.....	3,549	1,313,287	2,908	456	185	.....	6,671,479	8,561,850
Seattle, Wash	1900	953	10,131,651	768	684,662	8,480	5,575,253	7,870	543	67	1,479,604	14,211,191	26,373,402
	1890	331	4,758,283	280	321,792	3,768	3,083,731	3,565	198	5	495,061	4,778,384	10,203,007
Sheboygan, Wis	1900	206	7,766,616	202	249,931	5,338	1,678,236	4,684	325	329	678,413	3,995,102	7,469,202
Shenandoah, Pa	1900	78	374,057	13	13,544	210	88,555	186	22	2	96,929	180,224	479,336
Sioux City, Iowa	1900	329	5,691,644	322	295,157	3,104	1,485,066	2,610	438	56	664,486	10,669,672	15,469,702
	1890	196	5,222,626	379	350,849	2,629	1,520,576	2,425	152	52	494,489	10,295,190	14,119,843

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of Materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Somerville, Mass	1900	378	$10,131,596	294	$266,918	4,342	$2,199,491	3,877	425	40	$706,415	$17,346,772	$21,776,511
	1890	404	3,883,859	496	426,942	2,789	1,357,037	2,360	418	11	439,673	4,420,128	7,307,522
	1880	100	1,682,795	.....	.....	1,296	564,508	1,191	84	21	.....	4,608,192	5,852,535
South Bend, Ind	1900	302	18,156,638	539	577,520	8,257	3,409,637	6,926	1,120	211	950,093	7,510,806	14,236,331
	1890	208	11,252,887	338	337,542	5,750	2,504,562	4,688	911	156	538,151	4,607,716	9,812,513
South Omaha, Nebr	1900	139	16,471,329	774	738,429	6,606	3,268,591	6,045	231	330	1,719,920	61,277,486	70,080,941
Spokane, Wash	1900	213	2,678,823	249	227,905	1,779	1,080,618	1,631	146	2	414,526	2,854,463	5,427,540
Springfield, Ill	1900	320	5,030,438	235	195,622	3,871	1,730,891	3,367	469	35	631,823	3,290,207	6,612,286
	1890	374	3,641,415	416	354,851	2,853	1,390,307	2,472	354	27	303,368	3,790,754	6,562,470
	1880	116	1,709,775	.....	.....	1,698	656,258	1,391	75	232	.....	3,156,279	4,123,883
Springfield, Mass	1900	817	17,105,947	953	1,035,696	10,123	5,176,299	7,453	2,536	134	2,067,702	9,194,841	21,207,039
	1890	692	13,199,283	1,091	1,025,258	9,159	4,843,636	6,944	2,138	77	875,334	7,817,534	17,040,692
	1880	434	9,177,250	.....	.....	7,360	2,906,130	4,881	2,138	341	.....	7,726,119	12,891,826
Springfield, Mo	1900	245	2,111,048	121	99,110	2,127	1,017,345	1,956	145	26	154,290	2,274,705	4,126,871
	1890	277	1,454,613	126	92,793	1,296	584,353	1,076	157	63	270,601	1,657,877	3,062,095
Springfield, Ohio	1900	305	14,091,175	1,313	1,113,310	6,638	3,160,119	6,119	496	23	1,286,798	5,569,261	12,777,173
	1890	372	14,567,931	592	532,769	6,101	2,662,672	5,860	209	32	1,046,292	4,752,062	10,760,965
	1880	170	7,255,953	.....	.....	3,970	1,637,212	3,741	47	182	.....	4,550,569	8,462,443
Superior, Wis	1900	185	5,882,562	148	168,714	1,958	925,776	1,786	140	32	378,667	5,396,730	7,527,703
Syracuse, N. Y	1900	1,383	31,358,055	1,431	1,424,279	14,917	6,735,177	11,880	2,779	258	3,428,671	14,771,128	31,948,055
	1890	1,246	22,853,424	1,948	1,787,667	15,570	6,733,010	12,270	3,109	191	2,689,781	14,104,504	29,297,241
	1880	724	8,186,818	.....	.....	10,966	3,042,135	7,513	2,871	582	.....	8,544,436	14,695,674
Tacoma, Wash	1900	381	8,146,691	293	326,340	4,347	2,356,028	4,104	203	40	461,017	7,389,166	12,029,497
	1890	225	7,227,201	409	557,585	3,658	2,723,235	3,519	93	46	464,674	5,171,658	10,432,955
Taunton, Mass	1900	284	11,737,399	330	430,818	7,102	3,331,680	5,235	1,541	326	908,180	5,993,237	12,594,814
	1890	316	7,891,382	318	304,079	6,148	2,837,194	4,603	1,481	64	707,629	4,799,287	9,936,829
	1880	148	4,086,134	.....	.....	5,154	2,083,185	3,585	898	671	.....	4,272,451	7,618,953
Terre Haute, Ind	1900	429	8,938,107	353	351,127	5,427	2,298,585	4,344	1,067	16	15,358,415	8,029,285	27,784,619
	1890	367	4,965,184	485	364,559	4,720	1,789,442	3,762	764	194	3,903,928	6,785,616	13,720,529
	1880	224	2,566,750	.....	.....	3,376	1,406,352	3,090	144	142	.....	6,743,719	9,185,246
Toledo, Ohio	1900	1,050	25,591,916	1,278	1,224,281	15,383	6,845,687	12,717	2,404	262	3,068,389	21,986,798	37,372,355
	1890	734	12,700,372	1,066	881,121	9,247	4,333,322	7,665	1,343	239	1,246,042	12,189,924	21,651,574
	1880	440	5,534,285	.....	.....	6,738	2,260,456	5,028	1,020	690	.....	6,355,399	10,600,074
Topeka, Kans	1900	399	3,891,530	319	232,602	3,758	2,110,721	3,443	291	24	417,231	6,023,934	9,977,605
	1890	371	3,282,899	346	275,580	3,044	1,579,358	2,722	256	66	276,038	3,670,106	6,752,449
Trenton, N. J	1900	570	26,174,895	839	996,482	14,457	6,791,026	11,641	2,484	332	2,057,474	18,057,504	31,645,695
	1890	885	19,278,041	1,221	1,134,490	13,763	6,834,404	10,809	2,601	353	1,319,216	12,625,400	25,628,223
	1880	404	6,966,830	.....	.....	8,902	3,150,119	6,691	1,084	1,127	.....	7,421,399	12,712,762
Troy, N. Y	1900	662	23,531,622	917	1,045,237	21,564	8,571,923	7,852	13,457	255	2,350,664	11,291,740	28,209,259
	1890	840	24,030,753	1,256	1,253,182	23,901	8,291,580	9,888	13,815	198	2,837,802	13,150,156	29,248,750
	1880	513	13,413,853	.....	.....	22,431	6,744,144	10,337	11,114	980	.....	13,442,219	26,492,363
Utica, N. Y	1900	733	19,289,502	883	792,574	10,759	4,148,415	6,874	3,272	613	2,133,972	9,405,370	19,550,850
	1890	565	14,332,510	971	908,097	11,627	3,418,614	5,479	5,779	369	992,294	7,790,766	15,615,715
	1880	317	5,905,635	.....	.....	6,710	1,917,657	3,752	2,620	338	.....	5,180,598	8,873,306
Waco, Tex	1900	166	2,096,741	106	108,306	1,227	469,129	913	256	58	222,681	1,477,642	2,693,907
Waltham, Mass	1900	275	9,152,169	198	264,588	5,392	2,630,929	3,263	2,095	34	671,780	2,317,792	6,934,381
Warwick, R. I	1900	104	8,418,333	69	116,239	5,544	1,858,462	3,233	1,761	550	330,774	2,522,789	6,197,506
Washington, D. C	1900	2,754	41,981,245	2,083	1,833,437	24,693	14,643,714	20,415	4,162	116	4,433,652	19,369,571	47,667,622
	1890	2,295	28,865,089	2,998	2,358,122	20,406	12,264,142	17,114	3,159	133	1,589,114	17,194,667	39,331,437
	1880	971	5,552,526	.....	.....	7,146	3,924,612	5,496	1,389	261	.....	5,365,400	11,882,316
Waterbury, Conn	1900	404	23,421,640	699	1,005,814	14,914	7,564,198	10,779	3,787	348	1,664,050	19,821,401	33,778,905
	1890	219	17,682,500	514	623,786	9,840	4,984,868	6,984	2,617	239	1,155,304	8,715,921	17,712,829
Watertown, N. Y	1900	289	8,281,845	247	279,900	3,760	1,821,477	3,230	512	18	455,916	4,152,344	7,881,977
West Hoboken, N. J	1900	177	4,042,373	173	152,147	3,028	1,248,244	1,479	1,475	74	677,713	2,829,789	5,491,760
Wheeling, W. Va	1900	406	13,224,577	465	439,582	7,219	3,096,730	5,302	1,775	142	1,954,205	9,076,978	16,747,544
	1890	418	8,494,630	743	566,565	6,107	2,471,162	4,503	1,099	505	1,205,931	7,381,940	13,022,589
	1880	227	4,868,288	.....	.....	5,512	2,192,255	4,658	196	658	.....	5,203,931	9,259,844
Wichita, Kans	1900	328	2,108,524	144	110,935	1,505	639,271	1,284	200	21	176,146	3,060,661	4,724,068
	1890	144	3,062,696	241	233,937	1,445	673,994	1,203	172	70	304,458	3,380,478	5,074,913
Wilkesbarre, Pa	1900	438	10,501,537	340	406,823	5,977	2,286,676	3,727	1,780	470	1,142,358	5,167,777	10,758,348
	1890	270	5,598,139	264	250,752	4,141	1,808,226	2,969	1,031	141	578,640	4,026,579	7,746,371
	1880	89	1,146,500	.....	.....	645	223,399	613	17	15	.....	660,649	1,133,344
Williamsport, Pa	1900	396	9,863,811	397	352,348	5,595	2,065,930	3,679	1,614	302	517,059	6,420,337	11,199,600
	1890	302	12,835,423	460	406,048	5,653	2,271,531	4,688	871	94	626,646	5,919,284	11,107,037

TABLE 8.—COMPARATIVE SUMMARY FOR THE PRINCIPAL CITIES SHOWN SEPARATELY FOR 1880, 1890, AND 1900—Continued.

CITIES.	Year.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
						Total.		Average number.					
				Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Wilmington, Del	1900	759	$28,372,043	1,051	$1,138,361	16,055	$7,439,210	13,725	1,835	495	$1,658,908	$19,451,815	$34,053,324
	1890	590	20,585,646	1,007	956,281	13,370	6,707,867	11,827	960	583	1,131,648	13,050,152	24,568,125
	1880	258	10,744,389	.....	.....	7,852	3,174,821	6,871	459	522	.....	7,884,847	13,205,370
Wilmington, N. C	1900	131	2,968,199	120	103,178	1,850	568,250	1,495	260	95	158,723	1,734,054	2,960,028
	1890	121	1,752,667	141	89,260	1,358	460,608	1,178	106	74	105,571	1,014,384	1,904,147
Woonsocket, R. I	1900	242	14,279,361	166	258,715	8,093	3,080,280	4,972	2,635	486	589,795	7,563,204	15,627,539
	1890	201	10,096,619	227	220,388	6,190	2,141,229	3,227	2,487	476	393,282	5,532,286	9,613,264
Worcester, Mass	1900	1,071	42,966,743	1,430	1,791,000	25,593	12,894,784	20,421	4,589	583	4,258,926	26,666,176	53,348,783
	1890	996	25,230,620	1,485	1,573,707	20,244	10,120,414	16,383	3,646	215	1,827,815	21,208,904	39,533,869
	1880	638	11,247,104	.....	.....	16,248	6,792,382	13,498	2,366	384	.....	16,274,319	26,712,093
Yonkers, N. Y	1900	387	13,097,205	329	453,426	8,615	3,888,892	5,564	2,782	269	1,059,522	10,555,218	19,580,324
	1890	628	10,989,789	860	803,168	10,443	5,073,977	6,668	3,168	607	819,340	10,995,699	21,319,017
York, Pa	1900	464	9,640,784	404	438,281	7,785	2,679,175	5,802	1,501	482	798,453	6,078,070	11,961,706
	1890	350	3,842,453	451	289,038	3,669	1,320,418	2,883	656	130	358,635	3,170,840	5,968,223
Youngstown, Ohio	1900	260	22,360,097	434	492,823	9,150	4,951,460	8,905	226	19	968,636	23,541,769	34,801,101
	1890	245	7,542,742	357	311,707	5,486	3,295,952	5,158	222	106	462,785	9,380,929	14,667,260
Zanesville, Ohio	1900	293	5,162,067	424	319,864	4,603	1,786,005	3,590	1,000	13	365,338	3,756,489	7,468,839
	1890	301	4,200,409	299	235,343	3,388	1,325,590	2,727	601	60	393,616	3,331,626	6,053,484

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Total	307,488	$7,771,225,987	339,330	$353,864,977	4,250,305	$1,930,450,703	3,210,366	914,954	124,985	$920,203,268	$5,856,880,318	$10,541,767,614
Aberdeen, Miss	32	179,625	9	5,520	194	40,229	177	16	1	10,765	110,914	228,278
Abilene, Kans	70	232,181	59	20,320	192	63,251	161	24	7	26,587	365,596	534,619
Abington, Mass	67	758,395	56	52,962	1,568	713,181	1,109	349	110	56,423	1,712,764	2,684,641
Adams, Mass	107	6,646,981	56	125,874	3,315	1,234,459	1,907	1,252	156	251,319	1,839,969	4,189,239
Adrian, Mich	166	1,756,050	196	129,328	1,151	499,879	974	166	11	164,186	1,041,707	2,424,678
Akron, Ohio	431	24,199,310	1,130	1,019,025	9,030	3,971,307	7,299	1,666	65	1,779,804	13,474,282	23,610,099
Albany, N. Y	1,566	21,328,764	918	1,016,805	12,889	6,111,059	9,754	2,541	114	2,383,917	11,121,501	24,992,021
Albert Lea, Minn	83	466,426	21	14,363	336	146,104	282	51	3	28,777	402,032	750,100
Albion, Mich	61	1,420,593	85	67,447	520	221,913	491	26	3	118,988	503,879	1,080,426
Albion, N. Y	58	352,261	8	5,865	235	87,245	198	33	4	14,802	203,695	405,774
Albuquerque, N. Mex	102	793,644	28	22,080	926	497,268	894	32	.....	70,476	953,597	1,879,413
Alexandria, Ind	95	3,062,182	40	86,719	1,903	993,815	1,700	84	119	139,082	1,237,069	2,929,596
Alexandria, Va	172	1,779,334	104	79,728	1,065	443,024	947	99	19	282,115	788,671	1,890,383
Allegan, Mich	54	193,453	9	5,168	184	65,371	161	23	.....	15,195	218,375	363,278
Allegheny, Pa	893	50,122,503	2,027	2,098,121	20,804	10,352,502	17,820	2,467	517	5,120,269	29,478,781	54,136,967
Allentown, Pa	491	11,996,971	390	325,762	8,447	3,150,970	5,251	2,574	622	1,310,643	9,846,047	16,947,722
Alliance, Ohio	146	5,804,953	136	120,703	1,749	784,989	1,614	123	12	160,343	1,906,204	3,730,144
Alpena, Mich	98	2,585,476	60	48,351	1,004	420,334	935	52	17	126,462	1,476,613	2,445,896
Alton, Ill	160	2,967,168	124	112,198	2,360	1,127,545	1,996	125	239	258,922	2,654,463	4,633,035
Altoona, Pa	280	8,108,819	380	266,527	8,090	4,619,828	7,458	432	200	350,501	8,376,488	14,250,656
Americus, Ga	47	393,736	31	25,320	544	202,533	524	14	6	27,356	313,395	664,706
Amesbury, Mass	152	2,949,565	75	68,212	2,347	1,027,222	1,662	621	64	227,659	2,090,449	3,898,251
Amherst, Mass	67	559,085	22	21,560	525	258,906	320	204	1	73,716	716,093	1,316,143
Amsterdam, N. Y	213	10,119,879	197	223,221	6,769	2,680,359	3,904	2,694	171	584,019	6,424,315	11,502,316
Anaconda, Mont	57	17,135,601	95	185,215	2,484	2,198,005	2,455	18	11	323,291	12,098,075	21,334,952
Anderson, Ind	311	5,709,965	269	260,394	4,583	2,363,994	3,886	367	330	418,526	6,204,219	10,941,854
Anderson, S. C	52	1,280,111	26	22,325	910	166,313	471	184	255	58,753	637,879	1,127,483
Andover, Mass	57	2,096,294	48	53,602	1,103	436,212	683	341	79	110,106	1,073,222	1,888,329
Angola, Ind	38	201,548	8	4,372	141	47,300	129	9	3	12,309	268,280	420,937
Annapolis, Md	91	188,195	12	7,120	244	101,608	212	27	5	9,797	170,043	393,086
Ann Arbor, Mich	231	1,394,694	88	56,297	1,187	462,181	941	239	7	209,967	1,238,260	2,340,138
Anniston, Ala	59	2,396,273	64	64,566	1,997	649,983	1,593	242	162	134,530	1,414,873	2,594,758
Anoka, Minn	47	620,833	11	11,873	291	123,908	254	37	.....	56,246	1,451,288	1,847,812
Ansonia, Conn	94	6,309,281	190	202,296	3,407	1,769,361	2,886	515	6	348,682	15,051,022	18,736,179
Antigo, Wis	65	469,185	16	14,746	373	147,591	352	15	6	42,760	385,939	728,755
Appleton, Wis	240	4,975,397	122	139,400	2,226	951,147	1,783	390	53	304,724	3,251,621	5,330,669
Argentine, Kans	45	10,753,128	42	20,739	741	436,226	734	5	2	118,218	15,016,721	20,337,170
Arkansas City, Kans	74	677,649	39	30,474	319	151,963	289	20	10	68,277	725,361	1,078,555
Arlington, Mass	90	406,128	20	13,922	323	197,099	292	27	4	53,915	268,934	681,010
Asheville, N. C	135	1,405,923	66	48,647	1,136	354,511	838	216	82	59,362	1,065,023	1,866,109
Ashland, Ky	82	2,980,975	72	82,346	1,620	575,152	1,556	14	50	169,151	3,046,856	4,595,809
Ashland, Pa	54	307,871	7	3,525	168	85,640	156	11	1	9,779	132,909	274,765
Ashland, Wis	129	6,017,653	72	81,903	1,830	875,715	1,776	50	4	300,286	1,929,656	4,157,718
Aspen, Colo	53	104,675	3	1,073	68	41,939	54	14	.....	12,663	87,084	206,447
Ashtabula, Ohio	90	764,127	48	35,763	440	188,562	390	49	1	67,950	575,249	997,848
Astoria, Oreg	81	3,145,983	67	77,892	841	419,201	779	57	5	187,231	1,530,436	2,528,370
Atchison, Kans	111	1,139,313	53	39,738	881	415,816	724	146	11	97,926	1,699,953	2,600,459
Athens, Ga	69	801,744	37	21,631	844	175,183	466	230	148	42,030	553,201	950,234
Athens, N. Y	16	236,610	5	5,120	256	101,207	170	76	10	3,845	178,777	354,540
Athens, Ohio	39	306,682	30	17,554	215	95,865	192	18	5	27,671	158,314	366,052
Athens, Pa	51	843,719	38	29,107	589	220,250	517	48	24	54,356	618,956	1,012,183
Athol, Mass	129	1,722,593	104	95,398	1,455	668,445	1,016	421	18	119,906	1,307,815	2,549,704
Atlanta, Ga	390	16,045,156	780	851,801	9,356	3,103,989	6,442	2,129	785	1,352,444	8,563,524	16,707,027
Attica, Ind	46	389,945	56	36,604	313	94,550	200	113	.....	416,719	250,291	955,478
Attleboro, Mass	179	5,833,100	278	287,177	5,106	2,354,880	3,570	1,472	64	359,736	4,106,820	9,442,752
Auburn, Ind	59	620,612	50	50,435	470	198,080	444	25	1	37,988	655,775	1,152,250
Auburn, Me	147	3,372,694	205	173,186	2,908	1,262,010	1,985	880	43	257,089	4,144,815	6,326,851
Auburn, N. Y	316	12,810,368	343	333,495	6,530	2,706,948	4,669	1,709	152	644,549	5,630,925	10,591,109
Augusta, Ga	383	8,990,989	262	277,556	7,092	1,806,654	4,341	2,081	670	617,178	6,234,176	10,641,900
Augusta, Me	171	3,488,474	102	117,290	2,227	798,638	1,242	910	75	666,785	1,459,662	3,822,679
Aurora, Ill	229	6,304,454	338	311,158	4,647	1,952,025	3,508	982	157	465,077	3,490,279	7,370,029
Aurora, Ind	59	515,494	39	31,755	515	172,542	427	81	7	32,920	481,483	877,139
Au Sable, Mich	6	9,380	2	2,700	38	17,700	35	3	.....	621	25,644	57,725
Austin, Minn	69	469,671	19	13,293	265	107,206	215	48	2	26,065	474,286	757,455
Austin, Tex	279	825,293	60	47,590	967	471,818	854	91	22	152,199	896,750	1,921,853
Baker City, Oreg	79	482,181	6	5,000	345	218,433	315	26	4	55,598	398,986	944,872
Baldwinsville, N. Y	55	821,470	33	31,944	349	163,976	285	60	4	69,891	628,762	1,085,262
Ballston Spa, N. Y	62	3,415,471	22	51,612	992	439,183	973	17	2	87,250	2,107,160	3,075,836
Baltimore, Md	6,359	117,062,459	6,267	6,190,269	78,738	29,220,460	50,954	23,710	4,074	14,512,809	87,175,134	161,249,240
Bangor, Me	315	2,743,648	176	142,561	2,609	1,291,941	2,239	427	3	260,703	2,740,287	5,172,733
Bangor, Pa	73	804,517	70	44,700	944	348,687	810	101	33	110,955	552,647	1,230,350
Baraboo, Wis	75	371,969	21	15,432	405	178,509	324	80	1	43,109	346,458	695,731
Barberton, Ohio	27	3,366,386	65	96,428	1,115	461,082	931	174	10	323,720	1,804,453	3,256,844
Barnesville, Ga	16	528,408	23	21,570	572	117,703	262	195	115	23,162	596,399	1,024,949
Barnesville, Ohio	56	503,124	31	22,276	418	183,033	308	103	7	37,903	358,674	657,060

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Barre, Vt	239	$1,343,544	55	$47,724	2,123	$1,315,790	2,089	31	3	$215,116	$993,625	$3,242,274
Batavia, Ill	37	2,020,528	89	91,470	838	364,812	779	59	.....	79,459	1,091,220	1,868,989
Batavia, N. Y	126	3,532,968	192	168,354	1,773	753,494	1,400	369	4	219,002	1,425,436	2,993,297
Bath, Me	142	3,256,726	89	87,551	2,249	1,191,092	2,147	99	3	179,255	2,126,388	4,036,815
Battle Creek, Mich	177	7,354,492	448	409,557	2,328	1,079,934	1,958	363	7	1,467,100	2,351,015	6,753,208
Baton Rouge, La	27	778,570	40	31,782	302	110,855	300	1	1	95,917	406,538	748,401
Bay City, Mich	376	5,645,525	233	201,312	3,307	1,466,328	3,021	279	7	385,641	3,820,599	7,087,624
Bayonne, N. J	225	26,588,058	251	414,099	5,083	2,856,776	4,890	117	76	805,433	34,094,479	39,352,248
Beatrice, Nebr	79	594,679	45	31,819	436	172,330	374	45	17	31,192	436,314	789,228
Beaufort, S. C	18	34,331	1	900	29	6,833	27	.....	2	2,146	21,894	46,981
Beaumont, Tex	51	3,113,766	58	83,788	954	439,078	943	8	3	71,167	1,184,094	2,014,501
Beaverdam, Wis	57	1,181,842	28	35,600	707	215,526	515	161	31	60,237	529,527	1,002,255
Beaver Falls, Pa	119	6,367,196	134	161,828	2,231	1,022,075	1,951	174	106	303,189	3,780,051	6,245,501
Bedford, Ind	55	438,793	13	13,503	315	154,771	292	21	2	28,382	275,609	566,185
Belfast, Me	79	517,055	24	17,721	679	251,639	392	281	6	36,035	540,314	964,738
Bellaire, Ohio	94	3,612,811	88	114,520	2,141	923,305	1,838	243	60	250,403	6,129,193	9,150,462
Bellefontaine, Ohio	104	620,585	50	35,578	713	311,942	648	52	13	44,706	662,703	1,189,201
Bellefonte, Pa	62	874,076	44	38,011	506	219,770	459	45	2	46,731	652,436	1,175,668
Belle Plaine, Iowa	41	89,742	4	2,787	135	58,338	126	6	3	8,819	122,413	232,581
Belleville, Ill	260	2,573,648	130	118,634	1,800	832,610	1,594	92	114	916,492	1,293,228	3,766,988
Bellevue, Ky	30	73,463	3	1,686	79	27,839	51	26	2	20,047	61,619	149,558
Bellevue, Ohio	38	661,742	34	37,286	301	125,986	278	10	13	25,057	539,671	834,880
Beloit, Wis	103	2,593,589	119	130,178	2,055	981,217	1,878	170	7	135,927	1,543,086	3,185,080
Belton, Tex	53	309,003	9	6,593	189	74,462	168	20	1	16,963	279,922	467,504
Belvidere, Ill	106	1,695,879	87	91,685	1,147	636,482	1,070	73	4	118,168	928,730	2,036,734
Bennington, Vt	82	3,129,196	88	101,805	1,855	701,030	994	840	21	161,755	1,443,830	2,805,608
Benton Harbor, Mich.	89	1,215,244	58	47,550	700	247,166	587	101	12	65,208	737,546	1,269,243
Benwood, W. Va	16	4,727,266	77	72,379	2,995	1,388,601	2,874	2	119	141,352	6,572,629	11,142,268
Berkley, Va	48	1,740,919	56	64,301	1,186	485,434	1,021	159	6	117,420	1,482,572	2,391,048
Berlin, Conn	30	1,915,065	61	110,094	996	500,530	902	92	2	70,972	1,242,414	2,222,134
Berlin, N. H	69	7,572,021	71	93,295	2,705	1,061,795	2,430	260	15	406,907	3,281,365	6,314,496
Berlin, Wis	65	458,021	35	23,570	376	134,514	245	124	7	32,112	412,259	736,247
Berwick, Pa	33	2,446,463	53	61,882	1,335	730,505	1,292	35	8	111,067	2,808,813	4,372,953
Bessemer, Ala	42	3,620,082	49	57,639	1,669	605,741	1,652	4	13	317,590	2,206,654	3,561,549
Bessemer, Mich	27	87,975	8	9,000	43	23,992	40	2	1	6,552	70,659	141,466
Bethel, Conn	47	437,800	43	47,370	780	383,252	533	244	3	70,204	592,921	1,229,651
Bethlehem, Pa	106	1,871,072	44	46,480	1,265	326,954	631	439	195	240,028	995,368	1,832,219
Beverly, Mass	227	2,552,955	116	75,073	2,810	1,390,066	2,097	667	46	215,536	2,546,186	4,933,752
Biddeford, Me	108	6,067,194	44	75,545	4,527	1,554,146	2,404	1,927	196	519,361	3,098,244	5,769,844
Big Rapids, Mich	59	554,666	22	17,848	454	180,285	429	24	1	32,699	401,545	761,634
Biloxi, Miss	39	417,902	17	11,300	593	136,441	225	245	123	32,022	605,663	949,031
Binghamton, N. Y	594	9,295,859	517	490,442	6,106	2,461,084	3,970	2,113	23	1,040,419	6,339,365	12,638,547
Birdsboro, Pa	26	1,095,356	24	47,226	861	335,450	759	58	44	58,240	1,321,574	2,026,928
Birmingham, Ala	283	7,434,654	359	405,424	6,675	2,587,221	5,980	484	211	533,368	6,045,552	12,581,066
Blackstone, Mass	23	5,023,339	51	82,687	1,742	776,201	1,243	421	78	86,602	2,850,300	6,593,641
Bloomfield, N. J	150	3,354,149	148	224,014	1,840	899,298	1,401	372	67	256,025	1,895,655	3,860,796
Bloomington, Ill	185	2,465,300	207	147,282	2,030	974,786	1,761	242	27	202,807	2,008,907	3,845,768
Bloomington, Ind	58	317,937	14	12,170	391	123,949	374	14	3	21,611	405,636	714,338
Bloomsburg, Pa	65	2,093,473	66	63,090	1,029	328,385	635	308	86	106,093	978,508	1,732,559
Bluffton, Ind	91	416,432	43	24,126	461	175,829	372	87	2	49,299	525,428	973,993
Boone, Iowa	114	400,260	29	19,590	680	315,833	592	60	28	28,725	471,794	975,645
Boonton, N. J	39	575,470	32	30,418	574	218,613	456	117	1	48,295	1,009,005	1,458,942
Booneville, Mo	97	299,128	9	6,064	203	89,426	164	25	14	28,129	271,425	473,455
Bordentown, N. J	35	590,439	12	9,615	469	123,632	96	280	93	35,555	405,675	663,706
Boston, Mass	7,247	143,311,376	8,840	9,114,118	72,142	39,184,191	52,831	18,584	727	23,652,792	99,557,019	206,081,767
Boundbrook, N. J	47	716,323	24	34,794	523	190,005	421	83	19	69,737	352,133	742,374
Bowling Green, Ky	104	624,907	48	34,167	782	290,774	658	111	13	64,174	855,636	1,557,952
Braddock, Pa	121	2,724,303	71	60,828	1,437	893,037	1,374	37	26	375,170	3,111,916	5,643,152
Bradford, Pa	149	2,674,380	101	97,397	1,965	1,031,949	1,821	120	24	224,962	2,011,858	4,101,339
Braidwood, Ill	14	12,455	.....	.....	11	4,936	8	.....	3	1,096	12,939	28,322
Brainerd, Minn	54	1,924,045	55	59,288	989	528,012	972	12	5	102,130	1,112,037	1,943,962
Brandon, Vt	61	206,645	11	5,414	239	83,472	195	33	11	11,816	158,691	326,249
Branford, Conn	40	802,721	25	31,652	908	426,952	808	70	30	40,871	239,507	917,147
Brattleboro, Vt	119	1,334,492	63	68,861	854	376,647	581	263	10	90,213	665,599	1,544,457
Brazil, Ind	124	1,469,183	46	36,687	809	375,614	759	35	15	62,593	1,077,795	1,815,474
Brewer, Me	44	735,924	25	22,540	364	170,268	328	36	.....	72,121	540,326	889,779
Bridgeport, Conn	832	33,066,890	1,163	1,498,768	19,301	9,123,790	13,609	5,446	246	2,564,892	19,133,236	37,883,721
Bridgeport, Ohio	23	1,717,473	74	84,757	1,614	911,421	1,494	62	58	61,653	2,874,661	4,793,847
Bridgeport, Pa	28	1,954,100	22	30,207	833	265,209	402	333	98	66,292	1,358,235	1,821,585
Bridgton, Me	43	738,503	12	9,469	376	132,539	303	73	.....	37,577	409,096	662,391
Bridgeton, N. J	135	2,357,651	119	109,344	2,333	836,188	1,775	441	117	99,557	1,216,192	2,649,919
Bridgewater, Mass	54	866,911	39	39,839	838	478,381	705	127	6	43,933	1,300,927	2,075,377
Brigham, Utah	33	104,944	10	2,283	74	27,709	61	9	4	4,650	98,892	172,101
Bristol, Conn	143	3,764,528	142	199,424	2,476	1,188,943	1,920	541	15	207,650	2,224,314	4,364,097
Bristol, Me	37	205,495	4	4,650	226	65,030	168	31	27	5,593	137,965	266,380
Bristol, Pa	72	3,616,181	57	67,902	2,027	751,033	1,135	664	228	332,920	2,577,508	4,008,248
Bristol, R. I	72	3,919,260	73	93,743	2,009	828,366	1,164	794	51	317,873	2,028,612	3,670,251
Bristol, Tenn	59	742,605	62	41,066	511	138,898	394	71	46	109,020	533,743	988,073
Bristol, Va	56	860,211	57	38,501	746	241,380	712	20	14	38,056	579,654	1,092,628
Brockport, N. Y	39	528,469	32	29,984	400	134,792	305	94	1	75,433	430,284	816,208

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Brockton, Mass	428	$10,193,688	681	$654,785	10,986	$6,166,462	8,161	2,754	71	$1,189,168	$15,980,653	$26,384,881
Brookfield, Mass	35	393,859	10	8,500	455	202,800	334	115	6	33,067	544,591	809,420
Brookfield, Mo	64	101,293	4	2,160	193	89,698	161	25	7	12,109	135,336	329,889
Brooklyn, Conn	17	1,404,043	11	18,038	725	226,824	413	267	45	38,895	351,198	756,235
Brookville, Ind	40	155,082	17	9,960	199	71,294	185	11	3	14,488	173,049	317,968
Brownsville, Tenn	25	78,554	6	2,145	59	15,240	51	6	2	10,711	68,338	128,432
Brownsville, Tex	36	96,905	9	2,007	63	17,646	58	.....	5	3,478	58,292	108,680
Brunswick, Ga	73	423,826	18	16,540	550	247,516	534	6	10	39,144	551,817	1,171,378
Brunswick, Me	80	1,673,359	33	29,754	970	350,726	516	392	62	118,462	551,472	1,194,275
Bryan, Ohio	59	315,671	10	8,392	180	78,054	156	22	2	24,232	208,349	396,757
Bryan, Tex	37	182,870	10	7,000	120	42,387	110	6	4	18,160	142,811	306,362
Bucksport, Me	26	84,480	.....	.....	84	31,690	78	6	.....	5,243	90,919	160,014
Bucyrus, Ohio	91	1,011,031	62	54,192	751	338,585	679	56	16	73,535	557,220	1,300,327
Buena Vista, Va	22	921,135	24	33,388	390	126,698	353	37	.....	30,495	1,063,877	1,477,150
Buffalo, N. Y	3,902	103,939,655	4,184	3,680,491	43,422	19,915,817	36,252	6,606	564	9,559,245	73,359,466	122,230,061
Burlington, Iowa	340	5,235,624	303	203,540	2,598	1,013,998	2,199	312	87	414,819	2,809,536	5,334,196
Burlington, N. J	88	1,471,543	105	142,106	1,461	640,453	1,043	403	15	101,573	1,788,443	2,905,991
Burlington, Vt	196	5,066,377	243	301,689	2,794	1,008,188	2,058	690	46	1,064,709	3,751,186	7,094,538
Burrellville, R. I	64	2,922,075	49	68,576	1,865	739,988	1,220	557	88	256,248	2,574,503	4,089,160
Butler, Ind	25	170,911	20	10,862	175	51,925	146	23	6	12,089	194,511	327,600
Butler, Pa	129	1,696,396	40	47,668	1,003	505,468	905	64	34	144,796	749,216	1,877,419
Butte, Mont	212	5,683,033	114	121,734	1,379	1,355,286	1,241	115	23	265,989	3,966,492	8,958,782
Cadillac, Mich	63	2,553,064	34	28,853	788	362,660	738	44	6	104,501	1,364,339	2,164,787
Cairo, Ill	125	2,346,403	122	99,104	1,621	592,535	1,486	31	104	199,109	2,119,681	3,466,015
Calais, Me	73	1,715,940	42	41,050	855	317,575	697	156	2	98,317	872,768	1,493,126
Calvert, Tex	29	150,778	4	3,500	101	25,208	100	1	.....	14,718	236,767	527,005
Cambridge, Mass	782	26,662,751	1,095	1,160,805	12,986	6,785,070	9,894	3,028	64	2,229,106	23,986,638	39,164,013
Cambridge, Ohio	65	1,201,662	63	58,077	849	523,339	809	40	.....	82,401	1,438,670	2,459,368
Camden, Me	55	1,680,251	34	29,519	841	382,191	639	202	.....	60,560	983,518	1,618,017
Camden, N. J	817	16,480,611	736	715,598	8,941	3,824,484	6,546	2,115	280	1,487,751	11,499,151	20,451,874
Camden, S. C	26	304,289	8	4,902	349	61,769	256	45	48	25,845	125,826	241,632
Canal Dover, Ohio	75	1,931,838	62	84,215	1,507	721,242	1,462	31	14	128,719	2,026,574	3,380,494
Canandaigua, N. Y	86	1,338,169	52	55,524	579	254,701	532	46	1	267,964	789,719	1,514,576
Canastota, N. Y	52	768,521	43	33,570	468	194,262	434	27	7	37,779	463,604	890,365
Cannelton, Ind	26	509,822	9	12,900	410	95,672	151	245	14	18,859	180,758	375,592
Canton, Ill	72	4,713,448	86	73,531	1,162	462,011	1,003	152	7	161,660	671,217	1,806,640
Canton, Mass	59	2,214,623	85	103,062	749	339,899	501	244	4	83,889	929,509	1,650,829
Canton, Ohio	502	10,094,813	562	523,561	6,455	2,970,245	5,530	903	22	1,081,809	5,604,399	12,258,427
Cape Girardeau, Mo	94	431,170	26	14,631	282	105,009	266	3	13	35,871	331,749	612,259
Carbondale, Pa	92	1,618,034	71	69,552	1,138	387,528	735	210	193	100,701	572,101	1,384,662
Caribou, Me	38	206,125	8	3,255	125	43,010	111	11	3	8,289	200,245	341,294
Carlisle, Pa	109	1,125,635	82	92,894	1,385	415,986	858	495	32	83,436	1,249,456	2,131,239
Carmi, Ill	35	115,166	3	1,120	98	36,468	92	6	.....	9,406	81,977	169,171
Carnegie, Pa	53	465,830	14	15,678	381	231,519	358	18	5	67,192	434,660	909,890
Carrollton, Mo	48	215,760	8	4,220	120	41,445	100	19	1	11,525	185,757	311,368
Carson City, Nev	36	260,434	3	4,580	71	57,434	70	.....	1	17,377	61,977	185,387
Cartersville, Ga	26	93,908	8	3,450	75	15,827	59	8	8	5,266	54,151	115,941
Carthage, Mo	94	859,385	48	40,698	523	217,237	403	110	10	90,658	543,592	1,176,981
Carthage, Ohio	24	404,420	21	20,846	369	143,361	363	6	.....	802,443	415,216	1,557,273
Catasauqua, Pa	68	3,136,958	72	94,575	1,543	592,026	1,181	208	154	190,598	1,660,319	3,197,297
Catskill, N. Y	75	1,579,609	44	43,831	903	376,644	659	221	23	74,116	495,860	1,196,543
Cedar Falls, Iowa	67	658,605	33	23,703	315	123,090	239	75	1	55,380	678,000	1,049,557
Cedar Rapids, Iowa	241	6,256,801	336	286,448	3,105	1,313,821	2,543	442	120	518,455	8,969,992	12,715,897
Celina, Ohio	34	149,000	14	9,302	153	58,314	129	20	4	11,881	235,619	410,097
Centerville, Iowa	54	178,910	13	6,931	203	82,667	162	36	5	14,695	168,272	341,169
Central Falls, R. I	134	3,389,256	69	84,647	2,092	800,852	1,198	809	85	221,472	2,119,055	3,749,783
Centralia, Ill	56	624,385	29	29,754	636	243,628	510	125	1	23,137	637,728	1,081,230
Chambersburg, Pa	107	853,037	35	25,425	793	283,676	600	165	28	62,527	633,952	1,127,423
Champaign, Ill	122	510,371	34	27,080	515	284,461	425	79	11	60,736	372,801	867,995
Chanute, Kans	54	98,261	5	4,500	154	71,627	122	31	1	9,224	132,216	280,370
Chariton, Iowa	46	126,090	5	3,549	175	64,837	147	24	4	12,068	155,346	323,900
Charleroi, Pa	62	2,395,002	66	79,673	1,270	671,371	1,011	48	211	278,069	700,669	1,871,505
Charles City, Iowa	61	288,313	6	4,326	184	77,479	166	15	3	15,021	231,804	433,985
Charleston, S. C	364	12,473,187	268	291,148	5,027	1,489,966	4,017	790	220	796,573	5,633,578	9,562,387
Charleston, W. Va	119	1,371,807	95	81,995	1,176	454,578	1,059	103	14	95,991	1,033,443	2,052,762
Charlotte, Mich	65	360,900	43	23,363	327	120,069	274	53	.....	23,351	285,638	528,317
Charlotte, N. C	112	4,102,342	185	174,848	2,988	699,846	1,704	807	477	218,221	2,892,587	4,702,301
Charlottesville, Va	79	827,234	55	56,708	487	153,857	346	139	2	43,938	387,690	858,144
Chattanooga, Tenn	332	8,103,870	486	442,348	5,472	1,889,795	4,899	432	141	778,998	7,322,503	12,033,780
Cheboygan, Mich	61	1,345,540	38	40,549	665	280,188	646	16	3	118,522	1,054,867	1,730,843
Chelsea, Mass	308	8,211,682	342	346,985	3,332	1,625,875	2,421	902	9	678,248	5,764,409	10,333,549
Chelsea, Mich	40	207,550	26	13,254	188	70,415	171	15	2	8,705	123,785	293,452
Chester, Pa	315	18,977,710	324	494,821	7,682	3,462,196	5,935	1,451	296	1,222,400	9,261,886	16,421,725
Chester, S. C	26	480,624	18	12,492	584	114,108	369	117	98	41,367	376,980	645,444
Chetopa, Kans	30	57,296	1	300	27	9,524	19	8	.....	3,332	71,704	112,789
Cheyenne, Wyo	71	645,105	25	21,403	589	474,111	568	20	1	71,546	542,428	1,254,074
Chicago, Ill	19,203	534,000,689	35,003	34,374,733	262,621	131,065,337	210,687	44,961	6,973	80,414,823	538,401,562	888,945,311
Chicago Heights, Ill	67	2,866,541	159	208,607	1,529	790,645	1,491	26	12	194,949	2,063,722	3,902,338
Chicopee, Mass	122	6,595,802	123	158,509	4,331	1,668,362	2,495	1,716	120	433,337	5,666,713	8,704,907
Chillicothe, Mo	111	323,685	12	9,520	290	114,007	228	54	8	20,154	309,296	608,767

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Chillicothe, Ohio	115	$914,447	75	$37,368	1,223	$454,644	945	264	14	$96,614	$914,665	$1,709,895
Chippewa Falls, Wis	72	1,847,675	46	51,680	555	243,161	514	37	4	104,828	1,273,597	2,131,067
Cincinnati, Ohio	5,127	109,582,142	6,657	6,776,141	63,240	27,189,069	46,882	15,314	1,044	22,873,620	77,539,292	157,806,834
Circleville, Ohio	83	1,168,592	50	28,941	686	221,470	542	108	36	59,518	1,273,874	1,933,996
Claremont, N. H	89	1,767,883	68	71,478	1,428	579,624	839	459	130	100,826	1,429,538	2,502,632
Clarinda, Iowa	44	126,706	4	1,659	85	33,449	74	10	1	9,434	97,158	179,996
Clarksville, Tenn	105	1,402,405	111	107,121	912	247,202	697	136	79	257,310	1,698,720	2,765,876
Clay Center, Kans	54	179,558	9	3,751	71	25,311	49	18	4	11,809	182,221	279,283
Cleburne, Tex	75	459,325	41	42,423	807	406,011	785	16	6	22,573	593,060	1,202,797
Cleveland, Ohio	2,927	98,303,682	5,410	5,732,145	58,810	27,892,689	49,240	9,074	496	11,565,097	71,597,595	139,849,806
Cleveland, Tenn	29	238,785	19	15,200	453	97,653	185	218	50	15,832	267,301	464,412
Clinton, Ill	23	125,072	15	12,246	190	95,067	186	4	.....	4,984	157,009	301,156
Clinton, Iowa	224	4,537,200	202	232,612	3,080	1,137,019	2,738	245	97	370,141	4,247,057	6,939,473
Clinton, Mass	104	7,098,744	85	115,312	4,021	1,600,948	2,409	1,423	189	222,973	2,913,952	5,446,763
Clinton, Mo	62	333,364	16	12,667	172	69,099	133	23	16	15,747	195,664	372,194
Clyde, N. Y	46	533,305	21	16,904	222	97,658	161	48	13	22,441	352,998	557,169
Coatesville, Pa	70	4,772,487	113	95,805	1,854	840,322	1,674	128	52	219,305	3,752,864	6,356,079
Coffeyville, Kans	64	406,444	25	19,294	417	148,823	377	38	2	42,900	697,955	1,066,336
Cohoes, N. Y	316	11,316,482	215	257,138	8,673	3,140,668	4,246	4,049	378	653,130	6,120,342	11,636,130
Colchester, Vt	31	1,298,233	42	41,115	932	251,499	623	303	6	81,797	764,284	1,258,603
Coldwater, Mich	119	1,925,720	72	71,428	846	324,389	695	142	9	104,750	1,200,058	1,935,543
Collinsville, Ill	51	408,614	19	22,235	344	150,604	332	2	10	15,005	576,819	812,278
Colorado Springs, Colo	159	1,446,189	109	71,719	822	489,337	748	57	17	202,039	798,527	1,840,642
Columbia, Pa	142	2,403,571	86	61,522	2,729	968,288	1,728	729	272	160,051	2,837,765	4,729,477
Columbia, S. C	92	5,277,306	87	108,021	3,250	759,200	2,140	569	541	330,626	2,474,628	4,243,030
Columbia, Tenn	167	574,789	34	24,556	648	198,636	502	108	38	43,985	775,165	1,221,168
Columbia City, Ind	60	340,995	16	12,704	254	109,313	205	43	6	30,112	486,937	743,007
Columbus, Ga	134	5,687,392	196	192,655	4,810	1,200,360	2,777	1,591	442	409,280	3,530,786	6,031,699
Columbus, Ind	94	2,637,825	155	116,356	1,347	522,427	1,279	59	9	194,312	1,595,644	2,933,662
Columbus, Miss	57	610,431	29	19,635	534	138,639	428	74	32	35,912	382,498	753,539
Columbus, Ohio	914	25,392,136	1,759	1,644,304	17,066	7,718,824	14,528	2,269	269	4,014,022	20,194,532	39,666,848
Concord, N. H	298	4,811,982	162	144,051	3,101	1,612,966	2,776	321	4	412,129	2,563,967	5,357,408
Concord, N. C	32	2,040,351	38	35,049	1,953	410,215	1,095	488	370	61,304	1,162,109	1,981,411
Concordia, Kans	48	98,619	3	1,820	98	43,570	85	12	1	8,081	153,610	254,570
Conneaut, Ohio	68	595,115	31	35,375	651	285,634	542	109	.....	36,192	540,056	1,008,423
Connersville, Ind	68	1,880,511	105	94,505	1,455	589,095	1,393	43	19	153,537	1,485,962	2,598,420
Connellsville, Pa	121	1,283,667	57	45,230	916	495,761	831	65	20	50,344	1,449,338	2,380,137
Conshohocken, Pa	55	3,957,818	129	178,180	1,951	896,797	1,525	359	67	219,482	2,303,063	4,454,230
Coraopolis, Pa	20	471,294	41	69,436	397	171,916	295	77	25	35,336	305,093	731,840
Corinth, Miss	38	441,689	39	47,800	476	151,657	335	126	15	27,875	383,877	759,542
Corinth, N. Y	23	71,930	2	550	67	22,411	33	30	4	3,225	40,047	81,722
Corning, N. Y	138	2,212,109	135	154,442	1,965	870,770	1,688	256	21	109,733	1,429,473	3,061,172
Corpus Christi, Tex	39	75,770	3	2,520	80	32,210	67	7	6	5,541	73,157	165,589
Corry, Pa	109	830,727	36	28,318	585	255,129	524	56	5	65,053	493,058	1,061,464
Corsicana, Tex	118	929,030	53	42,731	508	262,292	453	40	15	54,812	1,362,281	2,147,116
Cortland, N. Y	118	2,857,094	123	128,691	1,629	715,749	1,405	221	3	128,044	1,973,877	3,456,262
Coshocton, Ohio	48	806,023	127	108,360	1,088	339,120	674	409	5	66,647	778,215	1,438,912
Council Bluffs, Iowa	198	1,176,408	126	110,013	1,179	609,905	1,034	121	24	160,871	1,224,814	2,596,830
Coventry, R. I	34	1,808,570	21	34,650	1,335	465,321	747	453	135	52,115	947,899	1,645,699
Covington, Ky	404	4,754,786	218	215,860	3,972	1,555,089	3,066	760	146	335,445	3,107,926	6,803,032
Coxsackie, N. Y	36	499,385	21	20,320	353	170,684	278	62	13	40,128	233,367	559,854
Cranston, R. I	38	1,884,867	49	72,660	644	326,790	588	53	3	440,164	691,408	1,603,464
Cresco, Iowa	55	135,030	6	1,425	93	34,910	88	5	3	7,554	168,183	294,772
Creston, Iowa	103	398,925	29	22,295	418	177,476	370	48	.....	29,743	344,910	688,739
Cripple Creek, Colo	127	342,256	34	31,370	400	336,591	352	44	4	64,471	714,016	1,417,846
Crawfordsville, Ind	71	402,497	38	29,668	318	133,502	274	42	2	43,765	343,241	735,536
Crookston, Minn	60	761,047	22	15,040	349	191,410	334	13	2	59,071	635,330	1,102,064
Cumberland, Md	142	2,946,748	176	131,085	1,992	815,503	1,800	153	39	218,955	2,006,710	3,526,422
Cumberland, R. I	27	4,488,459	35	52,931	1,688	660,997	998	585	105	53,425	656,578	1,969,553
Cuero, Tex	37	187,598	8	7,600	86	35,113	76	10	.....	9,080	118,191	224,709
Cuyahoga Falls, Ohio	27	906,439	38	42,340	522	253,292	507	14	1	58,794	921,147	1,462,767
Dallas, Tex	373	6,897,015	540	547,271	3,756	1,852,485	2,947	618	191	665,954	6,270,870	11,480,499
Dalton, Ga	28	734,234	26	17,205	752	127,750	302	224	226	28,239	981,967	1,365,159
Dalton, Mass	33	1,724,823	53	85,633	848	351,101	423	414	11	143,454	726,946	1,619,191
Danbury, Conn	283	3,636,619	168	146,665	4,296	2,017,155	3,004	1,276	16	406,556	3,542,000	7,213,555
Dansville, N. Y	78	446,469	22	19,579	253	87,944	166	86	1	38,204	246,940	490,007
Danvers, Mass	90	1,398,834	51	53,671	974	489,432	760	197	17	89,659	1,756,840	2,654,936
Danville, Ill	174	1,585,156	53	50,238	1,257	598,624	1,072	162	23	97,207	1,433,008	2,616,515
Danville, Pa	92	2,836,268	74	75,998	2,414	855,306	1,968	209	237	227,030	2,759,707	4,317,776
Danville, Va	139	5,832,258	248	182,695	5,143	1,040,820	2,605	1,585	953	678,040	5,187,771	8,103,484
Darby, Pa	45	1,363,579	24	28,259	744	270,921	287	293	164	78,366	570,333	1,152,278
Davenport, Iowa	416	10,774,707	458	455,082	4,348	1,892,737	3,330	859	159	855,397	6,854,677	11,573,670
Dayton, Ky	59	193,690	4	2,440	236	86,218	147	86	3	6,903	125,112	314,610
Dayton, Ohio	1,096	28,027,518	1,455	1,570,994	16,869	7,959,792	13,576	3,143	150	3,295,885	16,806,911	35,697,695
Dayton, Tenn	21	621,268	11	6,160	606	134,030	600	2	4	20,272	952,783	1,332,501
Dayton, Wash	47	274,665	9	8,100	69	40,645	65	4	.....	13,947	430,941	573,516
Decatur, Ala	24	229,807	10	7,052	198	54,650	189	4	5	7,574	108,799	237,265
Decatur, Ill	239	3,632,263	268	220,109	2,313	994,659	1,956	340	17	219,713	3,690,802	5,896,492
Decatur, Ind	83	389,040	20	15,898	341	128,181	292	44	5	32,386	320,002	656,430
Decorah, Iowa	85	318,540	8	5,491	174	75,619	144	29	1	23,762	221,213	445,345

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Dedham, Mass	96	$777,098	15	$12,481	678	$305,824	516	151	11	$43,846	$657,550	$1,260,125
Defiance, Ohio	100	1,141,426	51	50,116	936	356,951	816	116	4	87,931	814,712	1,609,834
Dekalb, Ill	83	2,008,462	59	52,692	1,064	491,094	957	79	28	164,038	2,579,378	3,858,416
Delaware, Ohio	69	566,596	48	36,643	655	248,446	505	148	2	57,188	351,467	846,645
Delphi, Ind	54	234,026	8	3,589	183	76,889	157	23	3	12,856	164,116	326,876
Delphos, Ohio	59	369,524	10	6,801	286	119,202	266	19	1	37,197	225,928	519,730
Denison, Tex	87	1,212,851	61	43,054	779	402,070	725	44	10	49,287	468,848	1,017,613
Dennison, Ohio	33	378,143	57	43,641	892	524,693	878	14	.....	73,480	584,396	1,295,334
Denver, Colo	1,474	30,888,046	1,139	1,243,703	10,926	6,824,003	9,561	1,275	90	2,409,785	24,572,199	41,368,698
Depere, Wis	48	854,321	15	19,110	360	115,730	209	145	6	35,489	689,331	980,800
Derby, Conn	84	4,328,442	72	112,427	2,311	1,116,078	1,696	580	35	302,878	1,304,256	3,456,561
Derby, Vt	19	215,924	10	9,490	184	71,200	181	.....	3	7,101	351,220	531,462
Derry, N. H	26	344,504	11	11,250	887	359,089	580	307	.....	26,892	1,268,872	1,745,489
Des Moines, Iowa	494	7,911,764	730	596,750	4,557	1,942,509	3,640	817	100	894,691	4,975,568	10,488,189
Detroit, Mich	2,847	71,751,193	5,448	5,042,299	45,707	18,718,081	33,943	10,469	1,295	10,844,958	52,349,347	100,892,838
Dixon, Ill	111	4,801,007	143	178,574	2,778	1,426,275	2,021	700	57	262,491	3,447,640	5,624,709
Dover, N. H	184	6,784,230	109	142,989	3,289	1,450,278	2,167	1,106	16	374,052	3,624,068	6,311,158
Dover, N. J	56	951,695	61	45,389	1,367	657,548	1,177	150	40	44,383	710,248	1,804,850
Dowagiac, Mich	71	1,215,933	73	55,316	667	333,495	639	26	2	103,828	601,115	1,389,216
Dubois, Pa	56	1,513,316	40	36,354	893	355,925	846	35	12	89,756	1,229,312	1,926,391
Dubuque, Iowa	460	8,117,358	579	455,306	5,503	2,012,153	4,242	1,150	111	1,028,245	5,930,017	10,952,204
Dudley, Mass	18	1,978,291	30	45,690	1,195	437,177	675	436	84	108,027	1,018,132	1,661,978
Duluth, Minn	433	8,872,940	245	245,448	3,998	2,145,444	3,682	275	41	572,266	5,861,499	10,628,957
Dunkirk, N. Y	86	4,226,495	122	121,655	2,615	1,374,017	2,449	108	58	324,324	3,084,197	5,393,053
Dunmore, Pa	53	1,336,477	66	60,458	893	354,922	711	138	44	180,467	662,486	1,472,675
Duquesne, Pa	19	14,358,059	77	88,877	1,497	1,075,152	1,493	.....	4	435,881	14,611,842	20,365,667
Duquoin, Ill	48	279,945	21	13,750	104	44,177	91	9	4	36,902	198,124	359,058
Durham, N. C	82	1,727,205	151	253,619	2,787	535,289	1,184	1,265	338	2,367,522	2,502,449	7,084,540
Dyersburg, Tenn	36	532,375	23	15,600	233	83,364	225	4	4	27,198	397,782	638,926
East Chicago, Ind	17	2,768,122	63	85,405	1,448	627,855	1,441	.....	7	92,211	1,723,381	3,055,689
East Greenwich, R. I	46	443,701	20	22,159	355	140,346	253	90	12	23,864	312,869	663,416
East Haddam, Conn	27	390,850	6	3,400	337	104,754	179	153	5	73,616	209,940	482,649
East Hampton, Mass	63	2,300,366	45	93,021	1,714	658,933	914	776	24	113,403	1,452,605	2,669,753
East Hartford, Conn	56	866,125	21	32,353	439	212,424	359	79	1	82,460	475,047	923,769
East Liverpool, Ohio	162	5,056,198	294	292,185	4,473	2,150,938	3,323	1,107	43	341,135	1,759,408	5,459,043
East Mauch Chunk, Pa.	21	301,135	3	3,016	383	76,257	177	167	39	66,965	478,844	685,394
Easton, Mass	46	1,244,991	28	30,042	706	310,994	588	89	29	23,910	803,925	1,523,467
Easton, Pa	285	4,829,879	180	130,082	3,912	1,516,525	2,684	945	283	485,029	3,794,496	6,746,078
East Orange, N. J	167	2,311,585	161	197,660	1,354	724,495	1,166	187	1	350,162	1,583,435	3,463,141
Eastport, Me	62	3,037,366	69	61,838	2,213	479,805	1,218	697	298	48,714	1,020,605	1,905,808
East Providence, R. I	48	2,261,080	48	52,930	901	366,729	661	240	.....	265,293	4,341,767	5,487,101
East St. Louis, Ill	133	10,466,412	274	290,088	5,642	2,624,749	5,293	111	238	609,809	28,300,150	33,559,611
East Tawas, Mich	23	193,176	10	3,800	71	25,636	58	11	2	14,758	61,713	170,310
East Windsor, Conn	26	751,474	12	18,829	361	158,775	249	94	18	224,571	541,571	1,016,216
Eaton Rapids, Mich	40	124,037	4	2,379	90	30,232	61	29	.....	8,418	156,541	246,919
Eau Claire, Wis	148	4,756,338	127	137,915	1,858	726,565	1,659	155	44	298,327	2,491,102	4,366,230
Edinburg, Ind	26	160,503	2	1,500	117	41,920	109	6	2	6,404	66,648	160,720
Edwardsville, Ill	59	187,414	8	7,500	147	70,610	141	6	.....	12,005	285,305	457,466
Elgin, Ill	209	8,603,283	158	191,584	4,764	2,249,009	2,860	1,787	117	450,773	2,953,582	7,161,637
Elizabeth, N. J	419	15,665,545	564	731,152	10,497	6,024,497	9,580	856	61	1,351,411	9,882,821	20,546,468
Elkhardt, Ind	142	2,901,541	222	167,604	2,324	1,097,741	2,037	278	9	468,438	2,065,031	4,283,746
Ellenville, N. Y	59	353,768	5	3,856	248	88,338	181	52	15	27,767	211,167	413,078
Ellsworth, Me	82	696,999	24	14,412	452	185,292	374	78	.....	24,941	482,746	808,858
Elmira, N. Y	362	7,365,534	315	276,897	4,914	1,965,056	3,504	1,243	167	486,960	4,961,635	8,558,786
Elmwood Place, Ohio	23	770,096	24	33,500	301	153,168	298	1	2	8,227	441,818	743,536
El Paso, Tex	136	4,550,604	86	118,450	2,171	1,036,517	2,107	54	10	523,095	6,371,489	8,846,045
Elwood, Ind	135	4,513,128	107	114,330	2,958	1,781,752	2,574	176	208	175,187	6,999,786	9,929,311
Elyria, Ohio	76	1,778,819	94	89,379	968	391,841	805	144	19	137,958	999,280	1,760,500
Emporia, Kans	77	232,606	5	3,300	224	101,720	187	31	6	29,361	234,994	474,519
Enfield, Conn	40	4,022,477	63	107,556	1,459	579,853	919	486	54	100,058	1,139,636	2,090,609
Ephrata, Pa	66	370,198	18	7,876	501	130,323	219	232	50	65,227	308,958	634,359
Erie, Pa	644	20,418,016	679	702,343	9,339	4,574,625	8,389	699	251	1,197,411	9,107,305	19,053,202
Etna, Pa	37	3,701,581	34	50,190	1,709	865,992	1,651	8	50	64,848	2,515,585	5,655,269
Evanston, Ill	126	1,564,305	44	35,187	775	430,529	718	49	8	91,894	750,894	1,831,501
Evansville, Ind	705	10,059,375	601	621,332	7,279	2,883,975	5,489	1,652	138	988,542	7,504,660	14,193,320
Everett, Mass	168	6,107,735	138	153,963	2,141	1,068,987	1,987	151	3	702,785	2,725,197	5,038,120
Everett, Wash	84	1,681,549	74	72,254	900	509,009	867	19	14	168,022	1,820,523	2,803,382
Exeter, N. H	104	1,507,485	43	39,265	1,290	582,756	889	383	18	80,757	1,539,743	2,537,896
Fairfield, Conn	42	221,548	7	13,200	130	71,727	120	10	.....	49,276	319,911	538,225
Fairfield, Me	32	788,971	19	16,464	414	134,660	384	29	1	14,840	330,415	552,083
Fairhaven, Mass	47	329,491	13	7,331	313	170,096	284	28	1	22,757	126,508	408,099
Fair Haven, Vt	62	381,736	12	7,805	346	137,056	303	41	2	13,391	213,330	483,858
Fairhaven, Wash	30	1,163,291	18	19,547	1,026	287,493	941	58	27	161,803	1,044,609	1,699,015
Fairmount, Ind	37	272,528	11	11,966	649	343,572	489	54	106	18,517	316,112	833,517
Fairport, N. Y	33	352,871	36	30,849	212	76,064	133	79	.....	14,599	205,328	434,683
Fall River, Mass	785	58,549,934	615	918,442	32,780	11,739,129	17,686	13,374	1,720	3,249,083	19,789,859	43,071,530
Fargo, N. Dak	93	1,092,026	45	40,122	705	383,500	644	53	8	76,352	1,272,753	2,137,802
Faribault, Minn	102	880,867	65	56,090	482	222,284	434	43	5	47,852	2,014,715	2,687,312
Farmington, Conn	38	554,437	26	30,866	553	226,135	405	147	1	54,409	352,143	802,867
Farmington, N. H	57	393,509	12	7,401	505	189,281	311	194	.....	14,918	442,365	736,819

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Fayetteville, N. C.	46	$446,970	33	$17,684	461	$81,424	263	158	40	$15,737	$316,680	$570,127
Fergus Falls, Minn	91	429,254	19	19,688	264	114,367	230	29	5	43,892	685,883	1,062,397
Findlay, Ohio	252	2,152,202	131	99,824	1,478	633,505	1,269	195	14	165,613	1,122,537	2,514,356
Fishkill Landing, N. Y.[1]	38	721,829	20	20,565	436	215,324	331	105	.....	40,570	361,909	681,038
Fitchburg, Mass	308	13,033,898	322	376,675	6,796	3,113,078	4,794	1,757	245	749,165	8,062,713	14,253,522
Flint, Mich	154	2,605,428	93	74,220	2,186	895,186	1,918	259	9	262,543	3,006,436	5,198,827
Florence, Ala	33	871,373	52	39,937	595	177,813	557	1	37	50,370	693,432	1,037,471
Fond du Lac, Wis	188	2,745,438	123	120,886	1,834	677,977	1,410	370	54	239,112	1,895,233	3,386,822
Fort Atkinson, Wis	67	663,698	49	45,967	392	146,511	358	27	7	53,406	346,653	781,299
Fort Dodge, Iowa	88	903,834	89	62,621	527	224,124	427	93	7	38,642	793,266	1,263,305
Fort Fairfield, Me	37	148,225	7	2,290	72	23,365	63	9	.....	4,898	140,163	232,327
Fort Madison, Iowa	83	1,546,574	74	92,388	966	409,351	930	30	6	95,455	870,482	1,787,254
Fort Payne, Ala	17	85,405	6	4,600	88	37,982	84	4	.....	4,206	71,652	155,916
Fort Plain, N. Y	44	457,257	14	10,570	321	105,825	166	146	9	19,889	263,494	497,154
Fort Scott, Kans	97	675,097	32	29,496	535	255,803	470	64	1	39,630	475,668	943,018
Fort Smith, Ark	194	1,131,924	74	72,894	1,012	394,363	861	83	68	123,891	890,191	2,119,062
Fort Wayne, Ind	397	9,203,613	653	631,513	7,255	2,928,969	5,260	1,827	168	730,122	6,597,414	12,525,222
Fort Worth, Tex	209	2,668,045	131	145,904	1,449	845,477	1,349	82	18	392,377	3,348,550	5,332,804
Fostoria, Ohio	92	1,532,627	72	56,918	795	278,529	530	264	1	54,550	2,108,515	2,645,205
Foxboro, Mass	45	308,048	18	20,008	491	221,858	229	262	.....	37,240	359,607	777,219
Framingham, Mass	144	3,092,662	83	75,551	2,475	1,018,339	1,349	1,078	48	187,797	2,010,281	3,714,732
Frankfort, Ind	86	544,645	67	43,268	672	292,349	614	50	8	45,531	786,336	1,411,736
Frankfort, Ky	66	1,594,791	89	83,888	367	161,474	333	28	6	256,229	1,181,326	2,088,125
Franklin, Ind	67	236,700	15	9,328	129	56,188	113	14	2	19,349	287,626	492,687
Franklin, Mass	51	1,823,556	42	48,208	888	397,846	595	277	16	87,325	954,409	1,686,041
Franklin, N. H	92	1,975,868	32	45,294	1,291	493,773	779	466	46	83,301	803,545	1,708,889
Franklin, Ohio	39	448,290	20	19,530	296	119,118	192	104	.....	15,891	521,908	864,036
Franklin, Pa	120	4,523,916	156	271,365	758	354,318	685	62	11	1,506,361	1,826,916	6,046,218
Frederick, Md	133	1,217,702	77	51,968	1,131	252,383	654	314	163	69,893	1,054,449	1,727,094
Fredericksburg, Va	62	759,614	43	32,209	552	147,726	383	138	31	29,369	454,411	810,242
Fredonia, N. Y	41	514,975	45	41,668	210	68,363	91	113	6	34,789	217,440	462,455
Freeport, Ill	167	2,262,630	154	128,835	1,679	748,493	1,570	106	3	298,972	1,575,780	3,348,448
Fremont, Nebr	86	1,096,351	45	30,338	420	203,715	366	47	7	92,278	475,634	956,006
Fremont, Ohio	156	2,616,545	165	188,641	1,504	599,286	1,036	462	6	152,323	1,322,880	2,621,951
Fresno, Cal	159	1,648,188	104	101,021	1,009	513,064	687	305	17	136,761	1,903,800	3,238,217
Fulton, N. Y	68	1,910,181	58	57,814	730	301,017	671	58	1	118,084	905,316	1,607,954
Gadsden, Ala	35	1,184,805	25	25,078	520	165,475	503	9	8	24,180	463,738	848,751
Gainesville, Ga	37	282,712	19	14,350	500	126,097	392	45	63	17,991	448,693	687,129
Gainesville, Tex	76	733,711	33	31,960	338	146,758	312	22	4	55,399	807,208	1,251,291
Galena, Ill	91	390,171	41	28,874	276	89,751	217	51	8	50,216	219,460	462,700
Galena, Kans	61	174,028	6	4,963	182	92,834	161	18	3	12,806	373,520	563,697
Galesburg, Ill	177	1,499,216	123	100,326	1,478	719,605	1,386	86	6	96,191	884,119	2,170,557
Galion, Ohio	65	916,488	55	35,401	891	367,410	858	30	3	63,906	679,921	1,309,129
Gallipolis, Ohio	89	491,907	35	24,602	458	159,479	415	37	6	54,833	368,482	731,063
Galveston, Tex	295	6,073,845	153	183,996	2,058	981,827	1,593	333	132	477,229	2,618,996	5,016,360
Gardiner, Me	79	1,709,577	56	56,696	1,093	495,139	891	202	.....	119,036	1,760,828	2,930,865
Gardner, Mass	118	6,073,152	120	130,892	3,083	1,299,492	2,686	388	9	198,615	2,464,237	4,763,863
Garrett, Ind	28	229,083	32	22,712	354	184,066	343	11	.....	7,906	373,477	628,153
Gas City, Ind	36	1,606,938	68	72,578	1,427	840,747	1,205	101	121	33,487	1,677,224	2,959,187
Geneva, N. Y	161	2,617,661	138	155,489	1,586	689,101	1,258	308	20	235,472	1,913,634	3,366,806
Girard, Kans	37	123,340	6	2,572	218	87,445	191	22	5	23,133	402,568	511,809
Glastonbury, Conn	42	1,388,950	49	53,934	662	302,944	483	150	29	215,514	698,970	1,523,464
Glens Falls, N. Y	162	4,474,907	169	189,914	3,280	1,033,416	1,683	1,574	23	290,980	2,230,408	4,571,253
Gloucester, Mass	392	4,687,559	235	199,436	3,379	1,428,896	2,750	629	.....	349,839	4,862,660	7,843,783
Gloucester City, N. J	74	3,038,922	72	218,294	1,555	535,923	637	674	244	285,658	1,260,002	2,922,242
Gloversville, N. Y	312	5,740,327	247	239,755	8,111	2,536,853	3,565	4,498	48	271,152	5,518,391	9,647,167
Goldsboro, N. C	46	620,932	39	33,462	507	123,899	407	44	56	26,336	677,409	1,086,834
Gorham, Me	26	73,508	1	414	34	12,538	31	3	.....	3,712	50,442	90,463
Goshen, Ind	133	1,596,928	149	106,436	1,112	412,752	908	194	10	162,913	1,475,939	2,521,242
Grafton, Mass	49	1,938,007	42	56,398	1,256	466,729	672	508	76	94,403	927,957	1,708,342
Grand Forks, N. Dak	77	829,104	37	33,430	321	227,047	263	55	3	64,235	479,650	1,084,766
Grand Haven, Mich	56	576,910	23	15,324	533	194,473	466	37	30	49,427	417,929	826,165
Grand Island, Nebr	104	989,396	31	26,440	465	227,656	372	77	16	56,469	445,681	899,195
Grand Rapids, Mich	824	23,433,760	1,197	1,166,472	14,361	5,904,670	12,625	1,613	123	1,950,456	12,348,978	24,824,042
Grand Rapids, Wis	66	1,260,534	35	34,216	503	174,641	462	29	12	64,542	671,146	1,129,078
Great Barrington, Mass	94	1,436,391	37	49,567	1,010	415,547	742	247	21	108,012	832,032	1,671,574
Great Falls, Mont	74	1,409,694	66	88,443	624	469,513	580	9	35	185,628	1,642,689	2,558,538
Green Bay, Wis	191	3,383,717	117	112,069	1,719	702,829	1,466	210	43	257,838	1,749,046	3,469,160
Greencastle, Ind	68	199,694	12	3,943	145	58,087	127	18	.....	15,887	216,788	395,398
Greencastle, Pa	26	48,526	1	100	61	19,476	39	17	5	3,989	49,673	94,622
Greenfield, Ind	59	402,936	53	25,454	383	195,512	299	51	33	31,983	357,774	761,222
Greenfield, Mass	141	1,725,880	99	95,080	1,223	551,550	997	198	28	95,786	884,443	2,093,352
Green Island, N. Y	46	2,472,997	65	84,224	933	470,980	788	139	6	105,568	1,029,273	1,992,098
Greensboro, N. C	79	1,711,629	87	65,143	1,587	295,820	1,061	320	206	152,048	1,015,571	1,790,523
Greensburg, Ind	76	353,430	29	21,984	324	123,982	278	39	7	52,619	725,562	1,107,694
Greenville, Mich	90	542,117	39	41,832	388	170,356	346	40	2	82,346	452,764	851,688
Greenville, N. H	15	728,004	5	7,609	477	167,501	322	135	20	30,362	446,029	685,010
Greenville, Ohio	97	349,412	16	8,438	330	109,192	222	106	2	24,991	377,601	642,503
Greenville, Pa	79	1,998,509	48	39,589	999	544,612	916	70	13	65,003	1,116,066	1,900,471
Greenville, S. C	64	2,858,388	55	63,418	2,153	370,392	1,178	483	492	94,417	1,414,574	2,224,990

[1] Given as Fishkill-on-Hudson in 1890.

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Greenville, Tex	65	$528,607	23	$15,970	240	$101,247	226	12	2	$47,440	$299,069	$603,050
Greenwich, Conn	74	1,458,496	55	61,104	915	408,556	811	93	11	91,999	764,776	1,541,933
Gretna, La	16	2,774,077	72	67,878	791	196,014	785	.....	6	118,210	3,572,492	4,075,787
Griffin, Ga	29	1,407,562	28	27,969	1,021	229,790	522	263	236	44,981	561,874	1,079,133
Grinnell, Iowa	81	812,940	33	23,207	334	145,664	270	64	.....	37,045	426,632	1,004,642
Griswold, Conn	30	2,175,383	16	38,064	813	329,266	598	176	39	123,772	505,748	1,173,969
Groton, Conn	16	59,070	6	4,800	94	55,820	92	2	.....	6,032	88,731	197,106
Groveland, Mass	11	798,941	8	7,700	415	172,308	243	127	45	34,119	594,025	857,736
Guilford, Conn	41	247,715	5	2,350	182	89,545	140	37	5	7,561	119,083	293,400
Guthrie, Okla	85	415,240	40	32,100	346	139,077	298	43	5	36,706	430,869	837,374
Guttenburg, N. J	43	302,807	8	7,244	125	85,670	120	4	1	62,098	116,433	344,531
Hadley, N. Y	6	101,297	4	4,800	72	24,578	72	.....	.....	1,527	32,018	75,822
Hagerstown, Md	208	1,375,281	96	52,279	1,873	502,307	929	859	85	92,802	1,454,929	2,465,507
Hallowell, Me	38	1,029,678	34	48,760	642	314,614	526	116	.....	127,595	634,957	1,247,687
Hamburg, Pa	62	416,757	11	6,704	369	113,515	242	94	33	20,950	383,291	627,209
Hamden, Conn	25	801,581	34	46,913	494	204,010	398	89	7	35,611	373,190	757,239
Hamilton, Ohio	222	12,575,821	325	413,632	5,850	2,626,084	5,027	758	65	803,481	5,535,568	12,003,316
Hammond, Ind	52	6,326,907	291	331,388	2,738	1,265,521	2,215	519	4	491,449	20,277,354	25,223,536
Hampton, Va	40	189,377	13	7,024	217	110,352	208	6	3	57,477	315,196	578,486
Handsboro, Miss	5	155,221	6	5,900	133	34,280	124	.....	9	4,070	127,833	213,844
Hannibal, Mo	172	1,890,718	145	117,305	1,420	611,859	1,189	216	15	141,634	1,890,909	3,025,349
Hanover, Pa	85	766,387	33	20,513	849	262,267	524	309	16	78,399	557,542	1,153,492
Hardwick, Mass	16	1,442,618	14	23,550	755	289,932	500	209	46	72,438	691,354	1,173,776
Harriman, Tenn	38	473,018	33	21,707	825	87,231	295	9	21	14,408	449,511	615,441
Harrisburg, Pa	446	8,749,516	404	391,086	7,362	2,949,544	5,435	1,812	115	646,950	9,402,516	16,064,597
Harrison, N. J	79	5,210,605	207	237,807	2,983	1,463,265	1,975	911	97	385,948	3,297,663	6,331,783
Harrisonburg, Va	55	521,573	12	15,352	244	78,553	227	8	9	30,187	458,558	682,654
Hartford, Conn	888	30,500,047	1,267	1,475,519	13,363	7,603,809	11,597	1,698	68	3,375,585	14,103,167	31,145,715
Hartford City, Ind	100	1,079,461	49	47,490	950	573,227	822	63	65	56,324	765,340	1,747,090
Harvey, Ill	55	2,582,255	190	180,602	1,581	714,940	1,388	119	74	132,428	1,318,415	2,812,592
Hastings, Mich	57	350,792	14	12,935	347	125,772	269	78	.....	37,413	382,962	691,046
Hastings, Minn	59	238,872	12	10,022	172	70,764	158	11	3	36,872	1,024,625	1,270,209
Hastings, Nebr	111	425,794	6	5,280	337	149,265	243	87	7	35,409	340,094	720,615
Haverhill, Mass	685	6,801,565	501	380,014	10,600	5,035,882	7,270	3,274	56	1,336,232	15,628,972	24,937,073
Haverhill, N. H	44	257,007	20	4,730	170	63,103	162	7	1	8,940	215,528	334,519
Haverstraw, N. Y	110	1,306,235	20	15,753	1,174	510,864	1,116	45	13	177,327	405,601	1,366,158
Havre de Grace, Md	38	831,464	21	17,150	674	332,348	458	144	72	16,491	913,676	1,372,420
Hawley, Pa	28	716,842	12	11,200	448	140,953	288	88	72	21,825	587,627	809,724
Hazelton, Pa	141	1,488,290	78	53,241	1,049	341,769	557	396	96	166,935	520,222	1,478,503
Hearne, Tex	11	149,918	8	6,268	101	27,489	101	.....	.....	23,797	152,652	252,218
Helena, Ark	43	563,146	28	29,667	272	108,702	250	18	4	44,893	437,047	821,011
Helena, Mont	127	1,097,204	66	76,474	566	374,120	458	100	8	96,664	705,776	1,544,485
Henderson, Ky	107	2,913,716	86	68,601	1,475	392,452	867	427	181	199,590	1,842,397	2,915,539
Herkimer, N. Y	73	1,836,979	49	81,964	1,344	515,627	1,016	300	28	159,725	940,818	2,053,605
Hiawatha, Kans	45	111,280	1	500	84	34,256	68	16	.....	9,875	85,822	183,816
High Point, N. C	47	834,673	47	38,918	1,116	205,009	875	95	146	72,386	617,434	1,178,715
Hillsboro, Ohio	48	331,539	28	29,029	293	114,135	260	33	.....	18,140	305,399	574,988
Hillsboro, Ill	27	75,900	2	920	53	17,788	44	9	.....	5,367	45,994	101,429
Hillsdale, Mich	88	600,278	33	28,555	332	152,337	237	93	2	27,701	1,047,550	1,384,462
Hinsdale, Mass	14	340,045	6	8,681	250	88,395	153	84	13	19,602	275,638	434,627
Hoboken, N. J	399	8,331,015	420	510,166	6,443	3,076,235	4,698	1,377	368	878,470	5,724,626	12,092,872
Hollidaysburg, Pa	38	167,649	11	7,051	197	77,736	183	12	2	8,931	190,979	332,022
Holton, Kans	60	163,649	13	5,280	104	36,347	79	23	2	11,021	88,039	201,585
Holyoke, Mass	433	26,760,031	628	843,899	13,454	5,730,998	7,705	5,150	599	1,976,024	13,673,969	26,283,964
Homer, N. Y	36	495,611	10	5,930	280	108,274	214	66	.....	16,750	275,992	622,890
Homestead, Pa	52	2,591,815	87	86,113	1,030	439,247	1,006	16	8	59,737	725,729	1,444,245
Honesdale, Pa	71	1,357,399	60	51,694	680	238,684	350	270	60	90,242	714,659	1,235,425
Honolulu, Hawaii	119	2,964,332	146	224,866	1,708	976,784	1,641	38	29	201,958	2,426,046	4,618,125
Hoosick Falls, N. Y	57	3,070,843	75	79,288	1,405	669,893	1,001	402	2	200,366	1,031,421	2,734,861
Hopedale, Mass	4	3,031,796	50	107,181	1,464	790,439	1,458	6	.....	123,682	1,214,395	3,319,747
Hopkinsville, Ky	73	445,770	68	30,747	547	136,346	481	51	15	50,917	514,404	884,913
Hopkinton, R. I	42	831,126	20	17,373	372	125,621	288	77	7	29,180	255,273	506,209
Hornellsville, N. Y	154	1,952,072	129	103,688	1,757	680,974	1,308	436	13	174,055	1,515,287	2,873,670
Horton, Kans	40	589,952	22	19,860	374	196,386	355	14	5	12,721	291,331	555,024
Houston, Tex	509	6,955,350	309	339,990	4,588	2,409,250	4,295	230	63	663,426	5,792,571	10,641,575
Hudson, Mass	74	1,615,132	48	66,321	1,571	769,625	1,051	493	27	154,641	2,440,180	3,621,137
Hudson, Mich	74	395,090	28	18,105	227	106,360	206	21	.....	29,077	311,418	610,152
Hudson, N. Y	144	2,357,304	84	94,590	1,403	591,430	911	462	30	365,163	1,495,636	3,096,759
Hudson, Wis	41	631,920	24	19,552	422	226,001	414	6	2	18,775	926,230	1,261,569
Humboldt, Tenn	30	177,563	17	8,375	188	51,593	184	2	2	13,290	142,616	267,411
Huntingburg, Ind	51	171,854	15	6,583	173	64,329	165	4	4	11,178	232,087	378,440
Huntingdon, Pa	68	1,062,520	31	23,320	550	208,583	367	171	12	82,972	547,414	971,674
Huntington, Conn	64	3,121,834	98	130,927	1,622	701,333	1,142	426	54	219,959	2,267,661	3,917,477
Huntington, Ind	99	956,803	74	45,844	1,238	521,251	1,165	67	6	45,923	1,106,697	1,922,329
Huntington, W. Va	89	2,286,230	87	71,905	1,861	871,708	1,779	74	8	117,075	2,598,937	3,873,432
Huntsville, Ala	79	1,877,781	53	51,308	1,208	283,575	684	282	237	152,637	890,118	1,728,711
Hutchinson, Kans	140	1,151,138	47	35,476	703	279,188	614	86	3	81,740	1,216,951	1,907,370
Hyde Park, Mass	127	3,740,053	109	155,929	2,792	1,317,684	2,077	696	19	157,816	2,747,589	5,007,409
Ilion, N. Y	47	2,172,209	58	60,826	1,946	1,185,975	1,838	100	8	230,485	564,422	2,944,655
Independence, Iowa	57	312,405	8	5,060	159	57,375	129	21	9	14,766	163,291	314,179

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Independence, Kans..	61	$210,375	12	$6,910	188	$62,658	118	45	20	$14,490	$258,555	$416,991
Independence, Mo....	64	505,645	29	35,737	220	100,982	184	29	7	39,775	604,002	886,354
Indianapolis, Ind.....	1,910	36,828,114	2,636	2,445,785	25,511	10,882,914	21,181	4,065	265	5,389,394	42,055,634	68,607,579
Iowa City, Iowa	129	1,003,969	148	70,399	680	299,314	536	131	13	89,077	781,780	1,511,065
Ipswich, Mass.....	64	826,419	18	24,216	843	382,277	471	341	31	142,446	481,386	1,194,826
Ironton, Ohio.....	112	3,321,219	98	108,457	1,758	767,394	1,670	84	4	178,236	3,299,905	5,715,112
Ironwood, Mich	47	163,090	2	1,720	134	66,288	118	16	.....	8,371	103,224	250,463
Irvington, N. J	60	365,503	15	16,145	331	139,485	290	40	1	67,301	1,138,248	1,773,558
Ishpeming, Mich	55	192,887	5	6,600	191	97,256	165	24	2	17,540	186,010	404,916
Ithaca, N. Y	194	2,998,057	133	98,377	1,286	631,984	1,116	169	1	149,945	1,114,845	2,535,151
Jackson, Mich	291	4,617,656	389	362,462	4,206	1,666,680	2,914	1,270	22	480,757	4,223,891	7,587,526
Jackson, Miss.....	83	953,508	82	60,459	735	263,645	676	50	9	84,053	1,075,845	1,724,395
Jackson, Ohio	43	454,008	14	11,365	147	60,363	128	16	3	16,899	256,791	510,111
Jackson, Tenn	84	1,123,632	112	83,234	1,205	467,340	1,074	125	6	75,371	847,514	1,894,149
Jacksonville, Fla	195	2,068,663	119	106,241	1,602	645,921	1,473	97	32	153,295	1,007,924	2,312,209
Jacksonville, Ill	174	1,505,725	138	109,895	1,436	596,189	1,140	254	42	179,043	1,183,693	2,385,547
Jamestown, N. Y	178	8,552,470	886	474,249	4,685	1,800,192	3,201	1,268	216	583,097	4,096,302	8,218,922
Janesville, Wis	184	2,630,838	179	129,127	1,710	685,842	1,278	393	39	249,911	1,980,411	3,670,820
Jasper, Ind	42	162,323	8	3,010	202	80,124	193	7	2	10,412	142,128	297,600
Jefferson, Tex.....	21	395,904	27	20,820	335	94,367	324	6	5	16,006	292,638	498,462
Jefferson, Wis.....	66	629,658	24	19,010	370	129,299	335	33	2	36,970	513,591	828,924
Jefferson City, Mo	99	1,627,434	179	179,345	455	169,124	350	65	40	589,999	2,279,573	3,361,998
Jeffersonville, Ind	78	2,695,007	78	121,410	1,802	877,275	1,779	19	4	143,146	2,579,034	4,099,209
Jersey City, N. J	965	80,327,678	1,676	2,095,778	19,499	9,126,042	14,996	4,139	364	6,528,570	52,254,465	77,225,116
Johnson City, Tenn...	45	1,239,406	34	26,598	549	121,334	494	8	47	29,383	607,688	1,046,537
Johnston, R. I	13	2,026,139	43	45,732	729	230,348	318	345	66	88,745	1,924,454	2,619,146
Johnstown, N. Y.....	214	3,695,819	130	119,696	3,884	1,248,587	1,977	1,877	30	300,845	3,130,043	5,480,072
Johnstown, Pa.....	248	16,940,450	394	449,133	6,116	3,213,189	5,918	98	100	1,922,080	14,445,126	22,559,890
Joliet, Ill.....	455	15,452,196	407	359,105	6,523	3,957,529	6,271	213	39	1,718,339	17,891,836	27,765,104
Joplin, Mo	123	1,411,495	52	58,808	951	516,080	875	66	10	110,962	1,854,817	2,961,793
Junction City, Kans...	66	229,677	3	2,400	184	83,776	145	30	9	13,252	449,507	652,861
Kalamazoo, Mich	268	5,796,195	513	443,407	4,293	1,617,299	2,990	1,267	36	624,914	4,257,010	8,056,908
Kankakee, Ill.....	125	900,739	31	38,136	893	377,863	792	86	15	90,126	578,303	1,334,702
Kansas City, Kans	492	18,633,475	2,075	1,918,251	10,544	4,886,259	9,384	812	348	2,643,077	70,386,491	82,768,943
Kansas City, Mo.....	1,797	26,437,307	1,514	1,449,221	15,381	7,783,552	11,814	3,268	299	3,545,069	18,214,198	36,527,392
Kaukauna, Wis	71	1,315,646	37	41,514	667	300,827	619	45	3	97,158	803,552	1,424,047
Kearney, Nebr.....	84	379,769	18	12,260	364	120,890	209	105	50	22,793	248,223	498,586
Kearney, N. J	33	2,097,861	33	47,520	1,102	417,985	607	333	162	127,612	1,081,948	1,845,587
Keene, N. H	160	2,305,729	115	98,536	1,882	842,373	1,453	350	29	131,557	1,682,221	3,083,149
Kendallville, Ind.....	39	753,180	29	25,165	407	150,511	387	18	2	147,333	306,324	936,880
Kennebunk, Me	45	747,024	33	32,970	579	229,176	432	135	12	69,058	485,372	936,399
Kenosha, Wis.....	71	5,946,975	105	187,301	3,149	1,332,380	2,527	347	275	360,411	5,106,209	7,488,366
Kent, Ohio.....	59	723,218	24	18,836	945	405,237	875	69	1	18,195	1,079,937	1,599,562
Kenton, Ohio	95	886,687	59	47,068	653	266,299	592	61	.....	94,815	540,074	1,118,629
Keokuk, Iowa	188	2,103,335	349	436,067	1,665	614,580	1,145	440	80	196,578	1,882,227	3,660,047
Kewanee, Ill.....	89	2,190,263	135	136,932	2,696	1,070,196	2,364	205	127	84,077	2,895,801	4,468,251
Key West, Fla	92	1,839,194	61	85,319	1,969	1,164,835	1,557	410	2	534,388	1,395,972	3,403,607
Killingly, Conn.....	74	2,174,445	35	46,402	1,263	441,033	793	424	46	131,734	811,679	1,705,997
Kingston, N. Y.....	344	3,657,551	169	158,913	2,685	1,245,557	2,161	503	21	327,143	2,560,822	5,280,478
Kittery, Me	8	8,627	.....	.....	9	3,471	9	.....	.....	314	7,662	16,129
Knoxville, Tenn.....	218	5,151,130	268	257,387	4,714	1,473,543	3,096	1,336	282	306,795	3,877,772	6,943,595
Kokomo, Ind	136	2,533,909	134	101,949	1,747	707,888	1,511	224	12	219,510	1,308,899	2,724,859
Laconia, N. H.....	139	1,964,510	42	49,193	1,682	641,306	1,071	595	16	113,970	1,293,192	2,389,202
La Crosse, Wis.....	255	7,230,360	300	310,436	3,009	1,105,985	2,231	733	45	864,006	4,965,850	8,281,749
Lafayette, Ind	234	3,061,476	316	276,644	1,756	767,079	1,388	361	7	286,049	2,322,364	4,310,730
La Grande, Oreg.....	64	609,682	11	10,426	230	130,953	215	14	1	27,343	300,044	560,535
La Grange, Ga	24	956,899	11	11,150	709	131,684	324	174	211	38,405	459,966	783,867
Lambertville, N. J....	70	1,763,221	72	76,407	913	367,959	808	99	6	130,697	1,383,515	2,264,223
Lancaster, N. H.....	52	303,204	12	10,840	195	86,669	175	20	.....	39,586	272,433	507,298
Lancaster, Ohio.....	100	1,537,272	81	68,017	1,287	614,609	865	319	103	97,284	1,197,266	2,219,695
Lancaster, Pa.....	738	10,803,464	427	398,984	9,349	3,323,748	5,585	2,954	810	1,193,997	8,342,709	16,370,281
Lansford, Pa	24	208,116	3	2,550	283	119,815	270	9	4	3,728	200,274	348,517
Lansing, Mich	164	2,018,219	176	138,613	1,575	647,788	1,358	212	5	188,327	1,364,831	2,827,842
Lansingburg, N. Y....	127	2,957,650	128	261,345	2,940	1,128,803	913	1,968	59	340,563	1,598,204	3,778,277
Laporte, Ind	96	2,849,165	116	117,289	989	379,097	827	159	3	127,086	1,194,572	2,247,659
Laramie, Wyo	29	323,471	14	16,348	390	207,991	380	4	6	29,252	311,548	644,291
Lasalle, Ill.....	81	2,095,850	68	177,736	1,057	524,261	991	43	23	79,042	2,509,284	3,563,947
Lawrence, Kans	128	875,638	86	46,109	946	335,189	776	157	13	67,859	1,174,357	1,842,199
Lawrence Mass	546	49,914,035	681	1,011,243	22,358	8,972,310	12,998	8,542	818	2,210,145	26,175,644	44,703,278
Lawrenceburg, Ind...	51	1,047,246	48	58,635	674	287,888	624	30	20	90,613	1,632,815	2,250,034
Leadville, Colo.....	115	3,632,766	49	75,468	1,376	854,095	1,352	20	4	94,829	5,061,979	6,436,680
Leavenworth, Kans...	220	3,207,111	232	211,761	1,750	833,576	1,556	140	54	252,029	2,822,127	4,721,373
Lebanon, Ind.....	66	258,720	12	6,542	291	105,958	255	31	5	17,004	343,364	588,879
Lebanon, N. H.....	80	1,351,326	45	39,430	747	277,398	468	277	2	41,659	887,600	1,534,628
Lebanon, Ohio.....	72	223,705	6	2,229	179	84,902	159	18	2	9,400	334,820	571,832
Lebanon, Pa.....	219	7,756,390	201	210,477	5,613	2,245,809	4,554	846	213	350,716	6,512,892	10,167,455
Lee, Mass	71	1,209,509	42	59,611	620	274,004	424	195	1	71,200	483,569	1,168,328
Leetonia, Ohio.....	32	2,121,818	34	41,846	496	280,162	488	6	2	102,977	1,943,900	2,725,467
Lehi City, Utah.....	16	1,267,570	10	19,660	73	103,804	70	2	1	53,680	368,847	721,981
Lehighton, Pa	42	648,281	30	22,105	380	99,715	208	135	37	38,955	414,945	691,705

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Leicester, Mass	20	$970,246	13	$16,217	647	$266,210	376	246	25	$39,781	$641,288	$1,063,669
Le Mars, Iowa	69	555,662	16	16,700	190	85,804	170	20	.....	52,658	690,859	956,680
Lemont, Ill	44	390,308	27	26,462	260	103,597	162	71	27	44,033	89,358	324,162
Leominster, Mass	167	3,987,611	158	167,179	3,623	1,600,186	2,439	1,137	47	368,417	2,986,707	5,856,174
Leroy, N. Y	62	1,955,988	158	101,176	430	158,232	334	94	2	262,162	497,716	1,137,210
Lestershire, N. Y	40	1,577,367	53	29,266	1,891	712,333	1,321	520	50	115,039	2,941,777	3,964,112
Lewisburg, Pa	36	389,487	11	7,564	260	82,927	188	72	.....	11,286	310,212	469,221
Lewiston, Me	282	10,984,871	181	202,483	7,159	2,509,030	3,837	3,164	158	596,854	4,103,801	8,581,354
Lewistown, Pa	64	1,011,949	22	21,337	563	223,705	523	31	9	41,760	562,710	984,234
Lexington, Ky	272	1,707,118	167	117,933	1,464	556,613	1,236	200	28	263,536	1,492,152	3,033,007
Lexington, Va	26	49,658	8	3,770	51	16,039	47	4	.....	7,524	28,874	77,564
Lima, Ohio	195	5,487,584	208	166,716	2,223	1,050,780	1,838	384	1	277,408	4,156,028	6,705,136
Lincoln, Ill	88	470,892	36	18,647	323	140,597	279	40	4	48,197	287,892	642,375
Lincoln, Nebr	250	2,608,992	244	207,544	1,736	789,356	1,485	233	18	266,160	2,173,345	4,105,951
Lincoln, R. I	41	6,134,320	43	99,020	2,645	990,769	1,331	1,145	169	105,449	1,817,256	3,743,875
Lisbon, Me	42	2,480,636	37	53,985	998	364,775	702	278	18	141,628	1,038,116	1,820,291
Litchfield, Ill	54	303,967	11	8,750	216	95,558	192	16	8	18,845	99,024	292,278
Little Falls, Minn	52	2,508,745	32	41,705	608	264,555	587	11	5	93,261	1,416,892	2,139,427
Little Falls, N. Y	124	4,020,573	106	120,499	3,112	1,125,777	1,607	1,385	120	298,162	2,361,593	4,364,994
Little Rock, Ark	171	3,434,393	292	249,943	2,751	1,384,722	2,512	191	48	295,156	1,990,081	4,723,118
Littleton, N. H	71	670,392	16	15,942	675	215,877	426	227	22	27,103	568,993	952,829
Lockland, Ohio	56	2,313,049	68	89,977	596	230,750	559	24	13	228,010	1,232,579	2,300,960
Lockport, Ill	41	634,098	24	31,200	255	113,464	240	12	3	37,053	1,168,118	1,434,046
Lockport, N. Y	243	6,250,709	245	238,799	2,699	1,217,672	2,178	504	17	398,660	3,327,109	5,887,905
Logan, Utah	63	279,952	25	13,430	181	62,081	105	65	11	14,453	218,491	375,055
Logansport, Ind	170	1,969,073	78	54,674	1,627	730,494	1,422	187	18	139,096	1,286,651	2,681,784
Lorain, Ohio	59	12,343,937	116	111,880	2,221	1,115,589	2,098	83	40	615,457	6,544,799	9,547,952
Los Angeles, Cal	1,415	11,742,838	939	840,855	8,044	3,992,733	6,389	1,465	190	1,513,393	10,572,660	21,297,537
Louisiana, Mo	75	453,470	38	63,314	319	90,531	220	94	5	233,318	365,794	908,088
Louisville, Ky	2,307	49,334,701	2,893	2,929,141	29,926	10,945,720	23,348	5,175	1,403	13,145,595	41,016,391	78,746,390
Lowell, Mass	981	46,578,193	820	992,781	31,377	11,821,633	17,082	12,986	1,309	4,639,877	21,727,844	44,774,525
Ludington, Mich	61	1,852,865	30	32,195	763	350,674	674	71	18	83,810	1,188,854	2,188,412
Ludlow, Ky	35	462,807	30	21,411	726	382,995	695	27	4	34,381	566,689	1,077,556
Lynchburg, Va	168	3,445,557	111	109,247	2,452	731,206	1,822	446	184	684,713	2,331,380	4,503,037
Lyndon, Vt	38	159,129	39	18,424	71	20,501	54	16	1	24,352	91,049	221,290
Lynn, Mass	776	17,011,761	1,231	980,868	17,492	8,576,042	12,352	5,035	105	2,270,595	25,456,798	41,633,845
Lyons, N. Y	80	713,840	62	27,807	288	119,395	254	33	1	45,061	546,390	881,939
McKeesport, Pa	180	17,876,016	523	497,822	7,605	4,370,381	7,331	96	178	428,226	22,309,161	37,074,136
McKees Rocks, Pa	34	14,990,471	220	90,188	2,055	1,206,476	2,010	2	43	539,720	2,517,940	4,288,935
McPherson, Kans	35	138,602	7	3,200	67	26,410	55	12	.....	7,279	246,630	330,714
Macomb, Ill	73	425,871	32	22,142	364	142,474	314	29	21	28,417	165,899	465,453
Macon, Ga	182	5,076,005	263	272,138	3,700	1,047,437	2,762	669	269	445,078	3,741,167	6,495,767
Madison, Ind	111	1,553,444	74	63,362	1,011	346,832	699	296	16	107,266	1,176,754	2,145,838
Madison, Wis	195	3,840,042	219	178,080	1,805	826,596	1,616	160	29	347,383	1,457,887	3,508,808
Mahanoy City, Pa	99	607,059	31	20,488	474	131,582	270	180	24	119,879	230,275	648,645
Malden, Mass	242	5,906,279	129	133,575	3,082	1,520,658	1,907	1,132	43	790,518	4,607,400	7,959,292
Malone, N. Y	116	593,853	26	19,114	508	201,364	381	125	2	32,610	581,929	985,797
Manchester, Conn	93	7,330,806	137	217,290	3,118	1,370,656	1,870	1,224	24	194,812	3,084,627	5,939,943
Manchester, N. H	577	22,426,125	344	456,258	19,032	7,030,966	10,302	8,236	494	1,548,205	14,755,640	26,607,600
Manchester, Va	36	763,043	63	56,089	923	372,809	781	114	28	56,641	1,178,131	1,746,192
Manhattan, Kans	50	126,820	8	4,770	82	31,382	64	18	.....	9,468	142,411	253,963
Manheim, Pa	58	157,490	9	3,634	334	76,903	138	179	17	36,158	273,015	450,698
Manistee, Mich	140	5,608,707	105	99,194	1,745	772,354	1,637	76	32	265,974	1,840,630	3,886,420
Manitowoc, Wis	135	2,581,869	84	79,525	1,146	427,218	1,044	99	3	230,858	1,018,440	2,268,348
Mankato, Minn	135	1,371,907	92	78,185	683	242,742	503	137	43	87,620	1,513,182	2,242,000
Mansfield, Mass	52	557,480	23	51,314	571	274,840	412	159	.....	25,428	485,531	1,035,804
Mansfield, Ohio	251	5,760,746	354	317,359	3,160	1,217,457	2,460	692	8	307,182	3,195,033	7,084,509
Marblehead, Mass	100	469,859	15	11,476	1,032	411,372	743	289	.....	35,175	811,180	1,410,406
Marietta, Ga	32	697,254	40	34,719	680	179,457	588	24	68	37,974	385,439	762,688
Marietta, Ohio	278	2,189,345	151	122,607	2,183	938,315	1,912	197	44	214,726	1,899,637	3,895,498
Marietta, Pa	37	849,538	30	24,760	674	210,151	492	153	29	33,986	651,529	1,125,701
Marine City, Mich	38	249,362	9	5,620	148	69,582	141	7	.....	14,847	173,740	298,537
Marinette, Wis	103	8,070,648	92	129,727	1,833	713,937	1,693	128	12	329,036	2,495,581	4,659,712
Marion, Ind	163	3,587,672	190	160,149	3,109	1,475,371	2,513	306	290	296,907	2,487,417	5,170,435
Marion, Iowa	55	113,970	2	1,800	79	35,066	62	17	.....	9,627	117,978	244,545
Marion, Ohio	84	3,340,321	132	126,013	1,552	699,065	1,466	64	22	306,033	1,200,756	2,841,903
Marlboro, Mass	142	2,191,860	74	100,752	2,780	1,304,301	1,791	900	89	183,801	3,057,414	4,986,399
Marlin, Tex	40	282,792	2	2,614	93	37,042	87	5	1	13,063	182,550	330,570
Marquette, Mich	78	1,565,390	61	71,416	645	344,930	604	41	.....	186,411	1,128,736	2,005,486
Marshall, Mich	86	461,692	100	37,940	336	144,280	276	59	1	135,842	322,695	820,254
Marshall, Tex	46	892,316	28	28,555	638	383,315	612	16	10	51,300	674,750	1,283,847
Marshalltown, Iowa	147	5,866,270	107	109,286	1,399	654,227	1,306	89	4	190,154	3,120,658	4,587,240
Marshfield, Wis	63	429,526	19	17,740	372	135,354	334	21	17	46,689	349,313	709,144
Martinsburg, W. Va	101	1,633,024	56	46,384	1,105	282,921	606	442	57	113,757	832,551	1,410,514
Martins Ferry, Ohio	50	1,802,871	59	66,888	967	543,416	836	106	25	90,518	1,953,872	2,968,648
Martinsville, Va	22	461,780	51	41,260	810	110,131	403	141	266	304,280	262,233	781,286
Marysville, Ohio	47	179,325	9	5,950	236	82,699	210	25	1	20,506	165,241	347,283
Maryville, Mo	69	180,075	9	3,890	155	66,789	126	24	5	15,489	160,015	333,883
Mason City, Iowa	89	351,868	26	19,336	376	167,211	322	52	2	21,013	330,110	705,460
Massillon, Ohio	134	4,444,400	122	121,335	1,836	914,245	1,677	53	106	172,155	1,563,257	3,404,012

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS, AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Matteawan, N. Y.	43	$1,119,745	40	$97,449	785	$322,633	580	161	44	$77,365	$643,749	$1,224,025
Mattoon, Ill	138	549,525	41	23,072	866	386,980	775	83	8	80,556	550,616	1,232,821
Mauch Chunk, Pa	34	366,370	15	14,312	323	143,714	294	28	1	22,802	251,282	506,252
Mayfield, Ky	45	954,448	10	8,040	324	100,992	149	160	15	13,001	373,253	607,499
Maynard, Mass	43	2,349,645	26	68,517	838	345,480	566	221	51	48,569	833,742	1,534,008
Maysville, Ky	95	1,125,147	60	50,793	644	194,055	473	100	71	52,770	621,730	1,207,560
Meadville, Pa	135	1,415,783	97	74,532	1,445	648,020	1,250	194	1	77,057	1,099,379	2,159,110
Mechanicsburg, Pa	58	482,155	25	13,920	444	173,840	358	71	15	22,811	313,820	636,083
Mechanicsville, N. Y.	66	2,652,410	32	74,356	1,150	505,732	898	246	6	261,641	1,014,400	2,186,005
Medford, Mass	141	1,328,106	65	73,862	968	487,793	884	72	12	117,441	896,460	1,907,624
Media, Pa	40	235,997	5	4,410	170	75,309	162	8	.....	27,418	87,575	279,436
Medina, N. Y	54	786,744	41	39,661	568	217,835	511	31	26	31,675	510,854	1,032,632
Melrose, Mass	106	3,296,048	84	88,068	1,428	695,422	865	549	14	456,120	2,403,575	3,945,580
Memphis, Tenn	659	11,189,249	513	625,135	8,433	3,641,435	7,660	586	187	1,078,649	9,656,909	17,923,059
Menasha, Wis	57	3,439,690	48	68,477	1,575	570,019	1,372	147	56	212,065	1,305,592	2,751,270
Menominee, Mich	90	5,451,446	93	133,565	1,968	912,016	1,895	63	10	287,816	2,615,528	4,685,324
Menominee, Wis	50	3,498,474	45	47,196	698	323,412	655	15	28	65,637	977,536	1,533,139
Meriden, Conn	260	16,699,004	435	690,756	7,531	3,702,240	6,021	1,435	75	1,085,142	5,861,612	13,485,640
Meridian, Miss	119	1,923,590	70	75,151	1,416	555,409	1,241	97	78	131,938	1,700,655	2,980,217
Merrill, Wis	69	3,520,126	44	67,158	1,694	667,757	1,540	28	126	130,628	2,329,566	4,150,272
Merrimac, Mass	40	252,812	9	10,140	252	114,739	250	2	.....	16,924	200,791	391,793
Methuen, Mass	74	1,203,412	21	23,931	726	302,934	457	243	26	81,315	694,506	1,273,920
Metropolis, Ill	44	259,481	9	8,892	243	86,442	176	25	42	16,100	241,357	451,325
Mexico, Mo	84	261,617	10	5,600	194	68,230	165	32	7	23,423	215,074	415,894
Miamisburg, Ohio	66	1,500,248	53	64,199	1,006	400,143	817	170	19	83,122	1,300,713	2,131,005
Michigan City, Ind	82	4,242,355	91	104,119	2,930	1,045,245	2,430	367	133	267,048	4,007,823	6,129,001
Middleboro, Mass	110	1,034,730	51	34,870	1,081	510,724	845	227	9	101,421	1,293,425	2,298,946
Middleport, Ohio	38	197,039	19	11,204	225	69,325	200	8	17	13,022	154,866	338,312
Middletown, Conn	188	5,100,485	155	171,400	2,916	1,199,713	1,969	790	157	237,604	2,636,493	4,825,649
Middletown, Ind	23	430,087	7	5,733	267	185,482	264	2	1	19,733	599,597	926,917
Middletown, N. Y	108	2,060,834	58	58,778	1,553	650,123	1,159	376	18	97,252	1,443,489	2,426,001
Middletown, Ohio	92	4,207,731	264	319,825	1,951	770,656	1,478	467	11	2,112,601	3,056,601	6,665,226
Middletown, Pa	50	2,323,876	48	52,099	1,572	556,818	1,372	129	71	52,608	3,269,223	5,198,286
Milford, Conn	43	365,464	19	22,833	325	137,326	199	116	10	15,447	244,282	502,036
Milford, Mass	129	1,240,782	84	76,202	1,554	773,144	1,102	420	32	103,886	1,636,739	3,071,493
Milford, N. H	77	856,565	36	31,275	646	276,876	494	138	14	74,915	524,790	1,027,824
Millbury, Mass	54	1,047,897	18	18,240	694	270,862	439	230	25	43,455	579,605	1,082,294
Millvale, Pa	37	319,149	20	13,862	119	70,609	115	2	2	80,649	174,499	466,389
Millville, N. J	47	3,229,206	154	161,398	2,290	1,115,696	1,569	433	288	177,308	964,554	2,610,332
Milton, Mass	58	291,284	10	5,392	335	189,920	290	41	4	33,278	271,787	675,793
Milton, Pa	60	1,950,893	57	58,398	1,421	534,674	1,228	154	39	86,020	1,885,416	2,912,209
Milwaukee, Wis	3,342	110,363,854	4,352	4,481,829	48,328	20,240,656	37,836	7,501	2,991	16,690,165	65,118,719	123,786,449
Minersville, Pa	36	75,177	1	520	84	25,290	35	46	3	11,821	87,705	167,798
Mingo Junction, Ohio	12	2,921,086	32	72,530	944	566,645	943	1	.....	131,395	5,526,128	7,563,573
Minneapolis, Minn	2,368	57,708,204	2,606	2,428,396	26,608	12,708,523	22,328	4,090	190	5,237,162	78,175,735	110,943,043
Mishawaka, Ind	56	3,942,030	166	260,754	1,761	843,922	1,627	132	2	184,419	1,474,313	3,176,773
Moberly, Mo	84	551,453	45	41,863	766	353,641	717	34	15	42,120	421,410	950,664
Mobile, Ala	222	3,294,238	203	173,810	2,827	1,139,605	2,686	83	58	272,987	2,046,400	4,451,062
Moline, Ill	157	11,165,701	353	385,237	4,438	2,289,722	4,318	67	53	534,861	4,922,344	10,000,282
Monmouth, Ill	101	1,076,184	73	67,183	817	386,279	750	56	11	60,020	664,843	1,483,535
Monongahela, Pa	58	805,861	30	25,944	438	288,310	414	17	7	56,285	337,720	841,155
Monroe, Mich	86	374,889	32	17,317	372	139,505	338	29	5	40,001	324,186	632,495
Monroe, Wis	62	821,026	14	7,838	217	86,813	189	24	4	58,712	200,530	455,899
Monson, Mass	43	690,481	14	17,850	523	234,606	355	163	5	64,438	410,372	876,123
Montague, Mass	60	2,653,595	47	81,039	1,208	554,186	887	264	57	113,694	847,319	1,985,693
Montclair, N. J	197	1,037,352	30	29,550	1,092	619,079	1,029	62	1	93,462	1,140,753	2,246,817
Montgomery, Ala	163	2,930,782	204	163,537	2,359	802,188	1,856	360	143	342,890	2,902,954	5,035,190
Montpelier, Ind	60	196,862	5	2,900	238	123,080	219	19	.....	9,611	346,119	638,640
Montpelier, Vt	121	950,624	57	53,433	1,019	510,450	919	99	1	66,065	614,969	1,591,958
Montville, Conn	27	1,229,620	32	42,873	655	215,810	420	203	32	50,514	788,588	1,252,067
Moorhead, Minn	23	134,034	6	4,310	77	39,010	71	3	3	9,525	372,341	490,243
Morris, Ill	103	848,765	27	50,169	521	162,672	454	29	38	126,896	729,675	1,273,095
Mt. Carmel, Ill	52	249,527	5	3,681	213	83,506	206	6	1	9,460	131,125	285,066
Mt. Clemens, Mich	78	403,273	20	13,394	328	130,212	312	14	2	48,410	220,980	533,207
Mt. Holly, N. J	61	460,559	28	21,180	493	167,178	286	185	22	34,014	388,130	699,188
Mt. Morris, N. Y	51	341,799	15	11,560	247	76,412	148	82	17	25,711	313,038	510,129
Mt. Pleasant, Mich	58	242,593	17	15,716	262	90,626	245	17	.....	18,178	187,163	389,916
Mt. Sterling, Ky	52	253,825	9	6,004	131	35,163	110	19	2	15,059	140,268	263,954
Mt. Vernon, Ill	45	409,489	15	18,304	384	169,898	358	16	10	17,787	976,524	1,249,744
Mt. Vernon, Ind	86	713,217	22	15,112	362	147,567	347	10	5	31,486	999,168	1,382,349
Mt. Vernon, Ohio	93	830,061	62	52,345	853	383,638	799	54	.....	53,773	1,073,247	1,716,532
Muncie, Ind	347	7,793,832	227	319,109	6,294	3,067,748	5,703	448	143	506,279	6,690,155	12,106,648
Murphysboro, Ill	61	504,139	25	25,333	392	176,925	353	15	24	92,474	455,635	896,741
Muscatine, Iowa	247	3,725,971	140	132,675	2,835	1,055,904	2,312	364	159	212,703	3,773,379	5,791,110
Muskegon, Mich	200	4,602,390	172	153,976	3,235	1,185,697	2,553	560	122	386,488	2,631,279	5,097,059
Nanticoke, Pa	73	328,414	12	6,166	207	73,161	114	42	51	47,646	194,244	399,678
Napa, Cal	76	1,054,634	31	23,030	534	203,857	359	153	22	86,688	795,285	1,245,105
Napolean, Ohio	78	448,500	13	7,395	233	91,822	205	27	1	25,045	295,390	541,572
Nashua, N. H	251	9,587,390	207	204,657	6,442	2,633,398	4,221	2 184	87	574,497	6,470,716	11,037,676
Nashville, Tenn	489	13,173,422	1,048	888,467	8,447	2,889,241	6,360	1,700	387	1,440,394	10,472,173	18,469,823

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Natchez, Miss	48	$1,389,691	47	$38,418	746	$209,556	493	163	90	$130,764	$704,037	$1,270,885
Natick, Mass	154	1,061,320	40	30,149	1,502	726,137	1,089	397	16	146,368	2,094,150	3,298,777
Naugatuck, Conn	75	6,673,684	83	121,944	3,297	1,665,944	2,224	1,041	32	323,834	6,152,981	9,126,199
Nebraska City, Nebr	108	1,576,857	48	54,840	739	269,796	585	143	11	168,662	3,625,177	4,582,554
Neenah, Wis	74	2,183,170	43	47,256	616	278,096	485	123	8	67,774	980,158	1,642,414
Negaunee, Mich	32	68,467	2	480	68	35,874	56	10	2	5,583	57,417	143,432
Nelsonville, Ohio	39	224,179	11	8,190	200	80,115	182	13	5	12,107	117,257	258,148
Nevada, Mo	81	437,924	30	19,405	403	190,232	370	29	4	38,160	693,372	1,046,616
New Albany, Ind	208	2,996,512	110	107,676	2,430	843,680	1,796	596	38	231,771	2,364,188	4,179,496
Newark, N. J	3,339	103,191,403	4,509	5,534,869	49,550	23,999,442	37,094	11,133	1,323	10,050,907	67,105,944	126,954,049
Newark, N. Y	77	555,332	26	14,059	361	123,893	248	101	12	51,418	517,257	900,974
Newark, Ohio	208	1,793,448	158	124,412	2,364	925,443	2,008	281	75	228,797	1,417,157	3,423,186
New Bedford, Mass	618	29,078,410	487	566,457	16,409	6,730,793	9,704	5,759	946	1,703,408	12,727,776	25,681,671
Newbern, N. C	81	1,027,885	45	36,630	1,162	284,952	1,033	93	36	39,476	1,069,070	1,704,251
Newberry, S. C	34	1,336,625	27	19,840	811	175,178	455	206	150	91,724	640,204	1,200,892
New Brighton, Pa	68	2,903,449	90	119,447	1,482	590,589	1,207	200	75	108,677	1,003,463	2,195,552
New Britain, Conn	226	14,115,610	466	545,057	8,438	3,841,117	6,542	1,681	215	956,848	5,074,396	12,260,782
New Brunswick, N. J	193	6,028,086	218	260,992	3,726	1,256,034	2,095	1,442	189	661,944	2,929,882	5,812,757
Newburg, N. Y	253	5,214,536	310	287,839	3,926	1,665,177	2,622	1,223	81	354,456	3,123,590	6,497,088
Newburyport, Mass	195	3,863,199	212	206,247	3,076	1,326,719	2,073	961	42	358,728	3,258,571	5,685,768
Newcastle, Del	31	1,449,395	26	20,285	608	243,724	480	71	57	50,201	1,450,022	1,838,288
Newcastle, Ind	54	363,190	25	21,878	268	90,589	228	40	.....	22,959	288,376	538,513
Newcastle, Pa	216	13,308,220	198	243,689	4,992	3,226,669	4,754	174	64	491,336	13,646,648	21,046,842
New Decatur, Ala	30	1,348,871	56	51,784	1,521	700,196	1,510	4	7	81,286	1,833,549	2,976,919
New Hartford, Conn	27	870,874	14	17,674	1,006	289,244	489	429	88	37,237	626,927	1,089,322
New Haven, Conn	1,236	30,463,066	1,660	1,590,241	20,536	10,016,571	15,393	4,884	259	3,181,004	18,493,593	40,762,015
New Haven, Pa	22	40,401	1	750	46	20,941	39	7	.....	2,203	44,473	90,002
New Holland, Pa	23	76,843	4	3,782	81	23,894	51	26	4	36,196	78,425	165,687
New London, Conn	238	4,522,003	137	131,401	2,658	1,196,218	1,881	761	16	501,879	2,804,636	5,569,615
Newmarket, N. H	29	1,261,519	9	15,429	790	267,124	379	383	28	57,884	575,577	1,044,793
New Milford, Conn	58	783,294	41	47,053	526	253,231	438	84	4	62,530	412,697	907,907
Newman, Ga	27	824,721	29	25,056	456	102,567	360	49	47	43,451	403,963	679,189
New Orleans, La	1,524	46,003,604	1,837	1,819,458	19,435	7,645,167	13,582	5,135	718	4,759,877	48,361,525	63,514,505
New Philadelphia, Ohio	124	859,493	43	35,179	653	482,182	556	92	5	86,576	905,007	1,820,296
Newport, Ky	272	2,848,485	132	142,404	2,561	1,155,361	1,885	639	37	866,620	2,017,773	4,888,169
Newport, N. H	63	610,424	39	37,524	737	278,771	366	371	.....	39,781	789,017	1,274,829
Newport, R. I	290	2,495,679	79	63,356	1,749	1,012,782	1,532	207	10	357,015	1,406,811	3,442,988
Newport, Vt	23	293,336	12	16,016	245	84,837	184	54	7	19,504	353,444	549,522
Newport News, Va	123	14,999,735	144	214,117	5,675	2,556,938	5,303	49	323	297,411	3,369,545	6,976,670
New Rochelle, N. Y	131	3,837,269	54	38,422	715	457,658	676	35	4	118,898	838,829	1,811,332
Newton, Iowa	86	443,133	64	43,165	312	121,843	225	86	1	44,768	244,402	666,727
Newton, Kans	76	368,413	23	18,441	404	201,415	373	30	1	38,751	652,370	982,475
Newton, Mass	297	5,105,196	134	166,646	3,094	1,581,887	2,624	445	25	388,922	3,065,921	6,322,232
Newtown, Conn	29	449,505	12	21,250	312	146,122	290	22	.....	23,737	597,998	878,610
New Ulm, Minn	90	1,097,616	42	55,279	423	183,987	395	25	3	128,660	1,706,462	2,328,347
New Whatcom, Wash.	71	448,219	20	19,618	359	195,894	338	13	8	31,345	293,237	643,931
New York, N. Y	39,776	921,876,081	48,011	55,645,464	462,763	245,021,881	326,299	130,691	5,773	163,170,343	709,109,412	1,371,358,468
Niagara Falls, N. Y	265	14,821,819	398	420,499	3,518	1,690,195	2,951	557	10	862,125	5,511,437	9,909,228
Niles, Mich	78	901,507	34	26,218	620	223,603	502	117	1	29,273	731,415	1,183,793
Niles, Ohio	64	2,745,374	100	95,241	1,641	1,231,629	1,617	24	.....	123,647	3,441,219	5,758,129
Noblesville, Ind	56	1,016,790	28	33,180	593	242,055	566	26	1	50,885	868,981	1,426,287
Norfolk, Va	445	6,425,099	333	266,227	4,334	1,571,229	3,206	1,023	105	701,597	5,283,975	9,397,355
Normal, Ill	21	170,695	7	6,800	124	45,167	91	32	1	76,378	191,753	349,255
Norristown, Pa	210	4,069,449	168	182,100	3,429	1,168,942	1,744	1,458	227	418,854	2,467,861	4,821,745
North Adams, Mass	231	14,563,492	267	472,324	6,796	2,949,010	4,585	1,890	321	836,345	5,410,262	11,682,663
Northampton, Mass	214	2,728,140	103	112,875	2,406	1,140,655	1,795	581	30	274,017	1,974,433	4,193,486
North Andover, Mass	34	1,225,212	34	41,492	873	420,053	717	139	17	70,511	655,002	1,345,589
North Attleboro, Mass	116	2,014,999	156	157,509	2,162	1,160,052	1,458	694	10	137,087	1,609,569	3,990,731
North Baltimore, Ohio	39	193,793	8	7,820	112	49,048	96	16	.....	16,052	100,695	243,882
North Berwick, Me	21	312,279	5	5,500	229	71,006	152	77	.....	23,307	206,230	343,041
Northbridge, Mass	31	3,826,408	44	143,384	2,648	1,130,404	2,106	434	108	77,821	1,140,798	3,028,661
North Brookfield, Mass	51	962,164	33	52,935	1,307	643,835	947	344	16	79,458	2,073,095	3,018,676
Northfield, Vt	56	356,110	11	9,100	276	112,263	209	67	.....	14,983	339,433	561,673
North Kingstown, R. I.	60	1,182,406	30	23,329	508	211,197	360	135	13	38,200	618,450	1,100,426
North Milwaukee, Wis.	20	1,124,214	65	68,441	944	356,298	910	.....	34	64,018	1,244,288	1,942,777
North Plainfield, N. J.	33	142,524	7	6,024	147	77,704	142	2	3	20,829	148,399	312,816
North Smithfield, R. I.	8	958,082	11	19,880	718	183,742	436	248	34	46,938	242,830	534,224
North Tonawanda, N. Y	75	5,026,841	139	149,761	1,718	786,639	1,591	118	9	282,107	4,321,875	6,445,836
Northumberland, Pa	16	238,768	13	6,196	267	74,940	136	122	9	6,786	224,827	360,928
Norwalk, Conn	247	4,129,841	124	150,776	3,172	1,586,509	2,350	791	31	296,075	2,261,195	5,097,720
Norwalk, Ohio	96	995,025	63	57,056	817	394,585	717	91	9	128,038	561,996	1,336,395
Norway, Me	40	368,801	14	13,040	430	166,027	272	158	.....	23,928	540,371	824,900
Norwich, Conn	273	8,566,437	189	238,460	4,411	1,983,600	3,220	1,051	140	619,238	4,321,078	8,388,343
Norwich, N. Y	109	1,308,683	90	79,053	799	330,166	604	191	4	115,134	801,821	1,556,696
Norwood, Mass	53	2,437,949	48	51,832	1,511	859,242	1,321	186	4	208,085	1,823,438	3,348,974
Norwood, Ohio	52	951,314	39	30,743	467	203,138	422	35	10	52,839	430,221	820,892
Nyack, N. Y	88	796,587	61	50,857	719	364,533	553	157	9	85,233	661,966	1,321,237
Oakland, Cal	752	6,364,651	347	319,263	4,012	2,129,598	2,928	919	165	620,459	4,277,647	9,174,257
Oconto, Wis	44	2,021,860	27	31,716	440	201,303	419	19	2	79,607	1,280,541	1,732,387
Oelwein, Iowa	37	614,599	15	10,660	511	279,922	500	10	1	10,081	337,360	674,637

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Ogden, Utah	157	$1,145,404	82	$58,360	869	$472,100	734	102	33	$97,050	$946,719	$1,801,487
Ogdensburg, N. Y	197	1,855,116	96	72,244	1,052	404,955	756	280	16	103,096	1,661,759	2,668,952
Oil City, Pa	158	4,578,287	119	147,572	1,992	1,038,173	1,872	117	3	161,228	4,742,848	6,710,886
Oklahoma, Okla	101	600,039	35	29,613	458	204,769	435	17	6	34,778	735,556	1,241,987
Olathe, Kans	50	125,780	2	1,004	140	60,676	111	19	10	29,456	170,356	339,098
Oldtown, Me	86	1,893,161	50	44,570	1,182	428,018	937	213	32	132,983	1,467,466	2,239,837
Olean, N. Y	152	5,915,740	152	132,928	2,011	935,932	1,914	62	35	274,447	5,009,818	6,624,390
Omaha, Nebr	838	34,478,014	1,026	907,155	7,537	3,804,076	6,209	1,238	90	3,864,988	22,211,573	43,168,876
Oneida, N. Y	104	1,301,431	69	64,752	790	336,266	618	166	6	149,576	342,851	1,613,572
Oneonta, N. Y	111	1,892,250	67	45,605	887	397,815	727	142	18	118,861	1,308,549	2,118,452
Opelika, Ala	30	148,275	22	12,490	214	48,023	206	6	2	10,948	206,280	335,071
Orange, Conn	52	1,017,066	26	34,296	531	252,425	426	87	18	58,522	1,542,471	2,168,435
Orange, Mass	81	2,770,120	82	116,118	1,315	635,682	1,093	207	15	132,429	1,217,293	2,602,253
Orange, N. J	284	1,937,457	77	79,758	2,712	1,428,284	2,287	391	34	232,682	2,259,135	4,694,335
Orange, Tex	18	3,321,868	31	41,495	764	356,005	756	2	6	50,055	924,243	1,666,203
Orangeburg, S. C	34	239,635	7	6,600	284	65,486	199	46	39	15,308	313,582	493,860
Oregon City, Oreg	37	2,733,966	28	108,197	994	367,904	866	102	26	175,062	1,145,674	2,060,173
Orono, Me	28	1,444,080	21	30,023	575	230,836	557	18	.....	92,186	704,991	1,345,535
Orwigsburg, Pa	27	268,522	45	19,706	453	133,189	248	177	28	15,625	406,423	648,223
Osage, Iowa	37	82,090	1	420	68	29,895	53	15	.....	6,795	120,174	202,405
Osawatomie, Kans	29	168,468	16	15,276	418	250,746	412	4	2	6,360	356,038	649,050
Oshkosh, Wis	285	8,018,038	278	268,479	4,587	1,762,410	3,629	620	338	616,564	4,742,744	8,781,248
Oskaloosa, Iowa	143	552,239	49	29,821	588	262,228	477	91	20	67,753	490,932	1,063,584
Ossining, N. Y[1]	137	1,357,816	52	94,593	892	445,238	752	140	.....	166,229	884,942	2,068,458
Oswego, N. Y	207	7,322,907	273	346,689	3,845	1,543,905	2,829	877	139	667,109	4,611,975	8,137,950
Otsego, Mich	28	531,776	24	19,886	458	143,282	319	139	.....	56,385	358,713	663,451
Ottawa, Ill	120	2,788,357	113	122,290	1,233	523,599	1,061	165	7	148,491	855,034	2,042,148
Ottawa, Kans	67	334,970	9	9,041	341	179,551	314	24	3	13,789	406,584	734,965
Ottumwa, Iowa	160	3,403,321	208	177,022	2,095	804,215	1,721	223	151	200,673	7,093,068	9,129,862
Owatonna, Minn	82	434,260	19	16,720	257	108,935	242	14	1	34,582	486,828	788,927
Owego, N. Y	82	1,023,961	53	47,318	402	183,524	374	22	6	38,602	780,769	1,261,161
Owensboro, Ky	159	3,308,056	189	112,767	1,582	424,736	1,198	269	115	215,675	2,060,368	3,446,605
Owosso, Mich	111	1,685,715	81	85,323	1,260	513,275	1,121	104	35	118,087	1,380,506	2,265,498
Paducah, Ky	171	2,689,121	136	108,137	2,305	918,603	1,967	189	149	233,926	1,703,324	3,627,344
Painesville, Ohio	77	513,621	34	27,872	488	165,403	442	43	3	36,914	319,300	693,949
Palmer, Mass	78	3,104,049	63	71,039	3,053	1,251,992	2,228	718	107	143,323	2,575,330	4,483,036
Pana, Ill	66	142,543	6	1,542	106	38,788	91	13	2	14,354	93,381	204,018
Paola, Kans	50	134,660	3	1,500	110	38,784	86	24	.....	16,729	223,237	331,297
Paris, Ill	107	466,252	39	30,722	420	164,745	371	39	10	32,150	569,131	979,075
Paris, Me	35	258,158	12	10,222	320	104,671	305	6	9	16,238	216,752	386,455
Park City, Utah	22	43,714	.....	.....	24	13,531	20	2	2	3,952	23,264	72,172
Parkersburg, W. Va	181	2,682,887	132	117,963	1,683	677,590	1,566	86	31	219,888	2,350,797	3,926,751
Parsons, Kans	83	584,706	17	11,629	631	292,237	570	52	9	34,325	531,447	1,025,409
Passaic, N. J	185	23,279,421	441	654,094	7,102	2,778,278	4,694	2,192	216	1,199,108	7,971,505	14,031,254
Paterson, N. J	995	43,510,481	1,242	1,617,999	30,190	12,812,538	19,242	9,502	1,446	5,059,521	26,882,183	52,287,975
Pawtucket, R. I	534	22,399,187	552	781,628	12,776	5,280,268	7,464	4,343	969	2,040,261	12,933,104	24,080,328
Peabody, Mass	161	4,437,229	148	150,379	2,881	1,384,126	2,703	174	4	245,513	4,583,297	7,261,647
Peekskill, N. Y	153	1,712,335	102	101,886	1,524	751,833	1,095	423	6	121,718	1,024,282	2,339,370
Pekin, Ill	118	2,431,244	69	83,376	787	384,654	764	21	2	9,458,651	1,929,943	12,268,021
Pembroke, N. H	41	592,855	14	11,275	762	227,820	429	227	106	11,310	417,418	775,563
Pen Argyl, Pa	31	392,615	9	4,660	336	177,873	233	103	.....	46,457	219,184	537,322
Penn Yan, N. Y	84	822,142	65	40,939	382	129,889	317	59	6	49,975	542,395	915,542
Peoria, Ill	871	27,971,613	767	768,574	8,022	3,901,186	6,945	1,021	56	25,122,825	14,986,348	48,871,596
Perth Amboy, N. J	129	6,637,766	161	186,396	2,258	1,058,242	2,182	52	24	435,833	11,631,704	14,730,928
Peru, Ill	49	2,277,845	72	99,298	1,164	541,197	1,047	89	28	274,244	1,787,073	3,114,759
Peru, Ind	103	1,147,288	67	49,589	1,271	470,919	1,127	105	39	81,165	819,593	1,620,889
Petaluma, Cal	86	712,003	19	15,108	366	155,332	265	96	5	59,014	516,814	971,670
Peterboro, N. H	43	643,599	19	11,971	364	133,462	228	134	2	20,469	285,982	531,346
Petersburg, Va	225	3,960,987	251	227,544	4,730	1,043,550	2,729	1,615	386	658,689	3,747,656	6,464,464
Philadelphia, Pa	15,887	476,529,407	19,113	20,154,836	246,445	111,847,076	172,011	61,688	12,746	55,575,685	326,877,441	603,466,526
Phillipsburg, N. J	87	3,411,239	77	106,413	2,560	1,000,331	1,938	611	11	244,560	2,906,360	4,952,277
Phoenix, Ala	6	33,595	2	800	16	4,548	16	.....	.....	5,361	7,644	22,350
Phoenixville, Pa	92	6,482,025	128	134,272	2,556	1,099,719	2,168	258	130	232,963	3,202,965	4,992,772
Pine Bluff, Ark	91	2,470,025	106	89,748	1,111	488,546	1,067	38	6	97,445	873,921	1,815,677
Piqua, Ohio	152	3,609,002	207	203,001	2,103	983,836	1,787	315	1	259,807	3,765,259	5,886,475
Pittsburg, Kans	82	808,055	28	27,037	994	475,772	946	36	12	45,654	986,828	1,616,976
Pittsburg, Pa	1,938	193,162,900	5,064	5,457,443	69,977	36,684,563	62,381	5,873	1,723	15,293,017	116,833,174	203,261,251
Pittsfield, Me	35	1,174,353	17	21,031	589	209,714	415	162	12	85,240	535,447	1,020,258
Pittsfield, Mass	261	6,084,849	229	255,527	3,863	1,627,790	2,380	1,372	111	548,483	3,616,578	7,135,770
Pittsfield, N. H	51	564,373	13	10,013	601	224,213	389	212	.....	16,562	625,112	1,092,069
Pittston, Pa	95	1,038,797	54	41,309	505	222,340	390	104	11	98,686	722,800	1,261,500
Plainfield, Conn	51	2,713,962	22	38,553	1,205	424,147	748	397	60	42,665	989,813	1,641,078
Plainfield, N. J	135	2,683,449	139	150,985	1,751	970,018	1,592	154	5	283,886	1,144,724	3,229,969
Plainville, Conn	35	399,775	13	16,291	337	136,815	213	110	14	17,664	232,533	460,471
Plaquemine, La	23	1,048,364	25	25,194	446	192,280	442	.....	4	19,747	419,023	766,044
Plattsburg, N. Y	131	2,210,045	69	45,424	852	306,284	564	282	6	102,839	716,467	1,455,150
Plattsmouth, Nebr	61	390,575	37	24,381	447	227,571	423	9	15	25,815	356,393	682,979
Plymouth, Ind	52	387,146	26	17,325	300	112,444	269	29	2	33,077	210,348	434,475
Plymouth, Pa	101	579,553	38	20,701	923	213,497	276	418	229	95,935	362,488	803,728
Pomeroy, Ohio	70	852,132	43	31,142	725	341,959	665	43	17	40,898	961,112	1,522,626

[1] Given as Sing Sing in 1890.

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Pontiac, Ill	52	$367,061	39	$47,580	437	$156,793	314	108	15	$27,878	$446,827	$770,048
Pontiac, Mich	106	1,393,867	110	79,726	1,315	512,161	1,132	180	3	96,587	1,754,582	2,793,499
Portage, Wis	72	468,925	42	32,919	324	104,742	182	125	17	47,560	228,802	502,234
Port Chester, N. Y	79	3,024,814	86	96,047	1,569	646,202	905	628	36	64,231	2,700,829	3,840,732
Port Huron, Mich	186	3,301,954	227	143,447	2,417	1,119,320	2,177	225	15	249,995	2,078,896	4,298,743
Port Jervis, N. Y	83	654,472	44	30,748	977	392,054	728	238	11	57,033	602,107	1,237,286
Portland, Conn	28	463,585	18	19,187	497	184,361	385	93	19	9,822	322,432	594,397
Portland, Ind	72	218,310	9	8,820	398	137,946	346	52	.....	16,001	261,274	592,552
Portland, Me	639	6,991,251	611	519,425	5,699	2,612,817	4,288	1,380	31	759,854	5,566,225	11,440,201
Portland, Oreg	1,064	13,331,500	806	844,847	8,572	4,347,876	7,220	1,211	141	1,186,072	13,312,036	23,451,132
Portsmouth, N. H	176	4,167,545	108	119,658	1,809	884,309	1,383	416	10	851,647	2,204,376	4,813,138
Portsmouth, Ohio	284	4,113,700	381	310,355	4,586	1,556,190	3,444	1,043	99	802,946	3,824,093	7,532,976
Portsmouth, Va	103	1,179,144	107	82,636	1,154	483,763	942	167	45	95,644	968,752	1,854,997
Port Washington, Wis	65	1,006,926	61	56,337	811	265,298	735	52	24	77,098	508,080	1,037,318
Pottstown, Pa	144	4,922,856	183	148,427	3,059	1,251,229	2,421	459	179	386,985	5,263,759	8,111,486
Pottsville, Pa	206	3,383,237	150	111,198	1,967	671,179	1,303	534	130	383,317	3,626,129	5,354,633
Poughkeepsie, N. Y	377	5,688,058	197	240,593	3,432	1,583,268	2,701	666	65	411,495	3,475,100	6,826,769
Poultney, Vt	49	437,656	9	7,530	349	112,689	343	6	.....	11,789	190,564	405,379
Presque Isle, Me	38	177,595	8	5,810	88	30,270	77	9	2	10,491	162,707	273,716
Preston, Conn	19	650,847	6	3,600	264	96,487	206	58	.....	38,256	288,890	477,428
Princeton, Ind	87	605,351	19	13,294	469	207,789	435	23	11	40,294	535,485	929,270
Proctor, Vt	5	2,465	.....	.....	2	625	.....	2	.....	125	3,079	6,010
Providence, R. I	1,933	83,513,679	2,766	3,239,419	44,978	19,998,362	31,198	12,090	1,690	5,815,066	46,357,130	88,168,897
Provo City, Utah	57	515,496	22	13,637	264	105,408	169	63	32	23,931	216,444	431,120
Pueblo, Colo	241	12,374,248	320	370,428	4,911	3,044,280	4,756	127	28	577,501	22,589,669	30,795,481
Putnam, Conn	93	2,019,685	43	48,009	1,631	537,087	849	664	118	122,376	1,097,136	1,928,803
Quincy, Ill	421	6,879,846	491	400,233	4,509	1,918,452	3,612	771	126	779,653	4,952,797	9,234,988
Quincy, Mass	339	2,208,197	126	108,392	2,546	1,378,853	2,264	281	1	253,703	1,300,260	3,948,932
Racine, Wis	252	16,753,215	876	861,900	6,785	2,994,100	5,531	1,076	178	1,004,165	6,253,372	12,502,796
Rahway, N. J	100	915,208	42	36,184	778	407,490	621	156	1	69,085	502,048	1,149,247
Raleigh, N. C	135	1,611,089	146	97,464	1,358	441,038	981	222	155	107,133	1,203,099	2,204,056
Randolph, Mass	54	441,070	25	24,582	725	359,150	550	168	7	27,307	903,917	1,425,890
Rankin, Pa	12	4,962,354	73	62,535	1,622	983,867	1,574	.....	48	716,589	5,437,357	8,607,680
Raritan, N. J	27	659,471	11	17,400	1,010	299,970	580	314	116	268,974	442,409	1,088,280
Ravenna, Ohio	76	821,127	46	43,845	740	279,153	498	217	25	43,790	550,204	1,210,415
Reading, Mass	72	455,247	20	21,014	448	188,645	283	162	3	32,950	534,621	944,422
Reading, Pa	843	27,975,628	1,073	924,551	19,165	7,544,950	14,351	3,786	1,028	5,085,456	19,089,332	36,902,511
Red Wing, Minn	79	1,657,386	73	78,603	765	297,140	739	24	2	109,907	1,383,140	2,120,303
Reed City, Mich	55	272,790	6	4,095	260	103,051	235	18	7	30,567	291,488	536,451
Reedsburg, Wis	45	411,095	7	7,800	207	66,871	129	77	1	36,151	248,885	430,550
Reidsville, N. C	37	851,705	47	40,950	888	169,545	460	227	201	298,043	563,307	1,234,783
Reno, Nev	51	320,833	5	5,660	122	86,745	107	12	3	16,762	200,350	392,707
Rensselaer, N. Y.[1]	53	711,031	14	17,721	502	252,227	414	76	12	47,564	447,655	920,973
Revere, Mass	82	502,819	9	8,704	255	133,129	248	5	2	26,757	170,181	451,215
Rhinelander, Wis	62	1,366,855	22	28,530	781	307,131	767	14	.....	57,259	1,103,659	1,855,433
Rich Hill, Mo	48	224,609	4	1,797	115	42,659	103	7	5	12,061	164,148	255,132
Richmond, Ind	195	5,175,446	356	327,920	2,991	1,306,921	2,587	398	6	297,605	2,490,180	5,282,049
Richmond, Me	24	194,926	10	6,844	169	43,868	75	75	19	7,664	148,212	225,804
Richmond, Va	703	20,848,620	1,166	1,266,270	16,692	5,181,659	11,565	4,399	728	6,158,301	13,161,697	28,900,616
Ripon, Wis	73	498,581	32	28,276	360	122,344	215	132	13	36,539	485,101	807,087
Roanoke, Va	120	2,057,754	205	169,317	2,688	1,178,542	2,570	84	34	122,145	3,730,926	5,709,817
Rochester, Minn	116	471,994	21	11,506	331	125,891	281	46	4	65,489	386,215	728,166
Rochester, N. H	96	2,095,788	65	59,689	1,913	741,215	1,390	427	96	127,905	2,555,818	3,812,512
Rochester, N. Y	2,616	49,086,212	3,279	3,292,451	33,408	13,832,122	22,560	9,889	959	9,143,154	32,082,063	69,129,820
Rochester, Pa	47	2,228,337	40	56,685	1,433	589,516	927	206	300	104,262	470,450	1,440,567
Rock Falls, Ill	31	1,073,552	72	72,570	448	197,779	428	15	5	81,945	581,836	1,087,775
Rockford, Ill	450	14,126,834	456	422,547	6,620	2,765,709	5,190	1,200	230	821,352	6,928,941	12,586,116
Rock Hill, S. C	29	826,941	36	28,524	1,050	197,080	521	284	245	28,827	566,703	1,007,216
Rockingham, Vt	53	664,902	47	33,920	359	163,457	324	34	1	143,297	504,028	961,023
Rock Island, Ill	181	4,990,336	207	203,432	2,386	1,229,044	2,239	131	16	419,346	3,056,734	5,538,352
Rockland, Me	118	1,708,483	45	33,473	860	358,969	652	187	21	107,276	851,806	1,557,607
Rockland, Mass	81	998,824	58	51,995	1,071	515,974	791	241	39	112,435	1,363,959	2,288,972
Rockport, Ind	45	674,246	17	14,191	211	71,676	193	17	1	15,371	165,126	403,083
Rockport, Mass	41	737,225	23	28,513	566	255,634	561	5	.....	34,390	142,397	634,755
Rome, Ga	64	1,328,118	55	59,854	944	248,249	739	97	108	75,798	857,990	1,570,273
Rome, N. Y	196	3,738,051	154	154,666	2,653	1,014,352	1,951	623	79	299,978	3,722,764	6,093,544
Rushville, Ind	91	531,736	23	13,605	405	168,849	367	31	7	37,523	499,242	850,360
Rutland, Vt	186	2,112,530	139	103,563	1,791	773,304	1,335	451	5	133,616	1,044,566	2,456,677
Saco, Me	71	2,151,434	12	23,897	2,025	619,462	1,339	591	95	195,758	1,120,293	2,244,025
Sacramento, Cal	275	7,369,013	188	216,504	4,365	2,977,764	3,954	380	31	703,922	6,057,837	11,141,896
Saginaw, Mich	480	7,558,806	394	371,741	4,866	1,936,558	4,288	547	31	594,269	5,816,237	10,034,499
St. Albans, Vt	79	1,192,735	95	78,499	1,178	519,292	900	278	.....	98,355	1,034,772	1,850,590
St. Charles, Mo	75	1,940,719	59	59,445	1,275	601,987	1,223	19	33	126,412	1,982,519	3,145,662
St. Clair, Mich	36	395,180	23	17,615	238	101,995	194	42	2	21,354	279,689	515,968
St. Clair, Pa	31	94,863	7	3,780	213	47,506	25	170	18	2,225	57,678	146,277
St. Cloud, Minn	96	789,946	56	39,193	650	343,062	632	18	.....	63,422	1,229,824	1,895,202
St. Johns, Mich	59	476,258	11	13,535	295	95,469	267	27	1	27,507	304,482	539,252
St. Johnsbury, Vt	89	3,790,028	96	93,105	1,195	568,619	1,149	45	1	132,521	951,643	2,838,906
St. Joseph, Mich	75	954,419	84	82,058	933	353,591	682	234	17	73,343	606,969	1,308,277
St. Joseph, Mo	440	11,068,825	562	516,083	7,429	3,109,647	4,994	2,297	138	1,160,912	25,068,215	31,690,736

[1] Given as Greenbush in 1890.

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
St. Louis, Mich	37	$60,040	2	$1,216	47	$16,306	39	6	2	$4,183	$94,818	$149,854
St. Louis, Mo	6,732	162,179,331	9,778	10,994,620	82,672	38,191,076	64,111	15,548	3,013	33,271,804	117,861,443	233,629,733
St. Louis Park, Minn	6	1,228,875	41	60,225	224	133,660	219	4	1	28,601	271,292	606,736
St. Marys, Ohio	57	556,209	44	39,318	453	192,711	410	43	.....	37,786	462,842	893,823
St. Paul, Minn	1,591	28,208,389	2,292	2,012,574	17,593	7,669,805	13,391	3,922	280	3,668,047	19,464,570	38,541,030
St. Peter, Minn	61	374,760	13	10,600	199	77,085	168	27	4	34,815	274,104	509,471
Salamanca, N. Y	62	1,867,289	29	26,376	419	188,656	400	14	5	55,301	1,302,662	1,764,476
Salem, Mass	446	7,450,935	236	214,656	6,424	2,842,678	4,120	2,135	169	464,618	7,159,987	12,257,449
Salem, N. J	75	722,434	36	24,477	933	316,303	580	246	107	34,042	550,093	1,155,099
Salem, N. C	34	1,375,661	68	43,930	1,506	270,027	924	222	360	715,301	854,716	2,067,240
Salem, Ohio	106	2,090,703	121	116,022	977	569,352	843	128	6	135,603	1,230,584	2,380,424
Salem, Oreg	88	651,478	24	18,220	374	148,696	273	95	6	53,556	427,495	808,538
Salem, Va	40	421,473	13	13,310	181	68,315	164	11	6	82,510	533,254	768,435
Salina, Kans	119	634,988	58	31,734	337	132,761	268	56	13	94,333	885,153	1,329,986
Salisbury, Mass	11	11,970	.....	.....	14	6,988	14	.....	.....	578	8,248	24,325
Salisbury, N. C	43	906,275	27	21,980	852	172,501	389	286	177	28,481	559,070	939,954
Salt Lake City, Utah	432	4,048,906	364	282,418	2,977	1,601,253	2,404	485	88	479,634	2,743,674	6,109,409
San Antonio, Tex	312	4,252,197	209	244,252	3,073	1,755,008	2,781	262	30	654,339	3,284,524	6,821,797
San Diego, Cal	208	1,147,712	57	47,703	574	281,786	458	114	2	132,568	556,787	1,309,321
Sandusky, Ohio	176	4,627,981	158	141,637	1,648	650,895	1,397	207	44	379,042	1,394,147	3,190,342
Sandwich, Ill	29	907,994	62	62,353	278	153,934	275	3	.....	106,961	322,000	699,085
Sandy Hill, N. Y	50	3,999,674	89	121,996	939	437,904	890	39	10	218,207	1,663,816	2,974,025
Sanford, Me	67	3,246,015	85	84,645	1,893	698,385	1,011	766	116	240,060	1,891,762	3,254,890
San Francisco, Cal	4,002	80,103,367	4,041	4,619,033	41,978	22,037,527	31,722	9,321	935	8,826,167	79,492,952	33,069,416
San Jose, Cal	349	3,534,136	271	185,958	1,802	853,048	1,243	532	27	351,131	2,447,365	4,584,072
Santa Clara, Cal	36	613,510	22	28,240	248	146,099	222	20	6	26,586	330,155	712,421
Santa Cruz, Cal	84	1,456,753	34	41,161	490	262,187	471	17	2	149,035	873,438	1,648,483
Santa Fe, N. Mex	39	82,053	7	7,970	89	44,740	81	1	7	13,446	88,966	204,123
Santa Rosa, Cal	139	765,547	13	12,486	657	260,667	390	267	.....	98,781	902,579	1,521,843
Saratoga Springs, N. Y.	170	1,863,526	179	130,235	939	369,876	572	364	3	143,770	980,895	2,006,259
Savannah, Ga	155	5,716,491	220	231,377	2,870	1,176,150	2,782	85	3	469,918	3,915,884	6,461,816
Saugerties, N. Y	117	1,202,299	50	60,436	580	264,614	434	143	3	73,090	717,539	1,352,114
Sault Ste. Marie, Mich.	84	723,936	38	22,913	472	262,582	415	54	3	56,234	491,004	1,166,700
Sayre, Pa	46	1,341,905	64	47,908	1,261	591,238	1,192	60	9	40,754	1,170,326	1,945,797
Schenectady, N. Y	388	6,517,864	222	204,977	4,431	2,527,352	3,779	607	45	635,955	4,953,662	9,288,387
Schuylkill Haven, Pa.	53	545,701	15	7,873	702	259,499	413	270	19	15,605	1,105,426	1,497,484
Scituate, R. I	38	1,264,223	14	26,948	600	190,739	313	214	73	61,956	289,342	638,146
Scranton, Miss	15	372,655	5	6,600	167	66,045	165	.....	2	6,532	173,319	326,114
Scranton, Pa	710	19,954,525	661	791,589	12,669	5,191,622	8,776	2,863	1,030	1,857,881	18,411,022	27,646,418
Seattle, Wash	958	10,131,651	768	684,662	8,480	5,575,253	7,870	543	67	1,479,604	14,211,191	26,373,402
Sedalia, Mo	131	1,293,053	79	57,105	1,098	463,787	804	280	14	69,949	811,697	1,599,326
Selma, Ala	98	1,296,308	133	106,400	1,343	392,016	981	248	114	93,034	1,163,986	2,015,777
Seneca Falls, N. Y	65	2,422,256	119	112,001	1,365	611,680	1,210	144	11	136,941	840,702	1,992,115
Seymour, Conn	35	2,148,123	47	70,824	833	439,908	750	79	4	45,071	2,092,580	2,947,463
Seymour, Ind	81	871,746	34	31,437	671	234,860	495	134	42	45,268	1,089,058	1,622,408
Shamokin, Pa	143	971,130	50	39,807	1,068	313,057	503	480	85	130,080	905,421	1,656,606
Sharon, Pa	96	6,140,725	96	131,504	3,145	1,601,748	3,078	50	17	470,574	6,751,895	9,865,039
Sharpsburg, Pa	103	1,053,416	32	33,458	1,213	669,946	1,086	15	112	81,674	1,854,014	2,950,668
Sharpsville, Pa	21	3,657,100	37	42,002	912	531,309	910	1	1	229,576	4,220,305	6,238,801
Sheboygan, Wis	206	7,766,616	202	249,931	5,338	1,678,236	4,684	325	329	678,413	3,995,102	7,469,202
Sheffield, Ala	21	1,226,258	25	34,300	678	246,009	663	3	12	123,390	874,592	1,461,418
Shelburn, Mass	33	132,063	6	5,284	90	39,096	76	12	2	7,053	50,112	140,575
Shelby, Ohio	63	2,409,230	77	88,827	1,045	478,446	860	182	3	134,264	1,770,640	2,625,666
Shelbyville, Ill	60	96,294	2	250	102	30,054	85	12	5	8,574	106,199	203,717
Shelbyville, Ind	122	902,725	43	40,101	829	335,744	764	38	27	74,981	871,033	1,572,536
Shenandoah, Iowa	56	236,623	5	4,330	213	87,078	170	33	10	12,076	200,213	382,740
Shenandoah, Pa	78	374,057	13	13,544	210	88,555	186	22	2	96,929	180,224	479,336
Sheridan, Ind	33	109,111	8	5,476	109	67,248	99	6	4	4,971	99,018	241,567
Sherman, Tex	78	905,742	65	61,880	452	198,582	336	81	35	87,946	1,175,693	1,721,280
Shippensburg, Pa	54	263,081	26	13,809	284	71,437	175	107	2	17,233	186,893	391,727
Shreveport, La	115	1,696,339	89	78,644	1,014	413,562	950	57	7	105,345	1,045,452	1,964,820
Sidney, Ohio	107	1,173,805	84	62,804	935	337,610	774	159	2	101,178	1,088,669	1,858,626
Silver Creek, N. Y	27	626,396	53	55,036	298	146,716	288	10	.....	53,930	217,842	563,662
Sioux City, Iowa	329	5,691,644	322	295,157	3,104	1,485,066	2,610	438	56	664,486	10,669,672	15,469,702
Sioux Falls, S. Dak	148	1,047,899	70	48,025	586	288,919	498	85	3	159,694	563,376	1,411,411
Skowhegan, Me	69	941,681	29	32,019	617	245,314	473	135	9	43,068	761,463	1,252,955
Slatington, Pa	54	756,751	43	29,827	926	362,384	780	65	81	49,291	321,121	947,737
Smithfield, R. I	16	325,933	4	2,350	203	73,519	131	58	14	11,564	196,939	311,723
Snohomish, Wash	22	137,625	11	8,550	130	73,182	125	.....	5	15,976	316,052	484,446
Socorro, N. Mex	19	104,500	2	2,400	85	34,570	83	2	.....	5,100	50,234	126,889
Solvay, N. Y	8	214,116	9	5,235	99	59,153	83	16	.....	39,147	112,215	237,514
Somersworth, N. H	83	3,133,909	24	24,468	2,720	806,320	1,341	1,201	178	185,680	2,062,927	3,605,666
Somerville, Mass	378	10,131,596	294	266,918	4,342	2,199,491	3,877	425	40	706,415	17,346,772	21,776,511
Somerville, N. J	88	1,160,976	58	64,353	402	235,050	353	40	9	100,710	797,606	1,354,373
South Amboy, N. J	44	282,770	13	10,485	238	113,344	226	3	9	11,326	147,865	322,457
South Bend, Ind	302	18,156,638	539	577,520	8,257	3,409,637	6,926	1,120	211	950,093	7,510,866	14,236,331
South Berwick, Me	25	687,153	26	23,870	506	190,047	322	184	.....	39,370	480,533	788,399
South Bethlehem, Pa.	127	8,713,185	281	342,142	5,544	2,390,100	4,828	474	242	931,898	5,301,034	10,964,911
Southbridge, Mass	1[illegible]	4,269,358	67	94,454	2,871	1,225,064	1,989	748	134	222,267	1,947,000	3,854,638
South Glens Falls, N. Y	7	316,085	3	6,000	144	63,402	144	.....	.....	10,216	169,537	267,077

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
South Hadley, Mass	24	$758,186	23	$28,198	254	$109,352	141	113	.....	$35,564	$238,361	$522,810
Southington, Conn	65	2,783,709	70	103,422	1,415	627,604	1,304	111	.....	112,884	797,102	1,994,564
South Kingstown, R. I.	71	1,697,485	45	34,868	810	349,544	554	219	37	72,995	885,192	1,536,535
South Milwaukee, Wis.	29	1,092,523	31	32,714	595	318,149	583	5	7	44,783	553,088	1,028,703
South Omaha, Nebr	139	16,471,329	774	738,429	6,606	3,268,591	6,045	231	330	1,719,920	61,277,486	70,080,941
South Orange, N. J	45	108,664	3	2,720	157	88,740	137	20	.....	12,841	165,912	327,552
South Pittsburg, Tenn.	20	1,664,410	26	27,208	678	205,288	646	12	20	130,725	736,211	1,188,616
South St. Paul, Minn	11	927,504	93	80,954	578	262,485	558	7	8	61,487	5,168,578	5,714,757
South Williamsport, Pa	15	586,673	15	16,164	386	146,218	338	2	46	41,671	342,755	629,446
Sparta, Wis	56	221,172	8	5,645	147	56,865	126	21	.....	12,041	202,928	343,759
Spartanburg, S. C	45	2,351,175	34	41,060	1,375	276,042	679	359	337	83,721	923,217	1,630,275
Spencer, Mass	81	1,519,234	67	45,924	1,665	613,917	1,172	434	59	92,632	1,812,515	2,784,994
Spokane, Wash	213	2,678,823	249	227,905	1,779	1,080,618	1,631	146	2	414,526	2,854,463	5,427,540
Spring City, Pa	47	509,362	20	19,708	482	198,685	260	173	49	19,573	280,290	655,974
Springfield, Ill	*320*	*5,030,438*	*235*	*195,622*	*3,871*	*1,730,891*	*3,367*	*469*	*35*	*631,823*	*3,290,207*	*6,612,286*
Springfield, Mass	817	17,105,947	953	1,035,696	10,123	5,176,299	7,453	2,536	134	2,067,702	9,194,841	21,207,039
Springfield, Mo	245	2,111,048	121	99,110	2,127	1,017,345	1,956	145	26	154,290	2,274,705	4,126,871
Springfield, Ohio	305	14,091,175	1,313	1,113,310	6,638	3,160,119	6,119	496	23	1,286,798	5,569,261	12,777,173
Springfield, Vt	46	985,356	38	47,602	602	286,195	536	65	1	76,870	540,859	1,210,286
Spring Valley, Ill	32	42,741	2	1,082	57	29,439	50	4	3	3,817	59,572	127,804
Springville, Utah	17	156,760	1	225	14	6,860	12	2	.....	4,969	77,242	95,482
Stafford, Conn	75	2,061,474	53	57,457	1,061	399,876	650	341	70	105,606	1,347,143	2,177,535
Stamford, Conn	135	5,189,195	288	264,622	2,841	1,432,540	2,480	276	85	464,452	2,059,725	4,743,704
Staunton, Va	89	438,270	15	10,263	316	90,715	232	73	11	41,727	622,142	900,750
Steelton, Pa	55	6,315,833	273	275,189	4,871	2,127,334	4,756	92	23	941,119	10,006,789	14,204,954
Sterling, Ill	118	1,065,177	55	62,172	704	290,434	638	62	4	102,855	991,892	1,733,144
Steubenville, Ohio	171	2,587,180	100	84,526	2,051	874,095	1,613	246	192	227,624	2,698,875	5,235,161
Stevens Point, Wis	107	2,197,025	51	49,523	979	390,800	796	163	20	98,056	1,391,413	2,171,205
Stillwater, Minn	114	5,451,915	128	144,735	2,803	1,122,330	2,767	35	1	203,523	2,508,559	4,904,792
Stockton, Cal	291	4,810,253	164	165,762	1,649	944,734	1,443	178	28	332,047	4,515,356	6,659,916
Stoneham, Mass	94	822,071	64	75,881	1,290	544,213	751	517	22	75,708	1,894,999	2,856,919
Stonington, Conn	118	3,733,679	84	127,514	1,967	902,740	1,562	356	49	344,536	1,312,285	3,231,423
Stoughton, Mass	56	2,125,321	40	43,336	1,071	451,274	681	367	23	161,183	1,521,417	2,297,798
Stoughton, Wis	*14*	*713,452*	*31*	*28,569*	*263*	*118,711*	*257*	*5*	*1*	*43,513*	*236,825*	*505,715*
Streator, Ill	131	1,050,999	44	45,149	1,564	772,187	1,276	106	182	114,894	578,128	1,761,143
Stroudsburg, Pa	55	461,770	13	12,015	544	232,046	451	43	50	25,142	589,797	959,845
Sturgis, Mich	56	337,252	15	13,726	323	120,507	307	16	.....	14,401	233,542	478,093
Suffolk, Va	67	402,079	28	22,375	881	197,849	478	244	159	48,979	1,060,006	1,499,068
Summit Hill, Pa	14	34,078	.....	.....	29	11,105	25	3	1	745	27,342	51,323
Sumter, S. C	52	308,272	19	12,765	409	79,013	329	58	22	23,689	392,386	590,337
Sunbury, Pa	76	2,101,602	80	55,513	1,140	441,531	867	222	51	177,578	1,360,184	2,254,609
Superior, Wis	185	5,882,562	148	168,714	1,958	925,776	1,786	140	32	378,667	5,396,730	7,627,703
Susquehanna, Pa	82	810,076	18	12,580	1,187	613,508	1,159	17	11	18,938	685,438	1,416,927
Swanton, Vt	46	306,698	27	17,286	259	80,546	192	66	1	23,648	295,193	480,601
Sycamore, Ill	82	503,733	27	26,340	425	202,774	381	43	1	39,444	776,875	1,367,655
Syracuse, N. Y	1,383	31,358,055	1,431	1,424,279	14,917	6,735,177	11,880	2,779	258	3,428,671	14,771,128	31,948,055
Tacoma, Wash	381	8,146,691	293	326,340	4,347	2,356,028	4,104	203	40	461,017	7,339,166	12,029,497
Talladega, Ala	22	848,414	20	14,981	343	77,311	229	54	60	25,979	427,544	583,902
Tampa, Fla	129	3,935,647	187	240,165	4,109	2,009,077	3,537	569	3	591,403	3,542,283	7,481,741
Tamaqua, Pa	64	917,124	28	24,635	564	229,728	419	117	28	87,826	388,937	847,964
Tarentum, Pa	55	2,192,747	59	81,620	1,420	628,233	1,197	85	138	254,885	755,942	1,980,947
Tarrytown, N. Y	77	467,707	24	12,656	375	207,453	298	76	1	35,930	327,008	719,020
Taunton, Mass	*284*	*11,737,399*	*330*	*430,818*	*7,102*	*3,331,680*	*5,235*	*1,541*	*326*	*908,180*	*5,993,237*	*12,594,814*
Tawas City, Mich	11	161,715	7	5,222	108	48,440	107	1	.....	3,513	95,173	173,715
Taylor, Pa	12	170,549	8	6,139	197	30,375	14	145	38	29,742	95,113	166,438
Taylor, Tex	72	184,735	10	11,840	207	92,958	200	7	.....	21,862	206,917	429,955
Taylorville, Ill	60	229,598	7	4,757	140	54,316	123	14	3	15,028	149,734	281,762
Tecumseh, Mich	61	264,815	12	7,640	293	123,348	264	28	1	24,863	190,394	429,085
Tell City, Ind	46	466,979	24	14,310	585	188,005	440	138	7	51,808	320,078	711,849
Temple, Tex	74	700,369	31	32,546	328	158,882	304	20	4	36,403	569,580	908,726
Terre Haute, Ind	429	8,938,107	353	351,127	5,427	2,298,585	4,344	1,067	16	15,358,415	8,029,285	27,784,619
Thomaston, Conn	23	1,778,944	36	51,980	1,154	545,479	890	219	45	95,997	1,486,133	2,374,481
Thomaston, Me	35	501,265	10	9,100	215	108,610	206	9	.....	9,854	226,996	442,716
Thompson, Conn	19	4,511,383	45	64,042	1,766	575,567	1,060	576	130	62,236	928,432	1,645,476
Three Rivers, Mich	67	561,558	31	33,536	491	201,498	454	37	.....	49,347	828,266	1,238,245
Tiffin, Ohio	153	2,319,720	110	77,730	1,368	569,660	1,066	296	6	194,471	900,003	2,107,805
Tilton, N. H	41	180,622	11	8,239	219	90,663	120	99	.....	13,097	153,484	326,055
Tipton, Ind	56	203,087	6	5,700	277	109,605	212	53	12	12,672	357,678	594,161
Titusville, Pa	113	2,550,452	67	92,408	1,204	522,749	1,104	92	8	216,767	1,657,275	2,995,292
Tiverton, R. I	22	749,331	9	13,896	541	192,361	335	156	50	25,655	292,350	730,398
Toledo, Ohio	1,050	25,591,916	1,278	1,224,281	15,383	6,845,687	12,717	2,404	262	3,068,389	21,986,798	37,372,355
Tomah, Wis	*47*	*986,180*	*13*	*9,590*	*212*	*89,002*	*210*	*2*	.....	*30,746*	*531,287*	*743,615*
Tomahawk, Wis	33	172,514	5	5,460	180	93,271	166	10	4	26,632	51,609	218,838
Tonawanda, N. Y	60	1,540,789	42	43,517	398	158,851	366	8	24	40,382	1,227,349	1,676,280
Topeka, Kans	399	3,891,530	319	232,602	3,758	2,110,721	3,443	291	24	417,231	6,023,934	9,977,605
Toronto, Ohio	40	649,653	38	33,262	640	315,400	560	68	12	66,130	235,721	809,446
Torrington, Conn	108	6,544,511	152	217,559	3,522	1,704,291	3,106	309	107	409,102	6,687,684	10,017,121
Towanda, Pa	89	673,021	42	30,220	559	185,477	435	96	28	35,655	358,155	732,433
Traverse City, Mich	80	1,004,531	53	44,900	878	374,396	734	127	17	53,601	629,634	1,362,860
Trenton, Mo	86	205,715	23	13,646	252	113,508	224	28	.....	17,817	247,841	459,745

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Trenton, N. J	570	$26,174,895	889	$996,482	14,457	$6,791,026	11,641	2,484	332	$2,057,474	$18,057,504	$31,645,695
Trenton, Tenn	24	312,048	15	11,486	469	165,646	368	46	60	16,761	582,121	930,849
Trinidad, Colo	87	481,451	22	20,672	329	202,422	308	18	3	79,961	238,212	679,649
Troy, Ind	10	104,220	2	1,080	95	19,016	38	55	2	5,582	84,592	123,828
Troy, N. Y	662	28,531,622	917	1,045,237	21,564	8,571,923	7,852	13,457	255	2,850,664	11,291,740	28,209,259
Troy, Ohio	104	1,664,085	81	76,242	899	355,227	723	175	1	197,579	1,135,619	2,019,557
Tulare, Cal	29	79,075	3	1,800	38	16,260	30	6	2	4,943	67,380	118,862
Turtle Creek, Pa	14	14,800	.....	.....	15	9,710	15	.....	.....	1,434	21,825	45,078
Tuscaloosa, Ala	43	353,925	13	16,682	407	104,141	286	71	50	26,918	304,529	511,683
Tuscumbia, Ala	16	46,350	2	396	28	8,040	26	1	1	1,785	51,280	80,787
Two Rivers, Wis	45	836,492	35	40,310	971	250,385	651	184	136	75,126	591,406	1,177,621
Tyrone, Pa	69	1,098,861	40	44,522	560	243,711	459	86	15	62,286	670,868	1,305,899
Uhrichsville, Ohio	78	273,602	24	14,380	271	104,650	227	41	3	25,694	197,070	446,780
Union City, Ind	53	232,807	14	12,700	164	71,069	141	19	4	16,022	237,692	443,847
Union, N. J	159	5,618,279	92	164,086	1,662	841,247	1,067	587	8	899,514	1,650,490	3,986,381
Union City, Tenn	35	215,670	17	11,550	191	59,705	141	50	.....	16,880	383,316	558,470
Uniontown, Pa	130	872,549	37	25,579	743	323,863	650	63	30	90,467	632,238	1,348,936
Upper Sandusky, Ohio	35	288,744	10	6,625	165	60,477	151	13	1	21,655	187,106	357,505
Urbana, Ill	54	463,115	33	24,913	538	260,145	516	18	4	22,480	349,263	728,502
Urbana, Ohio	112	1,122,435	70	58,836	811	273,822	673	134	4	94,404	770,733	1,477,962
Utica, N. Y	733	19,289,502	883	792,574	10,759	4,148,415	6,874	3,272	613	2,133,972	9,405,370	19,550,850
Vallejo, Cal	64	446,696	13	10,720	233	134,994	174	56	3	48,869	419,569	736,629
Valparaiso, Ind	66	189,610	17	14,253	306	92,014	149	154	3	14,991	132,668	399,496
Van Buren, Ark	31	82,560	8	5,614	145	65,278	131	5	9	7,063	56,219	177,579
Van Wert, Ohio	81	434,678	25	14,907	354	150,514	313	41	.....	42,348	313,575	627,672
Vernon, Conn	123	5,743,445	68	107,843	2,449	928,886	1,481	877	91	419,062	3,245,493	5,499,418
Vicksburg, Miss	65	1,360,890	75	70,528	1,222	532,734	1,150	59	13	81,040	949,387	1,876,843
Victor, Colo	69	178,773	7	5,788	281	244,833	275	5	1	70,807	466,833	922,524
Vincennes, Ind	109	1,552,386	75	58,845	970	388,865	825	131	14	130,690	1,098,676	2,282,384
Vineland, N. J	58	840,305	45	28,456	837	369,976	629	191	17	34,532	775,360	1,450,072
Vinton, Iowa	63	198,237	8	6,470	231	76,001	165	59	7	31,884	206,150	440,137
Virginia City, Nev	22	39,255	2	2,270	23	12,354	15	.....	8	5,340	19,392	59,138
Visalia, Cal	43	210,900	5	4,624	236	96,889	106	130	.....	25,623	348,439	571,644
Wabash, Ind	109	2,430,502	87	88,798	1,241	589,355	1,117	124	.....	80,310	1,206,726	2,225,990
Wabasha, Minn	44	349,984	11	10,780	83	39,449	74	9	.....	35,646	581,886	761,165
Waco, Tex	166	2,096,741	106	108,306	1,227	469,129	913	256	58	222,681	1,477,642	2,693,907
Wakefield, Mass	97	3,209,070	81	100,394	1,616	784,644	1,227	382	7	220,168	1,354,253	2,958,656
Waldoboro, Me	41	158,033	6	3,439	195	74,002	174	21	.....	5,983	161,731	313,072
Wallawalla, Wash	70	790,883	21	22,493	266	170,866	254	8	4	74,103	725,685	1,184,513
Wallingford, Conn	73	5,382,134	162	285,197	2,270	1,160,551	1,776	474	20	268,756	2,813,410	5,238,280
Walpole, Mass	44	2,010,385	89	137,051	684	370,945	622	58	4	173,320	825,216	1,972,398
Waltham, Mass	275	9,152,169	198	264,588	5,392	2,630,929	3,263	2,095	34	671,780	2,317,792	6,934,381
Wapakoneta, Ohio	60	462,777	24	14,498	411	142,628	387	18	6	49,629	289,717	604,781
Wappingers Falls, N. Y.	31	1,947,381	12	15,763	944	448,815	781	119	44	23,858	450,623	972,838
Ware, Mass	100	3,284,599	48	64,226	2,777	979,930	1,514	1,084	179	127,775	2,119,178	3,681,069
Warren, Mass	39	1,379,563	22	22,771	1,027	426,594	736	276	15	54,434	688,187	1,275,574
Warren, Ohio	110	2,952,697	133	161,737	1,948	835,718	1,646	286	16	198,109	2,671,115	4,840,160
Warren, Pa	119	2,869,020	74	76,602	1,270	585,590	1,181	84	5	350,190	2,357,681	4,152,859
Warren, R. I	61	2,353,264	19	34,880	1,047	396,010	569	397	81	73,815	753,470	1,647,365
Warsaw, Ind	75	351,872	17	11,221	244	110,822	179	57	8	22,479	335,935	610,465
Warsaw, N. Y	48	3,285,826	47	52,247	329	131,611	256	72	1	61,757	296,820	631,627
Warwick, R. I	104	8,418,333	69	116,239	5,544	1,858,462	3,233	1,761	550	330,774	2,522,789	6,197,506
Waseca, Minn	69	260,614	15	11,360	172	83,292	160	9	3	15,749	767,954	976,007
Washburn, Wis	35	1,566,855	11	19,500	501	260,036	472	17	12	70,250	568,657	1,165,861
Washington, D. C	2,669	24,329,135	1,668	1,314,396	16,297	8,286,337	14,332	1,849	116	4,153,819	16,638,467	37,780,267
Washington, Ind	57	437,177	20	13,165	621	314,742	598	21	2	18,650	433,101	885,062
Washington, N. J	41	759,518	57	35,422	650	258,050	538	102	10	145,327	446,259	999,262
Washington C. H., Ohio	67	403,031	28	20,158	276	101,849	204	69	3	24,376	352,233	659,899
Washington, Pa	160	2,897,671	119	130,468	2,206	1,052,616	1,891	189	126	461,068	2,303,113	4,667,330
Waterbury, Conn	404	23,421,640	699	1,005,814	14,914	7,564,198	10,779	3,787	348	1,664,050	19,821,401	33,778,905
Waterford, N. Y	58	2,593,021	62	88,527	1,921	773,786	865	988	68	152,450	1,544,719	2,966,060
Waterloo, Iowa	147	1,287,056	108	80,014	1,042	471,608	899	118	25	81,642	1,555,578	2,499,361
Waterloo, N. Y	36	1,644,687	33	48,998	736	305,648	508	212	16	141,272	907,222	1,580,395
Watertown, Conn	37	536,524	24	39,255	501	166,340	208	285	8	15,801	629,538	936,266
Watertown, Mass	105	4,549,242	134	178,235	2,304	1,130,099	1,466	800	38	170,131	3,811,808	6,078,902
Watertown, N. Y	289	8,281,845	247	279,900	3,760	1,821,477	3,230	512	18	455,916	4,152,344	7,881,977
Watertown, Wis	86	1,776,312	56	50,241	621	204,305	530	70	21	112,071	949,118	1,625,982
Waterville, Me	89	3,972,016	56	54,512	2,203	779,308	1,235	787	181	196,084	1,256,801	2,802,236
Watervliet, N. Y.[1]	135	1,826,691	69	81,721	1,167	460,352	756	383	28	154,118	849,934	1,809,241
Watsontown, Pa	21	257,571	38	23,588	280	91,651	259	16	5	11,747	298,200	459,670
Waukegan, Ill	102	3,143,918	60	64,496	1,390	771,386	1,261	127	2	269,633	2,990,193	4,609,190
Waupun, Wis	42	493,590	22	23,650	267	87,988	170	97	.....	135,502	793,504	1,200,844
Wausau, Wis	137	3,094,178	100	104,920	1,643	594,626	1,467	49	127	243,587	2,238,780	3,658,439
Wauwatosa, Wis	37	3,110,023	161	152,840	2,312	1,154,948	2,302	10	.....	216,398	1,982,008	3,663,892
Waverly, N. Y	90	477,724	37	17,905	295	112,332	249	42	4	40,780	359,246	656,784
Waynesboro, Pa	61	3,984,774	97	98,069	1,103	507,628	1,086	14	3	265,093	1,072,213	2,731,059
Weatherford, Tex	83	309,550	22	13,017	173	72,671	158	9	6	29,177	368,467	609,415
Webb City, Mo	42	211,090	8	6,934	164	79,294	145	19	.....	12,050	244,851	425,763
Webster, Mass	83	3,733,575	51	52,332	2,490	870,214	1,668	655	167	280,796	2,447,448	4,086,267
Webster City, Iowa	33	348,455	24	14,680	205	78,297	176	16	13	16,863	188,170	415,163

[1] Given as West Troy in 1890.

TABLE 9.—SUMMARY FOR 1,341 CITIES, TOWNS, AND VILLAGES: 1900—Continued.

CITIES, TOWNS, AND VILLAGES.	Number of establishments.	Capital.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.					Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
					Total.		Average number.					
			Number.	Salaries.	Average number.	Wages.	Men, 16 years and over.	Women, 16 years and over.	Children, under 16 years.			
Weir, Kans	22	$145,171	.....	.....	123	$49,686	110	10	3	$7,967	$240,614	$311,654
Wellston, Ohio	41	855,606	17	$15,985	333	169,075	320	10	3	27,327	595,415	1,056,110
Wellsville, N. Y	64	1,344,438	21	19,743	351	131,835	309	40	2	36,285	668,283	1,017,516
Wellsville, Ohio	61	1,233,863	66	59,400	969	511,964	906	62	1	47,624	660,918	1,548,190
West Bay City, Mich	121	2,323,910	56	66,024	2,153	868,504	2,069	48	36	214,327	2,294,668	3,768,522
West Bethlehem, Pa	17	143,990	6	4,000	69	29,214	62	7	.....	19,928	174,573	276,939
Westboro, Mass	57	948,047	19	18,456	843	383,586	642	201	.....	39,752	1,087,315	1,783,298
Westbrook, Me	42	3,950,221	52	72,858	1,405	604,978	1,024	381	.....	347,064	1,372,266	2,851,660
West Chester, Pa	112	1,244,188	69	50,783	740	351,087	695	35	10	164,169	459,559	1,378,362
Westerly, R. I	105	1,587,951	52	36,019	1,561	661,986	1,189	332	40	56,228	811,392	1,934,544
Westfield, Mass	186	4,345,372	258	327,644	2,641	1,229,643	2,080	533	28	828,542	2,401,460	5,072,074
Westfield, N. Y	39	364,409	27	17,420	114	46,556	91	22	1	29,294	136,444	326,918
West Hoboken, N. J	177	4,042,373	173	152,147	3,028	1,248,244	1,479	1,475	74	677,713	2,829,789	5,491,760
West Minneapolis, Minn	15	1,665,907	83	79,807	476	211,129	475	1	.....	134,959	345,070	853,828
Westminster, Md	66	428,567	26	11,151	234	59,735	159	62	13	16,146	344,100	509,243
West Orange, N. J	64	1,373,039	74	68,804	1,034	499,319	967	66	1	67,788	478,645	1,350,170
West Pittston, Pa	35	567,287	31	47,048	299	123,238	206	86	7	127,444	242,730	621,996
West Point, Miss	32	198,328	12	9,197	173	56,738	168	3	2	11,132	190,490	358,363
Westport, Conn	35	343,948	31	46,542	225	101,788	153	70	2	32,129	284,493	556,668
West Rutland, Vt	17	2,134,582	67	74,925	944	487,560	942	2	.....	125,541	474,446	1,440,334
West Springfield, Mass	41	934,945	38	60,816	626	345,776	500	125	1	59,291	561,675	1,142,105
Weymouth, Mass	130	4,427,328	218	287,150	1,998	911,502	1,478	516	4	298,022	3,246,899	5,583,144
What Cheer, Iowa	41	132,408	15	7,931	58	25,927	50	6	2	6,578	93,167	184,436
Wheeling, W. Va	406	13,224,577	465	439,582	7,219	3,096,730	5,302	1,775	142	1,954,205	9,076,978	16,747,544
Whitehall, N. Y	47	643,228	29	37,469	403	125,816	257	128	18	37,346	320,424	596,971
Whiting, Ind	6	12,701,598	159	159,772	1,836	1,144,113	1,823	13	.....	350,933	13,420,494	16,674,285
Whitman, Mass	65	2,054,815	102	100,377	2,059	1,092,024	1,513	501	45	140,286	3,160,456	5,009,786
Wichita, Kans	328	2,108,524	144	110,935	1,505	639,271	1,284	200	21	176,146	3,060,661	4,724,068
Wilbraham, Mass	15	711,426	9	19,460	171	81,100	94	76	1	24,365	558,198	736,173
Wilkesbarre, Pa	438	10,501,537	340	406,823	5,977	2,286,676	3,727	1,780	470	1,142,358	5,167,777	10,758,348
Wilkinsburg, Pa	131	1,049,083	15	6,048	655	464,107	623	31	1	644,594	897,931	2,295,846
Williamsport, Pa	396	9,863,811	397	352,348	5,595	2,065,930	3,679	1,614	302	517,059	6,420,337	11,199,600
Williamstown, Mass	38	815,368	12	12,619	305	141,864	246	31	28	20,059	182,511	434,371
Wilmerding, Pa	10	19,546,553	109	241,595	2,015	1,353,869	1,997	14	4	636,488	2,592,726	9,171,384
Wilmington, Del	759	28,372,043	1,051	1,138,361	16,055	7,439,210	13,725	1,885	495	1,658,908	19,451,815	34,053,324
Wilmington, N. C	131	2,968,199	120	103,178	1,850	568,250	1,495	260	95	158,723	1,784,054	2,960,028
Wilmington, Ohio	61	247,783	14	12,916	188	78,635	179	8	1	21,860	241,511	440,237
Winchenden, Mass	53	1,454,853	33	33,760	1,238	462,582	973	148	117	45,207	861,523	1,745,925
Winchester, Conn	133	2,971,429	156	170,199	1,746	753,192	1,136	581	29	169,955	1,529,704	2,923,822
Winchester, Ky	50	216,203	6	3,300	111	35,799	87	21	3	13,516	324,629	436,434
Winchester, Mass	52	3,724,461	124	183,098	1,155	666,064	1,113	37	5	178,284	1,855,159	3,257,172
Winchester, N. H	34	551,793	13	11,000	350	144,878	347	3	.....	27,103	488,512	787,829
Winchester, Va	72	561,640	42	27,325	635	128,176	220	336	79	36,101	582,306	890,493
Windham, Conn	114	5,856,194	90	97,980	2,514	948,041	1,240	1,112	162	209,638	1,520,562	3,436,033
Windsor, Conn	40	1,016,549	49	43,200	482	227,127	357	118	7	35,448	508,427	921,829
Windsor Locks, Conn	37	2,117,159	38	53,051	831	331,402	465	350	16	87,298	681,785	1,311,768
Winfield, Kans	75	568,481	26	25,026	209	86,852	190	18	1	24,343	869,327	1,136,346
Winona, Minn	162	6,192,386	204	192,051	2,214	928,400	2,042	147	25	404,187	4,292,845	6,576,382
Winston, N. C	46	4,800,421	247	293,945	3,420	461,214	1,700	1,056	664	2,411,259	1,982,964	5,436,030
Winthrop, Mass	43	106,445	3	1,490	118	60,543	114	4	.....	12,909	100,643	242,111
Woburn, Mass	123	2,983,705	56	65,217	1,596	757,670	1,332	248	16	183,489	3,064,985	4,450,566
Wolfeboro, N. H	32	343,456	14	9,923	276	114,595	202	74	.....	20,163	394,326	586,210
Woodbury, N. J	81	1,129,715	45	41,625	451	258,457	398	9	44	115,420	378,191	988,612
Woonsocket, R. I	242	14,279,361	166	258,715	8,093	3,080,280	4,972	2,635	486	589,795	7,563,204	15,627,539
Wooster, Ohio	97	626,188	47	29,501	447	169,490	360	86	1	37,114	463,725	985,579
Worcester, Mass	1,071	42,966,743	1,430	1,791,000	25,593	12,894,784	20,421	4,589	583	4,258,926	26,666,176	53,348,783
Wrightsville, Pa	34	462,672	30	15,673	427	133,735	336	74	17	31,909	470,759	781,452
Wyandotte, Mich	50	679,947	31	36,555	493	187,822	360	122	11	88,748	542,419	956,055
Xenia, Ohio	106	1,819,614	58	72,051	1,105	394,386	897	207	1	139,647	2,171,360	3,122,797
Yankton, S. Dak	68	217,811	9	3,879	139	63,616	121	12	6	33,568	166,975	350,736
Yoakum, Tex	23	201,097	14	15,580	271	156,782	267	.....	4	8,741	165,378	371,093
Yonkers, N. Y	387	13,097,205	329	453,426	8,615	3,888,892	5,564	2,782	269	1,059,522	10,555,218	19,580,324
York, Pa	464	9,640,784	404	438,281	7,785	2,679,175	5,802	1,501	482	798,453	6,078,070	11,961,766
Youngstown, Ohio	260	22,360,097	434	492,823	9,150	4,951,460	8,905	226	19	968,636	23,541,769	34,801,161
Ypsilanti, Mich	110	898,161	64	54,619	681	233,013	367	314	.....	95,235	725,907	1,318,793
Zanesville, Ohio	293	5,162,067	424	319,864	4,603	1,786,005	3,590	1,000	13	365,338	3,756,489	7,468,829