

CENSUS BULLETIN.

No. 154.

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MANUFACTURES.

OHIO.

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 Ohio 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There were 101 cities and villages in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act.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the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and villages which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Twelve cities in Ohio contain a population exceeding 20,000 each: Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Hamilton, Lima, Springfield, Toledo, Youngstown, and Zanesville. The manufacturing statistics of these 12 cities are presented by specified industries, and the statistics of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, Youngstown, and Zanesville are presented in comparison with

the returns of the Eleventh Census. The statistics of Hamilton and Lima were not shown separately in 1890, and comparisons with that year are, therefore, not possible in these cases.

The text of the accompanying report was prepared by Dr. Frederick S. Hall, of the division of manufactures.

The statistics of Ohio 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 of governmental establishments, educational, eleemosynary, and penal institutions, and establishments with a product of less than \$500, which three latter classes were not reported at previous censuses; Table 3 showing the statistics of the 27 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, Youngstown, and Zanesville 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 Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Hamilton, Lima, Springfield, Toledo, Youngstown, and Zanesville 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 Ohio 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 Ohio

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 \$605,792,266 invested in manufactures and mechanical industries in the 32,398 establishments reporting for the state of Ohio. 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 \$832,438,113, to produce which involved an outlay of \$29,351,045 for salaries of officials, clerks, etc.; \$153,955,330 for wages; \$69,728,206 for miscellaneous expenses, including rent, taxes, etc.; and \$447,849,677 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 Ohio, \$832,438,113, 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 Ohio, the gross value of products for 1900 was \$832,438,113. The value of materials purchased in a partly manufactured form was \$309,188,906. The difference, \$523,249,207, is the net or true value of products, and represents the value of all crude materials used, together with the increase in value resulting from the various processes of manufacture.

Very respectfully,



Chief Statistician for Manufactures.

OHIO.

Table 1 shows the manufacturing and mechanical industries of the state of Ohio 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 estab-

lishments, 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	32,398	28,678	20,699	22,778	11,123	10,622	13.0	38.5	19.1	104.7	4.7
Capital	\$605,792,266	\$402,793,019	\$188,939,614	\$141,923,964	\$57,295,303	\$29,019,538	59.4	113.2	33.1	147.7	97.4
Salariated officials, clerks, etc., number	30,003	238,566	(3)	(3)	(3)	(3)	122.2	(3)	(3)	(3)	(3)
Salaries	\$29,351,045	\$30,321,084	(3)	(3)	(3)	(3)	13.2	(3)	(3)	(3)	(3)
Wage-earners, average number	345,869	292,982	183,609	137,202	75,602	51,491	18.1	59.6	33.8	81.5	46.8
Total wages	\$153,955,330	\$128,447,799	\$62,103,800	\$49,066,488	\$22,302,980	\$13,467,156	19.9	106.8	26.6	120.0	65.6
Men, 16 years and over	287,789	244,900	152,217	119,686	65,749	47,054	17.5	60.9	27.2	82.0	39.7
Wages	\$140,364,129	\$118,158,616	(3)	(3)	(3)	(3)	18.8	(3)	(3)	(3)	(3)
Women, 16 years and over	58,711	41,531	18,503	11,575	9,853	4,437	29.3	123.7	60.4	17.5	122.1
Wages	\$12,883,284	\$9,286,497	(3)	(3)	(3)	(3)	38.7	(3)	(3)	(3)	(3)
Children, under 16 years	4,369	6,551	12,829	5,941	(3)	(3)	133.3	148.9	115.9	(3)	(3)
Wages	\$707,917	\$1,002,386	(3)	(3)	(3)	(3)	129.4	(3)	(3)	(3)	(3)
Miscellaneous expenses	\$69,728,206	\$45,062,325	(4)	(4)	(4)	(4)	54.7	(4)	(4)	(4)	(4)
Cost of materials used	\$147,849,677	\$311,016,464	\$215,334,258	\$157,131,697	\$69,800,270	\$34,678,019	31.3	58.4	37.0	125.1	101.3
Value of products, including custom work and repairing	\$382,438,113	\$641,688,064	\$348,298,390	\$269,713,610	\$121,691,148	\$32,692,279	29.7	84.2	29.1	121.6	94.1
Total population	4,157,545	3,672,316	3,198,062	2,665,260	2,339,511	1,980,329	13.2	14.8	20.0	13.9	18.1
Wage-earners engaged in manufactures	345,869	292,982	183,609	137,202	75,602	51,491	18.1	59.6	33.8	81.5	46.8
Per cent of total population	8.3	8.0	5.7	5.1	3.2	2.6	(3)	(3)	(3)	(3)	(3)
Assessed value of real estate	\$1,285,008,439	\$1,232,305,312	\$1,093,677,705	\$707,846,836	\$687,518,121	\$337,521,075	4.3	12.7	34.5	3.0	103.7
Value of land and buildings invested in manufactures ⁶	\$144,152,774	\$96,331,577	(3)	(3)	(3)	(3)	49.6	(3)	(3)	(3)	(3)
Per cent of assessed value	11.2	7.8	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

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 Secretary of State of Ohio, 1900, page 678.

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 Ohio during the half century. The population during these years increased from 1,980,329 to 4,157,545, while the average number of wage-earners employed in manufacturing establishments increased from 51,491 to 345,869, embracing, in 1900, 8.3 per cent of the entire population, compared with 2.6 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 451,686, or 10.9 per cent of the total population of the state. The greatest percentage of increase in the value of products, 121.6, is shown for the decade ending with 1870, but the greatest absolute increase, \$293,389,674, was between the years 1880 and 1890.

If the value of products given for 1870 is reduced to a gold basis, the absolute increase for each decade from 1850 to 1900, successively, is found to be \$58,998,869, \$94,079,740, \$132,527,502, \$293,389,674, and \$190,750,049. The increase was therefore greater at each successive decade except the last. At the censuses of 1840, 1850, 1860, and 1870 Ohio ranked fourth in the United States in the value of all manufactures. In 1880 the state became fifth, and has held that rank ever since.

Of the various causes which have contributed to the early development and steady advance of manufacturing in Ohio, the great commercial advantages of the state must be considered the most important. Water communication with the Atlantic seaboard is afforded by Lake Erie and the Erie Canal, and with the states of the northwest by the western Great Lakes and the Sault Ste. Marie Canal, while the Ohio River, which forms the southern boundary of the state for 436 miles, and its tributary, the Muskingum River, navigable for several miles above Zanesville, furnish cheap communication with western Pennsylvania and the entire Mississippi Valley. Two canals, connecting Lake Erie with the Ohio River, one from Cleveland to Portsmouth, and the other from Toledo to Cincinnati, were constructed by the state between the years 1825 and 1835. Settlements, trade, and local manufactures developed almost entirely along these waterways during the earlier years of the century. Other parts of the state were opened up by the construction of railroads, but the effect of these water routes in the localization of manufactures is still very marked, for in 1900 the great manufacturing centers of the state were located at the lake and river termini of the two principal canals, along these canals and their feeders north of Cincinnati and south and southeast of Cleve-

land, and along the Ohio River west and northwest of Wheeling.

During the first half of the century, owing to the existence of these water routes to the East, Ohio was the most accessible region west of the Allegheny Mountains, and was the first state, therefore, to feel the effect of westward emigration on a large scale. From 1820 to 1880 the population exceeded that of any other state west of the Allegheny Mountains. Many of the settlers came from New England, New York, and Pennsylvania, bringing with them the mechanical knowledge gained in their former homes. Machinery and tools were also brought from these older manufacturing sections, and industries for the supplying of local needs were started. Production for the broader market received its first great impetus when steam navigation began on the Ohio River, between the years 1810 and 1820. The rapid settlement of the Mississippi Valley developed a market which eastern manufacturers found difficult to enter in competition with the more favorably located establishments of Cincinnati. The rise of this city as a manufacturing center was remarkable. Coal brought down the Ohio River at small expense from Pennsylvania was most largely used. Pennsylvania furnished also crude forms of iron, and forests in the vicinity supplied abundant hard wood. In 1803 manufactured products were shipped to points along the Mississippi River as far south as New Orleans.¹

Cleveland was essentially a commercial city during the first half of the century, its prominence being due to its location on Lake Erie, and to the trade which passed through the Ohio Canal. By 1860 railroad construction had begun to deflect commerce to other centers, but the

¹The Journal of a Tour into the Territory Northwest of the Allegheny Mountains in the Year 1803, by T. M. Harris, page 146.

²The New England Magazine, 1890, page 760.

decline threatened at that time² was averted by the industrial development which followed the opening of the Sault Ste. Marie Canal, in 1855. Water communication was thus furnished with the richest mines of iron ore in the United States, and the iron industries of Cleveland and the Mahoning Valley began their great development.

Among the natural resources of Ohio are a fertile soil, extensive hard-wood forests, and an abundance of coal and natural gas. This last came largely into commercial use in the state in 1884.³ The production increased until 1889, but, on account of the exhaustion of many of the wells, has declined since that date. Ohio ranked fourth in 1899, however, in the value of natural gas produced, and considerable quantities were piped into the state from Pennsylvania, Indiana, West Virginia, Kentucky, and Canada. This fuel has been used at various times in Toledo, Findlay, Dayton, Springfield, Columbus, Zanesville, Newark, and many smaller places.⁴ During 1899 it was used in 691 different establishments in the state. Petroleum also was used as a fuel, though to a less extent. The waterpower of Ohio is not extensive, its use being confined very largely to flour and grist milling, lumber milling, and the manufacture of paper and wood pulp.

Table 2 divides the industries of the state 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.

³United States Geological Survey: Mineral Resources, 1899, Nonmetallic Products, except Coal and Coke, pages 299, 302, 309, and 310.

⁴Testimony of the Ohio State Geologist before the Cincinnati Board of City Affairs, 1899; quoted in the Progressive Age, June 15, 1899.

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	39,524	\$608,410,892	44,125	349,172	\$154,194,618	\$69,867,179	\$148,574,587	\$109,646,052	\$309,842,856	\$29,085,679	\$834,831,666
Hand trades ¹	13,896	17,648,395	15,724	29,753	18,959,714	5,484,310	21,053,373	551,734	22,943,027	558,612	58,948,854
Governmental establishments	2	116,779		456	65,509	574	38,698		38,428	270	225,583
Educational, eleemosynary, and penal institutions	25	595,455		928	72,972	8,904	191,649	7,673	170,808	13,168	413,488
Establishments with a product of less than \$500	7,099	1,906,392	7,501	1,920	100,807	129,495	494,563	46,644	444,714	8,205	1,757,482
All other establishments	18,702	588,148,871	20,900	316,116	130,995,616	64,243,896	423,796,304	103,040,001	280,245,879	28,510,424	773,489,259

¹Includes bicycle and tricycle repairing, 377; blacksmithing and wheelwrighting, 2,585; boots and shoes, custom work and repairing, 1,461; carpentering, 1,135; clothing, men's, custom work and repairing, 1,543; clothing, women's, dressmaking, 767; dyeing and cleaning, 132; furniture, cabinetmaking, repairing, and upholstering, 304; lock and gun smithing, 105; masonry, brick and stone, 441; millinery, custom work, 1,281; painting, house, sign, etc., 887; paper hanging, 147; plastering and stuccowork, 207; plumbing, and gas and steam fitting, 612; sewing machine repairing, 20; taxidermy, 5; typewriter repairing, 2; watch, clock, and jewelry repairing, 736.

Of the 39,524 establishments of all classes shown in this table, 20,795, or 52.6 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

\$60,706,336, or only 7.3 per cent of the total value of the products of the state.

In addition to the 39,524 active establishments in the state during the census year, with a capital of \$608,410,892, shown in Table 2, there were 226 idle establishments, with a capital of \$4,638,185, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Boots and shoes, factory product.....	3	\$84, 600	Time and cement.....	4	\$18, 530
Brick and tile.....	35	261, 526	Liquors, distilled.....	4	30, 875
Cars, steam railroad, not including operations of railroad companies.....	1	8, 000	Lumber and timber products.....	24	33, 650
Cheese, butter, and condensed milk, factory product.....	11	24, 150	Lumber, planing mill products, including sash, doors, and blinds.....	5	18, 550
Cooperage.....	3	19, 600	Oil, linseed.....	2	10, 000
Flouring and grist mill products.....	26	156, 975	Paints.....	1	20, 000
Foundry and machine shop products.....	11	122, 420	Paper and wood pulp.....	2	239, 666
Furniture, factory product.....	3	308, 022	Petroleum, refining.....	1	65, 000
Glass.....	8	308, 018	Pottery, terra cotta, and fire-clay products.....	14	322, 052
Hosiery and knit goods.....	3	68, 091	Saws.....	1	60, 527
Iron and steel.....	8	1, 072, 700	Starch.....	1	400, 000
Iron and steel, nails and spikes, cut and wrought, including wire nails.....	3	122, 100	Wire.....	1	220, 000
Leather, tanned, curried, and finished.....	3	14, 450	Woolen goods.....	6	33, 300
			All other industries.....	42	70, 383

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY-SEVEN LEADING INDUSTRIES.

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.			
Total for selected industries for state.....	1900	9, 557	\$403, 595, 111	213, 545	\$97, 643, 723	\$40, 123, 782	\$304, 933, 555	\$547, 619, 811
	1890	7, 997	238, 343, 244	169, 057	75, 758, 352	32, 722, 824	225, 390, 580	402, 131, 891
Increase, 1890 to 1900.....		1, 560	135, 251, 867	44, 488	21, 885, 371	16, 400, 958	78, 542, 975	145, 484, 923
Per cent of increase.....		19.5	50.4	26.3	28.9	50.1	34.7	36.2
Per cent of total of all industries in state.....	1900	29.5	66.6	61.7	63.4	70.4	68.1	65.8
	1890	27.9	66.6	57.7	59.0	72.6	65.4	62.7
Agricultural implements.....	1900	78	23, 628, 442	6, 852	3, 271, 163	1, 483, 605	6, 059, 515	13, 975, 268
	1890	106	29, 399, 930	7, 701	3, 368, 475	2, 008, 481	5, 651, 360	14, 333, 258
Boots and shoes, factory product.....	1900	81	7, 549, 112	12, 718	3, 989, 744	637, 537	11, 074, 008	17, 920, 854
	1890	63	3, 176, 318	5, 743	2, 303, 393	4, 480, 206	8, 489, 723	8, 489, 723
Carriage and wagon materials.....	1900	109	5, 251, 795	4, 529	1, 730, 022	347, 458	4, 027, 295	7, 186, 271
	1890	99	3, 350, 304	2, 697	1, 115, 862	215, 794	1, 745, 002	4, 310, 607
Carriages and wagons.....	1900	548	12, 158, 302	7, 274	3, 369, 550	813, 400	8, 202, 052	15, 919, 173
	1890	709	18, 952, 571	9, 493	4, 509, 960	1, 060, 056	9, 332, 077	18, 777, 866
Cars and general shop construction and repairs by steam railroad companies.....	1900	91	5, 701, 129	11, 531	6, 087, 052	391, 581	5, 903, 808	12, 975, 182
	1890	61	3, 907, 278	7, 397	3, 968, 797		3, 630, 052	8, 066, 905
Clothing, men's, factory product.....	1900	539	10, 732, 010	6, 521	2, 143, 619	2, 044, 440	9, 112, 231	16, 593, 824
	1890	508	13, 106, 296	15, 210	3, 507, 738	1, 034, 007	9, 636, 196	20, 604, 134
Clothing, women's, factory product.....	1900	126	2, 865, 851	4, 817	1, 518, 355	467, 188	4, 449, 451	7, 772, 771
	1890	31	2, 056, 455	2, 546	911, 171	119, 790	2, 282, 925	4, 352, 098
Coffee and spice, roasting and grinding.....	1900	26	2, 375, 898	678	229, 703	128, 738	4, 708, 855	5, 849, 644
	1890	32	1, 417, 233	488	211, 233	77, 013	0, 540, 452	7, 806, 703
Electrical apparatus and supplies.....	1900	64	7, 036, 103	3, 773	1, 502, 270	568, 201	3, 338, 978	6, 504, 847
	1890	11	694, 255	348	212, 262	38, 526	144, 354	904, 730
Flouring and grist mill products.....	1900	1, 150	12, 531, 150	2, 438	1, 220, 398	626, 642	31, 826, 750	37, 390, 367
	1890	910	13, 473, 455	3, 311	1, 389, 707	908, 517	33, 418, 856	39, 468, 409
Food preparations.....	1900	31	5, 135, 405	1, 100	365, 950	390, 651	5, 353, 560	7, 166, 532
	1890	35	384, 145	270	76, 463	38, 945	613, 134	1, 029, 842
Foundry and machine shop products.....	1900	861	68, 766, 347	41, 799	20, 563, 268	4, 806, 682	31, 578, 934	72, 899, 632
	1890	600	32, 589, 798	24, 795	12, 050, 969	2, 693, 738	19, 332, 307	43, 617, 072
Furniture, factory product.....	1900	165	9, 585, 848	6, 723	2, 621, 895	562, 295	4, 042, 083	9, 514, 764
	1890	215	8, 144, 977	7, 076	3, 122, 807	566, 903	3, 750, 742	9, 988, 129
Glass.....	1900	28	5, 451, 518	4, 546	2, 067, 384	155, 512	1, 233, 164	4, 547, 088
	1890	59	4, 094, 677	6, 435	2, 901, 255	294, 744	1, 602, 599	6, 640, 182
Iron and steel.....	1900	107	85, 523, 552	33, 677	19, 730, 409	4, 400, 859	91, 529, 307	138, 935, 256
	1890	101	36, 173, 387	23, 546	13, 262, 141	2, 293, 068	44, 551, 301	65, 206, 828
Leather, tanned, curried, and finished.....	1900	58	5, 822, 580	1, 384	617, 409	160, 315	3, 774, 298	5, 182, 095
	1890	113	4, 380, 015	1, 447	708, 332	193, 210	5, 134, 248	6, 701, 070
Liquors: Total.....	1900	190	31, 444, 509	3, 978	2, 539, 972	17, 796, 541	6, 145, 198	31, 771, 591
	1890	179	21, 591, 010	3, 660	2, 490, 340	12, 642, 274	8, 054, 866	28, 484, 290
Liquors, distilled.....	1900	26	3, 000, 277	335	179, 157	9, 622, 583	1, 438, 507	12, 447, 268
	1890	15	2, 109, 879	426	224, 222	3, 745, 108	2, 535, 013	12, 033, 884
Liquors, malt.....	1900	112	26, 822, 396	3, 464	2, 292, 652	8, 104, 240	4, 277, 812	18, 622, 639
	1890	106	21, 491, 924	3, 117	2, 224, 351	3, 826, 311	5, 272, 894	15, 899, 629
Liquors, vinous.....	1900	52	1, 621, 836	179	68, 163	69, 718	428, 879	801, 684
	1890	58	989, 207	123	41, 767	70, 855	249, 956	550, 777
Lumber and timber products.....	1900	2, 054	13, 741, 418	8, 539	3, 298, 668	568, 562	11, 296, 045	20, 780, 854
	1890	1, 461	11, 806, 709	11, 727	3, 143, 494	636, 950	7, 621, 133	15, 270, 843
Lumber, planing mill products, including sash, doors, and blinds.....	1900	354	7, 498, 314	4, 696	2, 169, 264	468, 548	6, 549, 648	11, 066, 671
	1890	335	7, 908, 742	5, 356	2, 733, 047	426, 367	7, 683, 188	12, 910, 338

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY-SEVEN 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.			
Paper and wood pulp	1900	51	\$7,872,913	3,184	\$1,118,040	\$479,386	\$3,768,572	\$6,543,513
	1890	50	7,581,536	2,921	1,153,625	513,637	3,991,377	7,209,750
Petroleum, refining	1900	9	10,912,818	1,008	551,692	620,061	6,177,048	8,396,977
	1890	15	15,871,138	1,976	1,017,861	530,858	12,517,255	16,343,493
Pottery, terra cotta, and fire-clay products	1900	248	15,563,969	11,870	5,009,846	691,591	3,229,385	11,851,225
	1890	125	5,927,139	4,606	2,035,702	459,333	1,313,230	5,047,501
Printing and publishing:								
Total	1900	1,233	17,851,109	11,021	5,313,707	2,691,906	5,656,367	20,391,868
	1890	987	11,634,222	9,026	4,436,561	2,095,623	5,244,793	17,188,351
Book and job	1900	410	6,330,456	4,613	2,171,241	823,070	3,229,600	7,941,570
	1890	257	3,704,513	3,018	1,392,017	337,296	2,318,018	6,036,891
Music	1900	6	192,788	48	22,870	185,009	23,761	260,658
	1890	6	191,620	17	7,954	76,650	21,968	173,450
Newspapers and periodicals	1900	837	11,927,865	6,360	3,119,596	1,733,296	2,883,006	12,189,640
	1890	724	7,738,089	5,991	3,036,590	1,681,680	2,404,807	10,928,510
Rubber and elastic goods	1900	19	5,989,129	3,505	1,281,038	305,446	4,757,204	7,330,104
	1890	7	1,162,512	638	240,736	89,504	1,002,772	1,486,777
Slaughtering:								
Total	1900	71	5,355,626	1,765	811,398	639,008	17,927,953	20,660,780
	1890	138	3,582,540	1,346	682,581	234,983	14,341,520	17,012,198
Slaughtering and meat packing, wholesale	1900	60	5,224,426	1,700	775,288	619,628	17,006,794	19,609,304
	1890	70	3,100,225	1,168	591,898	193,933	11,269,900	13,280,649
Slaughtering, wholesale, not including meat packing	1900	11	131,400	65	36,110	19,380	921,159	1,051,476
	1890	68	482,115	178	90,683	41,050	3,071,620	3,731,549
Soap and candles	1900	55	7,655,594	1,427	572,301	1,182,185	5,049,219	8,150,069
	1890	49	2,404,544	1,013	360,339	188,188	4,081,984	5,746,660
Tobacco:								
Total	1900	1,196	9,539,705	12,189	3,958,546	5,755,984	8,222,627	20,832,629
	1890	995	5,572,563	8,259	2,764,001	3,104,648	7,987,891	16,387,719
Chewing, smoking, and snuff	1900	19	2,081,858	1,087	389,881	3,001,133	1,917,219	5,762,853
	1890	20	2,105,848	1,870	549,110	1,936,909	2,925,371	5,991,177
Cigars and cigarettes	1900	1,129	4,579,159	9,046	3,016,072	2,613,678	3,717,825	11,239,824
	1890	937	2,729,275	5,682	1,973,389	1,131,702	2,447,042	7,024,748
Stemming and rehandling	1900	48	2,878,688	2,056	552,593	141,173	2,587,583	3,839,952
	1890	38	787,440	707	241,502	36,032	2,615,478	3,371,794

The 27 leading industries of the state in 1900, as shown in Table 3, embraced 9,557 establishments, or 29.5 per cent of the total number in the state; used a capital of \$403,595,111, or 66.6 per cent of the total; gave employment to 213,545 wage-earners, or 61.7 per cent of the total number; and paid \$97,643,723, or 63.4 per cent of the total wages. The value of their products was \$547,619,814, or 65.8 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 iron and steel is the most important industry in the state. The 107 establishments reported in 1900 gave employment to 33,677 wage-earners, or 9.7 per cent of the wage-earners employed in the state, and the products were valued at \$138,935,256, or 16.7 per cent of the total value of the products of the state. In 1890 there were 101 establishments, 23,546 wage-earners, and products valued at \$65,206,828. The increase in the value of products during the decade was \$73,728,428, or 113.1 per cent.

In the manufacture of iron and steel, Ohio has always led all states west of the Allegheny Mountains. It ranked next to New York and Pennsylvania in 1850, and since 1870 has held the second place, ranking next to Pennsylvania. There were 43 blast furnaces in operation in 1900, with products valued at \$40,366,637, and 64 rolling mills

and steel works, with products valued at \$98,568,619. The iron ore production of Ohio in 1899 was comparatively small, amounting to 53,221 long tons,¹ or but 1.2 per cent of the iron ore used in the furnaces of the state during the census year. The coal production, on the contrary, was large, amounting to 16,500,270 short tons.² But as only a small amount of the coal mined in the state is made into coke,³ the blast furnaces are supplied with their most important fuel chiefly by Pennsylvania and West Virginia. Natural gas is used in a few of the rolling mills and steel works.

The manufacture of iron and steel in 1900 was carried on chiefly in the eastern and northeastern parts of the state—Youngstown, Cleveland, Lorain, Bellaire, Mingo Junction, Niles, Steubenville, and Canal Dover turning out products valued at \$88,731,725, or 63.9 per cent of the total for the state. Columbus, in the central part of the state, and Ironton, in the southern part, are also important centers. Furnaces in these districts use some local coal, and in some cases use local ores entirely. In general, however, the localization of the industry shows little relation to the deposits of iron and coal in Ohio, being rather a result of the accessibility of the eastern and northeastern parts of

¹ United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 34.

² Ibid., page 479.

³ Ibid., page 588.

the state to the Connellsville, Pa., and West Virginia coke, and to the Lake Superior iron ore. None of the principal consuming points in other states, except Pittsburg and the Shenango Valley in Pennsylvania, receive Connellsville coke so cheaply,¹ and none of the eastern iron centers are as favorably located in relation to the Lake Superior mines. In the early years of the century, the industry was dependent chiefly upon local deposits of bog and other iron ores, and upon the supply of wood for the manufacture of charcoal. The first furnace in Ohio was established in 1804 on Yellow Creek, in the Mahoning Valley, near Youngstown, which in 1900 was the leading city in the state in the iron and steel industry.² On the Lake Erie shore the industry probably dates from 1825, when a furnace was operated in the present county of Lake, east of Cleveland. Furnaces multiplied rapidly in this section during the next twelve years, but declined with the exhaustion of the forests which supplied the charcoal used as fuel. In those early years the most important center for the industry was the celebrated Hanging Rock district, in the south central part of the state, bordering upon the Ohio River. In 1832 a furnace, located in this district, shipped pig iron to New York by way of New Orleans "at a fair profit," and had exported a small amount on order to England.³ Of the 35,236 tons of iron produced in the state in 1840, 20,574 tons were from the furnaces of Lawrence county, in this district. The first furnace in Ohio to use bituminous coal was built expressly for the purpose in Mahoning county, in 1846, and from that time coal furnaces increased rapidly. At a later date coke became the principal fuel. The state exempted from payment of toll on the canals all fuel to be used in iron works.⁴

Closely allied to the iron and steel manufacture is the manufacture of tin and terne plate, in which industry Ohio ranked third in 1900. There were 12 establishments in operation having products valued at \$6,023,314. This manufacture was not shown separately in 1890, and for this reason its statistics for 1900 are shown only in Table 7.

The manufacture of foundry and machine shop products ranked second among the industries of the state in 1900, with 861 establishments, 41,799 wage-earners, and products valued at \$72,399,632. In 1890 there were 600 establishments, 24,795 wage-earners, and products valued at \$43,617,072. The increase in the value of products during the decade was \$28,782,560, or 66 per cent. These products included engines, boilers, and machinery of many varieties. The industry is carried on extensively in all the leading cities of the state, but Cleveland and Cincinnati, in the order named, are the most important centers. In 1900 Ohio led all other states in the manufacture of metal-working machinery, and ranked third in the manufac-

ture of pumping machinery. The manufacture of machine tools and wood-working machinery is made a specialty at Cincinnati; mining machines are made at Akron and Columbus, and machine tools at Hamilton. Machinery, stoves, and machine tools are exported.⁵ The manufacture of foundry and machine shop products has always been one of the most important in the state, ranking second in 1850 as well as in 1900. In the early years of the century it was confined very largely to the city of Cincinnati, being favored in that locality by cheap water communication with the coal fields of Pennsylvania, West Virginia, and southern Ohio, and by the facilities for receiving pig and other crude iron from the Pittsburg district. The states of the Mississippi Valley have always constituted the principal market for Ohio machinery. A shop for the manufacture of cotton and woolen machinery was built at Cincinnati in 1809.⁶ Steam navigation on the Ohio and Mississippi rivers created a demand for steamboats and steam engines, which was the chief cause of the great prosperity this city enjoyed between the years 1820 and 1832. In 1835 its foundries and machine shops manufactured 100 steam engines, 240 cotton gins, 20 sugar mills, and 22 boilers.⁷ Between 1831 and 1841, 1,500 plantation cotton-spinning machines were sent to the South from a single machine shop at Cincinnati.⁸ In 1851 there were 44 foundries and machine shops in that city. One-third of these manufactured stoves almost exclusively, as many as 1,000 stoves being produced in a single day.⁹ The first steam fire engines put into regular service in the United States were built at Cincinnati in 1853.¹⁰

There were 1,150 establishments engaged in 1900 in the manufacture of flouring and grist mill products, the industry third in rank, with 2,438 wage-earners, and products valued at \$37,390,367. In 1890 there were 910 establishments, 3,311 wage-earners, and products valued at \$39,468,409. The decrease in the value of products during the decade was \$2,078,042, or 5.3 per cent. Ohio ranked third in the United States in this industry in 1900. The most important of the products was wheat flour, valued at \$26,060,327. The mills were widely scattered over the state, the greatest value of products being shown for Lucas county, which includes the city of Toledo. Ohio is the easternmost state in the corn belt. It produced 99,048,816 bushels of corn in 1899, and 39,998,006 bushels of wheat, ranking seventh in the former and third in the latter.¹¹ Flour and grist milling is one of the oldest industries in Ohio, flour having been sent to New Orleans as early as 1803.¹² In 1814 a nine-storied steam flour mill, famous in its day, was built at Cincinnati. In 1815

⁵ Report of the Cincinnati Chamber of Commerce, 1900, page 107.

⁶ A Picture of Cincinnati, 1815, by Daniel Drake, page 143.

⁷ Western Monthly Magazine, January, 1836, page 27.

⁸ Cincinnati in 1841, by Charles Cist, page 250.

⁹ Cincinnati in 1851, by Charles Cist, page 192.

¹⁰ One Hundred Years of American Commerce, Vol. II, page 345.

¹¹ Yearbook of the Department of Agriculture, 1899, pages 765 and 766.

¹² The Journal of a Tour, supra cit., page 146.

¹ Treasury Department: Monthly Summary of Commerce and Finance for January, 1901, page 1699.

² Tenth Census of the United States, Manufactures, folio 838 ff.

³ Documents Relative to Manufactures in the United States in 1832, Twenty-second Congress, first session, Executive Document No. 308, part 2, pages 861 and 866.

⁴ Hunt's Merchants' Magazine, vol. 25, page 126.

large quantities of Indian meal were exported to the West Indies.¹ In 1817 the first warehouse in Toledo for the receipt of grain was built, and in 1838 grain supplies began to reach that city from southern Michigan. In the same year a crude horsepower corn elevator was built, the first, it is claimed, to be constructed in the West.² The completion of the Wabash Canal in 1851, and of the Toledo, Wabash, and Western Railroad in 1856, diverted to Toledo the greater part of the traffic of central Indiana and Illinois, at that time the most productive region of the West.³ In 1899 Toledo stood sixth in rank in grain receipts, and fourth in rank in corn receipts, among the primary grain markets of the United States.⁴

There were 190 establishments engaged in the manufacture of liquors in 1900, with 3,978 wage-earners, and products valued at \$31,771,591. In 1890 there were 179 establishments, 3,666 wage-earners, and products valued at \$28,484,290. The increase in the value of products during the decade was \$3,287,301, or 11.5 per cent. These products included, in 1900, malt liquors valued at \$18,522,639, distilled liquors valued at \$12,447,268, and vinous liquors valued at \$801,684.

The relative importance of the production of malt and distilled liquors has been reversed during the last half century. In 1850 the production of distilled liquors was valued at \$3,040,604, and the production of malt liquors at only \$528,998. The distribution of the malt liquor industry in 1900 corresponded approximately to the distribution of population. The distillation of liquors in the state has always been greatest at Cincinnati, where it is favored by the large corn production of Ohio, Kentucky, and Indiana. Ohio ranked third in this industry in 1900, the distilled liquors produced in Cincinnati being valued at \$9,419,687, or 75.7 per cent of the total for the state. The industry was carried on in Ohio at least as early as 1803, when whiskey was sent from Cincinnati to New Orleans.⁵ At the census of 1810, distilleries were reported in each of the 36 counties of the state, producing in all, 1,212,266 gallons of whiskey. Several of the largest distilleries in the world are located at Cincinnati, and some of the whiskey produced is exported.⁶

The cultivation of Catawba grapes and the manufacture of wine were begun in the Ohio Valley about the year 1825.⁷ In 1851 there were 40 manufacturers of wine in the city of Cincinnati. About the year 1858 the climate of southern Ohio became unfavorable to the culture of grapes, and grape growing and wine manufacturing have localized recently in the counties along the shore of Lake Erie, the most important centers being near Kelleys and

Put In Bay islands, where there are 6,000 acres of vineyards. In 1900 Ohio ranked third in the United States in this branch of the industry.

There were 1,196 establishments engaged in the manufacture of tobacco in 1900, with 12,189 wage-earners, and products valued at \$20,832,629. In 1890 there were 995 establishments, 8,259 wage-earners, and products valued at \$16,387,719. The increase in the value of products during the decade was \$4,444,910, or 27.1 per cent. In 1900 the products included chewing and smoking tobacco and snuff, valued at \$5,752,853; cigars and cigarettes, valued at \$11,239,824; and stemmed and rehandled tobacco, valued at \$3,839,952. The manufacture is carried on most largely at Cincinnati. The southwestern part of Ohio and the north central part of Kentucky, immediately opposite, constitute one of the largest tobacco-growing regions in the United States. Tobacco manufacturing was probably carried on in Ohio before the year 1810, a tobaccoist having reported in 1832 that he had been manufacturing at Cincinnati by steam power for five years, and by horsepower for twenty years previously.⁸

There were 2,054 establishments engaged in the manufacture of lumber and timber products in 1900, with 8,539 wage-earners, and products valued at \$20,790,854. In 1890 there were 1,461 establishments, 11,727 wage-earners, and products valued at \$15,279,843. The increase in the value of products during the decade was \$5,511,011, or 36.1 per cent. The characteristic product of the Ohio mills is hard-wood lumber, more than half of which consists of white oak. The small quantities of white and Norway pine lumber manufactured in the state were reported from points along the Lake Erie shore, particularly from Cleveland and Toledo. Cincinnati was the point of greatest production in the state during the census year, the 6 mills reported turning out products, consisting mainly of oak and poplar lumber and veneers, valued at \$2,044,650. The total quantity of lumber sawed in the state during the census year was 990,497,000 feet, board measure. The industry was naturally one of the earliest in the history of the state, and its growth has been steady during the half century. Lumber and staves were sent to New Orleans as early as 1803,⁹ and in 1815 a steam saw-mill was in operation at Cincinnati.⁹

There were 71 establishments engaged in slaughtering and meat packing in 1900, with 1,765 wage-earners, and products valued at \$20,660,780. In 1890 there were 138 establishments, 1,346 wage-earners, and products valued at \$17,012,198. The increase in the value of products during the decade was \$3,648,582, or 21.4 per cent. Cincinnati has always been the chief center of this industry. In 1900 the production of this city was valued at \$10,370,177, or 50.2 per cent of the total for the state, Cleveland ranking second, with products valued at \$7,514,470. The earliest packing houses were flat boats on the Ohio River,

¹ A Picture of Cincinnati, 1815, pages 137 and 148.

² History of the City of Toledo, and Lucas County, Ohio, by Clark Waggoner, pages 464 and 466.

³ History of the Maumee Valley, by H. S. Knapp, pages 623 and 624.

⁴ Treasury Department: Monthly Summary of Commerce and Finance for January, 1901, page 1612.

⁵ The Journal of a Tour, supra cit., page 146.

⁶ Report of the Cincinnati Chamber of Commerce, 1900, page 107.

⁷ Ohio, by Rufus King, pages 415 to 417.

⁸ Documents Relative to Manufactures, supra cit., page 870.

⁹ History of Cincinnati, compiled by Henry A. Ford and Mrs. Kate B. Ford, page 325.

and in 1803 beef and pork were shipped from Cincinnati to New Orleans.¹ The pioneer establishment of the western packing industry, as now understood, was founded at Cincinnati in 1818, by Elisha Mills.² In 1833, 85,000 hogs were packed for the market, and in 1851 the number had increased to 324,529. Between 1842 and 1852 Cincinnati packed 27 per cent of the hogs packed in the United States, and was the first city to receive the sobriquet of Porkopolis on this account. Its preeminence was due to its shipping facilities and to its location close to the junction of Ohio, Kentucky, and Indiana, the three largest hog-raising states in the United States at that time.³ Since 1861 the center of corn production has moved westward, and Chicago, Kansas City, and Omaha have taken from Cincinnati its early precedence in this industry. Prior to 1872 meat packing in Cincinnati was confined to the winter months. In that year, by means of artificial refrigeration, summer packing was made possible, and the inevitable decline in the industry at Cincinnati was delayed until 1879.

Closely allied to slaughtering and meat packing is the manufacture of soap and candles. There were 55 establishments engaged in this manufacture in 1900, with 1,427 wage-earners, and products valued at \$8,150,069. In 1890 there were 49 establishments, 1,013 wage-earners, and products valued at \$5,746,660. The increase in the value of products during the decade was \$2,403,409, or 41.8 per cent. Over 2,500,000 pounds of candles and over 15,000,000 pounds of soap were made at Cincinnati in 1851.⁴

There were 1,253 establishments engaged in printing and publishing in 1900, with 11,021 wage-earners, and products valued at \$20,391,868. In 1890 there were 987 establishments, 9,026 wage-earners, and products valued at \$17,188,851. The increase in the value of products during the decade was \$3,203,017, or 18.6 per cent. These products included the printing and publishing of newspapers and periodicals, valued at \$12,189,640; book and job printing, valued at \$7,941,570; and the printing and publishing of music, valued at \$260,658. This industry is centered largely in the city of Cincinnati, which has for a long time taken high rank in the publishing of school books and music. A newspaper was published at Cincinnati as early as 1793.⁵

There were 81 establishments engaged in the factory manufacture of boots and shoes in 1900, with 12,718 wage-earners, and products valued at \$17,920,854. In 1890 there were 63 establishments, 5,743 wage-earners, and products valued at \$8,489,728. The increase in the value of products during the decade was \$9,431,126, or 111.1 per cent. These products included women's shoes valued at \$12,096,360, and misses' and children's shoes valued at

\$3,272,732. Ohio has always been the largest boot and shoe manufacturing state west of the Allegheny Mountains, ranking fourth in this industry in 1900. In 1851 there were 5 shoe factories in Cincinnati,⁶ and in 1900 this city ranked third in the United States in the manufacture of women's and children's shoes. Columbus and Portsmouth were also important centers. The industry is favored by the large western market and by the local production of leather.

There were 539 establishments engaged in the factory manufacture of men's clothing in 1900, with 6,521 wage-earners, and products valued at \$16,593,824. In 1890 there were 508 establishments, 15,210 wage-earners, and products valued at \$20,604,134. The decrease in the value of products during the decade was \$4,010,310, or 19.5 per cent. Allied to this industry is the factory manufacture of women's clothing, with 126 establishments in 1900, 4,817 wage-earners, and products valued at \$7,772,771. In 1890 there were 31 establishments, 2,546 wage-earners, and products valued at \$4,352,098. The increase in the value of products during the decade was \$3,420,673, or 78.6 per cent. The greater part of the clothing manufacture of Ohio has always been carried on in Cincinnati. In 1832 a tailor in that city employed 6 men and 8 women, and had begun to make clothing for the outside market.⁷ The factory manufacture of men's clothing advanced rapidly until 1880; there was only a slight gain during the next decade, and a decline between 1890 and 1900. In addition to the 813 wage-earners employed in the shops of Cincinnati in 1841, nearly 4,000 women were engaged in this industry at their homes.⁸ The products of these factories found a market in all the states of the South and West. In 1894 much of the manufacturing was still carried on at the homes of the workers in Cincinnati and the neighboring towns, and in the cities of Covington and Newport in Kentucky.⁹ The factory manufacture of women's clothing has developed recently, alongside the factory manufacture of men's clothing, and its advance has been continuous. In 1900 the value of products in Cleveland was \$4,213,248, compared with \$2,074,805 in Cincinnati.

There were 543 establishments engaged in the manufacture of carriages and wagons in 1900, with 7,274 wage-earners, and products valued at \$15,919,173. In 1890 there were 709 establishments, 9,493 wage-earners, and products valued at \$18,777,866. The decrease in the value of products during the decade was \$2,858,693, or 15.2 per cent. These products included family and pleasure carriages valued at \$11,271,303, business and farm wagons valued at \$2,576,867, and automobiles and other horseless conveyances valued at \$147,000. Ohio ranked first in this industry in 1900.

Closely allied to the manufacture of carriages and wagons

¹The Journal of a Tour, supra cit., page 146.

²Philip D. Armour, in One Hundred Years of American Commerce, Vol. II, page 333 ff.

³Hunt's Merchants' Magazine, vol. 25, page 432.

⁴Cincinnati in 1851, page 285.

⁵Tenth Census of the United States, Vol. VIII, The Newspaper and Periodical Press, page 314.

⁶Cincinnati in 1851, page 176.

⁷Documents Relative to Manufactures, supra cit., page 370.

⁸Cincinnati in 1841, page 57.

⁹Report of the Ohio Bureau of Labor Statistics, 1894, page 57 ff.

is the manufacture of carriage and wagon materials. There were 109 establishments engaged in this industry in 1900, with 4,529 wage-earners, and products valued at \$7,186,271. In 1890 there were 99 establishments, 2,697 wage-earners, and products valued at \$4,310,607. The increase in the value of products during the decade was \$2,875,664, or 66.7 per cent. These products included carriage and wagon bodies, wheels, spokes, and other parts. These two branches of the industry were carried on most extensively at Cincinnati and Columbus, lighter vehicles being made a specialty. Their importance is due in a large measure to the abundance of hard-wood timber and leather. Carriage manufacturing was one of the early industries of Cincinnati. It is recorded that the first steel-spring gig ever seen in that city was manufactured there in 1825.¹ In 1851, 24 factories were in operation in Cincinnati.²

There were 78 establishments engaged in the manufacture of agricultural implements in 1900, with 6,852 wage-earners, and products valued at \$13,975,268. In 1890 there were 106 establishments, 7,701 wage-earners, and products valued at \$14,333,258. The decrease in the value of products during the decade was \$357,990, or 2.5 per cent. Ohio ranked first in this industry in 1880, and second in 1890 and 1900. Plow making was carried on in a crude manner in Cincinnati as early as 1813,¹ and in 1832 an establishment in Columbus manufactured 1,500 plows per annum.³ The preeminence of the state in agriculture created an extensive market in the middle of the century, while the forests of hard wood and the local or nearby manufactures of iron furnished abundant supplies of the chief materials. What has grown to be one of the largest factories of its kind in the United States was established at Springfield in 1854. Important centers in 1900 were Springfield, Dayton, Canton, and Akron. Each year whole train loads of these products leave Springfield for the West and Northwest, and for Eastern ports to be shipped to Russia, Australia, and other grain-growing countries.

There were 91 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 11,534 wage-earners, and products valued at \$12,975,182. In 1890 there were 64 establishments, 7,397 wage-earners, and products valued at \$8,096,905. The increase in the value of products during the decade was \$4,878,277, or 60.2 per cent. The industry is centered in the cities of Columbus, Cleveland, Dennison, and Toledo. In addition to repairing, which constituted the greater part of the work of these establishments, 9 passenger cars and 1,334 freight cars were built during the census year.

There were 248 establishments engaged in the manufacture of pottery, terra cotta, and fire-clay products in 1900, with 11,870 wage-earners, and products valued at \$11,851,225. In 1890 there were 125 establishments, 4,606 wage-earners, and products valued at \$5,047,501. The increase in the value of products during the decade

was \$6,803,724, or 134.8 per cent. The pottery products were valued at \$6,994,805, and the terra cotta, fire and other clay products at \$4,843,615. Ohio rose from second to first rank in this industry between 1890 and 1900. In the latter year the total value of its pottery, terra cotta, and fire-clay products constituted 26.8 per cent of the total for the United States. The rank of Ohio in this industry is due very largely to the development of its extensive deposits of suitable clays.⁴ The value of special technical training in this line is appreciated, and a department of ceramics was established in the State University at Columbus in 1894.⁵

The manufacture of white ware, the most important of the several branches of the industry, is carried on chiefly in the city of East Liverpool, on the Ohio River, in the eastern part of the state. This city is unique in the United States in that its industrial activity is confined almost entirely to the manufacture of pottery. Of the 4,473 wage-earners employed in all industries in this city in 1900, 3,908, or 87.4 per cent, were employed in the pottery manufacture. The manufacture of yellow ware has been carried on at this point since 1839, but the manufacture of white ware, begun in 1872, has become the more important branch of the industry. In 1900 the white granite ware and semivitreous porcelain manufactured in East Liverpool were valued at \$2,808,445, or 49.1 per cent of the total for the United States. The manufacture of white ware does not have the advantages of suitable clays near at hand, the kaolin and other fine clays used for the manufacture of china and porcelain being brought from a considerable distance. The remarkable development of the manufacture in East Liverpool, between 1872 and 1892, was due chiefly to the supply of specially skilled labor which had been attracted to that point from English pottery centers, in order to engage in the manufacture of coarser wares.

Zanesville, Roseville, and Akron have always been important centers for the manufacture of yellow and earthen ware, the industry in the early years of the century being carried on chiefly by farmers, who made use of the clays found in abundance on their lands. Products were sent down the Muskingum to markets on the Ohio River, and even to New Orleans. In recent years, however, the farmer-potter has been driven from the field by the concentration which has followed the introduction of improved machinery. Art tiling is manufactured extensively at Zanesville, and since 1880 Cincinnati has been an important center for the manufacture of art pottery. Ohio manufactures more than one-third of the sewer pipe made in the United States. There are large factories at and near Akron, and for many miles along the Ohio River. The manufacture was begun in the state in 1848, and considerable quantities of pipe are exported.

Allied to the manufacture of pottery is the manufacture of brick and tile, the statistics of which are shown in

¹ History of Cincinnati, page 324.

² Cincinnati in 1851, page 183.

³ Documents Relative to Manufactures, supra cit., page 862.

⁴ Report of the Geological Survey of Ohio, Vol. V, page 643 ff.

⁵ Report of the Ohio Bureau of Labor Statistics, 1895, page 9 ff.

Table 7. The products for the year 1900 were valued at \$4,629,587. This industry is carried on in Ohio, not chiefly for the supply of local building needs, as in most other states, but for the general market. Vitrified paving brick is made in large quantities at Zanesville and Canton and sent into many other states. Pressed brick is also an important product in Zanesville. The first pressed brick manufactured west of the Ohio River was made in that city in 1861.

There were 354 establishments engaged in the manufacture of planing mill products in 1900, with 4,696 wage-earners, and products valued at \$11,066,671. In 1890 there were 335 establishments, 5,356 wage-earners, and products valued at \$12,910,538. The decrease in the value of products during the decade was \$1,843,867, or 14.3 per cent.

There were 165 establishments engaged in the factory manufacture of furniture in 1900, with 6,723 wage-earners, and products valued at \$9,514,764. In 1890 there were 215 establishments, 7,076 wage-earners, and products valued at \$9,988,129. The decrease in the value of products during the decade was \$473,365, or 4.7 per cent. This industry began at an early date in Ohio, the manufacture of desks, escritaires, and veneered tables being advertised in a local newspaper in 1800, and in 1815 mahogany was brought from Central America to be manufactured into tables, chairs, and bureaus at Cincinnati.¹ The manufacture was carried on largely during the census year at Cincinnati and Cleveland. The first-named city is an important market for the hard-wood lumber of Kentucky, Tennessee, and West Virginia, and the furniture manufactured is shipped throughout the middle West, and exported.²

There were 9 establishments engaged in the refining of petroleum in 1900, with 1,008 wage-earners, and products valued at \$8,396,977. In 1890 there were 15 establishments, 1,976 wage-earners, and products valued at \$16,343,493. The decrease in the value of products during the decade was \$7,946,516, or 48.6 per cent. In 1899 the wells of Ohio produced more petroleum than those of any other state, the greater part of which was shipped, or piped, to refineries in other states.³ In 1900 Ohio ranked fifth in the refining industry, Lima, Cleveland, and Toledo being the principal centers.

There were 19 establishments engaged in the manufacture of rubber and elastic goods in 1900, with 3,505 wage-earners, and products valued at \$7,330,104. In 1890 there were 7 establishments, 658 wage-earners, and products valued at \$1,486,777. The increase in the value of products during the decade was \$5,843,327, or 393 per cent. Rubber and elastic goods valued at \$5,524,674, or 75.4 per cent of the total for the state, were reported for Akron,

this city being one of the most important centers of the industry in the United States.

There were 31 establishments engaged in the manufacture of food preparations in 1900, with 1,100 wage-earners, and products valued at \$7,166,532. In 1890 there were 35 establishments, 270 wage-earners, and products valued at \$1,029,842. The increase in the value of products during the decade was \$6,136,690, or 595.9 per cent.

There were 51 establishments engaged in the manufacture of paper and wood pulp in 1900, with 3,184 wage-earners, and products valued at \$6,543,513. In 1890 there were 50 establishments, 2,921 wage-earners, and products valued at \$7,209,750. The decrease in the value of products during the decade was \$666,237, or 9.2 per cent. These products included manila paper valued at \$1,368,700, book paper valued at \$942,642, and straw-board valued at \$800,038. The industry is carried on largely in Butler, Montgomery, and Warren counties. The first mill in Ohio was built in 1805 on Little Beaver Creek, in the eastern part of the state,⁴ and in 1832 there were 8 paper factories in operation at and above Cincinnati, for the supply of the book and news printing industry of that city.⁵

There were 64 establishments engaged in the manufacture of electrical apparatus and supplies in 1900, with 3,773 wage-earners, and products valued at \$6,504,847. In 1890 there were 11 establishments, 348 wage-earners, and products valued at \$604,780. The increase in the value of products during the decade was \$5,900,067, or 975.6 per cent. One of the largest plants in the world for the manufacture of carbon points for arc lights is located at Cleveland.⁶

There were 26 establishments engaged in the roasting and grinding of coffee and spice in 1900, with 678 wage-earners, and products valued at \$5,849,644. In 1890 there were 32 establishments, 488 wage-earners, and products valued at \$7,806,763. The decrease in the value of products during the decade was \$1,957,119, or 25.1 per cent.

There were 58 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 1,384 wage-earners, and products valued at \$5,182,065. In 1890 there were 113 establishments, 1,447 wage-earners, and products valued at \$6,701,670. The decrease in the value of products during the decade was \$1,519,605, or 22.7 per cent. The most extensive operations were at Cincinnati. There were 6 tanneries in that city in 1815,⁷ and large quantities of Ohio leather were shipped to New York in 1847, the greater part of which was exported to England.⁸ The value of products increased between 1850 and 1880, but has decreased since that year. The industry has been

¹ History of Cincinnati, pages 324 and 326.

² Report of the Cincinnati Chamber of Commerce, 1900, page 107.

³ United States Geological Survey: Mineral Resources, 1899, Nonmetallic Products, except Coal and Coke, page 88.

⁴ Eighth Census of the United States, Manufactures, Introduction, page cxxv.

⁵ Documents Relative to Manufactures, supra cit., page 868.

⁶ One Hundred Years of American Commerce, Vol. II, page 379.

⁷ A Picture of Cincinnati, 1815, page 146.

⁸ Hunt's Merchants' Magazine, vol. 17, page 93.

avored until recently by the abundance of oak bark available for tanning purposes.

There were 28 establishments engaged in the manufacture of glass in 1900, with 4,546 wage-earners, and products valued at \$4,547,083. In 1890 there were 59 establishments, 6,435 wage-earners, and products valued at \$5,649,182. The decrease in the value of products during the decade was \$1,102,099, or 19.5 per cent. These products included tableware valued at \$668,469; beer, soda, and mineral water bottles valued at \$637,428; and lamp chimneys valued at \$622,721. In 1815 a glass factory was built at Cincinnati, and at the census of 1820 window glass and hollow ware were shown among the manufactures of that city. In 1831 a window-glass works was reported at Zanesville, and another at Moscow.¹ The industry first became of importance in Ohio between 1880 and 1890, in consequence of the use of natural gas, and declined somewhat between 1890 and 1900, because of the removal of many factories to the Indiana gas region. Oil, also, was used as a fuel to some extent during the census year, the cost of natural gas and oil amounting to \$142,515, or 57.1 per cent of the total cost of fuel used in the industry. Since the introduction of natural gas as a fuel in glass works at Findlay, in 1884, there has been a continual change in the distribution of the industry in the state, factories moving rapidly from one locality to another as the

¹Tenth Census of the United States, Manufactures, folio 1135.

earlier gas fields became exhausted and new fields were opened up.² The industry was largely carried on in 1900 in Belmont, Lucas, and Licking counties.

In addition to the industries included in Table 3, attention is directed to two other industries, the statistics of which are shown in Table 7. There were 5 establishments engaged in the manufacture of cash registers in 1900, with products valued at \$5,414,711. The city of Dayton is one of the chief centers for this manufacture in the United States, the value of its products being \$4,927,261, or 91 per cent of the total for the state. There were 20 establishments engaged, in 1900, in the manufacture of grindstones, with products valued at \$906,459. The importance of this industry is due to the existence, in the vicinity of Cleveland, of a superior variety of sandstone known as the "Berea grit." By far the greater part of the grindstones manufactured in the United States are made in Ohio, and considerable quantities are exported.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, Youngstown, and Zanesville, as returned at the censuses of 1890 and 1900, with the percentages of increase.

²Testimony of the Ohio State Geologist, supra cit.

TABLE 4.—COMPARATIVE SUMMARY, AKRON, CANTON, CINCINNATI, CLEVELAND, COLUMBUS, DAYTON, SPRINGFIELD, TOLEDO, YOUNGSTOWN, AND ZANESVILLE, 1890 AND 1900, WITH PER CENT OF INCREASE.

	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.			
The State	1900	32,398	\$605,792,266	345,869	\$153,955,330	\$69,728,206	\$417,819,677	\$832,438,113
	1890	28,073	402,793,019	292,982	128,447,799	45,062,325	311,016,464	641,688,064
Per cent of increase		13.0	50.4	18.1	19.9	54.7	31.3	29.7
Akron	1900	431	24,189,310	9,030	3,971,307	1,779,804	13,474,282	23,610,099
	1890	350	14,237,429	5,808	2,693,305	977,471	6,928,481	12,550,038
Per cent of increase		23.1	70.0	55.6	47.5	82.1	94.5	88.1
Canton	1900	502	10,094,813	6,455	2,970,245	1,081,809	5,694,399	12,258,427
	1890	420	11,387,406	6,360	3,208,641	952,010	4,948,508	11,891,810
Per cent of increase		19.5	11.4	1.5	7.4	13.6	13.3	3.2
Cincinnati	1900	5,127	109,682,142	63,240	27,189,069	22,876,620	77,539,202	157,806,834
	1890	7,832	104,483,032	84,167	30,728,511	19,937,152	92,545,231	196,063,983
Per cent of increase		34.5	4.9	24.9	26.0	14.7	16.2	19.5
Cleveland	1900	2,927	98,303,682	58,810	27,892,689	11,565,697	71,597,595	139,649,806
	1890	2,307	69,732,761	45,915	23,507,940	4,902,256	65,645,649	113,240,115
Per cent of increase		26.9	41.0	28.1	18.7	135.9	9.1	23.5
Columbus	1900	914	25,992,136	17,066	7,718,824	4,014,022	20,194,532	39,656,848
	1890	708	16,178,703	12,053	5,658,096	1,715,056	11,183,710	22,887,586
Per cent of increase		29.1	56.9	41.6	36.4	134.0	80.6	73.4
Dayton	1900	1,096	28,027,518	16,869	7,959,792	3,295,885	10,800,911	35,697,695
	1890	937	13,469,964	10,614	4,737,383	1,459,655	11,686,140	22,446,572
Per cent of increase		17.0	108.1	58.9	68.0	125.8	43.8	59.0
Springfield	1900	305	14,091,175	6,638	3,160,119	1,286,798	5,569,261	12,777,173
	1890	372	14,567,931	6,101	2,662,672	1,046,032	4,752,032	10,760,965
Per cent of increase		18.0	13.3	8.8	18.7	23.0	17.2	18.7
Toledo	1900	1,050	25,591,916	15,333	6,845,687	3,068,389	21,086,798	37,372,355
	1890	734	12,700,872	9,247	4,333,322	1,246,042	12,189,924	21,651,574
Per cent of increase		43.1	101.5	66.4	58.0	146.3	80.4	72.6
Youngstown	1900	260	22,360,097	9,150	4,951,460	968,636	23,541,769	34,801,101
	1890	245	7,542,742	5,486	3,295,952	462,785	9,380,929	14,667,260
Per cent of increase		6.1	196.4	66.8	50.2	109.3	151.0	137.3

¹Decrease.

TABLE 4.—COMPARATIVE SUMMARY, AKRON, CANTON, CINCINNATI, CLEVELAND, COLUMBUS, DAYTON, SPRINGFIELD, TOLEDO, YOUNGSTOWN, AND ZANESVILLE, 1890 AND 1900, WITH PER CENT OF INCREASE—Continued.

	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.			
Zanesville	1900	293	\$5,162,067	4,603	\$1,786,005	\$365,338	\$3,756,489	\$7,468,839
Per cent of increase.....	1890	301	4,200,409	3,888	1,325,590	393,616	3,331,626	6,053,484
		12.7	22.9	35.9	34.7	17.2	12.8	23.4
Total for 10 cities.....	1900	12,905	362,804,856	207,244	94,445,197	50,299,998	260,065,328	501,309,177
Per cent of increase.....	1890	14,206	268,500,749	189,134	88,151,412	33,092,335	222,592,269	432,208,987
		9.2	35.1	9.6	7.1	52.0	16.8	16.0
Per cent of 10 cities to total for state.....	1900	39.8	59.9	59.9	61.3	72.1	58.1	60.2
	1890	49.5	66.7	61.6	68.6	73.4	65.3	67.4

¹Decrease.

It appears from Table 4 that there has been a considerable increase during the past decade in the combined manufactures of these 10 cities. The average number of wage-earners increased from 189,134 to 207,244, or 9.6 per cent, and the value of products from \$432,203,987 to \$501,309,177, or 16 per cent, but the number of establishments decreased from 14,206 to 12,905, or 9.2 per cent. The percentage of increase in the average number of wage-earners and in the value of products was smaller in these cities than in the state as a whole. The city of Youngstown shows the most rapid growth, the value of products having increased from \$14,667,260 to \$34,801,101, or 137.8 per cent. In Cincinnati, the leading manufacturing city in the state, the number of establishments decreased from 7,832 to 5,127, or 34.5 per cent; the average number of wage-earners from 84,167 to 63,240, or 24.9 per cent; and the value of products from \$196,063,983 to \$157,806,834, or 19.5 per cent. The number of establishments, number of wage-earners, and value of products, in this city in 1900, constituted 15.8, 18.3, and 19 per cent, respectively, of the totals for the state.

The value of products manufactured in the cities of Cincinnati and Cleveland amounted in 1880 to \$153,859,215 and in 1900 to \$297,656,640, constituting 44.2 and 35.8 per cent, respectively, of the totals for the state. There has been a noteworthy change in the relative positions of these cities during the century. Cincinnati was founded first, and developed early as a manufacturing city. In 1840 the capital invested in manufactures in this city was \$7,469,912, compared with \$128,632 in the city of Cleveland. During the first half of the century, the latter was chiefly a commercial center, but its development since 1860 as a manufacturing center has been rapid. The value of its products in 1900, \$139,849,806, was almost equal to that of Cincinnati, \$157,806,834.

The leading manufacturing industries of Cincinnati, in the order of their importance, were clothing, men's, factory product; foundry and machine shop products; slaughtering and meat packing; liquors, distilled; boots and shoes, factory product; liquors, malt; carriages and wagons; tobacco, cigars and cigarettes; and furniture, factory product.

In Cleveland, the city second in rank, the leading manufacturing industries were iron and steel; foundry and machine shop products; slaughtering and meat packing; clothing, women's, factory product; liquors, malt; clothing, men's, factory product; electrical apparatus and supplies; shipbuilding, iron and steel; petroleum, refining; bridges; and iron and steel, bolts, nuts, washers, and rivets.

In Columbus, the city third in rank, the leading manufacturing industries were iron and steel; foundry and machine shop products; boots and shoes, factory product; cars and general shop construction and repairs by steam railroad companies; carriages and wagons; liquors, malt; patent medicines and compounds; and oleomargarine.

In Toledo, the city fourth in rank, the leading manufacturing industries were flouring and grist mill products; coffee and spice, roasting and grinding; foundry and machine shop products; bicycles and tricycles; liquors, malt; petroleum, refining; lumber and timber products; and oil, linseed.

In Dayton, the city fifth in rank, the leading manufacturing industries were foundry and machine shop products; cash registers; cars, steam railroad, not including operations of railroad companies; tobacco, cigars and cigarettes; agricultural implements; slaughtering and meat packing; sewing machines and attachments; tobacco, stemming and rehandling; and liquors, malt.

In Youngstown, the city sixth in rank, the leading manufacturing industries were iron and steel; foundry and machine shop products; iron and steel pipe, wrought; and lumber, planing mill products.

In Akron, the city seventh in rank, the leading manufacturing industries were food preparations; rubber and elastic goods; foundry and machine shop products; printing and publishing, book and job; agricultural implements; pottery, terra cotta, and fire-clay products; oilcloth, enameled; and flouring and grist mill products.

In Springfield, the city eighth in rank, the leading manufacturing industries were agricultural implements; foundry and machine shop products; and printing and publishing, newspapers and periodicals.

In Canton, the city ninth in rank, the leading manufac-

turing industries were agricultural implements; ironwork, architectural and ornamental; iron and steel; watch cases; and foundry and machine shop products.

In Zanesville, which ranks tenth in Table 4, but which is the city fifteenth in rank in the state, the leading manufacturing industries were pottery, terra cotta, and fire-clay products; soap and candles; agricultural implements; and iron and steel.

Table 5 presents the totals for the manufacturing industries of the 101 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.		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	32,398	\$605,792,266	86,624	345,869	\$153,956,330	\$69,728,206	\$447,849,677	\$832,438,113	100.0		4,157,545	100.0	
Total for urban manufactures	21,005	524,748,522	22,979	302,176	136,378,160	64,041,858	380,094,808	719,792,803	86.5		1,913,903	46.0	
Akron	431	24,199,310	427	9,030	3,971,307	1,779,804	13,474,282	23,610,099	7	2.8	42,728	7	1.0
Alliance	145	5,804,953	158	1,749	784,989	160,343	1,906,204	3,730,144	27	0.4	8,974	32	0.2
Ashtabula	90	764,127	80	440	188,562	67,950	575,219	997,848	71	0.1	12,949	23	0.3
Athens	39	306,632	45	215	95,865	27,671	158,314	366,052	96	(1)	3,063	91	0.1
Barberton	27	3,366,386	26	1,115	461,082	323,720	1,804,453	3,250,844	31	0.4	4,354	76	0.1
Barnesville	56	503,124	68	418	183,023	87,903	358,674	657,060	83	0.1	3,721	83	0.1
Bellaire	94	3,612,811	97	2,141	923,805	250,403	6,129,193	9,150,462	12	1.1	9,912	29	0.2
Bellefontaine	104	620,585	119	713	311,942	44,706	311,942	1,189,201	67	0.1	6,649	51	0.2
Belleuve	38	661,742	37	301	125,986	25,057	539,671	834,880	70	0.1	4,101	77	0.1
Bridgeport	23	1,717,473	23	1,614	911,421	61,653	2,874,661	4,793,847	25	0.6	3,963	79	0.1
Bryan	59	315,671	75	180	73,054	24,232	286,349	396,757	95	(1)	3,131	90	0.1
Bucyrus	91	1,011,031	103	751	338,535	78,535	557,220	1,300,327	64	0.2	6,560	53	0.2
Cambridge	65	1,201,662	74	849	523,339	32,401	1,488,670	2,459,368	41	0.3	8,241	37	0.2
Canal Dover	75	1,931,838	79	1,507	721,242	128,719	2,026,574	3,380,494	30	0.4	5,422	65	0.1
Canton	502	10,094,813	541	6,455	2,970,245	1,081,809	5,604,309	12,258,427	9	1.5	30,667	9	0.7
Carthage	24	404,420	27	369	143,361	802,443	415,216	1,537,273	56	0.2	2,559	100	0.1
Cellina	34	149,000	43	153	58,314	11,881	235,619	410,097	94	(1)	2,815	95	0.1
Chillicothe	115	914,447	128	1,223	454,644	96,614	914,665	1,709,895	53	0.2	12,976	22	0.3
Cincinnati	5,127	109,582,142	5,805	63,240	27,189,069	22,878,620	77,539,232	157,806,834	1	19.0	325,902	2	7.8
Cireleville	83	1,163,592	113	686	221,470	59,518	1,273,874	1,933,996	48	0.2	6,991	48	0.2
Cleveland	2,927	98,303,682	3,078	58,310	27,892,689	11,565,697	71,597,595	139,849,806	2	16.8	381,768	1	9.2
Columbus	914	25,392,136	963	17,066	7,718,824	4,014,022	20,194,532	39,666,848	3	4.8	125,560	4	3.0
Conneaut	65	595,115	87	651	285,634	36,192	540,056	1,008,423	70	0.1	7,133	46	0.2
Coshocton	48	806,023	44	1,083	339,120	66,647	778,215	1,438,912	61	0.2	6,473	55	0.1
Cuyahoga Falls	27	906,439	32	522	253,292	58,794	921,147	1,462,767	60	0.2	3,186	89	0.1
Dayton	1,096	28,027,518	1,197	16,869	7,959,792	3,295,885	16,800,911	35,697,695	5	4.3	85,333	5	2.0
Douane	100	1,141,426	115	936	356,951	87,931	814,712	1,609,334	54	0.2	7,579	43	0.2
Delaware	69	566,596	82	655	248,446	57,188	351,467	846,645	75	0.1	7,940	39	0.2
Delphos	59	369,524	72	286	119,202	37,197	225,928	519,730	90	0.1	4,517	75	0.1
Dennison	33	373,143	34	892	524,693	73,480	544,306	1,295,334	65	0.2	3,763	82	0.1
East Liverpool	162	5,056,198	173	4,473	2,150,938	341,135	1,759,408	5,459,043	22	0.7	16,485	18	0.4
Elmwood Place	23	770,096	26	301	153,168	8,227	441,813	743,536	79	0.1	2,532	101	0.1
Elyria	76	1,778,819	69	963	391,841	137,958	999,280	1,760,500	51	0.2	8,791	33	0.2
Findlay	232	2,152,202	309	1,478	633,505	165,613	1,122,537	2,514,356	40	0.3	17,613	17	0.4
Fostoria	97	1,532,627	97	795	278,529	54,550	1,203,515	2,645,205	37	0.3	7,730	41	0.2
Franklin	39	448,290	39	286	119,118	15,891	521,908	864,036	74	0.1	2,721	98	0.1
Fremont	136	2,616,545	135	1,504	599,286	152,323	1,822,880	2,621,951	39	0.8	8,439	36	0.2
Gallon	65	916,488	69	891	367,410	63,906	679,921	1,309,129	63	0.2	7,282	45	0.2
Gallipolis	89	491,907	91	468	159,479	54,833	368,482	781,063	80	0.1	5,432	64	0.1
Greenville	97	349,412	119	830	109,192	24,991	377,601	642,503	84	0.1	5,501	63	0.1
Hamilton	222	12,575,821	219	5,850	2,626,084	803,481	5,535,568	12,003,316	10	1.4	23,914	10	0.6
Hillsboro	48	331,539	49	293	114,135	18,140	305,399	574,988	87	0.1	4,535	74	0.1
Ironton	112	3,321,219	105	1,768	767,391	178,236	3,290,905	5,715,112	21	0.7	11,868	26	0.3
Jackson	43	454,008	44	147	60,363	16,899	256,791	510,111	91	0.1	4,672	70	0.1
Kent	59	723,218	60	945	405,237	18,195	1,079,937	1,599,562	55	0.2	4,541	73	0.1
Kenton	95	886,637	100	653	266,299	94,815	540,074	1,118,629	68	0.1	6,852	49	0.2
Lancaster	100	1,537,272	103	1,237	614,609	97,284	1,197,266	2,219,895	44	0.3	8,991	31	0.2
Lebanon	72	223,705	77	179	84,902	9,400	334,820	571,832	88	0.1	2,867	94	0.1
Leontona	32	2,121,818	36	496	280,162	102,977	1,940,900	2,725,457	36	0.3	2,744	97	0.1
Lima	195	5,487,531	230	2,233	1,050,780	277,408	4,166,028	6,705,136	17	0.8	21,723	12	0.5
Lockland	56	2,313,049	51	586	230,750	228,010	1,232,579	2,300,960	43	0.3	2,695	99	0.1
Lorain	59	12,343,937	57	2,221	1,115,539	615,457	6,544,799	9,547,932	11	1.1	16,028	19	0.4
Mansfield	251	5,760,746	293	3,160	1,217,457	307,182	3,195,033	7,081,509	16	0.8	17,640	16	0.4
Marietta	278	2,189,345	335	2,133	933,315	214,726	1,899,637	3,395,498	26	0.5	13,348	21	0.3
Marion	84	3,340,321	78	1,532	698,065	306,033	1,200,756	2,841,903	35	0.3	11,862	27	0.3
Martins Ferry	50	1,802,371	56	967	543,416	90,518	1,953,872	2,963,648	34	0.4	7,760	40	0.2
Marysville	47	179,325	68	236	82,699	20,506	165,211	347,283	93	(1)	3,048	92	0.1
Massillon	134	4,444,400	149	1,836	914,246	172,155	1,563,257	3,404,012	29	0.4	11,944	25	0.3
Miamisburg	66	1,500,248	64	1,006	400,143	83,122	1,300,713	2,131,005	45	0.3	3,911	80	0.1
Middleport	38	197,039	39	225	69,325	13,022	184,306	333,312	99	(1)	2,799	96	0.1
Middletown	92	4,207,731	92	1,951	770,656	2,112,601	3,056,601	6,665,226	13	0.8	9,215	30	0.2
Mingo Junction	12	2,921,086	9	944	566,646	131,395	5,526,128	7,563,573	13	0.9	2,954	93	0.1
Mt. Vernon	93	330,061	110	853	383,638	34,773	1,078,247	1,716,582	52	0.2	6,633	62	0.2
Napoleon	78	448,500	94	238	91,822	25,045	295,390	541,572	89	0.1	3,639	84	0.1
Nelsonville	39	224,179	43	200	80,115	12,107	117,257	233,148	100	(1)	5,421	66	0.1

¹ Less than one-tenth of 1 per cent.

TABLE 5.—URBAN MANUFACTURES—Continued.

	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.
Newark.....	208	\$1,798,448	284	2,364	\$925,443	\$228,797	\$1,417,157	\$3,423,186	28	0.4	18,157	14	0.4
New Philadelphia.....	124	859,493	180	653	482,182	86,576	905,097	1,820,296	50	0.2	6,213	57	0.1
Niles.....	64	2,745,374	66	1,641	1,231,629	123,647	3,441,219	5,758,129	20	0.7	7,468	44	0.2
North Baltimore.....	89	193,793	45	112	49,048	16,052	100,695	243,882	101	(1)	3,561	86	0.1
Norwalk.....	96	995,025	91	817	394,585	128,038	561,996	1,336,395	62	0.2	7,074	47	0.2
Norwood.....	52	951,314	61	467	208,138	52,889	480,221	820,892	77	0.1	6,480	54	0.1
Painesville.....	77	513,621	88	488	165,408	36,914	319,300	693,949	81	0.1	5,024	68	0.1
Piqua.....	152	3,609,002	166	2,103	983,836	259,807	3,765,259	5,886,475	19	0.7	12,172	24	0.3
Pomeroy.....	70	852,132	69	725	341,959	40,898	961,112	1,522,626	58	0.2	4,639	71	0.1
Portsmouth.....	284	4,113,700	315	4,586	1,556,190	802,946	3,824,093	7,532,976	14	0.9	17,870	15	0.4
Ravenna.....	76	821,127	90	740	279,153	43,790	550,204	1,210,415	66	0.1	4,003	78	0.1
St. Marys.....	57	556,209	60	453	192,711	37,786	462,842	893,823	73	0.1	5,359	67	0.1
Salem.....	106	2,090,703	117	977	569,852	135,603	1,230,584	2,880,424	42	0.3	7,582	42	0.2
Sandusky.....	176	4,627,981	187	1,648	650,895	379,042	1,394,147	3,190,342	32	0.4	19,664	13	0.5
Shelby.....	63	2,409,230	69	1,045	478,446	134,264	1,770,640	2,625,066	38	0.3	4,685	69	0.1
Sidney.....	107	1,178,805	125	935	337,610	101,178	1,088,669	1,858,626	49	0.2	5,688	62	0.1
Springfield.....	305	14,091,175	300	6,638	3,160,119	1,286,798	5,569,261	12,777,173	8	1.5	38,253	8	0.9
Steubenville.....	171	2,587,180	189	2,051	874,095	227,624	2,698,875	5,235,161	23	0.6	14,349	20	0.3
Tiffin.....	153	2,319,720	168	1,368	569,660	194,471	900,003	2,107,805	46	0.2	10,989	28	0.3
Toledo.....	1,050	25,591,916	1,114	15,383	6,845,687	3,068,389	21,086,798	37,872,355	4	4.5	131,822	3	3.2
Toronto.....	40	649,653	40	640	315,400	66,180	235,721	809,446	78	0.1	3,526	87	0.1
Troy.....	104	1,664,085	140	899	355,227	197,579	1,135,619	2,019,557	47	0.2	6,881	60	0.1
Urichsville.....	78	273,602	76	271	104,650	25,694	197,070	446,780	92	0.1	4,582	72	0.1
Upper Sandusky.....	35	288,734	44	165	60,477	21,655	187,106	357,505	97	(1)	3,355	88	0.1
Urbana.....	112	1,122,435	137	811	273,822	94,404	770,733	1,477,962	59	0.2	6,808	50	0.2
Van Wert.....	81	434,678	74	354	150,514	42,348	313,575	627,672	85	0.1	6,422	56	0.1
Wapakoneta.....	60	462,777	70	411	142,628	49,629	289,717	604,781	86	0.1	3,915	81	0.1
Warren.....	110	2,952,697	115	1,948	835,718	198,109	2,671,115	4,840,160	24	0.6	8,529	35	0.2
Washington Court House.....	67	463,031	75	276	101,849	24,376	352,233	659,899	82	0.1	5,751	61	0.1
Wellston.....	41	855,606	42	333	169,075	27,327	595,415	1,056,110	69	0.1	3,045	38	0.2
Wellsville.....	61	1,233,863	67	909	511,964	47,624	600,918	1,548,190	57	0.2	6,146	58	0.1
Wilmington.....	61	247,783	78	188	78,635	21,860	241,511	440,237	93	0.1	3,613	85	0.1
Wooster.....	97	626,188	105	447	169,490	37,114	463,725	985,579	72	0.1	6,063	59	0.1
Xenia.....	103	1,819,614	128	1,105	394,386	139,647	2,171,860	3,122,797	33	0.4	8,696	34	0.2
Youngstown.....	260	22,360,097	253	9,150	4,951,460	968,636	23,541,769	34,801,101	6	4.2	44,885	6	1.1
Zanesville.....	293	5,162,067	336	4,603	1,786,005	365,338	3,756,489	7,468,839	15	0.9	23,538	11	0.6
Total for state exclusive of urban manufactures.....	11,393	81,043,744	13,645	43,693	17,377,170	5,686,348	67,754,869	112,645,310	-----	13.5	2,243,642	-----	54.0
Per cent of urban manufactures to total for state.....	64.8	86.6	62.7	87.4	88.6	91.8	84.9	86.5	-----	-----	46.0	-----	-----

¹ Less than one-tenth of 1 per cent.

Of the 32,398 establishments in the state, 21,005, or 64.8 per cent, were located in these 101 cities and villages. They furnished employment to 302,176 wage-earners, or 87.4 per cent of the total number, and the value of their products, \$719,792,803, formed 86.5 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 Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Hamilton, Lima, Springfield, Toledo, Youngstown, and Zanesville by specified industries.

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

TABLE 6.—MANUFACTURES

COUNTIES.	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.
1 The State	32,398	\$605,792,266	\$49,658,809	\$94,493,965	\$158,986,928	\$302,652,564	36,624	30,093	\$29,351,015	345,869	\$153,955,330
2 Adams	138	326,847	28,310	41,195	123,025	134,317	175	19	18,570	260	81,176
3 Allen	402	6,190,870	371,761	615,655	2,489,701	2,459,663	474	227	177,416	2,776	1,275,848
4 Ashland	133	1,054,453	71,285	140,859	197,731	644,578	163	66	45,390	545	178,615
5 Ashtabula	892	2,548,445	285,785	355,828	714,714	1,191,818	450	121	102,067	1,827	775,729
6 Athens	158	912,904	81,080	236,782	234,923	360,119	186	54	34,411	578	231,917
7 Aughize	257	1,559,751	187,679	339,952	394,804	687,316	305	95	71,040	1,289	474,692
8 Belmont	853	7,970,900	467,009	1,441,638	4,057,275	2,004,888	407	264	255,075	5,472	2,651,898
9 Brown	156	463,923	81,885	82,565	134,309	165,964	134	22	13,398	374	122,754
10 Butler	482	17,743,459	1,217,066	2,926,448	4,719,193	8,580,752	489	624	759,542	8,235	3,566,016
11 Carroll	122	388,304	35,988	102,830	131,700	117,786	149	22	11,490	341	180,031
12 Champaign	249	1,468,170	128,208	280,985	402,635	656,342	306	78	62,186	1,050	362,027
13 Clark	391	14,511,195	727,755	1,614,574	2,111,486	10,060,880	404	1,331	1,131,549	6,806	3,232,382
14 Clermont	150	323,134	49,876	100,578	161,071	320,609	175	37	28,964	603	184,330
15 Clinton	162	548,009	50,810	102,516	183,137	211,546	219	38	21,266	440	165,703
16 Columbiana	620	13,227,220	1,032,795	3,145,548	3,651,176	5,997,701	689	685	681,633	8,809	4,344,734
17 Coshocton	147	1,032,944	48,075	138,317	409,087	487,465	167	132	112,545	1,196	379,705
18 Crawford	254	2,455,634	204,988	537,945	646,984	1,065,717	288	151	114,898	2,203	936,467
19 Cuyahoga	3,187	110,375,476	8,680,472	18,523,545	31,919,986	56,251,873	3,310	5,609	5,967,665	63,867	30,612,805
20 Darke	326	778,013	63,306	101,195	240,202	373,340	402	23	21,266	767	218,789
21 Defiance	200	1,430,606	102,570	215,713	328,791	783,532	248	72	62,435	1,207	446,179
22 Delaware	160	1,842,733	630,504	220,287	380,354	611,388	198	64	54,858	861	352,453
23 Erie	255	5,631,678	533,174	1,056,666	1,667,590	2,314,248	267	203	212,182	2,055	809,680
24 Fairfield	206	1,837,980	151,681	362,775	456,639	866,885	237	96	73,602	1,025	730,861
25 Fayette	126	654,918	62,849	102,424	217,688	301,077	146	52	32,400	405	143,990
26 Franklin	1,046	26,149,471	2,619,983	3,772,412	7,187,047	12,570,029	1,119	1,788	1,669,084	17,716	7,990,354
27 Fulton	138	452,914	68,717	82,805	137,867	163,525	172	6	2,050	237	100,337
28 Gallia	155	621,895	60,070	101,895	187,335	272,595	96	26	25,322	534	186,449
29 Geauga	128	311,880	24,700	56,200	97,880	133,100	147	13	7,335	274	114,281
30 Greene	218	2,314,981	106,012	301,956	678,183	1,228,830	256	90	114,627	1,421	490,863
31 Guernsey	189	1,487,534	78,292	179,430	325,112	705,090	244	67	59,757	1,035	614,623
32 Hamilton	5,582	124,571,235	11,743,986	17,581,210	25,538,982	69,707,057	6,800	7,077	7,277,863	68,114	29,138,241
33 Hancock	357	2,541,646	146,292	533,109	635,547	1,146,698	434	149	119,640	1,785	744,080
34 Hardin	214	1,265,763	114,155	241,808	312,151	597,649	251	74	58,476	917	355,122
35 Harrison	122	436,395	105,105	70,545	149,754	110,991	151	20	10,715	289	100,325
36 Henry	197	789,886	58,998	165,875	186,093	388,920	237	23	18,670	553	208,680
37 Highland	180	1,062,392	64,025	137,041	238,928	622,398	224	57	53,589	985	339,969
38 Hocking	91	752,329	65,376	209,577	192,734	285,242	110	32	36,300	533	177,848
39 Holmes	121	293,056	38,860	63,461	100,260	90,075	138	5	4,740	171	62,897
40 Huron	282	2,285,722	139,832	369,428	536,292	1,240,290	307	136	117,919	1,661	717,228
41 Jackson	141	1,508,258	87,704	393,345	224,808	797,401	150	46	38,470	766	314,104
42 Jefferson	300	7,859,500	692,201	1,683,392	3,256,108	1,727,889	319	201	216,862	4,302	2,076,828
43 Knox	163	996,880	78,785	205,680	357,631	355,314	191	64	52,645	923	413,664
44 Lake	165	1,117,692	124,688	201,370	278,078	517,056	200	55	45,387	821	309,556
45 Lawrence	132	4,099,552	636,450	846,428	1,250,139	2,260,535	183	147	145,296	2,374	947,186
46 Licking	341	2,464,382	186,977	453,969	577,366	1,244,074	397	177	140,437	2,635	1,032,679
47 Logan	301	1,260,510	209,529	231,712	388,949	430,320	385	66	47,786	1,070	442,224
48 Lorain	298	15,021,890	1,131,833	3,116,591	4,335,029	6,438,446	318	264	238,522	3,888	1,766,134
49 Lucas	1,132	25,050,176	2,208,319	4,627,693	6,746,785	12,873,879	1,204	1,299	1,246,477	15,566	6,924,463
50 Madison	151	432,070	35,224	73,325	150,865	178,256	185	9	5,560	230	79,893
51 Mahoning	387	24,577,654	1,749,130	3,678,641	11,336,230	7,813,603	411	506	564,309	10,125	6,388,139
52 Marion	185	3,681,902	459,269	447,882	2,958,530	203	189	130,973	1,850	794,492	
53 Medina	143	1,153,457	65,289	188,984	236,200	662,984	177	44	28,733	587	228,427
54 Meigs	173	1,227,567	109,316	242,923	401,210	474,088	191	66	43,859	1,081	457,426
55 Mercer	176	516,857	57,625	92,315	154,902	212,015	224	18	11,145	378	142,856
56 Miami	405	6,007,615	455,746	913,901	1,197,196	3,440,772	400	388	320,795	3,454	1,509,898
57 Monroe	179	278,259	32,485	53,717	90,910	101,147	222	6	4,145	188	63,212
58 Montgomery	1,361	31,812,559	1,992,675	4,561,826	5,389,826	19,868,232	1,491	1,532	1,707,131	19,209	8,796,539
59 Morgan	89	476,716	23,966	66,410	60,339	325,891	105	30	26,332	300	104,301
60 Morrow	85	393,246	22,575	53,100	83,900	233,721	110	10	8,879	189	67,807
61 Muskingum	420	6,174,217	484,300	1,267,505	1,531,574	2,590,508	433	464	353,800	5,326	2,047,803
62 Noble	89	178,650	13,107	32,670	77,982	54,891	117	35	38,260	112	37,112
63 Ottawa	161	847,735	67,665	184,456	232,216	363,398	185	3	3,080	549	197,864
64 Paulding	169	361,655	34,160	61,655	125,193	150,219	203	3	3,080	294	95,439
65 Perry	104	1,192,539	419,005	254,585	167,102	351,847	137	40	30,096	614	307,590
66 Pickaway	181	1,408,384	124,824	285,884	457,883	555,922	221	62	35,041	887	279,626
67 Pike	63	164,516	18,790	44,390	51,480	49,856	73	4	1,530	107	48,305
68 Portage	276	1,831,732	96,148	445,608	512,156	777,820	320	76	65,851	1,851	750,509
69 Preble	223	562,108	42,520	93,340	139,841	286,407	281	27	11,084	470	170,447
70 Putnam	217	771,916	89,861	118,140	208,874	355,041	260	31	34,637	598	222,506
71 Richland	433	8,371,989	308,811	1,173,436	2,184,761	4,704,931	507	443	412,005	4,363	1,751,260
72 Ross	207	1,385,064	195,535	279,053	391,011	519,463	288	85	40,414	1,400	522,073
73 Sandusky	300	3,191,978	197,387	542,076	788,310	1,661,205	351	194	204,383	1,852	744,369
74 Scioto	335	4,960,925	560,505	902,998	1,161,481	2,125,973	404	416	303,639	4,952	1,704,134
75 Seneca	360	4,207,050	257,006	908,636	1,864,289	1,677,069	402	198	145,818	2,545	994,815
76 Shelby	200	1,450,547	120,255	285,840	399,422	645,030	231	98	69,888	1,192	401,377

TABLE 6.—MANUFACTURES

	COUNTIES AND 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 imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
77	Stark	1,020	\$21,680,666	\$1,755,560	\$3,824,871	\$4,717,189	\$11,388,096	1,118	877	\$814,948	11,122	\$5,081,726
78	Summit	599	29,593,083	1,895,252	5,641,710	7,508,130	14,607,991	618	1,270	1,188,522	11,191	4,887,124
79	Trumbull	361	8,858,865	365,401	1,049,364	2,302,962	5,141,138	395	276	307,727	4,831	2,821,719
80	Tuscarawas	488	4,222,833	267,750	1,066,622	1,379,020	1,509,441	489	239	208,300	4,107	2,140,614
81	Union	130	326,615	32,210	52,555	111,055	130,796	165	10	6,550	819	112,379
82	Van Wert	170	677,918	92,880	82,600	226,431	276,007	169	84	19,881	593	287,996
83	Vinton	51	154,237	25,485	19,060	62,025	47,667	71	71		71	26,768
84	Warren	201	2,176,133	269,459	803,231	698,360	905,083	222	68	32,958	1,077	405,451
85	Washington	404	2,668,141	364,645	428,219	615,972	1,259,305	504	173	139,808	2,616	1,068,686
86	Wayne	290	1,667,565	142,015	342,483	496,177	686,830	355	77	51,957	901	851,616
87	Williams	214	898,312	59,947	161,685	214,268	462,462	250	53	36,040	711	283,739
88	Wood	328	3,430,700	353,669	559,176	1,687,403	880,462	377	70	70,204	1,184	502,433
89	Wyandot	81	480,817	44,655	97,699	132,142	206,321	110	16	10,545	308	117,724

TABLE 7.—MANUFACTURES BY

		\$21,680,666	\$1,755,560	\$3,824,871	\$4,717,189	\$11,388,096	1,118	877	\$814,948	11,122	\$5,081,726	
1	All industries	32,393	\$605,792,266	\$49,658,809	\$94,493,965	\$168,986,923	\$302,652,564	36,624	30,003	\$29,351,045	345,869	\$153,955,330
2	Agricultural implements	78	23,628,442	1,031,012	2,199,087	1,898,782	18,499,611	58	1,588	1,368,775	6,852	3,271,163
3	Ammunition	3	675,827	100	400	257,467	417,890	2	32	40,499	371	111,167
4	Artificial leathers and flowers	4	1,600			200	1,400	4	1	100	7	2,450
5	Artificial limbs	6	6,975			2,025	4,950	7			6	3,216
6	Awnings, tents, and sails	32	418,500	94,400	58,472	37,918	222,710	31	53	44,700	244	97,676
7	Bags, other than paper	4	352,850	15,000	20,000	88,900	233,950	3	20	19,512	204	54,940
8	Bags, paper	10	390,236	10,000	10,000	126,663	244,630	4	56	40,684	218	67,923
9	Baking and yeast powders	15	177,381	7,150	25,400	14,950	123,881	11	55	38,156	101	89,578
10	Baskets, and rattan and willow ware	43	123,539	11,300	19,510	55,080	37,699	44	11	6,510	274	90,207
11	Belting and hose, leather	5	489,251	15,000	20,330	47,500	403,421	3	42	45,487	92	48,307
12	Bicycle and tricycle repairing	377	345,882	26,733	30,796	129,891	158,462	435	12	5,164	811	132,591
13	Bicycles and tricycles	34	4,074,576	74,537	437,853	1,736,524	1,825,662	20	209	197,406	2,890	1,017,081
14	Billiard tables and materials	6	29,100			1,750	27,350	6	4	5,570	11	11,980
15	Blacking	3	21,000			2,500	18,500	5	1	520	19	5,124
16	Blacksmithing and wheelwrighting	3,585	2,650,444	580,387	730,941	498,463	840,653	4,071	21	7,990	2,057	961,904
17	Bookbinding and blank book making	53	272,657			113,748	158,909	63	33	24,149	397	154,044
18	Boot and shoe cut stock	4	102,682			10,662	92,000	4	7	5,040	42	17,500
19	Boot and shoe uppers	7	23,100			925	1,175	6			6	2,685
20	Boots and shoes, custom work and re- pairing	1,461	486,281	93,655	117,958	111,763	162,898	1,521	13	7,620	569	240,728
21	Boots and shoes, factory product	81	7,549,142	168,950	464,713	1,180,322	5,735,157	87	888	960,890	12,718	3,989,744
22	Bottling	63	328,338	42,920	62,650	27,370	195,398	64	43	32,988	170	79,314
23	Boxes, cigar	32	354,259	40,450	73,375	73,375	165,061	40	29	18,006	617	150,592
24	Boxes, fancy and paper	35	784,449	5,000	9,000	360,850	403,599	38	85	97,571	1,474	381,606
25	Boxes, wooden packing	61	1,187,705	172,225	154,827	218,461	642,192	70	56	49,489	1,117	384,057
26	Brass castings and brass finishing	39	1,147,838	48,825	175,991	346,166	576,856	47	65	66,381	981	395,135
27	Brassware	7	581,733	10,000	44,000	101,850	425,883	6	34	44,360	334	185,321
28	Bread and other bakery products	956	5,056,619	658,790	970,777	2,230,886	1,201,286	1,029	587	358,308	8,519	1,529,341
29	Brick and tile	686	7,343,629	1,634,603	2,205,306	1,497,925	2,006,393	853	208	189,192	5,353	1,906,971
30	Bridges	16	2,473,845	110,846	234,469	675,524	1,453,006	8	138	153,419	1,437	715,410
31	Brooms and brushes	117	880,640	42,490	87,482	194,606	553,212	144	93	99,124	994	324,366
32	Buttons	4	49,615			15,500	34,115	5	7	4,786	72	18,298
33	Carpentering	1,135	2,464,362	293,233	342,233	807,922	1,620,974	1,324	103	81,642	5,242	2,918,959
34	Carpets, rug	113	72,031	10,755	17,795	23,834	19,647	118	10	6,763	120	36,387
35	Carriage and wagon materials	109	5,251,795	391,954	753,834	1,199,727	2,906,280	93	275	271,361	4,529	1,780,922
36	Carrriages and sleds, children's	9	949,225	14,640	228,000	214,350	492,285	8	42	49,101	787	339,580
37	Carrriages and wagons	543	12,158,302	1,199,593	1,980,861	818,455	3,159,393	717	687	576,062	7,274	3,369,550
38	Cars and general shop construction and repairs by steam railroad com- panies.	91	5,701,429	659,277	1,651,260	1,804,205	2,086,387		576	456,971	11,534	6,087,052
39	Cars and general shop construction and repairs by street railroad com- panies.	4	123,050	15,500	46,000	30,500	31,050		7	4,816	229	137,885
40	Cars, steam railroad, not including operations of railroad companies.	5	2,581,894	48,977	246,517	137,883	2,148,517		61	76,616	1,805	862,011
41	Cars, street railroad, not including operations of railroad companies.	8	252,778	10,000	25,000	49,651	168,122	2	13	11,880	275	152,810
42	Charcoal	7	22,837	1,220	230	2,625	18,762	6	8	2,500	87	22,895
43	Cheese and butter, urban dairy prod- ucts.	5	14,080	7,820	800	2,925	2,535	9			7	2,152
44	Cheese, butter, and condensed milk, factory product.	479	1,041,093	55,547	324,312	385,546	275,688	891	89	19,088	389	189,804
45	Chemicals	35	3,670,401	397,680	518,045	976,144	1,778,532	21	164	199,166	609	340,332
46	China decorating	8	1,910	50	50	580	1,280	8				
47	Cleansing and polishing preparations	12	86,890	1,650	3,250	3,945	28,045	10	12	17,766	23	6,974
48	Cloth, sponging and refinishing	3	8,757			2,290	1,467	5			31	15,699
49	Clothing, men's, custom work and re- pairing.	1,543	8,216,481	271,185	324,253	191,697	2,429,346	1,789	227	185,411	5,190	2,146,206
50	Clothing, men's, factory product	539	10,782,010	139,700	234,404	221,505	10,136,398	676	785	805,898	6,521	2,143,619
51	Clothing, men's, factory product, but- tonholes.	8	20,625	100	600	16,100	8,825	10	1	416	174	51,668

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.										
9,826	\$4,763,763	1,147	\$290,402	149	\$27,561	\$1,488,298	\$79,021	\$74,109	\$1,105,749	\$229,419	\$10,016,008	\$9,587,261	\$428,747	\$21,046,888	
9,235	4,397,337	1,878	479,458	78	10,329	2,211,700	61,548	186,999	1,636,916	375,237	16,767,864	16,257,030	510,834	29,404,004	
4,478	2,735,671	326	82,740	27	3,308	434,714	18,356	23,574	332,259	60,525	9,920,977	8,778,337	1,142,640	16,126,697	
3,879	2,097,663	196	38,128	32	4,823	338,494	17,227	24,894	258,287	38,086	4,701,997	4,886,148	315,849	8,528,451	
281	105,293	37	6,886	1	200	27,496	5,180	2,641	18,170	1,555	353,461	339,512	13,949	604,352	
545	228,488	42	8,518	6	995	53,494	6,773	4,916	21,231	20,569	821,863	805,727	16,136	1,364,164	
70	26,068	3	600	1	100	3,975	583	1,126	2,266	—	265,149	262,957	2,192	377,543	
789	341,955	285	63,216	3	280	82,904	12,797	12,550	57,010	547	1,737,544	1,691,224	46,320	2,815,006	
2,815	1,009,511	232	49,439	69	9,736	231,784	23,806	20,982	111,363	75,633	2,577,209	2,511,585	65,624	4,926,591	
781	329,699	113	21,060	7	857	78,468	10,355	8,879	51,517	2,717	1,343,612	1,297,154	46,458	2,423,667	
646	271,458	59	11,380	6	901	46,814	8,212	4,838	33,634	130	767,605	752,975	14,630	1,392,311	
1,120	439,494	61	12,434	3	505	94,094	10,905	8,776	69,533	4,860	1,436,243	1,388,307	97,936	2,511,822	
286	113,602	16	2,873	6	1,249	33,087	2,729	4,121	26,037	200	448,119	433,637	14,482	751,230	

SPECIFIED INDUSTRIES: 1900.

287,789	\$140,364,129	53,711	\$12,883,284	4,369	\$707,917	\$69,728,206	\$4,741,189	\$3,035,915	\$54,602,078	\$7,340,029	\$147,849,677	\$127,855,909	\$19,933,768	\$32,438,113	1
6,795	3,254,063	44	14,588	13	2,512	1,483,605	2,423	106,929	1,846,122	28,181	6,059,515	5,925,591	133,924	13,975,268	2
228	80,351	143	30,816	—	—	31,584	4,434	2,700	24,450	—	565,091	559,134	6,957	831,920	3
4	2,000	3	450	—	—	1,149	940	9	200	—	1,277	1,235	42	8,600	4
6	3,216	—	—	—	—	2,979	1,380	20	879	—	5,744	5,659	85	23,820	5
124	64,005	120	33,671	—	—	88,977	9,103	2,229	26,320	1,325	278,082	275,535	2,547	556,977	6
58	25,000	146	29,940	—	—	79,173	1,675	1,104	76,394	—	886,330	885,005	1,325	1,030,093	7
110	44,402	108	23,521	—	—	23,395	4,634	1,324	17,437	—	510,587	503,807	6,780	719,411	8
63	28,362	43	10,635	5	876	35,055	7,476	1,198	26,981	—	227,637	223,921	3,726	407,111	9
203	76,352	54	11,854	17	2,001	6,930	2,539	1,805	3,586	—	40,177	41,750	1,427	196,486	10
91	48,157	1	150	1	150	83,208	3,276	1,782	32,976	—	637,900	635,097	2,812	836,376	11
292	129,339	5	1,366	14	1,836	58,366	40,652	2,745	15,249	320	261,883	254,019	7,864	714,997	12
2,340	998,218	40	18,843	—	—	247,332	13,756	16,491	217,085	—	2,251,358	2,194,371	56,987	4,099,980	13
21	11,980	—	—	—	—	3,946	1,941	25	1,980	—	23,101	23,036	65	67,546	14
4	1,522	15	3,602	—	—	1,145	432	43	670	—	33,620	33,439	181	55,700	15
2,036	959,007	—	—	21	2,897	199,058	131,150	22,505	37,110	8,293	1,297,069	1,199,972	97,097	5,014,908	16
212	109,073	172	42,794	13	2,177	52,537	20,308	1,368	17,418	13,453	170,935	165,995	4,940	549,175	17
39	16,700	3	800	—	—	4,150	1,630	880	2,140	—	227,156	225,101	2,052	307,080	18
5	2,535	—	—	1	150	1,127	434	3	100	500	8,795	8,795	—	17,900	19
559	238,285	6	1,835	4	608	102,904	86,620	4,441	10,800	1,143	440,657	430,486	10,201	1,465,676	20
7,289	2,709,382	4,781	1,175,153	648	105,209	637,537	77,084	28,256	532,125	72	11,074,008	11,025,493	48,515	17,920,854	21
158	75,952	11	3,250	1	112	40,397	8,682	4,842	26,978	—	501,553	497,872	3,681	829,518	22
227	86,566	289	63,892	1	134	27,756	6,232	1,951	19,573	—	359,002	332,691	7,311	615,133	23
309	162,735	1,086	214,824	19	3,947	89,919	30,850	2,827	56,242	—	619,938	603,869	10,969	1,408,030	24
1,018	369,347	41	6,865	58	7,845	97,832	16,959	5,918	74,523	432	1,207,586	1,195,671	12,015	1,965,236	25
955	389,330	26	5,755	—	—	79,925	12,082	5,762	61,837	194	783,380	763,485	19,895	1,533,174	26
319	180,416	15	4,905	—	—	63,887	3,524	2,231	58,122	—	255,145	250,629	4,516	700,200	27
2,777	1,371,120	645	141,557	97	16,664	563,399	179,724	36,410	347,285	—	5,427,110	5,275,244	151,866	9,857,288	28
5,240	1,948,024	6	1,086	107	17,861	337,959	28,507	35,845	264,396	9,211	941,676	206,136	775,540	4,629,557	29
1,437	715,410	—	—	—	—	418,397	210	9,733	258,454	150,000	2,051,732	2,010,580	41,152	4,554,132	30
810	289,571	171	32,978	13	1,817	152,161	14,781	6,614	58,594	72,232	976,864	966,730	10,134	1,876,136	31
29	10,504	40	7,140	3	624	5,701	1,470	68	4,163	—	20,946	20,151	795	58,873	32
5,234	2,917,349	3	700	5	910	1,990,490	51,112	15,220	111,798	1,812,865	6,916,690	6,900,651	16,009	14,048,476	33
63	25,825	46	9,840	11	1,322	8,889	4,686	497	3,706	—	45,201	42,854	2,347	170,342	34
4,421	1,707,926	97	20,686	11	1,410	347,453	15,961	28,630	298,576	4,291	4,027,295	3,962,315	64,980	7,186,271	35
737	322,030	50	11,550	—	—	212,219	3,282	6,090	202,847	—	571,614	553,612	18,102	1,342,625	36
7,051	3,310,330	199	55,621	24	3,599	313,400	120,153	73,176	610,761	9,310	3,262,052	3,164,786	97,266	15,919,173	37
11,520	6,082,128	14	4,924	—	—	391,581	1,350	68,321	327,558	4,352	5,063,808	5,062,049	111,759	12,075,182	38
229	137,385	—	—	—	—	13,471	2,000	2,014	9,457	—	93,617	87,407	6,210	249,289	39
1,800	860,799	5	1,212	—	—	45,450	2,170	13,876	29,404	—	2,791,908	2,755,419	36,489	3,942,372	40
273	151,790	2	1,020	—	—	11,138	1,800	18	6,320	3,000	230,975	227,755	3,220	537,745	41
87	22,895	—	—	—	—	6,702	40	22	6,640	—	2,601	2,601	—	40,432	42
4	1,440	3	712	—	—	894	160	124	610	—	3,781	3,626	155	16,745	43
876	186,621	11	2,913	2	270	35,214	6,365	5,205	22,584	260	3,054,761	3,016,495	38,269	3,803,990	44
583	393,063	24	7,000	2	269	157,810	7,587	16,744	132,877	602	2,083,721	1,988,078	95,643	3,576,260	45
15	5,582	—	—	—	—	587	484	5	98	—	4,614	4,518	96	10,774	46
31	15,699	8	1,392	—	—	12,445	1,196	84	10,965	200	33,188	32,783	405	101,667	47
3,027	1,611,993	2,116	527,772	47	6,441	1,001,894	1,927	1,862	25	540	3,411,166	3,376,592	34,574	8,054,872	48
1,980	1,061,551	4,305	1,063,058	176	19,010	2,044,440	157,002	32,057	409,270	1,446,111	9,112,231	9,075,429	36,802	16,593,824	49
88	16,128	140	35,240	1	200	6,036	3,864	39	2,133	—	14,221	13,110	1,111	94,268	50

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.
52 Clothing, women's, dressmaking	787	\$322,532	\$36,455	\$51,524	\$66,376	\$168,177	372	26	\$19,487	2,027	\$529,616
53 Clothing, women's, factory product	126	2,865,851	30,055	140,870	173,376	2,521,550	159	348	384,277	4,817	1,518,355
54 Coffee and spice, roasting and grinding	26	2,375,838	87,807	288,750	296,982	1,702,289	18	273	208,035	6,678	229,703
55 Coffins, burial cases, and undertakers' goods	14	2,073,410	170,725	367,583	295,854	1,239,253	11	117	138,427	984	410,164
56 Coke	5	84,690	4,100	3,770	72,090	1,730		14	18,760	71	32,710
57 Confectionery	285	1,806,148	185,780	192,466	329,487	1,148,415	329	288	201,218	1,730	545,889
58 Cooperage	163	1,587,151	144,166	192,154	304,254	916,577	186	68	77,205	1,703	692,278
59 Cordage and twine	9	2,147,671	65,415	272,751	624,270	1,185,241	2	47	51,205	1,052	317,909
60 Corsets	10	8,450	250	200	2,700	5,300	10	1	260	33	8,478
61 Cotton goods	3	168,492	700	21,600	56,813	89,379	1	12	11,250	106	27,861
62 Cutlery and edge tools	24	1,114,745	87,200	158,475	238,892	630,178	19	102	107,802	763	375,433
63 Druggists' preparations, not including prescriptions	12	745,633	30,000	50,000	60,900	604,733	24	150	175,729	269	73,921
64 Dyeing and cleaning	132	235,435	78,035	54,510	59,834	42,996	151	24	10,850	326	132,689
65 Electrical apparatus and supplies	64	7,036,108	239,787	1,338,168	2,081,368	3,376,780	29	394	399,202	3,773	1,502,270
66 Electrical construction and repairs	56	189,670	2,100	3,000	39,158	145,412	69	25	18,718	310	142,460
67 Electroplating	23	116,938	20,000	23,800	49,775	23,358	25	8	4,948	172	74,487
68 Enameling and enameled goods	6	303,276	9,000	53,813	98,363	142,100	4	11	18,966	466	146,255
69 Engraving and diesinking	17	36,935	6,000	10,500	18,775	8,660	23	13		27	14,062
70 Engraving, steel, including plate printing	15	62,606	1,500	200	27,090	33,816	14	13	9,060	112	48,135
71 Engraving, wood	12	31,830	600	1,000	8,445	21,785	15	5	8,444	57	31,743
72 Explosives	9	1,972,451	315,000	365,786	373,000	918,665	3	56	92,520	352	178,736
73 Fancy articles, not elsewhere specified	21	153,842	2,900	14,541	53,511	87,390	28	18	10,579	185	57,554
74 Fertilizers	27	1,887,937	98,762	273,879	346,003	1,179,293	26	80	103,608	400	173,888
75 Files	9	219,079	4,400	45,458	88,719	80,502	13	4	4,200	303	119,431
76 Fireworks	6	131,170		25,600	16,200	83,300	1	18	24,400	342	92,680
77 Fish, canning and preserving	3	56,068	200	1,025	42,948	11,900	3	5	4,160	51	21,600
78 Flags and banners	3	103,734	20,000	30,000	14,757	38,977	1	15	12,540	161	35,448
79 Flavoring extracts	19	191,315	12,625	24,600	19,460	134,630	21	53	74,932	117	38,146
80 Flouring and grist mill products	1,160	12,631,150	863,866	2,811,132	4,584,325	4,271,827	1,621	342	302,791	2,438	1,220,898
81 Food preparations	81	5,185,405	121,817	1,641,130	1,655,037	1,767,412	34	69	72,865	1,400	365,050
82 Foundry and machine shop products	881	68,766,347	4,296,587	9,178,722	16,039,137	39,251,901	760	3,589	3,724,916	41,799	20,563,268
83 Foundry supplies	5	140,340	12,000	16,500	33,200	78,740	2	24	29,056	82	38,234
84 Fruits and vegetables, canning and preserving	70	910,670	65,490	150,973	200,057	494,150	83	103	58,975	1,608	305,393
85 Fur goods	19	129,782			5,007	124,775	24	11	3,442	122	48,131
86 Furnishing goods, men's	15	185,500	3,000	7,000	20,400	155,100	25	161	49,549	398	87,411
87 Furniture, cabinetmaking, repairing, and upholstering	303	542,013	60,055	85,835	97,460	298,666	349	51	41,411	605	297,541
88 Furniture, factory product	165	9,585,848	969,335	1,893,960	1,343,805	5,378,698	183	671	573,140	6,723	2,621,895
89 Gas and lamp fixtures	13	480,441	7,000	50,500	95,249	277,692	10	56	48,379	2,488	158,214
90 Gas and oil stoves	10	2,568,374	143,238	398,889	437,271	1,596,976	4	100	135,748	1,557	706,606
91 Gas, illuminating and heating	73	25,017,057	2,503,958	3,258,531	17,029,003	2,225,658	283	277	204,189	1,389	601,315
92 Gas machines and meters	7	281,864	22,633	12,511	48,345	198,375	5	26	27,758	121	94,612
93 Glass	21	5,451,513	440,375	1,810,859	1,491,631	2,208,634	9	199	249,029	4,546	2,067,384
94 Glass, cutting, staining, and ornamenting	28	109,441			26,830	82,591	28	13	11,754	184	91,545
95 Gloves and mittens	10	168,491	2,100	4,900	68,475	98,016	15	3	2,700	178	55,247
96 Grease and tallow	18	366,152	48,530	61,435	100,729	155,433	19	8	8,365	106	50,514
97 Grindstones	20	674,014	254,320	117,495	112,449	189,750	4	50	50,500	1,028	356,168
98 Hairwork	24	39,581	4,200	4,500	2,380	27,501	26	11	4,267	67	18,722
99 Hand knit goods	4	8,315	200	300	1,075	2,240	4			7	1,720
100 Hand stamps	15	20,100		100	9,500	10,500	18	1	120	35	17,958
101 Hardware	30	2,568,500	138,777	461,826	608,037	1,369,800	22	130	141,279	2,662	1,086,405
102 Hardware, saddlery	7	381,816	20,125	69,650	55,435	236,576	5	42	39,796	315	125,093
103 Hats and caps, not including fur hats and wool hats	26	337,220	3,120	9,415	61,269	263,416	39	89	31,459	656	223,549
104 Hosiery and knit goods	24	1,067,937	40,320	77,046	323,958	626,613	24	56	55,856	1,413	354,369
105 House furnishing goods, not elsewhere specified	18	1,393,652	52,900	238,957	444,934	658,811	11	54	68,290	493	159,510
106 Ice, manufactured	42	1,777,430	180,742	397,900	1,012,707	186,081	17	79	53,410	299	154,561
107 Ink, printing	4	185,583	4,000	11,200	30,114	140,269	19	19	30,100	36	19,354
108 Instruments, professional and scientific	11	95,317	6,000	12,000	27,040	50,268	14	15	5,804	67	28,225
109 Iron and steel	107	85,628,552	5,578,936	14,065,733	33,127,902	32,756,521	17	1,231	1,592,501	33,677	19,730,469
110 Iron and steel, bolts, nuts, washers, and rivets	11	983,384	53,363	118,738	257,513	528,770	8	69	99,472	1,715	691,611
111 Iron and steel, forgings	11	2,177,894	188,766	373,939	709,844	905,345	6	61	97,830	1,154	564,412
112 Iron and steel, nails and spikes, cut and wrought, including wire nails	3	536,280	30,000	35,000	179,011	292,269		17	21,113	285	125,908
113 Iron and steel, pipe, wrought	3	2,402,062	107,499	574,024	1,064,804	655,675		29	35,935	740	300,853
114 Ironwork, architectural and ornamental	47	2,484,771	260,229	320,921	515,449	1,379,172	39	253	247,182	1,674	788,153
115 Japanning	5	11,625	5,000	3,000	1,400	2,225	7			11	4,224
116 Jewelry	28	664,348			61,860	602,988	37	36	25,380	249	133,445
117 Kaolin and other earth grinding	10	238,980	32,100	55,000	70,000	76,880	9	12	9,100	129	44,590
118 Kindling wood	3	2,825	500	550	825	950	2			7	2,175
119 Labels and tags	4	36,050			23,500	12,550	4	7	8,196	21	9,848
120 Lamps and reflectors	11	317,894	26,428	31,000	60,758	199,708	9	39	19,906	227	83,019
121 Leather goods	11	427,625	11,550	97,465	83,250	285,360	11	28	17,492	265	91,953

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.		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.										
94	\$50,340	1,026	\$478,538	7	\$743	\$101,920	\$81,822	\$1,786	\$17,839	\$978	\$440,312	\$481,938	\$8,874	\$1,618,839	52
1,845	687,558	3,468	829,544	9	1,253	467,188	74,922	8,062	154,167	280,047	4,449,451	4,427,977	21,474	7,772,771	53
230	123,976	448	105,727			128,738	18,286	13,734	96,718		4,708,855	4,686,701	22,154	5,849,644	54
802	365,558	182	44,606			181,826	5,525	11,085	115,216		872,063	862,388	9,675	1,800,851	55
71	32,710					2,924	220	780	1,924		188,296	188,284	12	255,129	56
748	335,946	951	205,282	81	4,661	421,540	91,249	9,201	320,990	100	2,547,031	2,518,115	28,916	4,927,778	57
1,689	688,163	4	1,500	10	2,615	67,705	10,297	8,949	46,789	1,670	1,329,769	1,321,398	8,371	2,517,871	58
725	255,095	315	60,766	12	2,048	96,471	1,151	10,174	85,146		2,325,907	2,304,992	20,915	2,957,674	59
		32	8,328	1	150	2,624	1,916	62	546		12,253	12,032	221	35,056	60
24	11,482	82	16,379			17,812	4,844	1,728	11,240		142,090	139,295	2,795	231,045	61
714	350,238	47	15,900	2	205	66,408	3,115	4,465	58,266	562	460,825	439,057	21,768	1,104,488	62
150	49,472	117	24,085	2	364	63,192	7,354	2,663	53,175		348,352	344,674	3,678	1,018,520	63
187	94,084	135	38,065	4	540	49,707	25,618	2,443	18,386	3,810	60,286	60,668	8,568	428,771	64
2,956	1,315,376	794	181,569	23	5,325	568,261	148,956	24,880	391,900	2,465	8,838,978	3,129,662	209,816	6,504,847	65
299	139,142	7	2,584	4	784	34,098	14,305	877	18,836	80	420,094	417,760	2,334	898,300	66
169	73,167	3	1,300			11,732	5,263	1,201	5,268		36,581	34,404	4,127	179,874	67
287	105,428	179	40,897			35,878	1,375	1,237	33,266		289,041	277,464	11,577	527,825	68
26	13,958			1	104	3,607	2,564	269	2,674	100	7,957	7,277	680	46,748	69
83	42,228	29	5,907			11,967	6,527	167	5,273		42,206	41,069	1,137	160,103	70
55	31,535			2	208	5,518	2,303	112	2,746	357	10,176	9,961	215	88,583	71
350	178,286	2	500			103,756	1,110	9,198	92,748	700	773,269	749,101	24,168	1,330,489	72
115	39,338	70	18,221			32,631	6,073	743	25,415	400	136,279	136,205	72,074	1,657,058	73
394	171,768	5	2,000	1	120	112,317	1,044	3,626	107,447	200	1,016,501	996,163	20,338	1,657,058	74
255	108,181	53	11,250			4,068	1,771	942	1,350		104,188	95,728	8,455	237,330	75
185	60,000	157	32,680			30,113	614	849	28,650		62,549	61,137	1,412	277,050	76
51	21,000					2,610	1,400	110	1,300		70,408	69,896	510	251,040	77
42	16,006	115	19,274	1	163	5,427	1,200	1,051	3,176		82,085	81,824	1,261	172,113	78
50	22,969	67	15,177			38,365	6,176	1,160	30,529	500	299,459	297,307	2,082	546,891	79
2,393	1,209,466	41	10,547	4	385	626,042	36,651	111,915	478,068	8	31,826,760	31,474,103	352,647	37,890,367	80
651	278,463	389	80,186	60	7,301	390,651	8,593	8,553	378,505		5,353,580	5,324,278	29,302	7,166,532	81
41,367	20,467,834	359	81,355	73	14,079	4,806,632	277,302	302,353	3,715,217	511,310	31,578,984	30,465,709	1,113,225	72,999,632	82
80	37,764			2	470	17,594	3,590	1,179	12,885		135,025	128,225	6,800	2,900,977	83
581	158,919	841	123,826	186	22,648	73,781	4,834	5,486	63,461		1,107,269	1,183,281	13,988	1,941,398	84
33	23,547	87	24,338	2	246	28,040	14,011	509	13,320	800	142,183	141,842	341	231,321	85
63	25,370	333	61,541			35,292	5,198	710	29,389		372,665	370,624	2,041	702,732	86
551	284,060	43	11,591	11	1,890	66,004	37,654	3,651	21,144	3,555	491,314	484,828	6,486	1,219,289	87
6,400	2,566,938	230	42,004	93	12,953	562,295	69,151	52,434	418,573	22,137	4,042,083	3,975,612	66,471	9,514,764	88
255	116,019	223	42,195			46,612	6,255	2,002	33,355	5,000	248,641	242,787	5,854	591,449	89
1,556	706,106	1	100			149,778	10,369	10,369	138,479		1,322,677	1,292,686	29,991	2,585,828	90
1,387	601,095	2	720			637,927	3,750	243,759	440,418		884,587	852,110	32,477	3,931,423	91
121	94,612					12,995	4,860	1,030	7,105		174,935	173,625	1,310	370,625	92
3,505	1,844,958	405	96,017	630	126,409	155,512	68	17,260	138,194		1,253,164	1,003,750	249,405	4,547,033	93
172	89,121	12	2,424			12,331	9,426	428	2,527		76,613	74,463	2,150	242,869	94
36	14,276	142	40,858	1	113	5,595	1,855	181	3,469	100	140,435	139,415	1,020	253,400	95
105	56,214			1	100	16,973	794	3,618	12,561		772,328	757,014	15,314	925,626	96
1,024	355,518			4	650	25,586	2,036	4,898	17,092	1,560	207,011	172,676	34,335	906,459	97
8	1,940	64	16,732			13,635	10,432	516	2,637		27,134	26,332	802	89,126	98
2	650	5	1,070			685	588	4	83	10	2,728	2,703	25	8,469	99
27	15,862	6	1,810	2	286	5,888	3,638	209	1,812	224	10,096	9,603	493	58,995	100
2,437	1,037,531	185	81,875	90	16,996	275,800	12,203	12,986	250,606		1,069,278	992,218	77,060	2,026,938	101
309	123,833	6	1,260			55,913	800	2,950	25,763	26,400	201,621	187,797	13,824	489,186	102
236	130,308	356	90,701	14	2,540	52,013	16,882	1,492	33,639		572,847	565,490	7,357	1,008,840	103
154	74,125	1,229	275,317	30	4,927	99,411	14,707	3,338	54,015	27,351	807,673	797,375	10,298	1,576,285	104
449	149,858	41	9,088	8	564	46,134	3,460	8,806	33,838		805,832	794,022	11,810	1,394,326	105
297	154,411			2	150	71,065	1,558	20,139	48,733	585	138,135	48,657	89,478	582,538	106
36	19,354					11,099	2,600	694	7,805		96,611	94,811	1,800	221,429	107
61	27,551	6	1,374			7,495	2,762	706	4,027		22,403	21,179	1,224	95,690	108
33,439	19,959,932	129	24,468	49	10,969	4,400,859	88,862	222,255	4,061,755	27,987	91,329,307	80,545,325	10,783,982	138,935,256	109
1,424	684,055	58	11,926	233	45,000	69,005	7,605	6,120	55,280		1,747,510	1,698,405	49,105	2,739,856	110
1,144	561,292	10	3,120			54,038	3,565	6,744	43,779		1,220,821	1,129,571	91,250	2,336,727	111
226	105,069	57	19,776	2	1,063	37,216	4,200	1,573	31,443		568,446	558,467	9,979	868,127	112
740	300,353					28,697	2,556	26,141	26,141		1,455,224	1,399,658	55,566	2,211,032	113
1,612	724,268	60	13,570	2	815	238,866	12,935	14,400	243,531	28,000	2,351,286	2,317,308	33,978	4,151,943	114
9	3,940			2	284	1,197	720	103	374		3,799	3,220	579	16,650	115
211	123,051	38	9,924	5	470	53,839	13,937	1,241	23,061	15,600	527,874	524,107	3,267	907,776	116
127	44,190					28,848	585	961	27,302		87,673	75,864	12,009	259,023	117
4	1,621			3	554	620	320	25	275		1,018	883	130	5,470	118
18	7,944	7	1,699	1	200	16,919	1,901	94	2,954	12,000	21,475	20,377	598	89,344	119
211	80,256	11	1,803	6	980	94,670	1,715	1,953	20,179	70,813	170,589	168,121	2,488	454,130	120
205	82,704	48	8,429	12	820	54,950	2,440	1,736	50,715		222,016	216,952	5,064	379,737	121

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.
122 Leather, tanned, curried, and finished.	58	\$5,822,580	\$207,860	\$690,006	\$279,804	\$4,644,910	76	74	\$80,680	1,884	\$617,409
123 Lime and cement.	94	3,362,615	1,222,732	549,148	693,828	896,907	87	160	181,735	1,619	700,842
124 Liquors, distilled.	26	3,000,277	136,000	438,610	305,275	2,120,392	29	64	85,727	335	179,157
125 Liquors, malt.	112	26,822,396	3,564,394	3,592,305	5,651,174	9,014,523	81	547	879,010	3,464	2,292,652
126 Liquors, vinous.	52	1,621,836	81,235	307,745	288,969	993,887	49	58	49,259	179	68,168
127 Lithographing and engraving.	19	2,771,946	57,513	205,500	1,143,055	1,360,878	10	230	277,336	1,678	835,467
128 Lock and gun smithing.	105	68,577	12,550	5,480	26,919	23,628	116			52	21,441
129 Looking-glass and picture frames.	125	811,337	121,630	180,950	89,966	418,791	152	74	67,882	691	282,372
130 Lumber and timber products.	2,054	13,741,418	3,071,577	939,631	3,267,283	6,462,927	2,800	365	303,421	3,539	3,296,668
131 Lumber, planing mill products, including sash, doors, and blinds.	854	7,498,314	902,774	978,193	1,439,046	4,178,301	485	434	355,979	4,696	2,169,261
132 Malt.	14	1,858,054	214,390	327,107	84,703	731,854	18	22	32,112	185	85,995
133 Marble and stone work.	133	1,949,635	575,542	186,528	590,229	596,686	160	120	106,033	1,889	869,258
134 Masonry, brick and stone.	441	1,489,846	83,885	82,800	301,927	1,021,234	565	99	77,316	4,006	2,198,980
135 Mattresses and spring beds.	40	332,714	18,920	27,730	53,364	227,700	49	49	35,657	451	157,799
136 Millinery and lace goods.	20	220,808	10,000	57,600	20,764	132,544	30	19	12,050	392	96,489
137 Millinery, custom work.	1,231	1,697,807	159,847	260,230	74,842	1,202,888	1,445	276	86,707	2,396	603,478
138 Mineral and soda waters.	112	652,736	92,800	84,485	255,795	219,656	130	58	46,193	328	152,280
139 Mirrors.	5	243,387	9,200	26,000	72,875	135,312	4	12	11,100	128	54,057
140 Models and patterns.	65	234,043	8,568	30,550	81,720	113,205	80	11	10,332	320	170,072
141 Monuments and tombstones.	241	885,551	134,207	117,708	84,233	549,403	301	98	57,739	528	304,528
142 Mucilage and paste.	12	27,310	4,150	4,675	2,175	16,410	15	1	600	26	8,207
143 Musical instruments and materials, not specified.	16	150,436	50,000	50,000	6,617	48,819	13	5	2,760	40	19,743
144 Musical instruments, organs and materials.	6	79,523	9,800	12,500	7,870	49,353	7	9	1,980	46	23,954
145 Musical instruments, pianos and materials.	12	1,269,913	88,250	232,387	110,361	898,415	13	44	59,232	725	538,639
146 Oil, linseed.	7	1,087,221	405,000	227,000	448,000	907,221		25	48,560	147	76,044
147 Oil, not elsewhere specified.	15	711,805	11,800	25,641	60,575	607,789	12	148	143,424	93	44,864
148 Optical goods.	17	51,656			12,008	39,647	16	3	920	54	27,671
149 Painting, house, sign, etc.	837	880,950	87,253	126,313	153,587	510,797	1,062	85	56,020	2,535	1,335,895
150 Paints.	45	4,306,499	490,596	474,905	433,921	2,907,077	41	395	470,581	783	336,746
151 Paper and wood pulp.	51	7,872,913	919,385	1,585,671	2,601,501	2,705,906	19	196	277,984	3,184	1,118,010
152 Paper goods, not elsewhere specified.	14	1,066,431	41,500	143,119	288,975	592,887	11	49	76,350	744	244,439
153 Paper hanging.	147	429,282	9,335	21,920	34,383	363,444	167	72	47,899	527	288,390
154 Paper hangings.	3	132,789	10,726	15,000	33,412	85,651	3	11	3,596	70	27,832
155 Patent medicines and compounds.	139	2,168,037	89,500	193,205	105,289	1,720,043	153	249	240,739	560	198,705
156 Paving and paving materials.	192	1,416,477	161,988	117,909	456,115	711,415	221	141	97,578	2,046	1,149,397
157 Pens, fountain and stylographic.	4	25,540	350	600	9,350	15,240	6	3	1,669	43	10,515
158 Perfumery and cosmetics.	8	64,652	300	200	5,926	58,226	3	13	12,000	40	14,795
159 Petroleum, refining.	3	10,912,813	850,225	928,690	4,824,427	4,303,476	2	217	234,209	1,008	551,692
160 Photographic materials.	5	10,100			3,600	6,500	6	6		15	4,756
161 Photography.	488	608,123	82,430	62,325	286,076	227,292	547	44	13,592	481	202,982
162 Photolithographing and photoengraving.	18	117,064	9,800	18,200	51,014	38,050	14	36	25,628	200	97,315
163 Pickles, preserves, and sauces.	27	519,490	13,860	181,025	79,795	294,810	80	45	61,134	354	182,480
164 Plastering and stucco work.	207	198,211	22,867	26,403	65,166	81,785	256	5	4,120	559	335,410
165 Plated and britannia ware.	3	209,374		62,304	83,399	63,671	1	15	22,416	244	115,313
166 Plumbers' supplies.	18	789,123	29,337	45,438	160,222	551,159	12	91	107,474	373	242,407
167 Plumbing, and gas and steam fitting.	612	2,056,463	153,038	172,900	254,614	1,476,911	787	233	143,853	2,794	1,540,558
168 Pottery, terra cotta, and fire-clay products.	248	15,663,969	1,980,872	5,215,460	2,776,469	5,591,168	225	318	765,915	11,370	5,000,346
169 Printing and publishing, book and job.	410	6,330,456	154,120	642,979	3,568,699	1,974,658	453	568	492,547	4,613	2,171,241
170 Printing and publishing, music.	6	192,783			14,550	178,233	4	20	24,559	1	22,879
171 Printing and publishing, newspapers and periodicals.	837	11,327,365	651,865	1,103,821	5,557,691	4,014,488	863	1,456	1,277,427	6,360	3,119,596
172 Printing materials.	3	16,975			10,600	6,375	3	1	416	10	5,216
173 Pumps, not including steam pumps.	30	115,656	7,985	7,450	14,065	86,156	35	13	11,617	83	35,807
174 Regalia and society banners and emblems.	11	923,734	51,074	134,460	70,484	667,716	14	146	119,859	813	199,850
175 Registers, cash.	5	4,922,860	49,612	483,647	428,568	3,956,133	1	206	302,335	1,919	1,173,644
176 Roofing and roofing materials.	307	1,956,047	162,231	242,766	309,328	1,241,722	370	146	114,383	1,144	551,930
177 Rubber and elastic goods.	19	5,989,129	306,369	624,633	900,991	4,167,136	17	318	305,449	3,505	1,281,038
178 Saddlery and harness.	850	3,203,189	328,555	831,260	310,732	2,034,622	952	208	167,023	2,229	863,330
179 Safes and vaults.	10	3,560,778	159,000	419,820	1,054,937	1,927,021	2	124	141,056	1,327	678,808
180 Salt.	10	796,841	78,047	268,400	308,000	142,894	3	48	42,218	678	243,397
181 Sausage.	6	40,550	10,300	21,150	5,000	4,100	6			19	11,150
182 Saws.	11	326,301	24,525	32,322	105,946	163,598	14	22	18,995	165	78,857
183 Scales and balances.	5	291,777	7,000	5,000	77,000	202,777	1	44	36,037	816	153,819
184 Screws, wood.	3	1,209,500	70,000	255,000	456,000	428,500		40	59,727	685	187,300
185 Sewing machine repairing.	20	16,820	3,300	2,200	3,390	7,730	23	6	3,652	17	7,478
186 Sewing machines and attachments.	5	3,404,137	96,000	323,660	692,420	2,287,057		157	208,094	1,306	739,621
187 Ship and boat building, wooden.	31	283,940	90,050	85,880	52,785	105,225	37	14	9,445	368	161,123
188 Shirts.	53	302,322	1,300	5,500	36,740	268,852	71	86	38,870	733	176,130
189 Shoddy.	6	1,397,746	120,500	138,000	408,700	730,546		35	55,245	474	164,679
190 Show cases.	9	80,309	12,800	8,100	19,235	40,174	13	12	9,150	100	50,917
191 Slaughtering and meat packing, wholesale.	60	5,224,226	274,685	688,071	482,606	3,778,884	76	313	266,001	1,700	776,288

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.		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.										
1,384	\$617,409					\$160,315	\$3,090	\$15,488	\$109,706	\$32,081	\$3,774,208	\$3,745,750	\$28,539	\$5,182,065	122
1,602	697,099					147,888	12,391	13,706	113,847	7,834	1,082,664	709,059	373,605	2,709,481	123
817	174,798	12	\$1,400	10	\$2,343	9,422,583	5	15,550	9,607,028		1,438,507	1,360,136	77,541	12,417,268	124
3,420	2,284,958	5	852	39	6,842	8,101,240	12,120	217,434	7,874,686		4,277,812	3,895,656	382,156	18,522,639	125
170	87,227	8	756	1	180	69,718	4,810	7,154	57,751		428,879	419,032	9,847	801,684	126
1,362	761,944	314	78,183	2	340	159,370	28,313	9,324	117,587	4,146	1,100,663	1,085,235	15,428	2,731,956	127
48	20,564	3	775	1	102	12,639	10,047	519	2,063	10	24,661	22,370	2,291	126,478	128
627	208,400	37	10,566	27	3,406	82,755	23,639	6,337	52,379	400	482,153	474,515	7,638	1,114,220	129
8,402	3,274,682	79	16,306	58	7,680	508,562	57,272	81,032	370,238		11,296,045	11,285,923	10,122	20,790,851	130
4,651	2,100,825	24	5,416	21	3,023	468,548	52,391	59,897	277,088	79,172	6,549,648	6,479,537	70,111	11,066,671	131
185	85,995					61,019	10,908	8,811	41,300		915,422	877,686	37,736	1,166,268	132
1,828	866,533	5	1,500	6	1,225	141,229	25,300	10,081	90,785	15,063	610,779	557,440	53,339	2,071,249	133
4,005	2,198,833					1,018,913	15,255	4,938	51,941	941,779	2,676,464	2,653,926	22,538	7,148,133	134
305	115,735	144	41,861	1	147	18,961	13,811	2,090	33,060		583,932	578,814	5,088	935,990	135
43	23,267	349	73,222	2	200	18,821	9,535	801	6,873	1,612	324,459	322,944	1,515	547,540	136
14	6,442	2,368	595,667	14	1,369	352,993	243,347	14,935	87,671	7,040	2,505,821	2,487,632	18,189	4,756,099	137
317	149,276	5	1,781	6	1,232	108,908	13,886	5,460	89,562		773,959	766,705	7,254	2,731,684	138
120	51,579	6	2,250	2	228	12,676	2,680	410	9,586		282,928	279,939	2,989	387,417	139
316	168,902	4	1,170			19,153	9,136	1,110	7,127	1,750	76,432	70,519	5,913	406,624	140
525	303,473	3	1,055			86,938	16,201	7,168	42,307	21,262	1,063,653	1,056,581	7,072	1,928,217	141
17	6,901	8	1,266	1	100	1,934	990	231	613	100	15,806	15,469	337	46,931	142
35	18,340	5	1,408			14,799	2,736	310	10,353	1,400	21,832	20,963	869	70,219	143
45	23,804	1	150			3,892	220	335	3,337		22,115	21,400	715	68,406	144
704	823,202	21	10,497			115,287	6,027	5,350	103,910		687,621	679,463	8,158	1,387,454	145
147	76,044					72,981		6,074	66,857		2,888,681	2,870,132	18,549	3,114,655	146
93	44,864					133,911	7,589	1,366	123,597	1,359	890,516	881,654	8,862	1,505,889	147
43	24,856	8	2,332	3	433	9,675	6,087	281	3,307		42,302	41,256	1,046	121,695	148
2,512	1,329,044	13	2,894	10	1,937	133,537	60,894	4,933	62,938	4,722	1,053,290	1,048,080	5,210	3,570,218	149
635	303,493	98	33,253			618,050	23,576	32,090	502,334	60,000	3,204,558	3,168,453	36,105	5,165,001	150
2,542	971,232	629	143,630	13	3,178	479,336	5,508	40,881	482,997		3,768,572	3,733,277	35,295	6,648,513	151
432	181,961	312	62,478			60,791	5,122	3,850	51,819		1,383,209	1,358,029	25,180	2,691,494	152
490	278,469	34	9,539	3	382	56,082	36,485	1,941	17,256	400	464,743	466,487	2,256	1,155,400	153
58	25,482	12	2,400			9,444	912	732	8,400		57,886	56,066	1,820	117,472	154
261	127,362	298	70,751	6	592	1,232,904	27,727	7,158	1,193,619	4,100	1,033,869	1,022,848	11,021	3,673,010	155
2,633	1,147,317	13	2,080			102,402	13,912	6,292	68,329	18,869	1,416,227	1,392,226	24,001	3,305,701	156
27	12,495	15	8,700	1	320	2,964	1,400	37	1,527		22,189	21,774	415	52,000	157
10	7,207	30	7,528			35,528	1,905	248	33,375		62,685	62,477	208	155,826	158
965	541,261	43	10,431			620,061	4,747	53,655	561,259	400	6,177,048	5,851,457	325,591	8,396,977	159
8	3,342	7	1,414			3,495	700	114	2,371	250	9,799	9,491	303	32,025	160
279	146,141	191	55,337	11	1,504	141,930	93,715	4,440	36,879	1,356	365,104	355,682	9,422	1,270,195	161
181	91,059	18	6,156	1	100	15,682	5,240	579	7,313	2,550	46,872	44,079	2,793	232,297	162
169	87,803	185	44,582			181,652	7,145	3,011	119,996	1,500	731,201	728,817	5,887	1,305,249	163
558	325,261			1	149	16,132	6,403	1,152	7,245	1,332	805,371	804,486	886	905,797	164
238	113,493	6	1,850			11,208	1,380	1,236	8,152	440	144,894	142,998	1,896	821,676	165
577	241,527	1	520			55,367	13,022	3,698	37,547	1,100	624,748	611,510	11,438	1,204,705	166
2,772	1,536,110	4	1,145	18	3,298	222,099	112,443	12,465	83,831	13,810	3,466,837	3,440,789	26,068	6,743,144	167
9,621	4,453,264	2,148	527,777	101	19,805	691,591	21,694	80,224	562,536	27,137	3,229,385	2,260,395	968,990	11,851,225	168
3,413	1,856,283	1,132	304,830	68	10,123	823,070	157,826	31,160	397,570	280,514	2,749,600	2,674,970	74,630	7,941,570	169
4,902	2,199,908	6	1,500	10	1,402	135,000	2,400	3,172	77,433	51,945	23,761	23,370	391	260,658	170
4,907	2,734,937	1,149	800,146	304	84,463	1,783,246	184,756	60,616	1,153,319	33,165	2,883,006	2,779,464	103,542	12,189,640	171
10	5,216					1,947	1,385	30	632		14,432	14,320	112	34,000	172
83	35,807					7,775	3,519	653	8,603		90,064	89,067	997	193,335	173
222	89,551	599	110,081	2	208	223,767	8,922	7,330	207,215	300	929,173	924,702	4,471	1,624,065	174
1,738	1,109,404					903,984	2,379	7,423	894,182		857,749	828,659	28,790	5,414,711	175
1,133	519,635	181	64,240			132,067	39,978	10,559	85,638	2,392	2,004,347	2,880,979	17,363	4,624,810	176
2,576	1,025,815	905	249,658	24	5,565	305,446	3,110	38,217	264,079	40	4,757,204	4,650,270	106,934	7,890,104	177
1,849	730,910	340	78,145	40	0,276	224,243	78,912	24,034	120,857	390	2,953,855	2,930,728	23,127	5,111,345	178
1,319	677,410			8	1,456	125,663	10,949	7,780	106,889		1,123,010	1,102,437	20,573	2,407,635	179
543	215,975	133	27,102	2	320	93,342	6,656	85,709	6,656	977	423,875	414,866	149,239	818,200	180
19	11,150					1,424	144	483	842		79,398	77,866	1,532	180,877	181
165	78,857					11,688	3,402	1,458	6,833		131,467	125,479	5,988	325,918	182
311	157,319	5	1,500			76,612	3,050	1,277	22,275	50,000	257,680	253,727	3,953	634,058	183
353	146,500	232	40,800			46,133	6,832	39,351	6,832		253,054	245,054	8,000	630,008	184
14	7,121	1	150	2	202	8,411	1,634	184	1,443		14,306	14,090	216	45,020	185
1,275	732,457	18	4,980	18	2,184	166,987	3,200	14,615	149,172		1,445,745	1,433,046	12,699	2,922,959	186
368	161,123					28,908	3,860	1,704	6,994	11,850	202,510	199,479	3,037	485,551	187
69	35,152	603	139,850	1	104	50,986	13,453	712	19,454	17,867	405,340	401,749	3,591	833,253	188
229	102,736	245	61,843			69,259	540	5,495	63,224		1,077,529	1,055,619	21,910	1,478,712	189
94	49,427	2	490	4	1,000	10,925	8,240	733	8,952		80,515	78,955	1,560	189,416	190
1,652	762,404	29	8,656	19	4,228	619,628	26,120	24,262	569,246		17,006,794	16,922,855	84,439	19,609,304	191

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.
192	Slaughtering, wholesale, not including meat packing.	11	\$31,400	\$22,175	\$32,550	\$22,175	\$54,500	14		65	\$36,110	
193	Soap and candles	55	7,655,594	600,720	1,852,268	910,350	1,292,256	53	360	3,990,180	1,427	572,301
194	Sporting goods	9	314,202	6,800	21,200	59,803	226,399	6	26	29,321	849	127,059
195	Stamped ware	8	767,370	123,000	107,000	308,366	234,004	5	34	36,239	384	186,719
196	Starch	5	2,073,209	705,000	875,000	269,703	223,506	31	31	39,815	199	78,159
197	Stationery goods, not elsewhere specified.	5	1,402,655	80,500	124,490	247,501	950,164	5	91	83,777	968	268,741
198	Steam fittings and heating apparatus	22	1,444,658	135,946	208,400	229,215	871,097	14	98	96,237	677	374,689
199	Stencils and brands	10	145,940	34,000	50,640	43,000	18,300	12	5	2,816	71	35,293
200	Stereotyping and electrotyping	12	193,834			86,608	107,276	12	38	33,489	186	108,050
201	Sugar and molasses, refining	21	97,349	1,287	4,090	18,469	73,533	26	8	11,870	26	9,972
202	Surgical appliances	12	20,250	1,000	1,000	4,495	13,755	14			30	11,900
203	Taxidermy	5	4,480			560	3,900	5			1	156
204	Tin andterne plate	12	1,153,265	53,300	101,335	405,327	593,303	1	38	33,301	697	394,076
205	Tinsmithing, coppersmithing, and sheet-iron working.	385	3,427,962	306,448	498,269	763,832	1,869,413	1,052	240	201,030	3,305	1,436,861
206	Tobacco, chewing, smoking, and snuff.	19	2,081,858	34,421	181,660	350,316	1,515,461	18	162	242,606	1,087	389,881
207	Tobacco, cigars and cigarettes	1,129	4,579,159	184,368	309,980	320,178	3,764,643	1,273	372	363,170	9,046	3,016,072
208	Tobacco, stemming and rehandling	48	2,878,688	52,875	207,268	39,176	2,579,369	85	64	86,414	2,056	552,593
209	Tools, not elsewhere specified	41	1,390,653	88,450	238,642	484,005	579,556	40	83	79,104	832	394,674
210	Toys and games	16	306,630	23,301	36,804	61,599	184,326	17	31	16,062	350	102,719
211	Trunks and valises	23	356,259	22,300	36,500	41,857	255,602	29	49	40,160	423	169,664
212	Umbrellas and canes	20	306,299	2,500	20,700	57,579	225,430	20	49	32,375	232	90,173
213	Upholstering materials	13	473,543	35,900	64,750	146,070	220,823	13	19	26,646	188	66,491
214	Varnish	20	1,195,885	90,081	103,352	84,519	857,993	21	120	165,317	109	76,841
215	Vinogar and cider	118	255,682	28,257	57,888	94,234	85,213	143	18	18,617	102	34,867
216	Washing machines and clothes wringers.	17	30,690	2,900	7,700	19,062	51,028	19	16	8,685	68	81,469
217	Watch, clock, and jewelry repairing	736	544,596	70,815	31,420	134,895	207,466	783	5	2,490	534	276,304
218	Whips	4	184,130	4,000	26,571	27,803	125,756	45	45	42,894	146	40,429
219	Windmills	3	240,882	5,453	63,536	10,297	161,596	4	14	13,527	110	52,259
220	Window shades	4	121,210			7,210	114,000	6	10	7,680	60	25,715
221	Wirework, including wire rope and cable.	48	1,170,203	64,600	176,552	336,840	592,211	49	88	68,057	977	352,362
222	Wood, turned and carved	97	1,169,790	169,691	194,516	284,418	521,135	110	55	53,225	980	386,185
223	Woodenware, not elsewhere specified	8	186,460	13,240	41,500	29,200	102,520	12	12	6,827	140	57,774
224	Woolen goods	35	1,591,445	112,745	230,978	472,411	725,311	23	57	64,776	636	201,547
225	All other industries ¹	87	12,633,102	1,133,930	1,646,642	3,508,887	6,293,643	68	423	580,842	7,466	3,548,455

¹ Embraces axle grease, 1; babbit metal and solder, 2; bells, 2; bone, ivory, and lamp black, 1; bronze castings, 1; calcium lights, 1; chocolate and cocoa products, 1; clocks, 1; copper, smelting and refining, 1; cordials and sirups, 2; cork, cutting, 1; cotton small wares, 1; cotton waste, 1; dentists' materials, 1; drug grinding, 1; dyeing and finishing textiles, 1; emery wheels, 1; engravers' materials, 1; envelopes, 1; felt goods, 2; fire extinguishers, chemical, 1; fur hats, 1; galvanizing, 2; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 2; hammocks, 2; horseshoes, factory product, 1; ink, writing, 2; iron and steel, doors and shutters, 1; lard, refined, 1; lasts, 2; lead, bar, pipe, and sheet, 2; matches, 2; nets and seines, 1; oil, cottonseed and

TABLE 8.—MANUFACTURES IN CITIES

AKRON.

1	All Industries	481	\$24,199,310	\$1,208,661	\$4,596,380	\$5,970,113	\$12,424,156	427	1,130	\$1,019,025	9,030	\$3,971,307
2	Bicycle and tricycle repairing	5	2,830			1,145	1,685	6			3	1,025
3	Blacksmithing and wheelwrighting	31	21,080	8,110	5,150	3,840	4,480	34			25	14,124
4	Boots and shoes, custom work and repairing.	30	3,472	625	475	1,695	777	31			4	1,600
5	Bread and other bakery products	19	26,717	2,725	6,575	8,711	8,706	18	9	4,309	34	15,905
6	Brick and tile	3	84,813	15,000	28,000	12,539	28,674	6	4	2,510	72	29,299
7	Brooms and brushes	3	2,640	700	625	340	975	3			6	2,920
8	Carpentering	16	40,489	3,600	9,400	6,004	21,465	19	4	2,430	97	44,533
9	Carriage and wagon materials	3	146,292	22,387	43,754	29,109	50,492	14	14	14,450	133	62,365
10	Carriages and wagons	5	59,375	18,000	10,100	5,475	25,800	6	3	2,360	24	11,134
11	Clothing, men's, custom work and repairing.	27	37,544	2,200	825	2,160	32,369	29	1	1,200	92	40,251
12	Clothing, women's, dressmaking	9	2,075			1,545	530	9	4	2,500	68	11,376
13	Confectionery	3	25,150	2,400	3,200	3,525	11,025	3	4	3,504	35	18,058
14	Electrical apparatus and supplies	3	77,900	10,400	11,000	13,500	44,000	1	2	4,700	27	12,116
15	Foundry and machine shop products	19	3,539,551	145,108	416,460	397,753	2,580,230	13	207	154,646	1,171	608,560
16	Furniture, cabinetmaking, repairing, and upholstering.	7	17,102	6,900	1,200	2,707	6,295	7	1	275	14	7,090
17	Looking-glass and picture frames	5	4,330			530	3,800	6	1	900	7	4,000
18	Lumber, planing mill products, including sash, doors, and blinds.	6	210,219	10,120	11,388	15,141	173,570	10	11	10,700	109	58,450
19	Masonry, brick and stone	12	22,490	600	1,200	5,200	15,400	15	1	600	107	61,750
20	Millinery, custom work	14	47,160	7,000	5,000	1,150	34,000	16	8	4,680	84	20,350
21	Painting, house, sign, etc	19	128,499	4,850	28,968	32,855	61,826	21	7	7,953	109	61,000
22	Patent medicines and compounds	6	48,416	500	500	1,300	46,116	5	3	2,600	5	1,194
23	Photography	11	14,985		125	8,265	6,595	14	1	450	10	4,043
24	Plastering and stucco work	3	1,475			425	1,050	3			12	3,200
25	Plumbing, and gas and steam fitting	10	32,040			3,200	28,750	17	4	1,920	54	25,979
26	Pottery, terra cotta, and fire-clay products.	18	1,465,246	150,567	637,284	315,571	351,824	3	45	42,229	900	411,349

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.		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.										
65	\$36,110					\$19,880	\$780	\$980	\$17,670		\$921,159	\$917,268	\$3,891	\$1,051,476	192
988	473,755	401	\$98,002	38	\$5,544	1,182,185	12,969	37,524	1,122,600	\$9,092	5,049,219	4,944,710	104,509	8,150,009	193
164	75,619	185	51,440			22,801	1,985	1,462	19,364		573,818	569,185	4,633	797,534	194
378	185,472	11	1,247			23,942	4,440	2,919	16,588		297,849	287,980	9,869	570,610	195
167	67,949	39	9,850	3	360	84,396	1,930	5,488	76,978		572,168	558,188	14,080	940,511	196
280	141,571	672	124,320	16	2,850	33,188	3,520	4,367	25,301		448,006	438,448	9,558	977,367	197
671	372,481	1	208	5	2,000	72,204	8,426	5,924	48,531	9,323	610,082	594,800	15,782	1,495,724	198
63	34,343			8	950	7,389	2,645	986	3,658	100	19,540	18,445	1,095	91,218	199
180	106,550	4	1,050	2	450	28,369	7,916	839	19,614		82,368	76,510	5,858	317,041	200
24	9,612	1	286	1	124	18,278	1,900	373	16,005		96,024	94,802	1,222	167,625	201
12	7,345	16	4,194	2	358	3,044	1,927	64	1,053		7,282	6,939	293	41,070	202
				1	156	752	650	34	68		1,435	1,385	50	5,040	203
564	358,649	133	41,027			38,963	1,800	3,681	33,582		5,012,175	4,997,786	14,389	6,023,314	204
2,829	1,317,350	422	93,036	144	26,425	268,601	101,246	22,524	137,186	7,645	3,972,984	3,928,677	44,307	7,250,109	205
657	268,323	430	121,558			3,001,133	10,039	13,926	2,977,168		1,917,219	1,895,866	21,353	5,752,853	206
8,788	1,642,778	5,156	1,351,179	152	22,115	2,618,678	142,744	22,537	2,447,769	628	3,717,825	3,697,039	20,786	11,239,824	207
776	283,077	1,237	264,405	43	5,111	141,173	8,497	13,433	116,193	3,000	2,587,583	2,582,421	5,162	3,839,952	208
723	373,544	103	21,010	1	120	101,708	7,330	4,762	87,049	2,067	411,705	393,669	18,036	1,350,441	209
252	84,129	91	17,620	7	970	24,218	1,859	1,090	20,569		166,498	163,516	2,982	348,307	210
368	147,964	48	9,222	17	2,478	37,093	17,320	2,357	16,921		358,370	354,633	3,737	696,988	211
134	46,649	155	42,900	3	624	20,686	9,952	1,759	8,975		306,555	303,376	3,179	518,994	212
139	59,961	47	12,180	2	350	23,095	4,696	2,515	15,884		423,067	418,514	4,553	614,346	213
108	76,541	6	300			165,900	5,110	8,494	152,356		910,910	901,678	9,232	1,538,623	214
94	32,337	1	1,340	2	160	18,736	663	1,777	16,296		147,989	141,641	6,358	302,405	215
67	31,349	6		1	120	7,331	3,740	538	3,553		129,534	126,767	2,767	214,604	216
407	268,508	24	6,261	13	1,535	102,009	74,207	4,877	18,435	4,490	207,698	199,163	8,530	1,021,897	217
84	27,470	62	12,950			26,366		1,179	25,187		131,192	129,837	1,355	267,379	218
110	52,259					9,774		3,262	6,372		95,744	95,104	640	174,396	219
41	21,615	19	5,100			9,045	5,400	405	3,240		202,190	201,330	860	523,935	220
903	331,576	73	20,606	1	180	92,639	9,039	7,078	74,512	2,000	803,813	794,342	9,471	1,528,375	221
960	383,200	13	2,222	7	763	62,861	10,643	6,393	38,620	7,205	794,605	784,031	10,574	1,526,720	222
139	57,474			1	100	21,025	731	1,761	18,433		33,452	30,267	3,185	205,600	223
266	110,850	341	37,037	29	3,660	35,394	2,100	7,936	76,358		869,236	851,139	18,047	1,321,751	224
6,198	3,203,656	1,233	334,295	35	5,504	1,228,836	38,393	45,552	870,564	274,377	9,370,163	9,720,222	149,941	17,069,694	225

cake, 1; oil, lard, 1; oilcloth, enameled, 1; oilcloth, floor, 1; oleomargarine, 2; pens, gold, 1; pens, steel, 1; photographic apparatus, 2; pipes, tobacco, 1; refrigerators, 1; rules, ivory and wood, 1; sewing machine cases, 1; shipbuilding, iron and steel, 2; silversmithing, 1; smelting and refining, not from the ore, 2; springs, steel, car and carriage, 2; steam packing, 2; straw goods, not elsewhere specified, 1; type foundry, 1; typewriter repairing, 2; typewriters and supplies, 1; vault lights and ventilators, 2; watch cases, 2; watches, 2; wheelbarrows, 2; wire, 1; wool pulling, 2; worsted goods, 1.

BY SPECIFIED INDUSTRIES: 1900.

AKRON.

7,299	\$3,529,449	1,666	\$433,314	65	\$8,544	\$1,779,804	\$56,626	\$111,104	\$1,236,162	\$375,912	\$13,474,282	\$13,114,806	\$359,476	\$23,610,099	1
3	1,025					699	528	6	165		1,388	1,335	53	5,500	2
25	14,124					2,645	2,171	181	293		11,330	13,436	944	58,252	3
4	1,600					1,608	1,577	13	18		7,966	7,793	203	26,442	4
31	15,255	3	650			4,516	3,071	363	1,032		51,659	49,039	2,570	94,772	5
72	29,290					7,636		434	7,202		17,998	988	17,010	75,759	6
6	2,920					299	224	20	55		8,578	3,563	15	8,950	7
97	44,533					13,057	786	267	1,562	10,442	142,072	141,545	527	257,574	8
133	62,365					12,632		1,070	11,562		78,099	75,566	2,533	136,798	9
24	11,134					2,914	150	495	1,469	800	14,465	13,930	535	39,643	10
64	33,111	28	7,140			7,076	5,778	186	1,112		41,072	40,593	479	120,929	11
		68	11,976			4,091	4,039		52		21,450	21,400	50	58,450	12
23	13,654	12	4,404			2,352	1,600	310	442		30,630	29,585	1,045	70,000	13
26	11,700	1	416			3,348	50	258	3,040		14,613	13,563	1,050	41,250	14
1,165	606,310	6	2,250			244,777	352	15,162	119,693	109,570	745,852	715,861	30,492	2,004,789	15
13	6,990	1	100			1,697	779	142	776		8,353	8,067	286	23,523	16
6	3,550	1	450			672	599		78		12,422	12,395	27	24,675	17
109	53,450					7,303	1,325	966	4,612	400	32,446	31,941	505	192,650	18
107	61,750					809	385	71	353		71,760	71,655	105	167,708	19
105	60,040	64	20,850			21,528	8,548	610	12,370		66,506	66,224	282	133,698	20
		4	960			28,595	618	149	22,828		125,495	124,188	1,307	256,006	21
1	450	4	744			11,124	555	86	10,433		13,435	13,345	90	36,250	22
7	3,473	3	575			2,626	2,229	29	368		11,232	11,046	236	32,367	23
12	8,200										7,575	7,575		19,300	24
54	25,979					5,803	2,528	238	3,047		64,502	64,352	150	120,453	25
785	337,399	113	24,150	2	300	64,474		12,307	49,667	2,500	215,456	211,273	114,133	367,116	26

TABLE 8.—MANUFACTURES IN CITIES

AKRON—Continued.

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.
27 Printing and publishing, book and job	18	\$2,195,040	\$40,150	\$500,050	\$1,018,589	\$636,251	10	111	\$98,611	908	\$481,768
28 Printing and publishing, newspapers and periodicals.	5	217,890	5,000	5,000	126,000	81,390	1	37	44,780	46	33,967
29 Roofing and roofing materials	11	52,229	9,250	8,850	6,059	33,070	14	8	4,880	74	30,931
30 Rubber and elastic goods	8	4,642,896	279,603	506,879	824,444	3,081,970	6	259	233,993	2,077	1,005,405
31 Saddlery and harness	12	19,335	1,400	950	2,310	14,675	13	1	900	11	6,085
32 Tinsmithing, coppersmithing, and sheet-iron working.	8	61,265	4,850	12,850	10,990	33,075	9	9	5,713	37	17,334
33 Tobacco, cigars and cigarettes	7	4,803	1,350	700	133	2,620	7			9	3,816
34 Watch, clock, and jewelry repairing	14	5,750			4,075	2,675	14			12	4,725
35 All other industries ¹	66	10,947,742	465,316	2,344,272	3,100,158	5,047,996	58	371	365,242	2,079	904,505

¹ Embraces agricultural implements, 2; awnings, tents, and sails, 2; belting and hose, leather, 1; bicycles and tricycles, 1; bottling, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; carpets, rag, 1; china decorating, 1; cleansing and polishing preparations, 2; coffee and spice, roasting and grinding, 1; cooperage, 1; cordage and twine, 1; dyeing and cleaning, 2; electrical construction and repairs, 2; electroplating, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 2; files, 1; flavoring extracts, 1; flouring and grist mill products, 2; food preparations, 1; gas, illuminating and heating, 1; hand stamps, 1; hardware, 1;

CANTON.

1 All industries	502	\$10,094,813	\$985,518	\$1,625,524	\$1,959,271	\$5,574,500	541	562	\$523,561	6,455	\$2,970,245
2 Agricultural implements	6	2,473,863	202,860	223,474	281,489	1,766,540	1	102	99,818	586	267,619
3 Bicycle and tricycle repairing	12	8,480	1,000	1,000	3,275	3,205	13			12	6,297
4 Blacksmithing and wheelwrighting	21	17,015	4,600	3,900	2,640	5,875	23			17	7,290
5 Boots and shoes, custom work and repairing.	29	11,778	800	1,550	2,965	6,463	29			12	6,313
6 Bottling	3	20,150	5,000	12,000	200	2,950	3	1	572	9	4,202
7 Bread and other bakery products	11	34,808	2,700	5,500	11,950	14,656	15	1	720	47	20,551
8 Brick and tile	3	465,139	71,470	191,353	70,242	132,069	9	9	8,980	171	83,481
9 Carpentry	28	144,800	23,200	15,100	11,885	94,105	30	2	1,500	212	111,697
10 Carpets, rag	3	2,395	200	200	1,325	1,670	3			2	452
11 Carriages and wagons	7	31,800	7,600	5,900	3,375	17,925	12	1	150	83	15,487
12 Clothing, men's, custom work and repairing.	28	19,689	2,850	2,450	2,810	12,079	31	3	1,174	86	39,808
13 Clothing, women's, dressmaking	52	21,132	975	1,600	5,320	13,237	59			110	24,378
14 Confectionery	9	41,510	3,600	6,700	5,300	26,010	10	12	7,000	28	5,534
15 Dyeing and cleaning	6	2,375	400	300	1,740	535	6			8	3,370
16 Electrical construction and repairs	3	6,805			6,100	805	3			6	2,702
17 Flouring and grist mill products	3	51,000	13,000	10,000	22,000	6,000	3	3	1,600	7	4,858
18 Foundry and machine shop products.	16	611,760	48,131	118,123	125,838	320,113	16	35	28,854	446	201,482
19 Furniture, cabinetmaking, repairing, and upholstering.	3	5,200	500	50	850	3,800	3			3	1,460
20 Furniture, factory product	5	382,315	28,038	68,759	40,916	244,602	1	27	34,020	236	110,926
21 Hardware, saddlery	3	234,816	15,200	57,630	41,265	120,701	4	16	16,166	225	87,687
22 Iron and steel	3	768,783	67,531	98,180	283,105	319,967		30	48,220	371	212,231
23 Ironwork, architectural and ornamental.	4	712,655	34,700	92,103	99,007	486,845	2	64	47,513	304	109,320
24 Lamps and reflectors	3	150,434	19,428	6,000	7,123	117,883	3	22	11,858	64	23,974
25 Lock and gun smithing	3	1,550			1,100	450	3				
26 Looking-glass and picture frames	4	3,035			450	7,635	4			6	2,850
27 Masonry, brick and stone	22	62,995	11,550	16,040	10,115	25,200	26			186	99,794
28 Millinery, custom work	10	16,123			643	15,480	13			45	16,118
29 Painting, house, sign, etc	30	52,522	9,735	10,690	4,140	27,037	37			71	41,917
30 Paving and paving materials	6	11,810	400	900	4,925	5,585	8			48	24,454
31 Photography	11	16,725		1,150	7,700	7,875	11			11	4,839
32 Plastering and stucco work	9	9,355	1,500	2,600	1,010	4,245	9			27	20,712
33 Plumbing, and gas and steam fitting	7	61,275	3,300	4,600	3,525	49,950	6	12	8,884	69	36,223
34 Pottery, terra cotta, and fire-clay products	3	131,300	6,000	58,500	50,000	17,300	3	5	5,000	76	27,734
35 Printing and publishing, book and job	7	31,875	1,500	1,000	26,600	2,775	7			23	10,329
36 Printing and publishing, newspapers and periodicals.	4	84,121	8,000	2,000	44,500	29,621	1	12	11,876	80	36,140
37 Roofing and roofing materials	5	80,800	400	950	15,575	63,375	5	5	4,400	23	12,692
38 Saddlery and harness	8	170,117	6,000	46,000	10,536	98,531	8	12	10,715	207	62,856
39 Tinsmithing, coppersmithing, and sheet-iron working.	17	27,096	4,200	5,575	4,050	13,261	13	2	600	35	16,563
40 Tobacco, cigars and cigarettes	15	13,478	850	1,500	1,420	9,708	15	3	1,416	48	13,647
41 Watch, clock, and jewelry repairing	3	7,073	300	700	2,220	3,853	3			9	4,392
42 Wood, turned and carved	3	8,840	3,150	1,100	3,155	1,435	3			14	5,003
43 All other industries ¹	69	3,077,088	325,850	550,417	729,327	1,471,494	80	183	172,520	2,537	1,180,143

¹ Embraces baking and yeast powders, 1; bicycles and tricycles, 1; bookbinding and blank book making, 2; boxes, wooden packing, 1; bridges, 1; brooms and brushes, 2; carriage and wagon materials, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by steam railroad companies, 1; cleansing and polishing preparations, 1; clothing, men's, factory product, 2; cutlery and edge tools, 2; electrical apparatus and supplies, 1; fancy articles, not elsewhere specified, 2; fertilizers, 1; flavoring extracts, 1; food preparations, 1; fruits and vegetables, canning and preserving, 2; gas, illuminating and heating, 1; hardware, 1; ice, manufactured, 1; leather goods, 2; liquors, malt, 1; lumber, planing mill products, including sash, doors, and blinds, 2; marble and stone work, 2;

BY SPECIFIED INDUSTRIES: 1900—Continued.

AKRON—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.										
583	\$347,545	820	\$34,218			\$375,444	\$4,080	\$13,141	\$193,018	\$165,200	\$585,907	\$527,107	\$8,800	\$1,821,296	27
42	32,447	4	1,520			84,241	1,480	409	1,852	80,500	25,732	24,142	1,590	227,300	28
74	30,931					1,903	864	320	719		99,883	99,596	287	160,578	29
2,095	853,171	574	146,169	5	\$1,065	223,697	800	34,556	188,541		3,571,677	3,484,331	87,286	5,524,674	30
11	6,085					1,487	1,067	106	314		17,466	17,281	185	37,613	31
37	17,334					9,596	925	52	3,619	5,000	22,763	22,300	463	60,427	32
9	8,816					2,192	276	37	1,879		8,789	8,703	81	21,990	33
12	4,725					2,054	1,720	39	295		2,614	2,545	69	18,025	34
1,561	770,084	460	127,242	58	7,179	631,909	7,717	29,086	593,606	1,500	7,324,997	7,239,018	85,979	10,724,727	35

ice, manufactured, 1; ink, printing, 1; ironwork, architectural and ornamental, 1; lime and cement, 1; liquors, malt, 2; lock and gun smithing, 2; mineral and soda waters, 2; mirrors, 1; models and patterns, 2; monuments and tombstones, 2; oilcloth, enameled, 1; paper and wood pulp, 1; pens, fountain and stylographic, 1; perfumery and cosmetics, 1; photolithographing and photoengraving, 2; pickles, preserves, and sauces, 1; pumps, not including steam pumps, 1; salt, 1; sewing machine repairing, 1; ship and boat building, wooden, 2; shirts, 1; soap and candles, 1; sporting goods, 1; varnish, 2; wood, turned and curved, 2.

CANTON.

5,530	\$2,735,277	903	\$281,657	22	\$3,311	\$1,081,809	\$45,345	\$49,913	\$705,648	\$220,908	\$5,604,399	\$5,406,618	\$197,766	\$12,258,427	1
586	267,619					139,608		7,747	131,861		539,262	528,397	10,865	1,184,940	2
12	6,237					1,825	1,244	45	586		17,570	17,227	343	38,868	3
17	7,290					2,144	1,805	185	154		11,128	10,410	718	39,882	4
12	6,313					2,065	1,666	97	302		12,514	12,098	416	35,707	5
8	3,892	1	400			1,271	100	120	1,051		23,982	23,862	120	43,104	6
89	18,446	8	2,105			3,406	1,466	306	1,684		53,892	56,801	2,001	120,414	7
165	82,401			6	1,080	37,993		1,367	36,626		63,141	23,245	39,896	255,800	8
212	111,587					81,591	489	739	2,878	77,485	315,600	315,003	597	585,228	9
2	482					228	178	6	49		1,583	1,536	47	3,302	10
33	15,487					1,607	696	219	692		22,170	21,534	636	60,284	11
50	29,216	36	10,087			4,534	3,678	141	715		47,462	46,921	541	124,691	12
2	1,800	108	23,573			6,390	4,989	253	1,098	50	36,776	35,620	1,156	103,713	13
17	6,414	11	2,129			2,465	1,034	382	1,049		31,090	30,510	580	61,489	14
3	2,220	5	1,150			814	231	16	567		2,288	2,090	193	12,383	15
5	2,520	1	182			597	336	10	221		5,405	5,383	22	13,300	16
7	4,853					3,707		667	3,040		142,728	141,430	1,298	165,684	17
484	199,812	12	1,670			31,481	578	2,726	28,177		281,646	272,448	9,198	692,680	18
2	1,200	1	260			612	276	22	314		3,856	3,825	60	11,600	19
236	110,926					22,201	210	1,495	20,406		86,754	84,480	2,274	352,031	20
220	86,637	5	1,000			22,595	600	1,107	20,888		61,931	58,136	3,795	215,523	21
371	212,231					27,471	198	2,553	24,720		575,159	523,127	52,032	995,362	22
257	100,605	46	8,550	1	165	60,504	132	1,951	58,421		715,047	710,922	4,126	1,073,664	23
64	23,974					72,661	490	895	3,523	67,813	68,371	67,648	723	215,460	24
						246	192	4	50		1,333	1,280	78	3,313	25
6	2,850					1,665	841	64	360	400	14,740	14,435	305	25,170	26
136	99,794					73,466	240	410	3,016	69,800	85,881	85,593	248	301,992	27
		45	16,118			5,233	4,030	149	1,054		62,427	61,355	1,072	117,275	28
70	41,721			1	196	4,615	1,927	415	2,273		29,859	29,454	405	110,710	29
48	24,454					596	114	62	420		16,812	16,762	50	48,381	30
7	3,869	4	970			4,795	1,811	137	2,647	200	18,440	12,940	491	42,300	31
27	20,712					1,006	316	108	582		15,625	15,515	110	48,110	32
69	36,233					4,465	2,066	376	2,023		68,231	67,875	356	142,195	33
67	26,359	9	1,375			8,714	1,800	174	2,740	4,000	23,050	6,898	16,152	81,481	34
19	9,523	4	806			1,544	789	182	623		7,111	6,564	547	26,382	35
66	33,140	13	2,900	1	100	16,484	1,880	291	14,313		31,162	29,720	1,442	117,648	36
22	12,360	1	332			4,468	872	233	3,369		101,177	100,660	517	158,938	37
130	50,597	77	12,059			21,643	1,348	1,122	19,173		215,067	213,812	1,255	381,190	38
84	16,263	1	300			2,584	1,548	174	812		28,917	28,421	496	68,733	39
19	9,202	24	4,445			13,190	989	45	12,156		16,125	15,860	265	54,195	40
9	4,892					1,475	898	24	433	120	2,699	2,413	286	12,185	41
14	5,003					164	12	24	123		802	99	203	7,325	42
2,033	1,036,113	491	142,255	13	1,770	337,776	3,341	22,920	360,475	1,040	1,740,972	1,699,310	41,662	4,154,161	43

mattresses and spring beds, 1; mineral and soda waters, 2; mirrors, 1; models and patterns, 2; monuments and tombstones, 2; paints, 1; patent medicines and compounds, 1; photolithographing and photoengraving, 1; rubber and elastic goods, 1; safes and vaults, 1; saws, 1; sewing machine repairing, 1; shirts, 2; soap and candles, 1; stationary goods, not elsewhere specified, 1; steam fittings and heating apparatus, 2; surgical appliances, 1; tin andterne plate, 1; tools, not elsewhere specified, 1; toys and games, 2; umbrellas and canes, 1; washing machines and clothes wringers, 1; watch cases, 1; watches, 1; wirework, including wire rope and cable, 2; woolen goods, 1.

TABLE 8.—MANUFACTURES IN CITIES

CINCINNATI.

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.
1 All industries	5,127	\$100,582,142	\$10,024,809	\$18,894,633	\$23,414,761	\$62,248,379	5,805	6,657	\$6,776,141	63,240	\$27,189,069
2 Artificial feathers and flowers	3	1,400			100	1,300	3	1	100	4	2,000
3 Awnings, tents, and sails	7	41,875	15,000	5,000	2,050	19,825	11	1	1,000	40	17,431
4 Bags, other than paper	3	42,850			8,900	33,950	8	5	3,764	28	7,640
5 Bags, paper	7	188,755			65,106	123,649	4	35	26,473	126	38,073
6 Baking and yeast powders	5	48,100			2,800	45,300	6	27	19,669	44	18,054
7 Baskets, and rattan and willow ware	8	8,660	8,000	2,800	390	2,470	8			16	4,362
8 Bicycle and tricycle repairing	22	22,250			10,726	11,524	20	2	462	22	11,675
9 Billiard tables and materials	3	16,450			150	16,300	4	8	4,850	15	7,600
10 Blacksmithing and wheelwrighting	166	220,108	58,050	50,235	44,775	67,048	203	3	1,740	324	179,231
11 Bookbinding and blank book making	18	70,148			32,400	37,748	17	11	6,348	179	78,986
12 Boot and shoe cut stock	3	13,051			1,051	12,000	3			9	4,500
13 Boot and shoe uppers	5	1,850			775	1,075	4			4	1,650
14 Boots and shoes, custom work and repairing	292	88,769	10,400	12,590	19,860	45,919	300	8	5,970	164	66,787
15 Boots and shoes, factory product	39	3,688,918	102,100	180,701	659,982	2,746,185	59	892	498,560	6,919	2,187,856
16 Bottling	3	4,850			700	4,150	5	1	480	5	2,400
17 Boxes, cigar	8	188,246	25,000	43,200	23,536	96,510	11	13	8,996	240	70,219
18 Boxes, fancy and paper	12	202,308			58,908	143,400	14	24	32,268	543	134,198
19 Boxes, wooden packing	8	204,380	58,700	27,638	45,902	72,145	12	9	6,646	196	83,900
20 Brass castings and brass finishing	10	354,843	6,000	40,000	161,060	147,783	16	19	12,970	455	185,699
21 Brassware	4	103,215			21,850	81,365	4	8	10,000	61	20,450
22 Bread and other bakery products	258	1,505,481	87,825	125,295	882,090	410,271	275	172	113,372	1,101	460,737
23 Brick and tile	12	26,150	2,000	3,950	8,200	12,000	19			54	30,858
24 Brooms and brushes	17	227,970	6,500	19,150	73,990	127,980	22	28	37,538	128	49,516
25 Carpentering	304	595,777	81,580	50,150	72,625	391,422	347	51	43,844	1,160	730,057
26 Carpets, rug	12	4,985	50	100	2,450	2,385	13	4	2,239	17	4,603
27 Carriage and wagon materials	13	792,222	54,750	81,800	121,790	533,882	14	33	28,890	629	305,024
28 Carriages and wagons	63	3,488,763	301,650	310,974	158,640	2,717,499	71	290	234,227	2,147	1,116,426
29 Cars and general shop construction and repairs by steam railroad companies	4	155,884	45,500	33,600	42,654	34,130		18	16,187	460	253,457
30 Chemicals	8	534,180	48,000	52,950	174,300	258,930	4	20	31,982	94	51,789
31 Cleansing and polishing preparations	4	20,450	150	250	1,710	18,340	2	5	12,000	13	2,750
32 Cloth, sponging and refinishing	3	8,757			2,290	1,467	5			31	15,699
33 Clothing, men's, custom work and repairing	270	790,916	37,205	27,280	29,625	696,326	322	61	45,900	880	424,650
34 Clothing, men's, factory product	351	8,262,371	101,225	150,610	36,743	7,914,293	441	591	616,432	3,784	1,326,045
35 Clothing, men's, factory product, buttonholes	5	17,575			14,750	2,825	6	1	416	144	40,118
36 Clothing, women's, dressmaking	229	145,015	17,370	21,000	20,330	85,715	253	9	5,717	634	166,369
37 Clothing, women's, factory product	38	850,185	19,630	52,350	56,691	721,464	53	106	108,283	1,363	398,618
38 Coffee and spice, roasting and grinding	10	473,895	15,000	55,250	44,844	358,801	10	68	71,412	109	92,197
39 Coffins, burial cases, and undertakers' goods	4	1,248,901	101,225	237,875	230,349	659,952	2	52	64,201	492	225,010
40 Confectionery	53	733,261	71,250	83,056	107,547	471,408	61	92	80,722	518	178,869
41 Cooperage	35	302,397	67,400	30,395	189,899	464,703	39	23	41,512	703	281,504
42 Cutlery and edge tools	6	20,960	2,700	4,560	7,450	6,250	6	5	3,902	24	12,345
43 Druggists' preparations, not including prescriptions	6	624,600	30,000	50,000	42,100	502,500	11	99	140,038	135	33,187
44 Dyeing and cleaning	21	82,215	39,170	21,300	9,290	12,455	27	11	5,856	114	45,167
45 Electrical apparatus and supplies	9	320,631			36,204	284,427	8	51	47,514	238	98,675
46 Electrical construction and repairs	21	43,790			6,810	36,980	26	7	4,580	88	43,713
47 Electroplating	6	73,778	20,000	23,000	21,400	9,378	7	4	2,176	54	28,735
48 Enameling and enameled goods	3	18,397		1,500	4,700	12,197	4			42	13,984
49 Engraving and diesinking	11	33,535	6,000	10,500	10,575	6,460	14			19	9,936
50 Engraving, steel, including plateprinting	5	17,886			4,800	13,086	5	5	5,681	28	9,806
51 Engraving, wood	8	27,310			6,550	20,760	11	5	3,444	50	27,758
52 Fancy articles, not elsewhere specified	4	24,775			9,500	15,275	6	3	1,900	26	10,148
53 Flavoring extracts	3	23,600		1,000	5,600	17,000	2	8	10,684	12	5,416
54 Flouring and grist mill products	10	287,864	35,504	48,871	114,951	95,538	10	16	20,529	61	30,085
55 Food preparations	4	46,101	250	100	20,888	24,863	2	6	4,800	61	15,497
56 Foundry and machine shop products	154	10,863,917	722,378	1,073,357	3,188,314	5,379,863	130	683	642,303	6,680	3,211,423
57 Foundry supplies	3	111,500	12,000	10,000	24,200	65,300		20	26,416	59	29,004
58 Fur goods	3	11,750			650	11,100	2	2	1,064	20	7,876
59 Furnishing goods, men's	6	66,550			5,050	61,600	11	18	7,593	178	43,964
60 Furniture, cabinetmaking, repairing, and upholstering	54	76,411	6,800	5,400	15,531	49,133	62	3	1,280	114	54,465
61 Furniture, factory product	54	3,817,295	531,284	756,763	382,048	2,147,200	72	240	216,149	2,955	966,162
62 Gas machines and meters	4	267,864	21,133	10,511	45,845	189,875	3	17	22,008	97	83,872
63 Glass, cutting, staining, and ornamenting	13	89,595			23,745	65,850	16	8	6,604	130	65,288
64 Grease and tallow	8	263,150	31,200	48,000	79,400	109,550	9	5	6,440	69	37,091
65 Hairwork	11	23,046	4,200	4,500	420	13,926	13	11	4,257	35	9,077
66 Hand knit goods	3	3,075			875	2,200	3			6	1,566

BY SPECIFIED INDUSTRIES: 1900—Continued.

CINCINNATI.

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.										
46,882	\$23,275,688	15,314	\$3,761,098	1,044	\$152,283	\$22,878,620	\$1,649,757	\$562,399	\$17,792,211	\$2,869,258	\$77,539,292	\$76,516,468	\$1,022,824	\$157,806,834	1
4	2,000					959	760	9	190		1,082	1,050	32	6,600	2
24	12,856	16	4,575			6,221	2,660	396	2,465	800	36,192	35,921	271	71,907	3
13	4,040	15	2,900			2,815	1,675	90	1,050		64,330	64,005	325	88,800	4
67	24,924	59	13,149			10,763	4,034	490	6,239		324,166	320,006	4,150	463,472	5
22	11,908	22	6,146			20,979	3,360	629	16,930		108,414	106,910	1,504	198,000	6
13	4,062			3	300	1,843	1,103	113	627		3,835	3,835		18,250	7
21	11,472			1	203	4,323	3,630	138	520	35	11,205	10,677	568	42,520	8
15	7,800					3,146	1,611	5	1,530		23,435	23,430	5	48,240	9
323	179,106			1	125	30,667	22,744	2,608	5,150	175	118,936	111,032	7,904	518,716	10
101	53,217	72	19,699	6	1,020	17,027	7,653	505	1,913	7,056	40,142	38,201	1,941	183,822	11
6	3,700	3	800			790	570	80	140		72,436	72,304	132	97,080	12
3	1,400			1	150	1,041	348	3	190	500	7,750	7,750		15,500	13
158	65,397	3	872	3	468	28,152	23,074	894	3,684	500	80,662	79,870	792	325,748	14
3,922	1,498,941	2,651	641,417	343	46,998	371,004	56,122	12,237	302,550	45	5,297,822	5,276,172	21,650	8,788,424	15
5	2,460					1,623	876	37	710		11,396	11,396		20,100	16
116	41,992	123	28,093	1	131	16,618	1,585	974	14,059		216,280	214,483	1,797	353,900	17
116	43,156	423	90,642	4	400	33,805	12,340	709	20,756		153,428	149,708	3,720	425,734	18
196	83,900					14,595	3,610	1,900	9,185		317,530	314,036	3,494	475,620	19
436	181,249	19	4,350			23,680	8,318	1,641	13,671		275,307	269,513	5,794	571,782	20
61	20,450					12,680	2,421	111	10,145		37,180	36,530	650	105,400	21
808	401,323	226	47,502	67	11,912	238,375	76,076	7,835	154,464		1,671,279	1,632,746	38,533	3,048,295	22
54	30,858					7,358	3,870	209	3,270		12,016	12,441	9,575	65,650	23
121	48,184	3	760	4	572	85,095	3,806	1,940	19,349	60,000	244,764	242,056	2,708	491,308	24
1,157	729,537			3	520	790,787	24,328	3,682	42,057	720,670	1,294,503	1,290,212	4,291	3,418,563	25
8	2,857	7	1,466	2	280	2,525	1,394	19	1,112		4,295	3,965	330	23,055	26
610	301,844	9	1,920	10	1,260	54,955	9,229	2,817	42,509	400	615,279	610,995	4,284	1,136,940	27
2,055	1,083,989	90	27,137	2	300	237,417	56,375	15,676	163,566	1,800	3,652,808	3,628,003	24,805	6,096,108	28
466	262,211	4	1,246			36,886	500	994	31,747	645	147,715	142,873	4,842	464,245	29
94	51,789					59,876	4,867	3,740	51,260		692,351	672,957	19,394	967,446	30
6	1,550	7	1,200			9,090	800	25	8,265		18,777	18,679	98	57,000	31
31	15,699					1,927	1,362	25	510		339	129	210	22,000	32
570	348,950	292	73,069	18	2,631	319,890	85,529	3,141	31,870	199,350	838,525	834,302	4,223	2,169,113	33
1,303	704,072	2,347	548,276	134	13,697	1,548,198	112,567	17,376	326,867	1,131,388	6,610,040	6,619,629	20,451	11,950,648	34
19	8,388	125	31,780			4,350	3,264	31	1,061		12,796	11,930	866	74,518	35
46	19,974	533	145,815	5	580	38,036	29,579	860	7,222	375	177,558	176,429	1,129	583,315	36
308	132,829	1,048	264,786	7	1,053	123,541	25,885	2,270	40,864	54,522	1,173,226	1,167,212	5,984	2,074,805	37
67	31,677	42	10,520			30,809	6,180	3,113	21,606		1,159,871	1,152,155	7,716	1,416,395	38
416	205,815	76	19,195			95,179	3,329	6,364	84,936		461,727	457,732	3,995	932,007	39
289	127,787	221	50,017	8	1,065	68,604	18,217	3,507	46,780	100	1,002,635	994,290	8,345	1,525,359	40
703	281,504					36,947	4,120	4,539	28,288		627,518	624,626	2,892	1,110,860	41
24	12,345					2,140	1,300	156	693		6,106	4,911	1,165	36,551	42
79	20,284	51	12,539	2	364	48,675	2,800	1,930	43,975		242,943	240,297	2,646	792,100	43
71	32,171	43	12,996			11,832	6,636	968	3,218	1,010	24,011	22,179	1,862	118,279	44
231	98,075	2	600			32,160	9,333	2,161	20,466	200	530,299	526,132	4,167	813,180	45
85	43,184			3	534	11,298	6,161	118	4,939	80	122,640	121,826	814	356,959	46
52	27,935	2	800			5,422	1,150	994	3,278		16,096	14,456	1,640	66,835	47
26	10,244	16	3,740			2,582	650	101	1,831		23,715	21,181	2,534	48,744	48
18	9,832			1	104	2,608	1,714	265	529	100	6,078	5,515	563	33,418	49
18	7,384	10	2,422			2,470	1,811	114	545		5,975	5,790	185	34,760	50
43	27,550			2	208	4,870	2,103	92	2,600	75	9,265	9,035	180	78,800	51
20	8,865	6	1,283			2,613	1,980	40	593		20,866	20,370	496	56,067	52
9	4,636	3	780			9,174	1,012	312	7,350	500	42,330	42,335	555	69,100	53
53	27,900	8	2,185			19,461	3,946	1,735	13,780		676,760	670,160	6,600	789,114	54
16	6,253	41	8,844	4	400	6,973	2,748	98	4,127		42,492	40,752	1,740	90,783	55
6,603	3,193,527	60	15,047	17	2,849	964,178	124,782	53,434	699,242	86,670	4,963,461	4,836,610	126,851	11,705,778	56
59	29,004					10,403	3,120	1,123	6,190		108,450	104,100	4,350	210,000	57
5	3,760	14	4,020	1	96	1,575	1,380	109	1,265		18,350	18,350	85	36,785	58
43	16,520	135	27,444			5,163	3,150	227	1,786		97,209	96,598	811	248,680	59
107	58,231	2	450	5	784	16,539	11,243	286	3,660	1,350	75,745	74,977	768	218,764	60
2,318	956,927	36	9,049	1	186	194,789	44,685	22,485	127,591	25	1,563,651	1,545,055	18,596	3,594,196	61
97	33,872					9,555	4,100	990	4,465		159,394	158,290	1,104	320,425	62
121	63,303	9	1,980			8,572	6,194	248	2,130		50,896	49,231	1,665	167,523	63
69	37,091					10,517	384	3,220	6,913		636,525	677,293	9,232	758,837	64
1	260	34	8,317			5,418	3,376	400	1,642		16,847	16,749	98	48,061	65
1	600	5	966			671	588		73	10	2,645	2,624	21	7,740	66

TABLE 8.—MANUFACTURES IN CITIES

CINCINNATI—Continued.

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.
87 Hand stamps	3	\$5,750			\$2,200	\$8,550	3		17	\$8,012	
88 Hardware	10	610,805	\$25,500	\$10,845	235,524	307,936	9	32	428	172,886	
89 Hats and caps, not including fur hats and wool hats.	12	126,870			16,435	119,435	20	21	285	86,182	
70 Hosiery and knit goods	6	409,557	27,000	51,450	142,260	188,847	7	1	231	67,408	
71 House furnishing goods, not elsewhere specified.	6	78,460		18,000	14,500	45,960	7	6	35	10,250	
72 Ice, manufactured	5	147,524	23,120	30,264	87,094	7,046	1	8	37	19,003	
73 Instruments, professional and scientific.	4	10,000			4,800	5,200	3	8	10	6,090	
74 Ironwork, architectural and ornamental.	10	267,473	69,500	19,700	66,111	112,162	10	51	287	187,990	
75 Japanning	4	1,825			800	1,025	6		5	1,224	
76 Jewelry	16	628,938			45,560	583,378	24	35	199	108,262	
77 Kindling wood	3	2,825	500	550	825	950	2		7	2,175	
78 Lamps and reflectors	3	24,900			5,900	19,000	2	2	38	12,885	
79 Leather goods	4	13,110			2,509	10,610	4	13	33	7,707	
80 Leather, tanned, curried, and finished.	15	4,865,480	127,930	543,350	203,150	3,991,050	18	25	943	412,414	
81 Liquors, distilled	3	1,522,800	103,000	168,000	110,000	1,141,800	2	34	163	97,745	
92 Liquors, malt	21	11,370,912	1,821,052	3,262,482	2,139,654	4,147,724	6	193	1,282	910,986	
93 Liquors, vinous	5	26,175	2,200	3,050	3,425	17,500	6	3	8	3,930	
84 Lithographing and engraving	11	2,048,728	51,863	178,500	798,903	1,024,462	5	113	954	556,237	
85 Lock and gun smithing	36	25,450	4,500	2,250	7,555	11,145	38		27	10,618	
86 Looking-glass and picture frames	14	519,245	79,000	132,000	61,370	246,375	15	49	396	170,639	
87 Lumber and timber products	6	3,173,790	1,721,784	76,494	188,200	1,187,312	9	46	604	223,791	
88 Lumber, planing mill products, including sash, doors, and blinds.	17	548,239	50,250	117,600	148,050	232,339	20	31	503	274,798	
89 Malt	7	508,290	24,450	93,140	18,500	372,200	10	12	68	47,289	
90 Marble and stone work	19	344,845	71,900	32,300	90,195	150,450	25	18	304	150,110	
91 Masonry, brick and stone	117	446,207	23,390	14,725	116,544	286,608	155	26	1,120	566,124	
92 Mattresses and spring beds	9	108,193	2,500	2,500	23,361	79,832	13	12	111	38,009	
93 Millinery and lace goods	11	120,964	4,000	46,000	14,267	56,697	12	8	243	65,933	
94 Millinery, custom work	99	162,874	4,200	24,800	11,815	122,059	122	59	258	177,076	
95 Mineral and soda waters	14	228,640	17,900	25,200	96,000	89,540	15	25	98	47,380	
96 Models and patterns	20	70,600			44,550	26,050	25	3	108	64,906	
97 Monuments and tombstones	19	103,270	17,390	25,320	12,210	48,350	24	8	59	33,850	
98 Musical instruments and materials, not specified.	7	107,750	50,000	50,000	1,660	6,120	6		9	4,350	
99 Musical instruments, pianos and materials.	4	790,601	64,750	155,587	65,142	505,122	2	23	513	226,011	
100 Optical goods	8	14,200			2,200	12,000	9		15	6,788	
101 Painting, house, sign, etc	261	219,282	19,130	12,570	41,387	146,195	310	21	838	478,961	
102 Paints	13	1,972,263	307,794	195,206	168,317	1,300,946	15	84	230	117,312	
103 Paper goods, not elsewhere specified	4	82,700		3,000	36,300	43,400	4	9	46	18,600	
104 Paper hanging	78	142,948			7,568	185,380	86	33	241	132,539	
105 Patent medicines and compounds	41	281,223	7,800	19,650	86,386	217,387	37	58	189	57,406	
106 Paving and paving materials	38	248,757	14,850	25,999	52,699	155,209	38	41	421	199,046	
107 Perfumery and cosmetics	3	33,502			4,076	29,426	4	3	29	8,195	
108 Photography	32	97,450	10,500	14,100	80,275	42,575	39	14	108	52,577	
109 Photolithographing and photoengraving	6	35,230	6,800	5,000	15,775	7,675	6	4	43	21,126	
110 Pickles, preserves, and sauces	8	347,650	5,000	83,000	33,950	225,700	8	33	264	106,632	
111 Plastering and stuccowork	52	108,924	13,700	11,350	48,532	35,342	64	4	149	97,231	
112 Plumbers' supplies	7	357,630		9,000	49,350	299,280	5	49	317	119,135	
113 Plumbing, and gas and steam fitting	140	361,864	17,950	27,000	36,215	283,699	174	48	543	296,628	
114 Pottery, terra cotta, and fire-clay products.	7	413,379	86,410	167,407	48,324	110,738	7	27	287	124,070	
115 Printing and publishing, book and job.	115	1,680,534	55,940	56,857	1,017,050	500,707	134	127	1,617	784,122	
116 Printing and publishing, music.	3	190,383			13,000	177,383	2	29	41	18,220	
117 Printing and publishing, newspapers and periodicals.	81	3,254,701	218,150	316,300	1,454,428	1,265,323	74	443	1,044	683,148	
118 Regalia and society banners and emblems.	7	258,950			28,900	230,050	8	64	342	88,058	
119 Roofing and roofing materials	31	340,251	9,050	24,176	73,041	233,981	35	31	149	74,534	
120 Saddlery and harness	58	781,598	59,600	105,650	70,980	545,368	69	88	478	214,707	
121 Safes and vaults	5	511,594	16,000	49,000	176,200	373,394	2	60	428	206,183	
122 Saws	4	71,850			10,750	61,100	4	5	29	15,057	
123 Sewing machine repairing	6	7,215			1,655	5,560	5	6	9	4,991	
124 Ship and boat building, wooden	4	59,800	10,100	7,000	11,900	30,800	1	4	103	32,899	
125 Shirts	29	213,877	500	1,500	20,725	191,152	42	45	458	111,942	
126 Slaughtering and meat packing, wholesale.	21	2,790,314	137,700	439,675	326,088	1,887,851	27	98	801	382,691	
127 Slaughtering, wholesale, not including meat packing.	6	102,250	15,000	23,000	20,750	43,500	9		55	91,930	
128 Soap and candles	20	1,180,827	80,630	168,742	270,415	661,040	21	38	452	157,458	
129 Sporting goods	5	94,302	3,000	10,000	27,070	54,232	5	8	91	14,845	
130 Stamped ware	4	236,000	65,000	25,000	30,000	116,000	2	20	85	32,193	
131 Steam fittings and heating apparatus	7	669,368	43,096	62,000	95,473	468,799	7	43	293	171,709	

BY SPECIFIED INDUSTRIES: 1900—Continued.

CINCINNATI—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.										
11	\$6,560	4	\$1,196	2	\$296	\$1,973	\$1,612	\$11	\$350		\$3,635	\$3,395	\$240	\$18,385	67
403	167,894	10	2,812	15	2,130	47,640	10,458	2,894	84,488		269,785	256,433	13,352	631,862	68
135	51,552	136	32,090	14	2,540	29,073	7,048	415	21,610		241,195	230,590	1,305	447,025	69
36	19,628	170	48,678	25	4,102	16,773	1,452	969	13,702	\$650	124,226	122,084	2,192	267,244	70
23	8,142	12	2,108			2,923	708	645	1,570		66,985	66,265	720	102,500	71
37	19,008					11,134	100	3,129	7,905		26,133	7,410	18,723	31,233	72
10	6,090					8,221	1,140	114	1,067		4,757	4,430	327	24,510	73
284	137,090	3	900			32,753	7,477	2,699	22,577		375,721	370,526	5,195	679,070	74
3	940			2	284	827	720	13	94		1,549	1,420	129	6,850	75
163	98,195	32	9,649	4	418	48,054	9,696	950	22,408	15,000	494,577	492,052	2,525	820,733	76
4	1,621			3	554	620	820	25	275		1,013	883	180	5,470	77
34	12,117	4	768			7,293	920	48	3,325	3,000	15,680	15,140	546	47,120	78
28	6,975	3	550	2	182	4,785	1,320	115	3,850		46,056	45,852	204	78,500	79
943	412,414					70,980	1,940	9,640	59,400		2,490,134	2,472,275	17,859	3,446,520	80
155	94,417	8	3,328			7,344,318		6,519	7,337,799		1,034,113	979,302	54,811	9,419,687	81
1,269	908,517	2	252	11	2,217	8,023,781	8,190	74,530	2,941,061		1,402,644	1,281,899	120,745	6,387,373	82
8	3,930					5,040	1,140	350	3,550		14,925	14,325	30	34,075	83
861	535,564	92	20,573	1	130	130,325	21,233	5,834	99,112	4,145	617,299	609,432	7,867	1,665,116	84
25	10,316	1	200	1	102	5,090	4,385	111	594		8,588	7,775	813	49,308	85
375	167,448	4	1,375	17	1,806	44,164	3,884	3,992	36,288		244,740	240,055	4,685	572,026	86
604	223,791					82,328	6,360	8,793	67,175		1,075,988	1,075,988		2,044,650	87
503	274,798					34,022	9,238	4,266	15,518	5,000	430,978	425,398	5,580	837,253	88
68	47,230					81,937	8,075	5,238	18,624		476,039	455,320	20,719	604,381	89
299	143,610	5	1,500			27,760	10,323	2,754	14,186		234,973	230,153	4,820	439,930	90
1,120	566,124					298,314	7,158	784	13,726	271,646	613,167	601,114	12,053	1,804,438	91
68	26,893	43	11,116			17,523	6,956	483	10,087		140,696	139,191	1,505	238,476	92
34	16,615	209	49,318			12,059	5,355	278	4,344	1,612	110,726	109,876	850	229,100	93
6	2,656	250	74,200	2	220	58,612	39,479	1,070	11,163	6,900	274,217	273,725	492	567,435	94
98	47,880					25,038	4,690	1,133	19,275		88,715	86,930	1,785	234,533	95
103	64,906					7,338	4,370	120	1,398	1,500	27,443	25,211	2,232	149,412	96
59	33,850					6,766	3,127	1,197	2,242	200	78,898	78,528	370	167,833	97
9	4,350					1,726	1,098	28	600		8,345	8,295	50	20,999	98
493	216,011	20	10,000			76,747	5,467	3,199	68,081		489,288	484,116	5,172	931,274	99
14	6,658			1	130	3,328	2,255	45	1,028		15,369	15,124	235	39,760	100
333	477,563	2	800	3	598	40,857	22,181	1,073	13,752	3,846	299,557	299,045	512	1,149,132	101
224	116,127	6	1,185			140,371	12,950	16,866	110,555		1,291,560	1,276,024	15,536	1,844,207	102
27	13,900	19	4,700			6,766	2,012	275	4,499		101,700	100,300	1,400	175,500	103
239	132,039	1	300	1	200	31,004	23,620	707	6,677		183,480	183,142	338	451,375	104
83	34,610	105	22,721	1	75	133,120	8,686	1,438	163,896	4,100	149,551	147,371	2,180	584,666	105
421	199,046					29,342	6,143	1,455	15,878	6,166	289,759	289,154	605	655,142	106
4	1,767	25	6,428			28,024	900	91	22,033		40,538	40,523	8	90,474	107
74	40,888	31	11,273	3	416	21,619	17,960	585	3,074		52,400	51,855	545	188,750	108
40	20,576	3	550			2,605	1,190	150	965	300	8,264	8,136	128	46,300	109
106	65,890	158	40,302			123,451	6,285	2,039	115,077		599,880	596,875	3,005	1,077,450	110
148	97,132			1	149	8,517	3,612	480	3,988	437	77,166	76,742	424	275,261	111
317	119,135					18,078	6,862	1,564	8,552	1,100	389,235	383,685	5,550	676,345	112
536	295,430			7	1,143	42,662	26,168	1,595	13,314	1,585	477,095	471,692	5,403	1,147,101	113
211	104,933	76	19,137			19,056	5,280	2,344	11,432		62,294	44,920	17,374	231,002	114
1,249	685,980	335	93,516	33	4,026	177,234	60,272	7,258	77,614	32,090	366,613	339,757	26,861	2,513,458	115
25	15,258	6	1,560	10	1,402	133,830	2,220	3,172	70,793	51,645	22,080	21,750	330	250,158	116
941	651,043	88	29,773	15	2,332	587,585	46,792	17,481	389,635	133,677	835,975	820,033	15,942	3,540,013	117
54	23,612	286	64,233	2	208	74,765	8,330	940	65,495		283,552	281,480	2,072	620,170	118
148	74,430			1	104	34,441	9,492	1,842	22,457	650	428,925	426,516	2,409	634,135	119
456	208,966	12	4,312	10	1,429	62,239	11,561	4,713	45,965		682,444	673,763	8,681	1,194,474	120
423	206,133					70,300	7,100	1,950	61,250		340,199	334,322	5,877	773,051	121
29	15,057					2,959	1,614	65	1,280		23,257	21,937	1,270	58,354	122
8	4,841	1	150			2,163	968	13	1,252		10,055	10,005	50	29,250	123
103	32,899					15,047	900	445	2,142	11,500	24,254	23,873	381	33,114	124
50	26,728	407	85,110	1	104	41,686	9,696	490	14,133	17,367	238,071	235,330	2,741	561,951	125
772	375,863	10	2,600	19	4,228	419,379	23,322	18,505	382,552		3,033,282	3,012,233	41,049	9,532,037	126
55	31,930					18,510	780	315	16,915		723,370	719,620	3,750	338,120	127
287	121,998	159	34,528	6	934	71,558	9,125	6,753	47,680	3,000	1,279,312	1,265,984	13,328	1,377,062	128
31	9,845	60	5,000			10,576	1,265	609	3,701		193,823	195,915	908	245,736	129
85	32,133					6,997	3,940	1,357	1,700		138,860	136,220	2,640	244,200	130
288	169,709			5	2,000	43,412	6,030	3,032	25,027	9,323	205,915	201,667	4,248	658,373	131

TABLE 8.—MANUFACTURES IN CITIES

CINCINNATI—Continued.

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.
132 Stencils and brands	4	\$113,600	\$93,000	\$50,000	\$22,100	\$3,500	6	4	\$2,516	31	\$19,008
133 Stereotyping and electrotyping	4	50,800			22,400	27,900	3	20	16,218	45	34,001
134 Surgical appliances	6	16,895	1,000	1,000	2,675	12,220	8			24	9,474
135 Tinsmithing, coppersmithing, and sheet-iron working.	127	659,911	34,360	52,615	147,895	425,541	138	54	40,618	748	328,458
136 Tobacco, chewing, smoking, and snuff.	11	615,188	5,000	20,870	48,387	540,981	12	37	44,940	292	121,716
137 Tobacco, cigars and cigarettes	295	2,051,572	27,775	54,050	141,378	1,828,369	335	168	167,792	3,603	1,253,184
138 Tools, not elsewhere specified	10	66,997			24,501	42,496	11	11	11,324	57	30,334
139 Toys and games	6	10,700			2,950	7,750	6	1	400	31	10,725
140 Trunks and valises	9	169,181			10,214	158,967	15	13	12,600	158	65,714
141 Umbrellas and canes	7	44,700			2,200	42,500	7	13	7,048	45	15,332
142 Varnish	8	352,500	41,900	23,100	30,500	257,000	9	25	30,950	37	26,260
143 Washing machines and clothes wringers.	6	19,825			3,825	16,000	7	4	1,820	42	21,248
144 Watch, clock, and jewelry repairing.	107	60,969	100	100	26,470	34,293	126			113	60,466
145 Wirework, including wire rope and cable.	7	21,540	2,500	1,300	6,755	10,485	10	6	2,640	27	10,966
146 Wood, turned and carved	19	421,115	73,450	52,500	103,545	191,620	19	12	18,623	167	70,418
147 All other industries ¹	108	15,328,859	1,410,286	2,838,823	6,219,693	4,860,057	85	434	511,617	3,697	1,507,855

¹ Embraces artificial limbs, 2; axle grease, 1; babbitt metal and solder, 1; bells, 1; belting and hose, leather, 2; bicycles and tricycles, 1; blacking, 1; bone, ivory and lamp black, 1; buttons, 2; calcium lights, 1; carriages and sleds, children's, 1; cheese and butter, urban dairy products, 2; coke, 1; cordage and twine, 1; cordials and sirups, 2; cork, cutting, 1; corsets, 1; cotton goods, 2; cotton waste, 1; dentists' materials, 1; engravers' materials, 1; files, 2; fire extinguishers, chemical, 1; fireworks, 1; flags and banners, 2; fruits and vegetables, canning and preserving, 1; fur hats, 1; galvanizing, 1; gas and lamp fixtures, 2; gas and oil stoves, 1; gas, illuminating and heating, 1; gloves and mittens, 1; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 2; hardware, saddlery, 2; ink, printing, 2; ink, writing, 2; iron and steel, 1; lard, refined, 1; lasts, 1; lead, bar, pipe, and sheet, 1; lime and cement, 1; mirrors, 2; mullage and

CLEVELAND.

1 All industries	2,927	\$98,803,682	\$7,640,793	\$12,094,490	\$28,116,093	\$50,443,306	3,078	5,410	\$5,732,145	58,810	\$27,892,689
2 Awnings, tents, and sails	6	245,065	54,000	32,872	13,328	144,865	4	35	32,400	100	43,190
3 Baking and yeast powders	4	65,631			6,100	59,531	4	11	9,340	34	13,904
4 Bicycle and tricycle repairing	68	30,382	800	870	12,225	16,987	74	1	1,040	62	32,120
5 Bicycles and tricycles	12	817,204	21,400	80,852	489,554	275,398	11	52	48,595	618	210,208
6 Blacksmithing and wheelwrighting	162	118,564	34,215	31,010	19,000	34,339	174			213	132,116
7 Bookbinding and blank book making	11	72,350			29,500	42,850	16	4	3,776	82	27,988
8 Boots and shoes, custom work and repairing.	286	66,129	19,275	18,162	12,501	16,191	242	3	950	91	42,409
9 Boots and shoes, factory product	5	229,597		1,200	39,815	188,582	9	21	28,690	438	112,076
10 Bottling	10	135,476	10,000	5,000	5,775	114,700	15	14	8,988	24	13,490
11 Boxes, cigar	4	80,300	6,500	4,300	2,321	17,179	6	4	2,300	42	11,096
12 Boxes, fancy and paper	5	127,824			78,995	58,829	4	11	12,050	314	87,673
13 Boxes, wooden packing	9	408,902	10,755	39,692	62,698	290,769	7	18	14,765	343	144,198
14 Brass castings and brass finishing	9	117,097	24,000	15,500	44,837	32,770	14	12	12,641	156	69,792
15 Brassware	3	478,518	10,000	44,000	80,000	344,518	2	26	34,360	273	104,871
16 Bread and other bakery products	104	724,256	122,600	149,615	283,015	169,636	103	118	84,825	552	285,459
17 Brick and tile	10	339,400	158,000	84,800	68,400	33,700	13	6	5,030	216	119,654
18 Bridges	3	1,131,158	64,746	113,566	399,657	553,189		27	48,519	524	287,526
19 Brooms and brushes	12	77,417	5,650	2,700	19,378	49,688	11	10	9,540	132	4,765
20 Carpentering	76	243,090	23,110	25,475	30,455	164,050	93	10	6,320	628	365,323
21 Carpets, rug	13	10,420	1,075	1,276	3,400	4,670	14	2	1,170	26	11,256
22 Carriages and wagons	43	481,147	66,050	67,920	46,200	300,977	60	32	23,095	465	253,971
23 Cars and general shop construction and repairs by steam railroad companies.	7	564,011	87,221	67,825	187,125	221,840		74	54,571	1,155	609,100
24 Chemicals	6	2,156,143	257,980	211,923	547,340	1,188,950	1	114	138,984	356	203,539
25 Cleansing and polishing preparations	3	2,365			360	2,005	4	1	156	3	1,580
26 Clothing, men's, custom work and repairing.	277	558,459	54,935	46,515	33,385	423,624	304	42	30,690	678	301,168
27 Clothing, men's, factory product	118	1,815,369	13,785	23,720	52,137	1,725,727	156	111	119,265	1,467	480,763
28 Clothing, men's, factory product, buttonholes.	3	3,050	100	600	1,350	1,000	4			30	11,450
29 Clothing, women's, dressmaking	42	29,814	4,600	3,800	4,599	16,815	47	4	1,660	132	52,705
30 Clothing, women's, factory product	77	1,593,155	9,625	13,520	73,504	1,501,506	91	218	221,409	2,862	842,425
31 Confectionery	24	432,405	20,700	26,350	98,835	291,620	24	43	37,921	506	144,913
32 Cooperage	6	243,725	11,025	26,750	19,775	191,175	6	8	17,400	179	73,832
33 Corsets	3	1,400			400	1,000	3	1	260	14	3,502
34 Dyeing and cleaning	28	51,975	14,650	12,200	18,205	11,920	37	9	3,925	89	37,799
35 Electrical apparatus and supplies	26	3,384,076	147,930	891,487	1,288,508	1,556,151	8	180	188,707	1,961	320,354
36 Electrical construction and repairs	9	29,483	100	500	8,483	20,450	10	5	2,832	75	31,529
37 Electroplating	5	22,500			14,500	8,300	4	3	1,872	64	19,650
38 Engraving and diesinking	3	1,400			450	950	4			2	1,750
39 Engraving, steel, including plate printing.	5	20,500			9,000	11,500	4	6	2,440	52	21,745
40 Flavoring extracts	5	128,192	10,000	21,000	9,000	86,192	2	18	18,160	49	13,822
41 Flouring and grist mill products	4	396,500	16,000	48,250	183,750	198,500	3	15	15,920	60	35,730
42 Food preparations	11	79,512	7,212	21,500	12,707	33,093	12	15	10,724	88	26,955
43 Foundry and machine shop products	127	11,688,326	804,246	1,624,837	2,662,557	6,596,666	100	719	793,528	8,658	4,487,398
44 Fur goods	10	64,000			2,145	64,000	12	2	1,158	56	27,409
45 Furnishing goods, men's	3	20,150			3,350	16,800	6	105	10,956	22	6,500
46 Furniture, cabinetmaking, repairing, and upholstering.	40	130,961	2,900	11,295	11,348	105,418	42	23	23,938	173	94,711

BY SPECIFIED INDUSTRIES: 1900—Continued.

CINCINNATI—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.										
26	\$18,418			5	\$590	\$3,494	\$960	\$376	\$1,658		\$4,705	\$4,420	\$285	\$48,168	132
45	34,001					7,037	2,460	363	4,214		15,340	12,856	2,484	96,369	133
9	5,880	14	\$3,386	1	208	2,201	1,356	60	785		5,615	5,365	250	27,020	134
678	315,011	28	6,211	42	7,231	74,876	28,545	4,388	41,748	\$195	792,768	785,777	6,991	1,621,664	135
151	73,490	141	49,226			1,047,285	8,078	2,183	1,087,024		688,052	688,584	4,468	1,087,464	136
1,301	612,284	2,217	631,184	85	14,716	1,146,784	65,290	5,989	1,075,505		1,576,715	1,571,367	5,348	4,781,003	137
56	30,584	1	250			11,243	2,915	208	7,948	177	51,843	53,866	1,457	184,862	138
18	7,940	13	2,785			2,832	1,072		1,060	700	7,912	7,702	210	31,600	139
154	65,274	1	140	3	300	10,718	7,770	502	2,446		151,589	150,914	625	274,084	140
15	6,612	30	8,720			4,753	3,208	355	1,190		41,505	41,033	472	77,900	141
37	26,260					41,775	4,700	1,425	35,650		230,326	225,807	4,459	410,715	142
42	21,248					3,678	2,675	238	765		65,091	63,545	1,546	111,650	143
98	56,643	11	3,404	4	419	15,129	12,933	134	1,702	860	34,708	33,494	1,214	192,830	144
26	10,786			1	180	3,915	1,225	240	1,450	1,000	35,540	34,795	745	66,550	145
167	70,418			4		21,776	5,722	2,089	6,965	7,000	260,835	257,849	2,986	461,571	146
2,580	1,292,714	1,091	210,309	26	4,332	676,299	78,715	112,602	484,982		6,336,208	6,248,852	92,356	10,850,519	147

paste, 2; oil, cottonseed and cake, 1; oil, not elsewhere specified, 1; paper hangings, 2; pens, fountain and stylographic, 1; pens, gold, 1; pens, steel, 1; photographic apparatus, 1; photographic materials, 1; pipes, tobacco, 1; plated and britannia ware, 2; printing materials, 2; pumps, not including steam pumps, 1; rubber and elastic goods, 1; sausage, 2; scales and balances, 2; sewing machine attachments, 1; shoddy, 1; show cases, 2; silversmithing, 1; smelting and refining, not from the ore, 2; springs, steel, car and carriage, 1; starch, 1; stationery goods, not elsewhere specified, 1; steam packing, 2; sugar and molasses, refining, 1; taxidermy, 2; in and terne plate, 2; type founding, 1; typewriter repairing, 1; upholstering materials, 2; vinegar and cider, 2; watch cases, 1; window shades, 2; wool pulling, 1.

CLEVELAND.

49,240	\$25,582,476	9,074	\$2,216,588	496	\$93,625	\$11,565,697	\$1,040,108	\$515,999	\$7,844,372	\$2,165,218	\$71,597,595	\$68,738,096	\$2,858,899	\$139,849,806	1
55	29,490	45	13,700			16,045	2,439	1,315	12,641	250	118,611	117,477	1,134	251,862	2
18	10,572	11	2,756	5	576	8,671	3,350	77	5,244		79,866	78,181	1,685	154,125	3
56	31,513			6	613	12,530	9,411	94	2,775	250	54,997	54,288	709	151,400	4
597	196,315	21	13,833			44,082	6,194	3,569	34,319		419,917	410,971	8,946	862,024	5
207	131,292			6	824	25,403	20,775	1,099	3,114	415	106,564	100,232	6,282	443,952	6
39	18,880	40	8,588	3	520	7,071	4,380	189	2,402	100	26,586	25,776	810	92,895	7
89	41,801	1	468	1	140	22,286	19,257	760	1,811	458	73,293	71,895	1,398	264,703	8
284	69,494	204	42,582			20,919	5,125	232	15,512		336,272	334,255	2,017	552,335	9
20	11,360	4	2,130			9,617	3,010	1,848	4,769		185,507	184,127	1,380	249,480	10
17	4,820	25	6,276			1,702	860	163	679		25,000	24,142	918	47,600	11
70	38,895	244	58,778			14,877	8,120	420	6,337		99,472	97,742	1,730	270,840	12
333	142,698			10	1,500	52,602	9,900	1,460	41,242		503,845	501,336	2,509	817,592	13
156	69,792					5,300	1,060	1,382	2,644	194	143,863	139,377	4,486	270,647	14
258	159,966	15	4,905			51,207	1,100	2,120	47,937		217,965	214,099	3,866	654,800	15
436	256,925	108	26,704	8	1,810	50,504	14,138	6,494	29,872		892,371	869,177	23,194	1,525,397	16
214	119,411			2	240	17,010	3,300	1,933	10,927	800	61,824	11,662	49,662	280,854	17
524	287,525					177,019	150	3,782	23,117	150,000	1,041,898	1,025,346	16,052	2,416,695	18
81	33,635	51	11,180			8,996	3,350	308	5,338		128,874	128,046	828	223,985	19
626	364,923	2	400			106,166	11,939	1,525	17,436	75,265	615,943	612,711	3,232	1,310,245	20
18	8,656	8	2,600			1,896	896	62	938		4,175	3,791	384	30,942	21
465	253,971					47,862	20,262	2,936	20,494	4,170	277,971	270,876	7,095	729,292	22
1,152	608,099	3	1,001			32,512		5,347	27,165		513,794	510,904	2,860	1,209,947	23
356	203,539					83,792	2,060	9,310	72,422		909,722	858,101	51,621	1,729,313	24
3	1,530					745	156	14	375	200	4,016	3,981	35	12,947	25
448	245,289	211	50,448	19	2,441	405,929	81,999	2,943	30,232	290,705	657,249	650,214	7,035	1,857,772	26
494	221,251	967	258,811	6	701	409,058	35,930	11,377	51,572	310,129	1,871,254	1,861,168	10,091	3,410,299	27
14	7,740	15	3,510	1	200	1,630	600	8	1,072		1,425	1,180	245	19,750	28
16	9,666	166	43,039			11,926	9,475	116	1,985	350	44,443	43,457	986	167,127	29
869	470,183	1,491	372,042	2	200	304,419	41,847	3,580	33,467	175,525	2,444,826	2,438,301	11,525	4,213,248	30
118	68,068	384	76,345	4	500	255,917	23,152	964	231,801		669,999	665,170	4,823	1,705,311	31
170	71,552			9	2,280	6,486	915	1,317	4,254		102,899	102,659	240	225,328	32
42	24,909	13	3,352	1	150	853	660	10	183		3,247	3,235	12	12,300	33
1,612	743,553	394	71,631	15	4,150	375,763	135,671	15,469	222,353	2,265	1,601,653	1,477,978	123,675	3,337,923	35
71	30,479	3	850	1	200	5,722	2,364	98	3,280		65,999	65,522	477	136,821	36
64	19,650					3,747	1,970	107	1,670		14,369	13,185	1,184	63,220	37
2	1,750					803	310	3	50		300	300		5,200	38
34	13,390	18	3,335			6,145	3,630	5	2,460		31,983	31,633	300	86,000	39
19	8,060	30	5,762			10,436	2,705	495	7,236		112,588	111,893	695	218,735	40
60	35,730					7,369	240	3,052	4,077		633,535	674,800	8,675	776,326	41
33	14,944	55	12,011			10,373	3,265	531	6,577		93,892	90,627	3,265	176,806	42
8,469	4,451,003	181	33,734	8	2,571	1,180,372	68,177	51,673	803,135	257,337	6,698,074	6,429,699	268,375	15,428,053	43
19	15,441	36	11,818		150	18,550	8,355	245	9,950		90,040	89,331	153	182,545	44
3	1,000	19	5,500			3,032	863	14	2,215		34,023	33,653	365	73,001	45
157	90,759	14	3,748	2	204	19,075	10,338	617	3,045	25	171,071	169,836	1,235	373,777	46

TABLE 8.—MANUFACTURES IN CITIES

CLEVELAND—Continued.

	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	Furniture, factory product.....	18	\$968,884	\$84,400	\$196,500	\$160,853	\$527,181	20	59	\$64,300	420	\$213,410
48	Gas and lamp fixtures.....	5	182,293			47,001	115,292	3	37	27,839	202	76,374
49	Gas and oil stoves.....	4	1,837,307	124,507	290,615	306,303	1,136,882	62	62	91,396	1,136	528,287
50	Glass, cutting, staining, and ornamenting.	3	4,000			400	8,600	3			8	6,920
51	Hairwork.....	9	14,115			1,765	12,350	9			27	8,175
52	Hardware.....	7	1,457,640	92,577	322,500	260,115	773,148	3	61	79,273	1,648	709,498
53	Hats and caps, not including fur hats and wool hats.	8	183,831	3,120	9,415	42,292	131,004	13	12	9,449	327	122,907
54	Hosiery and knit goods.....	5	239,439			54,463	184,976	7	7	10,780	541	130,974
55	House furnishing goods, not elsewhere specified.	5	483,812	20,400	83,637	252,647	127,108	1	27	29,812	266	85,733
56	Ice, manufactured.....	4	193,654	36,250	87,566	31,549	38,289	1	12	11,020	26	19,203
57	Instruments, professional and scientific.	5	58,647			18,279	40,368	9	6	3,224	48	18,885
58	Iron and steel.....	15	14,616,917	1,431,250	2,088,162	3,953,401	7,144,104	213	213	230,968	6,915	4,014,589
59	Iron and steel, bolts, nuts, washers, and rivets.	7	712,045	24,363	95,738	206,618	383,331	6	50	79,972	1,305	553,261
60	Iron and steel, forgings.....	5	1,906,496	165,416	346,339	637,744	756,997	3	41	69,933	397	448,326
61	Ironwork, architectural and ornamental.	11	467,528	75,150	80,678	108,900	202,800	9	48	60,932	469	234,081
62	Jewelry.....	6	20,710			11,200	9,510	6			32	15,161
63	Leather, tanned, curried, and finished.	3	171,193	26,700	34,600	26,650	83,248	5	10	9,314	44	17,900
64	Lime and cement.....	3	57,120		3,500	8,050	45,570	1	10	10,000	29	13,000
65	Liquors, malt.....	10	3,783,292	295,152	1,238,528	1,056,503	1,197,959	10	95	173,554	477	381,780
66	Lithographing and engraving.....	4	353,794			201,050	152,744	3	22	49,760	142	82,200
67	Lock and gun smithing.....	17	10,471	3,400	550	2,770	3,751	19			7	2,690
68	Looking-glass and picture frames.....	14	71,775	13,500	5,500	7,150	45,625	16	4	2,924	55	23,204
69	Lumber, planing mill products, including sash, doors, and blinds.	26	853,918	140,400	91,541	187,921	434,056	27	64	70,004	710	321,671
70	Malt.....	3	62,750	27,000	8,750	4,500	22,500	6	3	2,150	12	10,435
71	Marble and stone work.....	6	291,629	48,110	23,300	78,631	146,568	4	28	43,550	415	235,708
72	Masonry, brick and stone.....	8	124,065	7,700	5,900	17,515	92,950	12	20	17,601	243	124,176
73	Mattresses and spring beds.....	4	70,175	4,000	5,000	10,976	50,699	2	17	14,909	137	54,810
74	Millinery and lace goods.....	8	83,044	3,000	7,000	6,497	71,547	16	11	7,616	147	30,056
75	Millinery, custom work.....	79	163,993	41,900	30,800	8,303	82,900	89	39	20,390	286	82,358
76	Mineral and soda waters.....	6	39,950	4,000	3,500	11,700	20,750	6	6	8,940	24	13,775
77	Models and patterns.....	13	75,303	5,000	16,500	10,400	43,403	14	4	6,300	117	55,269
78	Monuments and tombstones.....	13	51,010	7,500	5,175	4,275	34,060	17	3	2,075	56	43,735
79	Oil, not elsewhere specified.....	13	664,905	11,500	25,241	61,575	566,589	11	134	134,924	89	43,304
80	Optical goods.....	3	12,253			2,958	9,300	2			13	9,000
81	Painting, house, sign, etc.....	64	148,190	11,255	15,375	15,816	105,744	76	27	20,096	418	211,029
82	Paints.....	9	1,346,195	105,100	171,781	185,637	833,677	5	221	270,671	343	146,425
83	Paper hanging.....	36	84,782	3,600	6,500	4,361	70,231	46	17	14,641	171	97,473
84	Patent medicines and compounds.....	10	147,136	6,700	1,900	10,927	127,609	8	29	30,780	42	19,153
85	Paving and paving materials.....	9	311,173	44,043	22,275	75,690	169,145	9	34	31,290	675	281,119
86	Petroleum, refining.....	4	5,933,713	716,576	476,734	2,605,496	2,184,912	2	141	125,331	477	245,559
87	Photography.....	42	57,735	700	1,850	31,466	24,220	49	5	2,140	77	41,428
88	Photolithographing and photoengraving.	3	16,200			8,500	7,700	2	8	5,657	35	16,920
89	Plumbers' supplies.....	7	198,096	20,937	17,467	58,631	101,061	6	26	22,870	148	67,336
90	Plumbing, and gas and steam fitting.....	95	503,265	29,628	53,800	70,448	351,379	117	45	33,128	729	469,290
91	Printing and publishing, book and job.	69	1,107,419	2,250	23,075	694,909	337,135	73	150	141,306	981	496,319
92	Printing and publishing, newspapers and periodicals.	38	1,672,687	94,700	177,321	614,383	786,288	23	268	276,006	710	491,868
93	Pumps, not including steam pumps.....	3	10,550	1,000	500	800	8,250	5	1	600	10	4,940
94	Roofing and roofing materials.....	8	129,190	21,856	20,319	5,974	81,041	10	12	9,718	96	52,379
95	Rubber and elastic goods.....	3	1,230,079	19,066	96,250	64,032	1,050,781		54	67,216	697	232,158
96	Saddlery and harness.....	57	125,760	12,125	8,425	39,800	65,400	61	3	2,080	86	45,654
97	Sewing machines and attachments.....	3	2,575,208	81,000	172,781	421,580	1,899,847		115	159,767	724	401,206
98	Ship and boat building, wooden.....	3	9,025		500	1,825	6,700	4			42	21,400
99	Shirts.....	4	82,090			2,215	29,875	6			62	10,496
100	Shoddy.....	4	1,244,396	108,000	118,000	358,500	660,396		31	51,200	398	141,114
101	Slaughtering and meat packing, wholesale.	10	1,827,238	66,565	104,818	74,626	1,631,279	7	173	135,886	577	235,023
102	Soap and candles.....	7	119,688	10,180	16,200	30,928	56,380	3	21	17,081	38	18,308
103	Stamped ware.....	3	521,370	56,000	80,000	269,866	116,004	1	14	15,223	297	104,376
104	Steam fittings and heating apparatus.....	4	146,186	6,000	12,000	24,666	103,520	3	10	9,760	31	18,006
105	Stencils and brands.....	3	18,700			3,500	6,200	3			10	5,905
106	Stereotyping and electrotyping.....	4	84,918			50,908	34,010	3	8	8,950	101	53,738
107	Surgical appliances.....	3	1,886			1,186	700	3			4	1,102
108	Tinsmithing, coppersmithing, and sheet-iron working.	97	280,107	39,775	35,275	71,695	133,362	112	33	23,239	382	206,749
109	Tobacco, cigars and cigarettes.....	117	455,477	23,781	29,975	24,165	377,606	130	51	52,565	943	347,661
110	Tools, not elsewhere specified.....	8	984,053	55,700	147,332	356,218	424,753	7	59	56,430	568	260,364
111	Trunks and valises.....	4	85,900	18,000	30,000	9,400	28,500	3	18	9,050	121	46,555

BY SPECIFIED INDUSTRIES: 1900—Continued.

CLEVELAND—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.										
409	\$211,090	3	\$790	8	\$1,530	\$51,828	\$11,852	\$2,912	\$31,064	\$5,500	\$510,501	\$505,378	\$5,123	\$1,020,560	47
173	68,539	29	7,835			24,590	3,656	150	15,778	5,000	101,471	98,951	2,520	251,599	48
1,136	528,287					110,306	7,491	7,491	102,815		1,057,234	1,034,546	22,688	1,905,391	49
8	6,920					1,174	1,044	10	120		8,400	8,330	70	19,600	50
2	1,680	25	6,495			6,621	5,750	106	765		7,859	7,680	179	32,150	51
1,506	677,290	112	25,293	30	6,915	211,451	450	3,888	202,118		483,422	429,668	53,754	1,653,374	52
127	69,396	200	53,511			20,969	8,681	982	11,906		293,958	293,258	5,700	499,739	53
52	25,900	499	105,074			49,641	8,790	233	15,618	25,000	387,215	384,291	2,924	748,012	54
256	83,449	9	2,026	1	258	5,582	580	1,167	3,835		293,148	289,003	4,145	511,782	55
26	19,203					13,630	400	6,765	6,465		30,500	10,500	20,000	95,100	56
44	18,061	4	824			3,339	1,372	107	1,860		15,749	15,214	535	59,280	57
6,811	8,999,711	103	14,518	1	360	1,220,277	10,000	30,788	1,149,736	20,753	13,490,450	12,149,202	1,341,248	24,276,197	58
1,023	498,835	44	9,426	238	45,000	45,689	7,530	3,699	34,460		1,555,760	1,511,530	44,230	2,405,856	59
857	445,206	10	3,120			42,125	6,144	35,981	30,945		964,599	886,002	78,597	1,874,029	60
466	233,301	3	780			36,205	1,585	3,725	30,945		453,124	449,430	3,694	875,908	61
32	15,161					2,050	1,716	56	278		14,454	13,950	495	44,400	62
44	17,900					8,623	681	681	7,947		105,372	102,879	2,493	150,577	63
29	13,000					10,012	3,300	285	4,027		71,880	67,020	4,860	132,500	64
477	381,780					1,447,552	480	28,955	1,418,117	2,400	840,394	785,186	55,008	4,033,915	65
185	80,300	6	1,690	1	210	18,233	0,000	938	11,555		80,827	76,240	4,587	309,300	66
7	2,690					2,032	1,618	28	886		3,586	3,586	300	21,560	67
46	21,958	1	156	8	1,090	11,694	5,855	850	5,489		80,232	79,467	765	180,031	68
710	321,671					97,177	15,739	7,169	67,702	6,567	579,083	568,863	10,220	1,286,944	69
12	10,435					2,907	1,120	817	970		49,440	46,475	2,965	77,950	70
415	235,708					20,645	1,635	1,833	15,042	2,185	72,382	57,514	14,868	420,558	71
243	124,176					443,698	1,525	236	1,362	440,075	154,746	153,940	806	855,020	72
88	38,590	49	16,220			15,253	3,320	380	11,409		164,605	163,098	1,507	317,781	73
9	6,652	138	23,404			6,102	3,680	393	2,029		200,253	199,608	585	290,440	74
2	1,200	232	80,987	2	171	42,892	31,477	1,245	10,170		276,948	276,046	902	561,216	75
24	18,775					3,069	1,500	236	1,333		20,084	19,785	299	58,637	76
118	54,099	4	1,170			5,032	2,071	347	2,614		22,447	21,136	1,311	123,185	77
56	43,735					3,153	1,710	260	888	300	120,363	119,410	953	195,470	78
89	43,304					125,726	6,346	1,279	116,232	1,359	331,789	324,860	7,499	1,421,089	79
13	9,000					2,824	2,097	89	688		14,400	14,175	225	41,500	80
410	209,447	4	624	4	958	20,322	12,341	1,118	6,373	490	174,900	174,053	847	571,469	81
271	120,638	72	25,787			321,690	7,390	10,467	303,833		1,308,492	1,291,156	12,336	2,192,253	82
147	90,586	22	6,705	2	182	14,577	8,887	536	4,754	400	106,277	105,982	295	317,781	83
24	18,154	18	5,999			25,005	4,476	464	20,065		84,129	83,516	583	213,635	84
675	281,119					23,068	3,230	1,253	10,710	3,000	287,816	284,975	2,841	747,842	85
436	234,485	41	9,094			416,029	4,747	44,511	396,741		1,973,473	1,851,671	121,802	2,983,169	86
46	30,308	30	10,990	1	130	21,203	17,092	229	3,682	260	50,694	50,105	589	181,510	87
85	16,920					4,604	1,424	65	1,925	1,250	4,750	3,950	800	44,000	88
147	66,816			1	520	29,550	4,580	1,255	23,715		150,850	146,222	4,628	323,008	89
728	463,054			1	236	54,253	21,305	2,126	22,477	8,350	1,039,923	1,032,139	7,784	1,919,734	90
772	436,792	195	57,253	14	2,274	117,034	46,169	3,848	49,307	18,260	700,052	683,160	16,892	1,787,106	91
629	468,885	71	21,395	10	1,588	378,282	25,463	7,119	277,878	67,822	485,423	468,355	17,068	2,073,324	92
10	4,940					980	280	50	650		13,970	13,880	90	30,300	93
95	52,145	1	231			6,073	2,345	462	3,271		149,703	149,157	546	253,841	94
427	144,039	251	83,569	19	4,500	40,397	650	3,100	36,647		1,045,927	1,027,725	18,202	1,494,309	95
85	45,554			1	100	11,503	8,131	601	2,521	350	82,992	81,967	1,025	197,429	96
699	396,022	12	3,000	13	2,184	115,920	500	11,570	103,550		860,832	855,479	5,353	1,759,320	97
42	21,400					1,603	1,450	8	145		13,200	12,885	315	43,950	98
4	1,664	58	3,832			3,410	1,032	25	2,853		38,825	38,410	415	63,370	99
188	37,379	210	53,735			63,246	240	4,682	58,324		945,818	925,613	19,705	1,308,187	100
559	229,407	18	5,616			175,182	180	5,524	169,428		6,759,023	6,733,093	25,930	7,514,470	101
86	17,858	2	450			9,661	1,640	487	6,442	1,092	105,805	101,509	3,796	173,650	102
286	103,129	11	1,247			16,945	500	1,592	14,883		153,664	151,455	7,209	325,010	103
31	18,006					5,709	1,300	386	4,029		56,839	56,213	626	143,300	104
10	5,905					1,605	1,010	45	450	100	4,760	4,625	135	19,500	105
100	58,338			1	350	17,481	3,756	331	13,394		17,710	15,740	1,970	117,442	106
1	144	2	808	1	150	601	385	4	212		1,075	1,065	10	10,300	107
377	205,361	2	590	3	803	39,607	16,042	1,817	20,748	1,000	324,910	320,769	4,141	759,828	108
515	242,896	426	104,561	2	201	276,227	22,069	2,055	252,100		410,193	407,310	2,883	1,261,012	109
463	240,364	100	20,000			77,346	2,300	3,337	71,209		264,504	257,109	7,395	890,342	110
98	40,575	20	4,512	3	468	8,591	2,700	691	5,200		75,687	74,800	1,387	163,000	111

TABLE 8.—MANUFACTURES IN CITIES

CLEVELAND—Continued.

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 imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
112 Umbrellas and canes	5	\$34,440	\$400	\$200	\$3,300	\$30,450	7	6	\$2,860	34	\$10,885
113 Varnish	7	458,770	23,841	71,252	43,019	320,658	7	67	93,678	48	35,182
114 Watch, clock, and jewelry repairing	71	53,025	3,850	2,650	19,645	27,080	68	—	—	78	46,666
115 Wirework, including wire rope and cable	12	895,129	45,000	136,780	271,962	441,887	6	47	43,272	774	285,815
116 Wood, turned and carved	11	39,670	1,400	675	18,425	19,170	11	3	1,450	63	84,882
117 All other industries ¹	103	15,189,340	1,235,005	1,206,974	6,886,580	5,910,781	91	481	580,374	6,936	3,142,932

¹ Embraces agricultural implements, 1; ammunition, 1; artificial feathers and flowers, 1; artificial limbs, 2; babbitt metal and solder, 1; bags, other than paper, 1; bags, paper, 2; belting and hose, leather, 2; billiard tables and materials, 2; boot and shoe cut stock, 1; boot and shoe uppers, 2; bronze castings, 1; buttons, 2; carriage and wagon materials, 1; carriages and sleds, children's, 1; cars, steam railroad, not including operations of railroad companies, 1; cars, street railroad, not including operations of railroad companies, 2; china decorating, 1; chocolate and cocoa products, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 2; cotton small wares, 1; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 2; fancy articles, not elsewhere specified, 1; files, 1; fish, canning and preserving, 1; foundry supplies, 1; galvanizing, 1; gas, illuminating and heating, 1; gas machines and meters, 1; grease and tallow, 2; hand stamps, 2; ink, printing, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; japanning, 1; lamps and reflectors, 1; lead, bar, pipe, and sheet, 1; leather goods, 2; liquors, distilled, 1; liquors, vinous, 2; lumber and timber products, 1; mucilage and paste, 1; musical instruments and

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1 All industries	914	\$25,392,136	\$2,456,310	\$3,644,451	\$4,966,529	\$12,324,816	968	1,759	\$1,644,304	17,066	\$7,718,824
2 Awnings, tents, and sails	3	10,800	—	—	3,500	7,300	2	2	1,100	21	8,250
3 Bicycle and tricycle repairing	20	16,420	850	1,450	9,855	4,265	19	1	200	20	6,616
4 Blacksmithing and wheelwrighting	69	42,892	16,985	8,265	8,245	9,367	76	4	1,000	94	50,305
5 Bookbinding and blank book making	6	47,000	—	—	17,500	29,500	7	7	5,500	59	23,519
6 Boots and shoes, custom work and repairing	57	10,359	2,990	1,125	4,300	1,944	60	—	—	13	5,765
7 Boots and shoes, factory product	8	1,694,542	12,000	39,381	131,025	1,512,136	1	151	201,314	1,880	683,401
8 Boxes, wooden packing	5	37,347	6,375	6,578	9,758	14,686	4	5	3,222	59	17,322
9 Brass castings and brass finishing	3	37,554	4,000	7,416	13,346	12,792	2	8	4,000	36	16,226
10 Bread and other bakery products	30	456,767	69,925	84,340	174,443	128,959	30	78	56,738	286	112,522
11 Brick and tile	5	19,565	3,500	3,265	4,750	5,050	6	1	800	62	23,889
12 Brooms and brushes	4	71,851	3,600	8,650	6,252	53,349	6	8	6,000	53	17,270
13 Carpentry	10	29,700	1,800	2,400	3,275	22,225	11	—	—	62	36,318
14 Carpets, rag	3	9,357	—	—	5,900	3,457	3	1	864	38	8,992
15 Carriage and wagon materials	4	59,425	100	500	31,100	27,725	4	6	8,700	161	60,165
16 Carriages and wagons	20	1,597,006	265,531	346,310	82,911	902,254	23	109	84,632	1,026	417,856
17 Cars and general shop construction and repairs by steam railroad companies	6	1,349,740	240,341	294,200	202,048	613,160	—	90	76,829	2,104	1,141,352
18 Clothing, men's, custom work and repairing	61	126,230	3,000	2,900	13,567	106,763	70	19	17,988	369	169,244
19 Clothing, women's, dressmaking	17	6,358	—	—	2,473	3,885	22	6	6,660	99	31,586
20 Coffee and spice, roasting and grinding	3	68,500	—	—	20,350	48,150	2	70	34,961	27	12,200
21 Confectionery	15	75,559	1,000	900	13,775	59,884	18	23	13,660	154	38,341
22 Dyeing and cleaning	9	24,860	11,750	4,610	4,910	3,110	8	2	600	16	8,082
23 Electrical construction and repairs	6	18,825	—	—	15,200	3,230	5	5	3,230	32	17,040
24 Electroplating	3	9,900	—	800	6,200	2,300	2	1	900	21	8,922
25 Flouring and grist mill products	3	159,900	9,400	28,000	41,200	81,300	1	11	13,360	29	16,266
26 Foundry and machine shop products	35	3,953,271	359,010	534,656	854,745	2,204,860	31	194	250,677	2,824	1,368,711
27 Furniture, cabinetmaking, repairing, and upholstering	13	33,585	3,500	3,500	7,550	19,035	14	4	3,000	44	21,796
28 Furniture, factory product	4	264,599	37,659	10,000	88,125	178,815	4	33	23,716	213	66,865
29 Hats and caps, not including fur hats and wool hats	3	1,050	—	—	500	1,090	3	—	—	7	8,460
30 Iron and steel	4	1,916,600	96,600	850,000	1,220,000	250,000	—	24	55,190	670	451,482
31 Iron and steel, bolts, nuts, washers, and rivets	3	236,000	23,000	23,000	75,000	108,000	2	13	19,200	406	137,000
32 Iron and steel, forgings	3	155,000	20,000	17,000	30,000	88,000	—	13	17,225	163	70,820
33 Ironwork, architectural and ornamental	4	105,600	4,000	9,000	21,200	71,400	4	8	11,040	76	31,089
34 Lime and cement	3	26,300	1,000	4,000	1,800	19,500	3	4	5,220	20	8,501
35 Liquors, malt	4	1,646,978	203,570	808,950	221,489	412,969	5	50	73,804	447	250,078
36 Lock and gun smithing	3	2,265	—	—	1,660	545	12	—	—	2	1,220
37 Looking-glass and picture frames	9	26,565	—	—	1,925	24,640	12	8	3,112	20	8,318
38 Lumber, planing mill products, including sash, doors, and blinds	12	175,936	28,000	11,600	33,710	102,626	12	8	7,400	159	88,533
39 Marble and stone work	3	63,225	14,000	5,525	32,825	10,875	8	9	5,000	71	39,779
40 Masonry, brick and stone	22	186,809	12,190	20,155	50,875	103,589	30	6	6,900	361	240,647
41 Millinery, custom work	23	58,918	3,900	3,800	1,336	49,880	31	24	5,850	134	30,614
42 Monuments and tombstones	5	23,050	2,250	350	1,250	19,200	6	2	2,500	18	11,746
43 Optical goods	3	7,937	—	—	2,550	5,347	2	2	200	4	1,833
44 Painting, house, sign, etc	16	37,453	3,085	7,040	3,423	23,925	20	10	5,260	94	42,030
45 Paints	3	154,693	40,000	35,303	9,204	70,123	23	23	29,940	47	18,332
46 Patent medicines and compounds	7	675,505	21,300	69,350	57,505	527,340	5	30	28,045	125	46,352
47 Paving and paving materials	8	23,831	1,870	1,659	8,200	12,152	8	6	700	67	25,070
48 Photography	13	59,315	—	—	13,319	46,496	17	6	3,058	41	19,466
49 Plastering and stucco work	7	2,305	300	300	575	690	7	—	—	37	21,089
50 Plumbing, and gas and steam fitting	30	89,835	2,620	1,405	7,215	72,595	43	11	4,448	169	78,260
51 Printing and publishing, book and job	22	172,060	3,000	500	116,500	52,060	25	29	22,032	206	97,045

BY SPECIFIED INDUSTRIES: 1900—Continued.

CLEVELAND—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.										
7	\$3,065	27	\$7,820			\$5,333	\$3,100	\$123	\$2,110		\$72,081	\$71,785	\$296	\$114,400	112
47	34,882	1	300			77,251	290	4,281	72,680		433,900	430,709	3,191	710,218	113
74	46,310	1	178	3	\$178	14,848	10,161	251	1,446	\$2,990	31,360	30,568	792	150,193	114
715	267,655	59	18,160			76,018	5,562	5,459	65,027		562,126	555,601	6,525	1,137,416	115
62	34,782			1	100	4,057	2,516	96	1,295	150	19,618	17,435	2,183	91,730	116
5,771	2,837,708	1,144	252,183	21	3,041	1,074,351	50,008	129,015	615,851	270,477	7,171,031	6,952,726	218,305	13,892,429	117

materials, not specified, 2; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; oil, linseed, 1; oilcloth, floor, 1; oleomargarine, 1; paper and wood pulp, 2; paper hangings, 1; pens, fountain and stylographic, 1; plastering and stucco work, 2; pottery, terra cotta, and fire-clay products, 2; printing and publishing, music, 2; printing materials, 1; regalia and society banners and emblems, 1; rules, ivory and wood, 1; safes and vaults, 1; salt, 1; sausage, 1; saws, 1; scales and balances, 1; screws, wood, 2; sewing machine cases, 1; sewing machine repairing, 1; shipbuilding, iron and steel, 1; shoe cases, 1; sporting goods, 1; springs, steel, car and carriage, 1; stationery goods, not elsewhere specified, 1; sugar and molasses, refining, 1; taxidermy, 1; tin and terra plate, 1; tobacco, chewing, smoking, and snuff, 1; typewriter repairing, 1; typewriters and supplies, 1; upholstering materials, 1; vault lights and ventilators, 1; washing machines and clothes wringers, 1; wool pulling, 1; woolen goods, 1; worsted goods, 1.

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14,528	\$7,091,119	2,209	\$530,440	269	\$47,265	\$4,014,022	\$248,685	\$172,783	\$3,356,749	\$235,805	\$20,194,532	\$19,269,251	\$925,251	\$39,666,848	1
11	5,350	10	2,900			4,107	900	65	3,082		22,759	22,485	274	48,500	2
18	6,106	2	510			2,634	2,238	187	209		17,553	17,020	533	41,319	3
93	50,130					7,303	5,833	661	839		40,441	37,626	2,815	101,349	4
27	15,320	31	8,024	1	175	16,567	4,020	357	6,490	5,700	60,128	59,026	1,102	131,741	5
18	5,765					4,395	4,158	41	196		12,932	12,419	513	53,337	6
1,203	478,687	570	181,660	107	23,054	95,242	9,805	3,619	81,818		2,141,731	2,130,290	11,441	3,505,126	7
49	16,322			10	1,000	3,301	3,870	183	278		51,876	50,374	1,502	89,732	8
36	16,226					2,791	300	91	2,400		26,150	24,799	1,351	54,532	9
236	100,023	50	12,499			68,213	7,254	4,184	56,780		460,590	449,314	11,276	810,761	10
54	22,239			8	1,650	2,533	1,740	148	645		7,637	7,097	540	43,100	11
43	16,070	10	1,200			15,543	150	725	2,966	11,702	50,623	49,732	891	103,034	12
62	36,313					48,506	1,234	331	2,881	44,560	59,366	59,193	173	173,334	13
17	5,840	12	2,112	9	1,040	848	802	39	7		6,984	5,310	674	26,643	14
141	56,005	20	4,160			9,623	2,160	410	7,053		172,034	163,724	3,860	304,935	15
990	409,788	26	6,568	10	1,500	130,614	11,247	15,374	103,493		1,044,017	1,031,116	12,901	2,136,467	16
2,099	1,139,276	5	2,076			137,968		11,102	126,866		872,568	856,585	16,978	2,227,710	17
253	133,047	115	36,047	1	150	32,332	24,738	1,048	6,546		136,060	133,672	2,388	545,455	18
10	5,280	39	26,306			5,232	3,944	17	1,271		21,155	20,340	815	34,735	19
19	9,300	8	2,900			5,990	3,130	890	2,000		137,885	136,555	1,330	276,230	20
70	21,861	75	15,310	9	1,170	14,327	6,264	323	8,240		105,379	103,872	2,007	243,100	21
9	5,768	7	2,314			2,681	988	370	1,323		2,334	1,876	508	22,455	22
32	17,040					3,577	1,392	39	1,606		56,292	55,919	373	112,720	23
20	8,422	1	500			720	600	55	65		1,832	1,417	415	15,700	24
29	16,266					5,661		1,774	3,887		481,454	478,044	3,410	532,232	25
2,824	1,868,711					272,004	14,497	19,456	205,602	32,489	2,185,257	2,101,354	83,903	4,623,286	26
40	20,596	3	1,000	1	200	3,355	1,663	255	1,432		11,218	10,405	813	63,408	27
177	62,472	16	3,602	20	791	29,375	1,240	1,413	13,660	13,502	205,338	201,502	3,886	427,530	28
4	2,460	3	1,000			693	517	43	133		2,509	2,500	9	9,900	29
670	451,482					125,897		2,344	123,553		3,937,393	3,404,938	532,405	5,976,023	30
392	134,500	14	2,500			23,241		2,421	20,820		189,800	185,035	4,765	390,000	31
163	70,820					7,595	3,315	100	4,180		158,682	153,807	4,855	304,038	32
73	30,039	2	340	1	150	6,381	1,950	1,066	3,365		102,897	102,137	760	170,682	33
15	7,500			5	1,001	1,043	460	133	450		25,750	24,594	1,156	49,300	34
420	246,206			27	4,472	1,016,379		40,352	970,027		497,034	461,534	35,500	2,024,407	35
2	1,220					1,226	1,036	38	152		1,366	1,063	303	7,600	36
17	7,768	2	350	1	200	6,203	3,940	209	2,054		17,452	17,213	239	58,353	37
159	33,533					11,953	7,640	2,069	2,249		120,130	114,500	5,636	234,175	38
71	39,779					2,751	825	404	1,522		33,073	32,450	623	114,000	39
861	240,647					43,593	1,375	1,641	7,977	37,600	237,966	235,634	2,332	606,430	40
1	420	131	20,964	2	240	14,166	11,532	813	1,771		112,424	111,565	859	216,941	41
18	11,746					2,383	776	360	1,171	576	50,800	50,750	50	96,586	42
8	1,730			1	133	1,607	925	74	608		2,685	2,552	133	8,395	43
93	41,330	1	260			6,349	2,226	316	3,057	250	38,314	38,675	139	114,320	44
43	17,332	4	1,000			14,246		373	13,373		115,343	114,523	820	205,449	45
47	25,952	78	20,400			607,418	4,576	1,096	601,746		476,313	472,921	3,392	1,557,494	46
67	25,070					931		228	703		53,637	53,580	57	96,089	47
26	15,180	14	4,186	1	100	13,914	8,283	150	5,476		29,467	29,120	247	93,796	48
37	21,039					484	240	43	201		15,152	15,146	6	50,171	49
163	78,000			1	260	10,335	4,325	331	5,449	200	172,646	171,534	1,112	339,654	50
150	79,280	43	16,439	8	1,296	17,374	9,272	932	6,690	950	91,188	87,407	3,781	232,915	51

TABLE 8.—MANUFACTURES IN CITIES

COLUMBUS—Continued.

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.
52 Printing and publishing, newspapers and periodicals.	20	\$693,791	\$51,200	\$68,000	\$322,530	\$252,061	14	141	\$104,999	445	\$287,940
53 Pumps, not including steam pumps.	4	2,120		400	585	1,185	5			8	3,332
54 Roofing and roofing materials.	17	49,267	300	1,500	11,938	86,129	27	4	2,148	114	53,887
55 Saddlery and harness.	15	210,065	39,500	20,500	7,640	142,425	15	39	29,280	118	44,027
56 Shirts.	7	12,975			4,760	8,225	8	3	1,725	49	15,018
57 Slaughtering and meatpacking, wholesale.	5	152,410	13,000	47,000	23,809	68,610	11	4	2,410	73	34,290
58 Tinsmithing, coppersmithing, and sheet-iron working.	23	137,310	13,533	16,169	48,692	69,916	31	12	8,370	104	42,573
59 Tobacco, cigars and cigarettes.	31	331,634	7,985	14,705	25,507	288,437	32	22	20,087	483	112,945
60 Trunks and valises.	6	52,078			16,793	35,285	5	11	8,500	64	20,815
61 Watch, clock, and jewelry repairing.	30	19,655	1,900	750	9,055	7,950	37	1	780	47	27,469
62 Wirework, including wire rope and cable.	5	56,537	2,225	5,897	15,103	33,312	5	11	6,110	26	8,902
63 All other industries ¹ .	99	7,601,213	784,586	710,747	2,858,877	3,247,008	84	381	328,874	2,389	960,375

¹ Embraces agricultural implements, 2; artificial limbs, 1; baking and yeast powders, 1; baskets, and rattan and willow ware, 2; bicycles and tricycles, 1; boxes, cigar, 2; boxes, fancy and paper, 2; bridges, 2; cars and general shop construction and repairs by street railroad companies, 1; clocks, 1; clothing, men's, factory product, 1; clothing, women's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; cooperage, 1; cordage and twine, 1; corsets, 2; cutlery and edge tools, 2; druggists' preparations, not including prescriptions, 2; engraving and diesinking, 1; engraving, steel, including plate printing, 2; fertilizers, 1; files, 1; flavoring extracts, 1; food preparations, 2; fruits and vegetables, canning and preserving, 1; fur goods, 2; furnishing goods, men's, 1; gas and lamp fixtures, 1; gas and oil stoves, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hairwork, 1; hammocks, 1; hand stamps, 2;

DAYTON.

1 All industries	1,096	\$28,027,518	\$1,822,675	\$3,936,778	\$4,861,843	\$17,406,222	1,197	1,455	\$1,570,994	16,869	\$7,959,792
2 Agricultural implements	4	2,064,429	116,843	225,124	289,299	1,430,163		77	81,987	608	303,041
3 Awnings, tents, and sails	3	7,775			1,475	6,300	3	1	800	16	6,115
4 Baskets, and rattan and willow ware	3	3,375	400	200	1,575	1,200	3	1	104	8	3,882
5 Bicycle and tricycle repairing	16	12,240			6,240	6,000	19			15	7,782
6 Blacksmithing and wheelwrighting	56	26,662	5,550	4,960	7,090	9,062	68	3	960	60	30,838
7 Boots and shoes, custom work and repairing.	63	12,009	2,370	1,955	4,290	3,394	67			21	9,359
8 Boxes, cigar.	3	58,550	3,000	13,800	13,681	28,069	3	9	6,010	110	36,210
9 Boxes, fancy and paper	3	341,660			181,827	159,833	39	39	47,740	350	100,660
10 Brass castings and brass finishing	3	517,925	7,000	103,000	91,925	316,000	3	19	31,800	260	88,944
11 Bread and other bakery products	53	444,140	38,910	130,352	202,219	72,659	61	81	20,750	186	88,019
12 Brooms and brushes	4	7,455	1,130	1,300	1,350	3,675	6			20	9,877
13 Carpentering	62	55,187	10,260	11,950	9,992	22,985	70			247	192,229
14 Carpets, rag	6	2,122	850	350	222	700	6			1	468
15 Carriage and wagon materials	5	494,838	80,794	66,263	76,289	231,492	3	19	28,332	281	105,588
16 Carriages and wagons	13	222,780	41,150	50,401	12,345	118,884	22	9	13,960	205	105,221
17 Clothing, men's, custom work and repairing.	63	117,775	14,350	10,775	7,375	85,275	71	13	9,900	203	89,362
18 Clothing, men's, factory product	4	250,267	6,000	16,399	26,992	200,876	5	23	26,200	284	78,660
19 Clothing, women's, dressmaking	80	28,874	400	850	6,765	15,869	89	2	2,700	220	92,844
20 Coffee and spice, roasting and grinding.	3	188,300	3,000	23,000	17,300	140,000	4	18	15,050	42	16,528
21 Confectionery	17	36,485	2,300	1,100	12,210	20,875	21	19	6,337	79	24,126
22 Cooperage	4	9,612	2,300	1,525	1,687	4,100	4			18	7,110
23 Dyeing and cleaning	7	7,065	500	300	4,205	2,060	8			14	6,800
24 Electrical apparatus and supplies	5	217,081	5,600	3,600	83,881	124,000	4	13	11,990	125	57,795
25 Electrical construction and repairs	3	21,785			235	21,500	4			12	7,600
26 Flouring and grist mill products.	5	211,085	12,500	72,000	56,200	70,335	5	8	15,460	46	29,500
27 Foundry and machine shop products	37	4,683,290	335,312	423,935	824,489	3,050,554	35	169	207,676	2,880	1,517,988
28 Furniture, cabinetmaking, repairing, and upholstering.	14	18,100	700	350	1,885	10,165	16			22	12,390
29 Furniture, factory product	6	805,719	53,662	226,141	90,231	435,685	1	34	31,165	403	180,701
30 Hairwork	3	910			185	725	3			3	670
31 Ironwork, architectural and ornamental.	3	18,655	7,500	1,375	3,800	980	3	4	2,000	18	8,184
32 Labels and tags	4	36,050			23,500	12,550	4	7	8,196	21	9,843
33 Liquors, malt	9	1,727,827	373,000	668,500	303,910	381,917	5	29	42,970	152	97,268
34 Lock and gun smithing	4	985			875	110	5			4	2,213
35 Looking-glass and picture frames	3	8,940	800	700	2,390	4,950	3			8	4,752
36 Lumber, planing mill products, including sash, doors, and blinds.	5	299,370	25,400	45,918	55,400	172,652	3	22	21,870	347	103,832
37 Marble and stone work	6	45,685	3,500	1,000	18,865	22,320	8	8	5,320	66	48,356
38 Masonry, brick and stone	25	46,108	3,500	3,080	9,938	29,590	26	1	850	136	122,314
39 Millinery, custom work	37	48,989	300	650	1,614	41,435	38	7	3,010	85	22,238
40 Mineral and soda waters	3	43,600			11,500	32,100	4	9	9,914	15	5,924
41 Models and patterns	7	5,195			2,525	2,670	7	1	208	15	9,260
42 Monuments and tombstones	8	15,075	800	1,200	1,715	11,360	15	4	2,280	22	10,930
43 Painting, house, sign, etc	61	30,360	2,995	2,760	7,560	17,045	66	1	700	168	89,217
44 Pains	5	370,442	11,000	33,450	27,050	298,942	7	11	17,500	48	23,767
45 Paper and wood pulp	6	725,610	96,000	119,200	223,604	287,206	2	18	83,889	287	111,521
46 Paper hanging	8	35,555	1,200	4,150	1,075	79,180	10	6	8,108	17	8,727

BY SPECIFIED INDUSTRIES: 1900—Continued.

COLUMBUS—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.										
402	\$278,422	40	\$14,028	8	\$496	\$127,127	\$13,383	\$3,259	\$77,268	\$38,267	\$195,536	\$185,695	\$9,841	\$820,903	52
8	3,332					483	362	11	110		2,150	2,130	20	9,161	53
112	53,337			2	500	6,271	3,228	896			120,280	118,908	1,372	233,015	54
101	41,027			17	3,000	12,227	6,691	1,897	4,139		153,483	152,685	798	298,187	55
4	2,754	45	12,264			2,276	975	25	1,276		26,037	25,690	347	52,800	56
73	34,290					2,316	120	1,221	975		630,330	625,844	4,486	714,132	57
94	41,298	6	515	4	760	8,160	3,433	1,034	3,693		84,652	83,075	1,577	194,635	58
287	62,028	245	50,765	1	162	178,527	3,293	1,739	172,917	578	103,513	102,632	881	452,125	59
46	17,165	17	3,500	1	150	8,009	6,300	419	1,290		63,414	62,999	415	131,154	60
45	27,219			2	250	4,274	2,708	282	1,161	120	16,507	16,081	425	71,146	61
25	8,752	1	150			3,125	220	315	2,590		63,803	63,550	303	89,600	62
1,806	844,644	568	112,561	15	3,170	791,553	32,452	42,432	662,418	54,251	3,661,572	3,575,148	86,424	6,616,787	63

hardware, 1; hardware, saddlery, 1; hosiery and knit goods, 1; ice, manufactured, 2; iron and steel, doors and shutters, 1; jewelry, 1; lamps and reflectors, 2; leather, tanned, curried, and finished, 2; lithographing and engraving, 2; lumber and timber products, 2; mattresses and spring beds, 1; mineral and soda waters, 2; mirrors, 1; mucilage and paste, 2; musical instruments and materials, not specified, 2; oleomargarine, 1; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; plumbers' supplies, 1; regalia and society banners and emblems, 2; registers, cash, 1; rubber and elastic goods, 1; saws, 2; shoddy, 1; show cases, 2; soap and candles, 2; starch, 2; steam fittings and heating apparatus, 2; stereotyping and electrotyping, 2; taxidermy, 1; varnish, 1; washing machines and clothes wringers, 1; watches, 1; window shades, 1; wood, turned and carved, 2; woolen goods, 1.

DAYTON.

13,576	\$7,059,603	8,143	\$875,781	150	\$24,508	\$3,295,865	\$215,072	\$141,852	\$2,450,595	\$238,366	\$16,800,911	\$16,487,140	\$313,771	\$35,697,695	1
608	303,041					212,348	150	10,808	201,890		594,616	585,184	9,432	1,231,658	2
8	8,351	8	2,264			1,879	948	86	570	275	13,308	13,190	118	29,600	3
8	8,882					213	155	30	28		1,657	1,622	35	9,275	4
16	7,782					2,117	1,667	38	377	35	8,969	8,628	341	28,700	5
59	30,682			1	156	12,947	6,498	289	1,150	5,060	33,701	33,951	1,750	135,217	6
21	9,359					5,017	4,467	105	445		20,511	20,030	481	64,774	7
49	21,564	61	14,616			3,401	1,500	353	1,551		37,115	35,925	1,190	99,916	8
135	66,017	215	35,613			33,708	6,500	852	2,651		260,773	257,923	2,850	490,895	9
255	88,044	5	900			37,723	210	1,795	35,933		163,021	158,457	4,564	375,136	10
158	82,512	24	4,707	4	800	25,245	12,953	2,220	10,672		332,402	320,639	11,763	629,302	11
18	9,617			2	200	796	96	74	626		19,042	18,732	310	38,440	12
246	132,073			1	156	110,678	1,203	583	3,831	103,061	406,332	404,906	1,426	749,302	13
1	463					167	103	35	24		1,886	1,778	58	5,196	14
281	105,588					15,319	900	3,214	11,205		182,788	181,638	1,150	413,205	15
204	104,621	1	600			9,434	2,354	2,113	4,467		151,866	149,132	2,734	338,205	16
133	71,825	67	16,953	3	584	26,643	12,016	745	3,317	10,570	123,629	122,652	977	354,163	17
18	9,000	266	69,660			9,417	1,620	1,565	6,232		173,613	172,333	1,280	328,217	18
5	3,560	214	89,176	1	108	9,053	6,864	35	2,154		39,513	38,837	676	157,005	19
17	8,744	25	7,784			19,125	3,200	2,245	13,680		386,245	383,267	2,978	506,794	20
33	15,129	45	8,866	1	131	7,151	5,367	395	1,399		102,552	100,958	1,594	191,130	21
18	7,110					323	140	46	137		16,586	16,461	125	26,743	22
11	5,918	2	700	1	182	1,939	1,296	51	592		2,631	2,167	464	19,884	23
115	53,895	10	3,900			18,392	3,380	278	14,734		74,294	73,044	1,250	197,126	24
12	7,600					1,074	649	75	350		19,960	19,950	10	38,000	25
46	29,500					14,495	1,000	3,655	9,940		527,283	520,303	6,980	626,713	26
2,822	1,501,555	56	16,069	2	864	866,431	18,033	14,875	331,686	1,837	2,499,763	2,436,335	63,428	4,994,984	27
19	11,688	8	702	3	702	2,389	1,822	128	264	125	25,617	25,331	186	58,272	28
385	127,827	2	624	16	2,250	37,343	1,480	3,548	32,315		285,034	280,304	4,730	528,248	29
18	8,134	3	870			882	696	10	176		1,653	1,623	25	6,115	30
						1,920	250	170	1,500		8,392	8,730	162	23,620	31
13	7,944	7	1,699	1	200	16,949	1,901	94	2,954	12,000	21,475	20,877	598	89,344	32
152	97,263					345,242	2,250	12,253	380,739		182,974	164,443	18,526	794,295	33
4	2,213					623	388	155	80		1,175	1,020	155	6,120	34
8	4,752					2,561	2,148	67	346		11,337	11,184	153	24,560	35
347	193,832					76,748	1,200	1,373	14,175	60,000	416,120	411,716	3,404	751,724	36
66	48,856					14,727	1,505	52	3,170	10,000	33,861	31,006	2,855	114,778	37
186	122,314					4,912	650	229	2,898	1,135	150,288	150,168	120	328,067	38
14	5,800	84	22,133	1	100	15,169	11,934	488	2,787		120,706	120,139	567	211,078	39
15	9,260			1	124	5,955	2,050	18	3,887		26,639	26,279	360	65,234	40
						1,427	1,140	20	267		3,409	2,977	432	19,588	41
22	10,930					3,263	1,316	125	691	1,120	41,232	41,040	192	73,525	42
166	89,217					5,936	3,305	389	2,242		56,762	56,473	289	228,880	43
34	20,167	9	3,000			22,832	680	2,032	20,120		194,974	192,413	2,561	311,437	44
234	99,837	48	10,306	5	1,378	44,126	4,008	3,987	36,131		331,512	324,721	36,791	611,823	45
13	7,978	4	754			1,822	362	142	1,318		33,107	33,071	36	59,414	46

TABLE 8.—MANUFACTURES IN CITIES

DAYTON—Continued.

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 Patent medicines and compounds	6	\$480,002	\$450	\$850	\$6,548	\$422,654	8	24	\$88,640	41	\$10,572
48 Paving and paving materials	8	30,216	1,798	8,900	4,050	20,468	7	9	3,570	71	30,834
49 Photography	12	7,395	250	800	4,750	1,595	15	2	468	11	4,420
50 Plastering and stuccowork	13	8,745	825	1,385	1,790	4,745	18			35	18,673
51 Plumbing, and gas and steam fitting	21	119,760	21,200	11,500	11,550	75,510	28	10	7,598	168	88,196
52 Printing and publishing, book and job.	18	277,477	6,700	7,700	180,500	182,577	16	59	39,899	186	85,500
53 Printing and publishing, newspapers and periodicals.	12	529,917	63,500	72,000	152,097	242,320	5	54	51,081	276	188,120
54 Registers, cash	3	4,143,680	47,612	487,576	315,251	3,293,191	1	252	274,073	1,648	1,047,394
55 Roofing and roofing materials	8	9,910	600	175	2,850	6,285	9	1	800	15	7,676
56 Saddlery and harness	17	46,535	18,000	10,550	3,610	14,375	21	1	900	27	12,892
57 Slaughtering and meat packing, wholesale.	9	228,400	29,500	47,400	25,700	125,800	14	12	9,900	144	74,061
58 Soap and candles	6	239,376	18,300	51,750	30,774	138,552	5	62	52,618	87	30,904
59 Tinsmithing, coppersmithing, and sheet-iron working.	28	138,640	35,400	26,900	25,270	51,070	34	3	1,970	103	51,066
60 Tobacco, cigars and cigarettes	70	576,820	29,900	43,970	55,634	447,316	78	36	50,668	1,095	435,789
61 Tobacco, stemming and rehandling	10	854,200	16,000	57,000	9,200	772,000	17	11	16,350	721	177,329
62 Tools, not elsewhere specified	3	7,350	200	200	3,500	8,450	2			7	7,260
63 Umbrellas and canes	3	83,819			7,289	76,530	4	12	6,997	59	21,880
64 Watch, clock, and jewelry repairing	21	13,100	2,635	1,235	3,320	5,910	23			17	10,129
65 All other industries ¹	81	6,035,975	278,329	886,774	1,345,390	3,575,482	77	272	310,636	3,979	1,838,444

¹Embraces baking and yeast powders, 2; blacking, 1; bookbinding and blank book making, 1; bottling, 1; boxes, wooden packing, 1; brick and tile, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars, steam railroad, not including operations of railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; china decorating, 1; cleansing and polishing preparations, 1; cordage and twine, 1; corsets, 2; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 1; electroplating, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 2; flags and banners, 1; flavoring extracts, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; fur goods, 1; gas and oil stoves, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 1; grease and tallow, 2; hand stamps, 1; ice, manufactured, 1; iron and steel,

HAMILTON.

1 All industries	222	\$12,575,821	\$907,361	\$2,154,658	\$3,197,683	\$6,226,119	219	325	\$418,632	5,850	\$2,626,084
2 Bicycle and tricycle repairing	3	1,660			860	1,300	5			1	890
3 Blacksmithing and wheelwrighting	15	8,075	1,675	1,150	1,675	3,575	18			18	9,621
4 Boots and shoes, custom work and repairing.	12	6,535	1,700	3,445	625	765	15			6	2,235
5 Bread and other bakery products	12	35,200	6,650	19,000	6,750	2,800	14			33	15,727
6 Carpentering	10	47,445	8,900	4,725	2,940	30,880	11			70	43,128
7 Carriage and wagon materials	2	34,600	7,100	4,900	4,300	18,300	5	1	936	30	11,800
8 Carriages and wagons	3	243,547	11,000	66,000	14,878	151,669	2	16	17,784	178	77,759
9 Clothing, men's, custom work and repairing.	13	34,915	7,000	2,000	4,805	21,110	15	12	5,852	50	22,188
10 Confectionery	3	2,150			1,650	500	4	2	400	3	700
11 Flouring and grist mill products	3	119,953	16,600	18,350	49,480	85,523	9	9	8,670	36	21,442
12 Foundry and machine shop products	16	4,567,846	237,000	795,264	1,154,894	2,380,688	6	100	142,697	2,700	1,323,986
13 Furniture, cabinetmaking, repairing, and upholstering.	5	11,430	1,950	4,200	3,555	1,725	7			3	1,400
14 Liquors, malt	3	1,994,956	270,000	328,584	391,940	1,004,432		22	28,240	178	108,861
15 Looking-glass and picture frames	4	1,800	200	200	50	1,350	4			2	740
16 Lumber, planing mill products, including sash, doors, and blinds.	3	96,100	16,400	21,000	14,100	44,600	2	11	9,050	62	40,230
17 Malt	3	584,060	158,000	170,000	50,660	209,000	3	4	7,526	80	17,054
18 Masonry, brick and stone	4	2,800	900		500	1,400	4			25	21,400
19 Millinery, custom work	8	7,360			460	6,900	8	9	3,090	40	15,540
20 Painting, house, sign, etc	9	2,299			745	1,554	13			13	5,090
21 Photography	5	3,825			2,225	1,600	5			5	1,200
22 Plumbing, and gas and steam fitting	7	6,295			1,155	5,140	9	3	1,646	29	15,559
23 Printing and publishing, book and job.	3	11,585			9,000	2,585	7			15	4,806
24 Printing and publishing, newspapers and periodicals.	3	138,400	15,000	21,000	57,000	45,400		5	4,880	107	40,164
25 Roofing and roofing materials	5	15,275	2,000	1,000	4,975	7,300	6	2	1,040	16	8,037
26 Saddlery and harness	6	6,765	1,310	3,000	285	1,690	6			5	2,371
27 Safes and vaults	3	1,947,444	91,000	291,740	739,414	822,290		22	45,924	509	252,138
28 Tinsmithing, coppersmithing, and sheet-iron working.	5	263,780	10,200	52,100	36,605	114,875	4	11	20,020	340	99,970
29 Tobacco, cigars and cigarettes	12	11,890	700	1,200	1,115	8,375	13			22	10,242
30 Watch, clock, and jewelry repairing	4	5,950			525	5,425	4			4	2,436
31 All other industries ¹	37	2,361,826	128,576	345,800	591,037	1,296,413	29	96	115,877	1,320	449,880

¹Embraces agricultural implements, 2; boots and shoes, factory product, 1; brass castings and brass finishing, 1; brick and tile, 1; brooms and brushes, 1; carpets, rag, 2; clothing, men's, factory product, 1; electroplating, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 2; hardware, 1; hosiery and knit goods, 1; lock and gun smithing, 1; marble and stone work, 1; mattresses and spring beds, 1; mineral and soda waters, 1; models

BY SPECIFIED INDUSTRIES: 1900—Continued.

DAYTON—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.										
9	\$3,918	32	\$6,624			\$45,288	\$2,528	\$1,030	\$41,730		\$51,412	\$53,832	\$580	\$215,999	47
71	30,834					1,003	265	135	1,503		40,286	40,058	228	90,104	48
7	3,582	2	400	2	\$488	4,768	3,343	101	1,319	\$5	8,091	7,952	139	23,575	49
35	18,673					984	510	93	881		25,754	25,742	12	64,212	50
157	88,086			1	110	12,538	6,464	1,254	4,820		210,289	208,943	1,346	409,896	51
142	73,508	40	11,322	4	670	55,415	9,546	1,159	27,861	16,849	173,335	169,988	3,347	431,840	52
218	125,815	55	12,070	3	285	43,651	4,272	3,872	27,903		146,234	140,933	5,301	489,639	53
1,465	983,778	178	63,616			841,758	754	7,116	833,868		647,858	632,940	14,918	4,927,261	54
14	7,696			1	80	1,277	924	60	293		23,997	23,759	238	45,340	55
25	12,488	2	404			3,783	2,664	438	681		24,724	24,425	299	56,732	56
144	74,061					9,967	490	2,203	7,274		898,963	889,910	9,053	1,031,575	57
52	24,541	13	2,603	22	3,760	100,440	\$40	2,971	96,629		290,906	287,163	3,743	643,468	58
95	49,466	4	1,000	4	600	11,819	4,333	1,079	6,407		124,592	123,209	1,383	232,108	59
343	162,915	741	271,314	14	1,560	215,612	9,920	2,124	203,598		420,194	417,773	2,421	1,285,400	60
226	70,621	485	105,808	10	900	26,085	2,268	3,696	16,421	3,000	605,747	604,233	1,514	886,704	61
6	7,000	1	260			2,618	564	15	149	1,890	2,844	2,707	137	15,625	62
19	10,440	37	10,816	3	624	6,249	3,340	416	2,493		136,232	135,616	616	192,100	63
16	10,021			1	108	3,276	3,276	122	2,479		5,194	4,800	394	30,114	64
8,540	1,752,031	397	77,885	42	7,923	858,560	25,539	42,797	238,924	51,300	4,819,551	4,741,585	77,966	8,201,681	65

forgings, 1; jewelry, 2; lasts, 1; lime and cement, 1; lumber and timber products, 2; mattresses and spring beds, 2; mucilage and paste, 2; oil, lard, 1; oil, linseed, 1; paper goods, not elsewhere specified, 2; photolithographing and photoengraving, 2; pickles, preserves, and sauces, 1; plumbers' supplies, 1; pottery, terra cotta, and fire-clay products, 1; pumps, not including steam pumps, 2; saws, 1; scales and balances, 1; screws, wood, 1; sewing machine repairing, 1; sewing machines and attachments, 1; shirts, 2; slaughtering, wholesale, not including meat packing, 1; stationery goods, not elsewhere specified, 1; stencils and brands, 2; tobacco, chewing, smoking, and snuff, 1; toys and games, 2; trunks and valises, 1; varnish, 2; vault lights and ventilators, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1; woodenware, not elsewhere specified, 1.

HAMILTON.

5,027	\$2,445,121	758	\$171,649	65	\$9,314	\$303,481	\$30,104	\$43,549	\$729,228	\$600	\$5,536,568	\$5,888,146	\$147,422	\$12,008,316	1
1	300					295	250	19	26		1,778	1,778		4,425	2
17	9,445			1	176	1,970	1,622	66	282		6,465	6,097	368	31,490	3
6	2,235					1,152	912	105	135		3,459	3,459		13,112	4
29	14,843	4	884			3,458	2,320	458	680		52,606	51,373	1,233	94,950	5
70	43,128					1,757	100	485	1,172		73,091	73,091		132,638	6
30	11,800					1,110		260	850		17,908	17,233	675	38,300	7
156	72,659	13	3,500	9	1,600	39,106	408	1,208	37,490		211,772	209,954	1,818	570,334	8
36	17,696	14	4,492			5,146	3,229	447	870	600	38,886	38,696	190	93,810	9
1	300	2	400			1,056	850	26	180		4,470	4,404	66	10,000	10
86	21,442					5,030	900	530	4,200		496,900	491,180	5,720	582,648	11
2,685	1,321,382	8	824	12	1,780	196,429	1,510	17,491	177,428		1,833,034	1,289,926	43,108	3,945,570	12
3	1,400					635	520	80	35		1,875	1,830	45	7,725	13
178	108,861					362,339		5,604	353,735		191,759	164,772	26,987	795,284	14
2	740					856	289	12	55		3,315	3,315		5,625	15
62	40,230					2,432		550	1,882		47,336	45,924	1,412	115,500	16
80	17,054					10,367	1,713	1,576	7,578		207,417	193,990	8,427	255,860	17
25	21,400					40		15	25		5,523	5,523		32,075	18
13	5,090	40	15,540			2,758	1,540	108	1,110		29,025	28,966	59	67,450	19
						352	330		22		4,929	4,929		17,550	20
		5	1,200			1,682	1,452	30	200		2,705	2,705		11,600	21
29	15,559					1,809	970	50	349		17,520	17,459	61	45,710	22
6	3,000	8	1,606	1	200	1,074	416	62	596		7,475	7,120	355	20,950	23
42	25,520	53	13,634	12	1,000	5,144	1,260	466	3,418		26,741	25,643	1,098	94,850	24
16	8,037					2,505	1,750	245	510		17,204	17,071	133	35,600	25
6	2,371					993	838	147	8		4,182	4,180	2	10,675	26
501	250,682			8	1,456	24,845		4,299	20,046		478,538	464,373	8,605	962,907	27
181	60,970	159	33,000			9,722	510	1,439	7,773		452,703	447,795	4,908	616,804	28
20	10,032			2	210	6,479	1,438	98	4,943		15,602	15,564	38	42,224	29
4	2,436					386	615	75	246		951	908	43	7,250	30
848	350,419	457	96,569	20	2,892	111,844	4,362	7,598	99,884		1,785,409	1,743,388	42,021	3,840,410	31

and patterns, 2; monuments and tombstones, 1; paints, 1; paper and wood pulp, 2; paper goods, not elsewhere specified, 1; patent medicines and compounds, 1; paving and paving materials, 2; plastering and stucco, 2; plumbers' supplies, 1; pottery, terra cotta, and fire-clay products, 1; tobacco, stemming and rehanding, 1; tools, not elsewhere specified, 1; wirework, including wire rope and cable, 1.

TABLE 8.—MANUFACTURES IN CITIES

LIMA.

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.
1 All industries -----	195	\$5,487,584	\$302,106	\$711,657	\$2,270,923	\$2,202,898	230	208	\$166,716	2,223	\$1,050,780
2 Bicycle and tricycle repairing -----	7	4,225		500	1,975	1,750	7			4	1,221
3 Blacksmithing and wheelwrighting -----	15	8,577	2,500	2,450	1,480	2,147	22			14	7,167
4 Boots and shoes, custom work and repairing -----	13	2,820		140	1,720	960	18			6	3,000
5 Bread and other bakery products -----	8	14,175	6,500	2,500	2,275	2,900	8	4	1,460	18	8,008
6 Carpentering -----	8	14,800	200	305	1,780	12,565	11			27	13,178
7 Clothing, men's, custom work and repairing -----	13	24,825		125	1,430	23,270	15	5	4,016	80	81,297
8 Confectionery -----	4	30,800		3,500	7,150	20,150	3	14	8,981	38	8,877
9 Flouring and grist mill products -----	4	50,750	11,050	15,250	10,925	13,525	4	4	3,449	15	6,500
10 Foundry and machine shop products -----	6	453,459	23,800	113,530	83,108	236,021	9	15	13,502	225	131,595
11 Furniture, cabinetmaking, repairing, and upholstering -----	5	1,707			832	875	6			2	690
12 Lumber, planing mill products, including sash, doors, and blinds -----	3	19,800	10,500	3,500	5,200	600	4			8	3,480
13 Millinery, custom work -----	7	21,055			155	20,900	8	12	2,484	16	4,098
14 Photography -----	5	3,575		300	2,385	890	7			4	1,742
15 Plumbing, and gas and steam fitting -----	7	6,100			950	5,150	8	4	1,128	26	14,770
16 Printing and publishing, book and job -----	3	8,200			6,400	1,800	4			4	1,186
17 Printing and publishing, newspapers and periodicals -----	6	88,200	5,000	20,000	55,000	8,200	6	17	13,472	57	23,496
18 Roofing and roofing materials -----	3	5,500	3,100	500	850	1,050	3			4	2,392
19 Saddlery and harness -----	5	7,250	1,000	1,300	450	4,500	6	1	312	10	3,984
20 Tinsmithing, coppersmithing, and sheet-iron working -----	8	12,350	500	60	4,550	7,250	11	1	468	30	13,887
21 Tobacco, cigars and cigarettes -----	7	88,191	600	2,100	2,522	82,969	9	11	15,580	320	88,925
22 Tools, not elsewhere specified -----	3	30,250	1,750	2,500	3,000	18,000	2	1	1,200	26	18,984
23 Watch, clock, and jewelry repairing -----	9	3,975			2,125	1,850	12			5	2,370
24 All other industries ¹ -----	46	4,584,000	235,606	543,107	2,069,711	1,735,576	52	110	100,664	1,284	659,933

¹ Embraces awnings, tents, and sails, 1; bottling, 2; boxes, cigar, 1; brass castings and brass finishing, 1; brick and tile, 2; carriages and wagons, 2; cars and general shop construction and repairs by steam railroad companies, 2; clothing, men's, factory product, 1; clothing, women's, dressmaking, 1; cutlery and edge tools, 1; dyeing and cleaning, 1; explosives, 1; furniture, factory product, 2; gas, illuminating and heating, 1; iron and steel, 1; ironwork, architectural and ornamental, 1; leather, tanned, curried, and finished, 1; liquors, malt, 1; lock and gun smithing, 1; lumber and timber products, 2; marble and stone work, 1; masonry

SPRINGFIELD.

1 All industries -----	305	\$14,091,175	\$636,895	\$1,539,570	\$2,034,378	\$9,880,332	300	1,318	\$1,113,310	6,638	\$3,160,119
2 Agricultural implements -----	7	8,194,543	232,122	640,352	332,317	6,989,762		897	689,616	2,359	1,174,545
3 Bicycle and tricycle repairing -----	5	11,225	3,070	2,000	1,450	4,775	5			6	5,436
4 Blacksmithing and wheelwrighting -----	27	11,465	2,250	3,410	2,865	2,940	33			14	6,638
5 Boots and shoes, custom work and repairing -----	15	4,712	900	950	1,252	1,610	19			11	4,340
6 Bread and other bakery products -----	22	93,182	20,950	27,050	23,295	21,887	23	15	7,532	48	21,897
7 Carpentering -----	5	14,665	6,000	3,050	5,600	1,045	5			21	11,880
8 Carriages and wagons -----	5	6,015	100	100	2,215	3,600	8			22	9,564
9 Clothing, men's, custom work and repairing -----	16	36,813			1,688	35,125	20	3	1,302	92	37,245
10 Clothing, women's, dressmaking -----	5	8,285			1,735	1,550	5			16	2,700
11 Coffins, burial cases, and undertakers' goods -----	3	209,491	3,000	12,708	83,255	158,528	2	23	21,316	197	64,788
12 Confectionery -----	7	81,258			4,290	26,968	9	1	84	22	8,748
13 Dyeing and cleaning -----	5	7,625	1,500	1,300	1,635	3,190	5			17	4,270
14 Foundry and machine shop products -----	30	2,772,036	132,006	462,740	721,792	1,455,498	14	137	160,262	2,197	1,034,681
15 Millinery, custom work -----	9	17,670	1,000	500	295	15,875	10	14	2,300	26	6,005
16 Models and patterns -----	4	5,600		800	2,550	2,250	9			17	9,208
17 Painting, house, sign, etc -----	3	13,780	4,200	3,874	420	5,286	2	5	3,042	23	11,938
18 Patent medicines and compounds -----	6	125,131	7,000	5,000	11,477	101,654	5	33	37,576	16	6,442
19 Photography -----	7	5,900			4,875	1,025	8	1	250	7	2,509
20 Plumbing, and gas and steam fitting -----	5	52,756	7,500	200	3,627	41,429	9	6	4,484	47	20,395
21 Printing and publishing, book and job -----	8	87,140	16,000	6,000	44,634	20,506	9	6	6,250	106	44,591
22 Printing and publishing, newspapers and periodicals -----	7	478,305	11,700	87,300	210,262	169,043	1	45	60,449	362	164,375
23 Pumps, not including steam pumps -----	3	1,175			325	850	3			4	1,350
24 Saddlery and harness -----	4	12,290			400	11,890	4	2	1,800	13	6,090
25 Tinsmithing, coppersmithing, and sheet-iron working -----	11	44,300	17,800	8,400	4,800	13,300	10	2	1,272	22	12,102
26 Tobacco, cigars and cigarettes -----	11	11,110			1,610	9,500	14	1	600	33	13,876
27 Watch, clock, and jewelry repairing -----	9	7,200	400	375	3,675	2,750	9			9	5,450
28 All other industries ¹ -----	66	1,832,473	170,467	273,461	610,039	778,506	59	122	115,115	931	421,061

¹ Embraces awnings, tents, and sails, 1; bicycles and tricycles, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 2; boxes, cigar, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 2; brick and tile, 2; brooms and brushes, 2; carpets, rag, 2; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; electroplating, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 1; flouring and grist mill products, 2; food preparations, 1; furnishing goods, men's, 1; furniture, cabinetmaking, repairing, and upholstering, 1; furniture, factory product, 2; gas and oil stoves, 1; gas, illuminating and heating, 1; grindstones, 1; hardware, 1; ice, manufactured, 1; iron and steel, nails and spikes, cut

BY SPECIFIED INDUSTRIES: 1900—Continued.

LIMA.

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.										
1,838	\$970,530	384	\$80,073	1	\$177	\$277,408	\$32,167	\$18,663	\$180,647	\$45,931	\$4,156,028	\$4,008,348	\$147,680	\$6,705,136	1
4	1,221					1,059	656	23	380		4,249	4,132	117	10,197	2
14	7,167					1,227	1,596	50	809		8,328	7,826	502	31,716	3
6	3,000					1,324	1,083	8	288	10	6,807	6,736	71	16,362	4
15	7,072	3	936			3,107	1,938	118	1,051		24,013	23,097	916	47,891	5
27	13,178					12,094	242	23	154	11,675	26,362	26,242	120	69,816	6
32	19,334	48	11,963			5,218	3,972	292	954		24,708	24,328	380	83,885	7
18	4,700	24	4,000	1	177	3,481	1,480	175	1,826		52,095	51,399	698	86,620	8
15	6,500					2,994	300	461	2,233		163,954	162,494	1,460	131,742	9
225	131,595					12,663	276	2,808	9,570	9	142,549	136,880	5,669	396,923	10
2	690					1,071	832	12	230		2,393	2,353	85	6,900	11
8	3,480					442	120	210	112		3,932	3,487	445	11,200	12
3	1,312	16	4,093			5,099	2,855	369	1,875		38,954	38,954		57,305	13
26	14,770	1	400			1,824	1,036	15	598	125	4,997	4,992	5	13,840	14
3	1,006	1	180			1,849	1,500	68	281		23,982	23,852	130	54,518	15
51	21,702	6	1,794			1,153	600	20	533		4,535	4,355	180	12,450	16
4	2,392					311	60	78	173		6,985	6,930	55	12,975	18
10	3,984					1,534	819	116	599		7,158	7,123	30	15,821	19
30	13,857					2,526	1,306	143	1,077		32,511	32,069	442	59,702	20
75	41,780	245	47,145			46,160	1,178	305	44,677		138,824	138,767	57	306,699	21
26	13,984					1,105	405	376	324		25,320	21,310	3,510	74,000	22
5	2,370					1,699	1,007	10	332	350	2,419	2,374	45	10,359	23
1,244	650,376	40	9,557			156,080	4,195	12,219	106,189	33,447	3,385,183	3,253,322	131,861	5,000,776	24

brick and stone, 1; mattresses and spring beds, 1; mineral and soda waters, 2; monuments and tombstones, 1; painting, house, sign, etc., 2; paper and wood pulp, 1; patent medicines and compounds, 1; paving and paving materials, 2; petroleum, refining, 1; plated and britannia ware, 1; shirts, 1; slaughtering and meat packing, wholesale, 1; taxidermy, 1; wood, turned and carved, 2.

SPRINGFIELD.

6,119	\$3,041,460	496	\$115,055	23	\$3,604	\$1,286,798	\$55,322	\$73,470	\$1,129,968	\$23,038	\$5,569,261	\$5,425,039	\$144,172	\$12,777,173	1
2,317	1,160,320	42	14,225			585,962		45,162	540,800		2,222,540	2,173,093	44,447	5,272,635	2
6	8,436					1,094		259	345		5,607	5,521	86	14,565	3
14	6,638					2,382		65	129		8,361	7,389	975	39,937	4
11	4,340					821		22	76		4,614	4,512	102	17,107	5
43	20,847	5	1,050			7,943	3,241	639	4,063		78,935	75,646	3,289	150,419	6
21	11,880					12,222	118	100	6,004	6,000	17,654	17,236	418	67,320	7
22	9,564					2,209	2,068	101	40		9,741	9,460	281	29,437	8
44	23,760	48	13,485			9,841	5,110	300	3,096	1,335	41,527	41,217	310	117,675	9
168	57,961	16	2,700			985	882	9	94		2,074	1,968	106	9,150	10
		39	6,807			21,881	1,576	615	19,690		164,299	163,384	915	303,764	11
16	7,548	6	1,200			3,759	1,958	117	1,634		23,338	22,954	384	59,595	12
7	2,920	10	1,350			674	576	10	85		978	852	126	10,450	13
2,175	1,079,312	12	3,175	10	2,194	249,080	8,435	10,559	220,271	9,815	1,205,057	1,154,001	51,056	3,097,910	14
		26	6,005			4,730	3,516	193	1,071		25,064	24,839	175	51,920	15
17	9,208					522	370	52	100		1,277	1,018	259	14,850	16
23	11,963					1,503	240	54	1,209		9,023	8,932	91	32,350	17
10	5,220	6	1,222			18,035	913	679	16,493		32,325	31,457	868	121,554	18
3	1,400	4	1,100			2,511	1,827	35	649		8,929	8,766	163	24,330	19
47	20,395					6,237	1,840	643	3,754		95,904	95,577	327	128,758	20
83	33,221	23	6,370			4,606	1,297	862	2,447		61,571	60,151	1,420	130,239	21
245	135,249	115	23,866	2	260	146,555	3,656	1,984	140,915		274,808	271,640	3,168	714,214	22
4	1,350					585	522	8	55		962	932	30	4,275	23
13	6,090					1,605	1,200	206	200		16,597	16,527	70	27,900	24
22	12,102					2,076	1,600	227	249		24,501	24,034	557	53,825	25
26	12,610	7	1,235			9,920	1,211	50	8,659		32,217	31,962	255	69,446	26
9	5,450					1,319	860	61	398		2,689	2,623	66	15,500	27
783	393,646	187	26,265	11	1,150	187,730	8,997	15,458	157,337	5,838	1,193,076	1,164,348	33,728	2,193,007	28

and wrought, including wire nails, 1; ironwork, architectural and ornamental, 1; leather, tanned, curried, and finished, 1; lime and cement, 2; liquors, malt, 1; lock and gun smithing, 2; looking-glass and picture frames, 2; lumber, planing mill products, including sash, doors, and blinds, 2; marble and stone work, 1; mattresses and spring beds, 2; mineral and soda waters, 1; monuments and tombstones, 2; optical goods, 1; paper hangings, 2; photolithographing and photoengraving, 1; plastering and stuccowork, 1; roofing and roofing materials, 1; soap and candles, 1; steam fittings and heating apparatus, 1; stencils and brands, 1; sugar and molasses, refining, 1; washing machines and clothes wringers, 1; windmills, 1; wirework, including wire rope and cable, 1.

TABLE 8.—MANUFACTURES IN CITIES

TOLEDO.

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.
1 All industries	1,050	\$25,591,916	\$2,180,094	\$4,570,838	\$6,653,454	\$12,187,130	1,114	1,278	\$1,224,281	15,383	\$6,845,687
2 Awnings, tents, and sails	4	88,360	25,000	20,000	13,200	30,160	3	9	6,200	45	15,230
3 Baskets, and rattan and willow ware	3	3,800	1,100	800	1,200	700	3			14	6,008
4 Bicycle and tricycle repairing	25	20,982		100	4,530	16,352	32	1	216	20	7,015
5 Bicycles and tricycles	7	1,526,993	36,037	203,274	608,165	679,517	2	44	48,878	912	416,119
6 Blacksmithing and wheelwrighting	55	88,700	32,650	26,640	9,740	19,670	66	2	1,270	77	47,183
7 Bookbinding and blank book making	4	46,510			12,499	34,011	4	8	6,280	33	11,700
8 Boots and shoes, custom work and repairing	57	26,960	9,300	9,910	3,523	4,222	55			19	8,040
9 Bottling	5	70,558	14,000	16,000	6,650	33,908	2	12	13,200	49	28,040
10 Boxes, cigar	3	11,400			7,800	3,600	4			18	3,790
11 Bread and other bakery products	46	435,037	85,050	121,550	126,781	101,656	48	80	21,516	278	132,706
12 Brick and tile	11	393,312	116,467	126,103	48,950	101,792	16	8	6,636	288	135,851
13 Bridges	4	291,100	7,000	23,000	126,100	135,000	3	12	17,200	905	160,188
14 Brooms and brushes	5	126,245	1,650	750	51,886	68,959	5	12	14,816	196	58,370
15 Carpentering	51	153,705	21,025	48,400	17,665	66,615	58	6	5,500	497	247,034
16 Carpets, rug	6	12,315	2,850	3,670	3,400	2,915	5	2	2,400	18	6,938
17 Carriage and wagon materials	6	470,229	74,200	86,500	84,203	225,326	1	26	27,119	277	96,096
18 Carriages and wagons	10	1,817,369	103,000	294,006	115,141	1,805,222	12	39	42,720	524	183,616
19 Cars and general shop construction and repairs by steam railroad companies	8	833,111	25,225	92,175	76,631	139,080		40	31,463	606	843,048
20 Clothing, men's, custom work and repairing	68	197,200	11,550	17,725	13,285	154,640	81	9	3,370	285	124,019
21 Clothing, men's, factory product	8	9,900			4,400	5,500	6	1	1,050	80	18,380
22 Clothing, women's, dressmaking	16	5,850			1,750	4,100	18			105	29,356
23 Clothing, women's, factory product	4	203,811			18,331	185,480	8	14	24,585	623	170,606
24 Confectionery	15	72,304	1,800	2,100	11,929	56,475	19	27	12,816	86	31,281
25 Cooperage	13	18,235	4,180	3,230	1,800	9,025	15			22	12,023
26 Dyeing and cleaning	8	10,060	2,200	1,300	4,210	2,350	9			20	10,906
27 Electrical construction and repairs	7	29,432	2,000	2,500	5,355	19,577	11	1	240	40	22,259
28 Fancy articles, not elsewhere specified	3	26,311			4,341	21,500	2	2	1,500	20	7,073
29 Flouring and grist mill products	10	1,268,370	71,250	240,240	375,869	581,011	10	20	40,148	233	123,218
30 Foundry and machine shop products	27	1,945,058	96,867	370,831	465,010	1,012,350	22	139	117,843	1,991	970,143
31 Fur goods	3	41,392			1,712	39,650	4	6	920	38	9,690
32 Furniture, cabinetmaking, repairing, and upholstering	18	61,322	5,725	13,425	7,787	34,335	21	6	5,600	109	53,090
33 Furniture, factory product	8	359,537	36,200	62,000	90,103	171,234	11	61	36,594	342	148,233
34 Hand stamps	3	7,700			3,500	4,200	4			10	5,192
35 Hats and caps, not including fur hats and wool hats	3	13,869			1,982	11,887	3	6	4,550	37	11,000
36 Hosiery and knit goods	3	129,001	6,600	3,400	22,361	96,640		24	22,190	214	57,649
37 Jewelry	3	5,000			1,400	3,600	4	1		3	2,212
38 Lime and cement	7	77,927	5,000	2,000	11,074	59,853	7	15	7,100	40	18,750
39 Liquors, malt	6	2,169,000	216,000	780,000	386,000	807,000		47	76,070	263	150,799
40 Lock and gun smithing	4	1,900			760	1,150	5				
41 Looking-glass and picture frames	5	103,441	16,500	32,500	10,350	44,091	4	8	10,450	147	47,805
42 Lumber, planing mill products, including sash, doors, and blinds	14	653,686	101,156	108,595	122,568	321,367	3	37	32,897	364	153,253
43 Marble and stone work	6	49,200			14,300		7	1	110	34	22,910
44 Masonry, brick and stone	9	236,670	18,000	5,000	11,900	3,620	11	2	3,503	121	69,370
45 Millinery, custom work	65	121,994	7,000	8,550	13,225	92,019	68	11	7,010	214	51,336
46 Mineral and soda waters	3	27,600	5,000	7,000	7,300	7,800	6	4	2,740	24	12,500
47 Monuments and tombstones	5	60,480	9,000	3,950	6,450	41,080	6	8	6,146	36	24,758
48 Painting, house, sign, etc	42	50,250	6,715	7,050	12,833	23,622	47	4	1,780	167	90,322
49 Paints	4	216,047	11,302	12,200	21,187	171,858	3	21	17,761	28	12,891
50 Paper hanging	8	26,150			1,400	24,750	7	7	4,240	28	16,200
51 Patent medicines and compounds	7	166,593	27,000	51,700	3,025	84,808	6	13	10,888	42	13,478
52 Paving and paving materials	10	198,778	19,700	32,215	56,127	90,736	11	10	9,450	243	109,557
53 Petroleum, refining	3	886,735	53,277	184,045	215,230	434,183		27	33,174	96	55,163
54 Photography	18	23,890		300	17,915	5,675	21	2	510	21	8,042
55 Plumbing, and gas and steam fitting	38	194,054	5,300	9,900	32,465	146,389	57	28	16,439	182	117,639
56 Printing and publishing, book and job	24	243,690	15,000	16,000	160,725	56,965	27	36	23,257	208	96,746
57 Printing and publishing, newspapers and periodicals	14	431,798	500	2,000	302,450	126,848	8	63	54,263	319	197,352
58 Pumps, not including steam pumps	3	68,145		150	2,500	65,495	2	11	10,047	26	9,500
59 Roofing and roofing materials	4	36,748	5,000	5,000	6,176	20,572	4	5	2,872	32	15,400
60 Saddlery and harness	9	49,435	3,600	625	6,635	38,575	11	2	1,500	33	15,880
61 Ship and boat building, wooden	4	64,505	43,000	1,900	3,450	11,155	6			33	25,694
62 Smithing, coppersmithing, and sheet-iron working	51	599,257	33,040	71,600	111,021	383,596	59	41	42,964	641	237,399
63 Tobacco, cigars and cigarettes	50	75,570	14,425	12,825	3,941	44,379	52	5	3,040	127	57,743
64 Trunks and valises	3	34,800	1,200	2,000	2,950	28,650	5	11	9,200	62	20,280

BY SPECIFIED INDUSTRIES: 1900.

TOLEDO.

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.										
12,717	\$6,240,139	2,404	\$551,721	262	\$53,827	\$3,068,389	\$259,845	\$153,514	\$2,490,855	\$164,175	\$21,986,798	\$21,477,275	\$509,523	\$37,372,355	1
17	8,088	28	7,142			8,366	1,008	290	7,068		71,929	71,304	625	111,884	2
11	5,008	3	1,000			291	72	16	203		1,400	1,310	90	9,566	3
20	7,015					3,809	2,970	33	806		21,026	20,662	364	49,151	4
905	414,519	7	1,600			77,954	3,348	4,284	70,322		891,970	862,203	29,767	1,583,460	5
77	47,183					8,100	5,229	876	1,995		36,684	34,421	2,263	148,503	6
17	8,494	14	2,894	2	812	6,515	1,555	83	4,877		22,782	22,297	485	64,116	7
18	7,830	1	210			4,926	4,120	375	431		17,818	16,738	580	56,348	8
49	23,040					15,112	600	376	13,636		92,640	91,610	1,030	224,360	9
7	2,380	6	1,410			1,055	730	85	240		12,258	11,932	326	21,710	10
216	121,701	61	10,875	1	130	56,112	10,374	3,335	42,403		475,492	464,310	11,182	807,575	11
282	194,566			6	1,285	22,271	2,000	2,468	17,803		52,846	8,827	44,019	279,152	12
305	160,198					13,815	1,350	1,350	12,465		284,691	280,591	4,100	562,257	13
114	42,350	82	16,020			9,415	4,167	1,623	3,625		112,297	106,752	2,545	127,399	14
497	247,094					70,571	2,956	1,255	8,360	58,000	821,147	820,457	690	1,273,178	15
10	5,122	8	1,816			1,513	140	105	1,268		3,684	3,301	383	21,169	16
273	96,152	4	844			28,066	285	3,047	24,734		257,592	252,826	4,766	461,136	17
521	182,036	3	930			86,117	3,200	9,155	73,762		559,672	549,026	10,646	918,203	18
603	343,048					6,578	250	2,651	3,677		478,725	467,922	10,803	865,605	19
226	106,145	58	17,744	1	180	85,382	22,754	1,398	9,560	1,670	143,206	146,398	1,398	413,651	20
6	2,800	74	15,580			1,153	769	99	285		40,295	39,645	650	67,400	21
14	9,060	91	20,296			5,935	4,323	58	1,459	100	17,438	16,975	463	69,400	22
131	70,000	492	100,506			30,735	6,180	799	23,816		483,360	481,115	2,245	941,918	23
44	21,888	41	9,293	1	100	20,235	11,050	529	8,656		165,963	163,577	2,386	290,412	24
22	12,023					739	251	126	362		83,426	83,351	75	63,575	25
12	7,572	8	3,331			5,766	3,307	131	2,163	100	12,910	12,154	736	39,700	26
38	21,071	2	1,188			3,798	2,268	144	1,386		69,337	69,472	365	119,850	27
7	2,475	13	4,598			3,775	1,820	80	1,875		16,805	16,295	510	37,028	28
230	122,618	3	600			100,918	2,272	6,948	91,698		4,033,921	4,009,080	24,841	4,458,749	29
1,980	968,887			1	156	248,170	17,638	12,151	208,178	6,200	1,130,157	1,053,260	76,897	2,715,618	30
7	3,480	31	6,200			4,576	3,416	110	1,050		24,263	24,203	50	61,991	31
94	48,940	15	4,150			6,156	3,610	651	1,895		98,810	98,480	330	202,825	32
330	144,697			12	3,536	50,166	4,425	3,222	42,469	50	129,065	123,910	5,155	418,337	33
9	4,932	1	260			1,430	836	52	625		2,360	2,220	140	13,025	34
20	6,900	17	4,100			1,273	636	62	590		30,185	29,342	343	47,116	35
4	2,268	208	54,981	2	400	15,270	2,250	868	12,152		66,136	65,014	1,122	172,700	36
2	2,160			1	52	1,797	925	47	225	600	4,413	4,376	37	12,893	37
33	17,350	7	1,400			13,369	2,516	569	10,084	200	64,651	63,021	1,630	128,680	38
250	150,199	3	600			688,252	21,498	666,754	20,208		329,005	296,239	33,334	1,458,593	39
122	40,605	25	7,200			484	464	1	19		505	424	81	3,700	40
364	153,253					8,318	1,010	1,033	6,275		88,249	87,371	876	114,600	41
34	22,910					3,398	2,140	586	672		25,872	24,197	1,675	64,648	43
121	69,370					95,688	400	153	5,035	90,000	113,815	113,430	325	343,600	44
8	830	211	50,504			32,181	22,734	370	8,477		144,017	142,586	1,461	305,419	45
28	12,000	1	500			6,219	720	297	5,202		25,214	24,587	677	58,207	46
36	24,758					10,146	60	387	8,199	1,500	30,505	29,938	632	83,347	47
166	90,192			1	130	11,617	5,533	377	5,707		57,076	57,797	279	208,911	48
26	12,423	2	468			16,268	1,400	555	14,313		119,845	118,220	1,725	196,038	49
28	16,260					8,923	2,376	182	1,365		31,225	31,140	85	75,436	50
17	6,844	25	6,634			219,127	2,860	986	215,781		85,192	84,420	772	436,350	51
243	109,557					7,463	120	623	6,720		166,925	163,792	3,133	349,917	52
96	55,163					78,735	3,491	89,841	75	400	1,047,042	995,654	52,288	1,392,745	53
16	6,911	4	906	1	225	8,360	6,110	210	1,955		12,733	12,237	496	82,014	54
179	116,869	3	820			22,841	12,089	1,005	8,747	1,000	319,479	317,829	1,650	577,433	55
170	87,259	87	9,357	1	130	30,551	9,569	1,493	19,189	300	120,109	116,747	4,362	337,239	56
287	187,891	31	9,957	1	104	60,040	9,850	1,514	44,471	4,705	145,164	138,229	6,955	580,512	57
26	9,500					3,039	1,030	184	1,825		51,245	51,325	20	87,892	58
32	15,400					3,456	404	82	2,970		31,966	31,408	500	64,889	59
33	15,880					4,829	2,994	337	1,498		36,910	36,375	535	74,245	60
53	25,694					494	30	44	145	275	24,742	24,310	432	65,950	61
407	190,651	158	32,416	76	14,302	31,354	8,690	3,457	19,207		927,972	920,829	7,143	1,435,089	62
110	53,297	17	4,416			31,656	3,907	417	27,832		74,274	73,874	400	211,235	63
55	18,950	5	1,070	2	260	9,415	1,050	395	7,970		53,280	52,970	310	98,500	64

TABLE 8.—MANUFACTURES IN CITIES

TOLEDO—Continued.

	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.
65	Watch, clock, and jewelry repairing	23	\$15,985	\$2,500	\$2,150	\$5,500	\$3,885	22	2	\$1,500	19	\$12,586
66	Wirework, including wire rope and cable.	4	11,554		500	6,611	4,443	3	4	2,160	10	3,222
67	Wood, turned and carved	3	3,550		1,200	1,450	900	3			4	1,750
68	All other industries ¹	79	8,345,916	767,303	1,419,074	2,744,402	3,415,167	71	280	311,763	3,380	1,463,000

¹Embraces agricultural implements, 1; artificial limbs, 1; billiard tables and materials, 1; boxes, fancy and paper, 2; boxes, wooden packing, 2; brass castings and brass finishing, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 1; cheese and butter, urban dairy product, 1; cheese, butter, and condensed milk, factory product, 1; coffee and spice, roasting and grinding, 2; corsets, 2; cutlery and edge tools, 1; drug grinding, 1; electrical apparatus and supplies, 1; electroplating, 1; engraving and die-making, 1; engraving, wood, 1; fertilizers, 1; flavoring extracts, 1; food preparations, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 2; glass, 2; gloves and mittens, 1; horseshoes, factory product, 1; instruments, professional and scientific, 2; iron and steel, 1; iron and steel, pipe, wrought, 1; ironwork, architectural

YOUNGSTOWN.

		260	\$22,360,097	\$1,634,360	\$3,081,032	\$10,834,301	\$6,810,404	253	434	\$102,823	9,150	\$4,951,460
1	All industries											
2	Bicycle and tricycle repairing	6	5,425		100	2,500	2,825	8			6	2,785
3	Blacksmithing and wheelwrighting	20	26,052	11,550	5,440	2,020	7,042	25			23	13,778
4	Boots and shoes, custom work and repairing.	12	3,918	1,400	426	1,200	892	12			3	1,475
5	Bread and other bakery products	10	50,690	25,500	10,400	2,680	12,110	12			36	17,430
6	Carrriages and wagons	7	163,835	28,400	42,250	20,810	72,375	8	13	14,960	82	38,144
7	Clothing, men's, custom work and repairing.	21	44,657		2,500	3,213	38,944	22	3	2,450	106	51,838
8	Clothing, women's, dressmaking	3	700			375	825	4			7	1,475
9	Confectionery	4	7,045		100	4,500	2,445	4	2	1,010	12	4,537
10	Dyeing and cleaning	3	9,050	2,000	2,000	4,400	650	3			7	2,760
11	Foundry and machine shop products	12	1,460,340	133,125	244,716	503,280	574,219	4	65	74,341	789	430,828
12	Furniture, cabinetmaking, repairing, and upholstering.	3	2,030		400	630	1,000	4			4	2,100
13	Iron and steel	11	17,541,854	1,105,000	2,240,000	9,319,500	4,877,351		224	268,096	6,614	3,717,366
14	Looking-glass and picture frames	5	11,340	5,000	2,100	500	3,650	6			4	1,800
15	Lumber, planing mill products, including sash, doors, and blinds.	7	303,793	41,200	28,867	27,419	203,309	10	17	14,862	175	85,066
16	Millinery, custom work	16	29,465	2,000	3,500	1,040	22,925	18	1	900	69	15,102
17	Mineral and soda waters	4	8,850	1,625	2,000	2,500	2,225	3	1	150	10	3,700
18	Painting, house, sign, etc	10	3,460		150	1,300	2,010	12			31	16,317
19	Paving and paving materials	3	14,850	1,500	350	6,775	6,224	5	2	1,200	14	8,987
20	Photography	6	6,825		2,000	2,400	2,125	8			7	3,842
21	Plumbing, and gas and steam fitting	5	70,050	17,500	10,500	4,350	37,700	6	5	4,161	70	36,702
22	Printing and publishing, book and job	4	44,685			17,650	27,035	3	5	4,700	16	8,180
23	Printing and publishing, newspapers and periodicals.	4	133,200	10,000	30,000	63,843	29,357	2	12	12,109	90	58,550
24	Roofing and roofing materials	11	67,225	3,500	9,300	19,500	34,925	10	6	6,600	58	29,462
25	Saddlery and harness	5	16,325	3,500	2,200	1,850	8,775	4	2	1,100	14	8,370
26	Tinsmithing, coppersmithing, and sheet-iron working.	6	40,641	3,000	3,481	15,302	18,318	5	5	5,520	58	16,378
27	Tobacco, cigars and cigarettes	9	15,455	500	500	605	13,850	11			24	12,519
28	Watch, clock, and jewelry repairing	11	5,911			3,660	2,251	8			10	5,235
29	All other industries ¹	42	2,273,224	280,060	437,802	799,518	805,644	36	71	80,640	786	356,234

¹Embraces bookbinding and blank book making, 1; bottling, 1; brass castings and brass finishing, 1; brick and tile, 1; brooms and brushes, 1; carpentering, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars, steam railroad, not including operations of railroad companies, 1; china decorating, 1; clothing, men's, factory product, 1; cooperage, 2; electrical apparatus and supplies, 2; flouring and grist mill products, 1; food preparations, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; ice, manufactured, 1; iron and steel, bolts, nuts, washers, and rivets, 1; iron and steel,

ZANESVILLE.

		298	\$5,162,067	\$423,580	\$1,016,554	\$1,172,137	\$2,549,846	336	424	\$319,864	4,603	\$1,786,005
1	All industries											
2	Bicycle and tricycle repairing	3	1,005			370	635	3			4	1,375
3	Blacksmithing and wheelwrighting	15	15,789	7,470	1,625	1,992	4,702	18			18	7,380
4	Boots and shoes, custom work and repairing.	15	11,258	2,250	3,310	956	4,737	17	1	600	9	3,818
5	Bread and other bakery products	6	275,740	11,800	7,900	196,794	59,246	6	24	18,569	104	34,784
6	Carpentering	16	33,918	4,325	6,950	1,370	21,278	20			60	31,463
7	Carpets, rag	4	1,552	200	400	505	447	5			3	570
8	Carrriages and wagons	5	21,000	2,500	4,000	5,500	9,000	8	1	120	23	9,909
9	Cars and general shop construction and repairs by steam railroad companies.	6	97,082	9,460	43,640	19,982	24,020		11	8,782	303	157,612
10	Clothing, men's, custom work and repairing.	13	59,281	5,000	5,000	443	48,838	16	6	4,350	100	32,280
11	Clothing, women's, dressmaking	12	4,319	1,040	1,330	678	771	14			23	4,597
12	Confectionery	9	32,258	1,400	8,450	6,100	16,303	10	9	3,098	23	8,392
13	Flouring and grist mill products	7	131,791	10,626	24,590	31,300	65,275	13	4	2,225	19	10,175
14	Foundry and machine shop products	6	353,698	62,500	62,333	109,450	119,415	12	15	13,213	150	70,281
15	Furniture, cabinetmaking, repairing, and upholstering.	5	159,618	5,200	5,950	2,715	5,753	7	11	6,800	25	11,236
16	Liquors, malt	4	78,400	10,000	25,000	23,100	20,300	4	4	2,210	23	13,096

BY SPECIFIED INDUSTRIES: 1900—Continued.

TOLEDO—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.									
16	\$11,686	3	\$850			\$4,882	\$1,064	\$241	\$577		\$0,390	\$6,051	\$345	\$41,690
8	2,928	2	294			1,606	821	85	750		2,957	2,681	276	13,161
4	1,780					244	141	8	95		849	775	74	4,900
2,628	1,293,229	599	137,196	153	\$32,575	671,085	22,581	46,007	602,497		6,113,431	5,970,586	142,845	9,321,461

and ornamental, 2; liquors, vinous, 2; lumber and timber products, 2; mattresses and spring beds, 2; models and patterns, 1; mucklage and paste, 1; musical instruments and materials, not specified, 2; musical instruments, pianos and materials, 1; oil, linseed, 2; oil, not elsewhere specified, 1; optical goods, 2; paper and wool pulp, 1; perfumery and cosmetics, 2; photographic materials, 1; plastering and stuccowork, 1; pottery, terra cotta, and fire-clay products, 1; rubber and elastic goods, 2; saws, 1; scales and balances, 1; shipbuilding, iron and steel, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; stereotyping and electrotyping, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; toys and games, 1; wheelbarrows, 1; windmills, 1; woodenware, not elsewhere specified, 1.

YOUNGSTOWN.

8,905	\$4,855,779	226	\$61,824	19	\$3,857	\$968,636	\$40,806	\$32,383	\$868,908	\$6,539	\$23,541,769	\$21,489,503	\$2,052,266	\$34,801,101	1
6	2,785					752	696	6	110		2,193	2,006	187	7,080	
23	13,778					2,103	1,670	172	261		11,507	10,979	528	50,825	
3	1,475					601	536	25	40		3,770	3,635	135	10,975	
29	15,690	7	1,740			2,721	1,968	395	358		33,804	37,313	1,491	81,940	
82	38,144					10,639	390	1,723	8,556		83,885	82,705	1,180	202,955	
70	40,321	35	11,367	1	150	7,619	6,401	120	1,095		65,282	64,881	351	158,854	
		7	1,475			490	444		46		660	625	35	3,950	
9	4,037	3	500			785	620	2	163		21,111	20,437	674	41,810	
5	1,760	2	1,000			1,002	244	58	700		1,608	1,163	445	8,420	
789	430,823					95,375	1,435	5,380	84,560	4,000	865,825	836,582	29,243	1,800,001	
4	2,100					607	630	5	32		2,435	2,400	35	9,315	
6,629	\$3,714,301			15	3,062	634,152		28,978	605,174		19,988,613	18,028,364	1,960,249	28,203,856	
3	1,550			1	250	1,145	775	76	294		7,019	6,922	87	19,700	
175	85,066					9,156	700	2,694	5,762		338,077	336,150	1,927	513,437	
		69	15,102			5,754	4,925	99	730		75,447	75,060	387	122,579	
9	3,450			1	250	881	360	351	120		9,511	9,246	265	19,590	
31	16,817					1,814	1,068	20	226		7,983	7,966	17	96,053	
14	8,987					208	208	58	150		18,432	18,382	50	80,801	
4	3,104	3	738			1,815	1,574	32	209		4,945	4,580	365	13,684	
70	36,702					3,100	1,800	285	1,015		78,212	77,859	353	154,436	
10	6,180	6	2,000			3,996	1,722	215	2,059		6,761	5,995	766	44,160	
84	56,016	6	2,531			6,024	1,355	833	3,636	200	42,345	41,007	1,388	143,800	
58	29,462					4,794	1,771	555	2,468		231,243	230,430	813	319,118	
14	8,370					1,613	658	186	769		9,277	9,190	87	29,850	
30	10,576	23	5,802			6,262	474	502	5,286		79,605	78,954	651	130,000	
20	10,853	4	1,666			3,013	1,365	35	6,613		12,211	12,021	190	39,138	
10	5,235					1,709	1,430	40	239		2,950	2,847	103	10,782	
724	338,189	61	17,900	1	115	155,931	5,882	9,538	188,172	2,330	1,532,078	1,481,764	50,314	2,578,953	

Forgings, 1; iron and steel, pipe, wrought, 1; ironwork, architectural and ornamental, 1; lime and cement, 2; liquors, malt, 2; lock and gun smithing, 1; masonry, brick and stone, 2; mattresses and spring beds, 1; models and patterns, 1; monuments and tombstones, 2; musical instruments and materials, not specified, 1; photolithography and photoengraving, 1; pottery, terra cotta, and fire-clay products, 1; printing and publishing, music, 1; tools, not elsewhere specified, 2.

ZANESVILLE.

3,590	\$1,582,638	1,000	\$201,505	13	\$1,962	\$365,938	\$31,801	\$39,284	\$291,772	\$2,421	\$3,756,489	\$3,511,162	\$245,327	\$7,408,839	1
3	1,275			1	100	951	880	47	554		1,686	1,615	71	5,262	
18	7,890					1,312	754	163	395		8,400	7,909	491	33,000	
9	8,818					849	608	58	188		4,708	4,581	127	17,190	
79	30,213	25	4,571			19,249	3,660	1,150	14,439		168,383	164,964	3,419	289,405	
60	31,463					1,621	108	111	402	1,000	118,003	112,866	137	167,293	
1	325	2	245			247	180	4	63		1,149	1,096	53	4,095	
23	9,909					1,099	455	122	492		8,050	7,838	662	28,520	
303	157,612					2,776		1,812	964		318,613	309,042	4,571	482,783	
31	15,367	60	10,863			5,983	3,329	379	1,775	500	45,680	45,368	312	115,204	
		28	4,597			797	600	30	167		2,527	2,378	154	14,376	
13	5,636	15	2,856			3,653	2,312	302	1,039		30,306	29,657	649	71,612	
18	9,513	1	262			4,522	617	1,295	2,610		128,481	127,339	1,092	163,710	
150	70,331					11,584	1,220	1,392	8,472		64,382	59,387	4,995	172,231	
25	11,286					1,009	290	56	663		7,169	6,898	271	41,020	
23	13,096					48,167		1,491	46,676		26,723	23,103	3,620	105,604	

TABLE 8.—MANUFACTURES IN CITIES

ZANESVILLE—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES 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.
17 Looking-glass and picture frames.....	4	\$1,590			\$165	\$1,125	6	3	\$1,560	4	\$1,200
18 Lumber and timber products.....	4	30,200	\$7,400	\$1,700	11,300	6,800	7	2	1,600	50	19,065
19 Lumber, planing mill products, including sash, doors, and blinds.	3	147,500	25,000	22,000	23,100	77,400	11	11	8,770	53	22,632
20 Masonry, brick and stone.....	7	52,092	2,380	2,890	16,697	30,125	12	2	475	214	114,096
21 Millinery, custom work.....	15	18,752	400	475	727	17,150	20	6	1,380	23	5,334
22 Painting, house, sign, etc.....	14	5,223			960	4,263	17	3	452	37	17,581
23 Paving and paving materials.....	3	131,024	24	100	45,800	85,100	3	6	9,980	119	54,125
24 Photography.....	4	6,550			4,400	1,650	5	2	1,120	6	2,280
25 Plastering and stucco work.....	3	4,040	600	1,150	400	1,890	4			4	1,815
26 Plumbing, and gas and steam fitting.....	6	31,960	6,000	10,000	4,069	14,891	8	4	930	43	21,732
27 Pottery, terra cotta, and fire-clay products.	10	1,046,408	45,000	380,508	175,790	445,105	7	132	108,600	1,462	465,216
28 Printing and publishing, book and job.	6	9,700			5,850	8,850	7			10	3,106
29 Printing and publishing, newspapers and periodicals.	6	195,635	14,000	19,600	61,507	40,528	6	19	10,998	96	41,569
30 Saddlery and harness.....	4	8,975			1,075	7,900	5	1	800	8	4,670
31 Shirts.....	3	17,530	800	4,000	2,500	10,250	2	6	3,720	70	13,618
32 Tinsmithing, coppersmithing, and sheet-iron working.	9	12,105	1,080	2,305	1,925	6,765	12			17	8,995
33 Tobacco, cigars and cigarettes.....	12	6,961	605	760	1,480	4,116	14	5	2,340	41	11,858
34 Watch, clock, and jewelry repairing.....	6	3,003			1,315	1,688	4			8	3,418
35 All other industries ¹	48	2,853,605	180,470	367,058	411,537	1,388,510	44	136	112,158	1,441	576,782

¹ Embraces agricultural implements, 1; bookbinding and blank book making, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brick and tile, 2; carriage and wagon materials, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 1; corluge and twine, 2; dyeing and cleaning, 2; electrical construction and repairs, 1; electroplating, 1; engraving, wood, 1; flavoring extracts, 2; fruits and vegetables, canning and preserving, 1; furniture, factory product, 1; gas, illuminating and heating, 1; glass, 2; glass, cutting, staining, and ornamenting, 1; hammocks, 1; hand knit goods, 1; ice,

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and villages.....	7,689	\$143,880,261	\$10,926,801	\$26,351,910	\$10,452,231	\$66,749,729	8,511	6,436	\$6,080,459	86,859	\$38,256,099
2 Alliance.....	145	5,804,083	344,740	1,289,654	1,402,961	2,767,598	158	136	120,703	1,749	784,989	
3 Ashitabula.....	90	704,127	65,305	85,286	295,839	317,697	80	48	35,763	440	188,562	
4 Athens.....	39	306,632	14,810	90,038	62,117	140,167	45	30	17,554	215	95,365	
5 Barborton.....	27	3,366,886	445,028	561,399	765,508	1,586,451	26	65	96,423	1,115	461,082	
6 Barnesville.....	50	503,124	31,974	126,066	97,230	247,864	68	31	22,276	418	183,033	
7 Bellaire.....	94	3,612,811	155,545	677,319	2,134,276	645,671	97	88	114,520	2,141	923,305	
8 Bellefontaine.....	101	620,585	69,800	106,860	192,538	251,837	119	50	35,578	713	311,942	
9 Bellvue.....	38	601,742	29,222	81,988	69,496	481,030	37	34	37,286	301	125,986	
10 Bridgeport.....	23	1,717,473	85,500	285,500	1,046,939	299,534	23	74	84,757	1,614	911,421	
11 Bryan.....	59	315,671	18,148	75,225	77,899	144,399	75	10	3,392	180	73,054	
12 Bucyrus.....	91	1,011,051	216,569	216,569	276,841	439,163	103	62	54,192	751	338,535	
13 Cambridge.....	65	1,201,662	62,625	132,340	416,555	580,142	74	63	55,077	849	523,339	
14 Canal Dover.....	75	1,981,888	99,673	440,395	583,861	807,909	79	62	84,215	1,507	721,242	
15 Carthage.....	24	464,420	16,750	65,650	78,400	243,620	27	21	20,840	369	143,361	
16 Celina.....	34	149,000	9,340	35,300	51,310	52,550	43	14	9,302	153	58,314	
17 Chillicothe.....	115	914,447	98,600	198,510	244,956	372,291	123	75	37,368	1,223	454,644	
18 Circleville.....	83	1,168,592	95,525	231,375	369,493	468,690	113	50	28,911	680	221,470	
19 Conneaut.....	68	595,115	74,670	111,003	146,725	262,712	87	31	35,375	651	255,694	
20 Coshocton.....	48	806,023	30,975	95,591	320,235	359,222	44	127	108,360	1,083	339,120	
21 Cuyahoga Falls.....	27	906,439	68,300	111,200	447,845	279,094	32	38	42,340	522	259,292	
22 Defiance.....	100	1,141,426	66,460	160,338	216,065	698,573	115	51	50,116	936	356,951	
23 Delaware.....	69	566,506	38,700	74,475	216,995	236,426	82	48	36,643	655	248,446	
24 Delphos.....	59	869,524	40,125	55,883	110,601	162,915	72	10	6,801	286	119,202	
25 Dennison.....	33	378,143	9,926	97,710	154,287	116,220	34	57	43,641	492	524,693	
26 East Liverpool.....	162	5,056,198	600,133	1,279,063	865,271	2,311,731	173	294	292,185	4,473	2,150,938	
27 Elmwood Place.....	23	770,096	32,300	104,660	188,348	494,288	26	24	33,500	301	153,168	
28 Elyria.....	76	1,778,819	81,290	262,573	468,255	966,701	60	94	89,379	968	391,841	
29 Findlay.....	252	2,152,202	109,637	485,604	580,657	976,254	309	131	99,324	1,478	633,505	
30 Fostoria.....	92	1,532,627	74,212	352,171	532,691	573,553	97	72	56,918	795	273,529	
31 Franklin.....	39	448,290	93,160	98,560	129,855	126,625	39	20	19,530	296	119,118	
32 Fremont.....	156	2,616,545	140,922	436,394	600,390	1,438,269	185	165	188,641	1,504	599,286	
33 Gallon.....	65	916,488	73,200	224,161	203,624	415,503	69	55	35,401	891	367,410	
34 Gallipolis.....	89	491,907	47,050	74,150	124,560	246,147	91	35	24,602	458	159,479	
35 Greenville.....	97	349,412	18,400	28,020	105,932	197,060	119	16	8,438	330	109,192	
36 Hillsboro.....	48	331,539	20,450	44,912	74,445	191,732	49	28	29,029	293	114,135	
37 Ironton.....	112	3,321,210	334,383	570,881	1,072,844	1,343,111	105	98	108,457	1,758	767,394	
38 Jackson.....	43	454,008	34,339	99,050	41,545	278,574	44	14	11,365	147	60,368	
39 Kent.....	59	723,218	29,733	227,708	216,454	249,323	60	24	18,836	945	405,237	
40 Kenton.....	95	886,687	85,025	178,083	194,356	429,223	100	59	47,068	653	266,299	
41 Lancaster.....	100	1,537,272	130,541	307,567	322,741	776,423	103	81	68,017	1,287	614,609	
42 Lebanon.....	72	223,705	8,176	24,425	102,085	89,020	77	6	2,229	179	84,902	
43 Leetonia.....	32	2,121,818	40,680	614,882	443,010	1,023,246	36	34	41,846	496	280,163	
44 Lockland.....	56	2,313,049	349,550	644,750	442,773	875,976	51	68	99,977	596	230,750	
45 Lorain.....	59	12,343,937	863,739	2,699,569	3,625,720	5,154,909	57	116	111,880	2,221	1,115,589	
46 Mansfield.....	251	5,760,746	220,725	567,027	981,780	3,991,214	293	354	317,359	3,160	1,217,457	

BY SPECIFIED INDUSTRIES: 1900—Continued.

ZANESVILLE—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.									
2	\$800	2	\$400			\$688	\$556	\$29	\$58		\$2,950	\$2,917	\$83	\$9,101
50	19,065					1,076	36	450	590		51,128	51,128		102,000
53	22,632					7,091	300	2,042	4,749		92,937	91,900	1,037	142,510
214	114,096					2,244	48	182	1,864	\$200	131,486	130,816	670	351,150
		22	6,227	1	\$107	4,386	3,319	204	868		37,845	37,520	325	54,040
37	17,581					1,084	850	18	155	11	10,472	10,367	105	43,134
118	54,000			1	125	5,158	836	498	4,159	160	71,630	69,310	2,320	143,659
3	1,035	3	645			1,804	1,041	37	720		7,062	6,872	190	20,510
4	1,815					58		26	32		3,351	3,327	24	7,811
43	21,732					2,696	1,015	478	1,203		17,756	17,583	173	57,559
950	301,591	511	103,385	1	240	82,504	216	9,321	72,967		438,720	380,679	58,041	1,245,262
7	2,631	1	175			1,040	805	99	136		2,821	2,592	229	19,940
82	35,194	14	6,375	2	300	7,895	846	742	6,247		19,687	18,540	1,287	124,031
8	4,670					1,802	1,390	99	313		9,568	9,426	137	22,814
4	1,418	60	12,200			1,606	240	42	1,324		42,800	42,642	158	70,172
17	8,995					1,976	1,012	113	551	800	16,406	16,083	318	35,232
28	9,171	13	2,682			11,380	1,744	109	9,527		16,122	15,908	210	52,641
6	3,080	1	208	1	130	1,027	600	48	379		1,461	1,333	123	9,284
1,208	585,008	227	40,814	6	900	126,139	2,969	15,885	107,035	250	1,858,062	1,698,718	159,344	3,240,282

manufactured, 1; iron and steel, 2; leather, tanned, curried, and finished, 2; lime and cement, 1; liquors, distilled, 1; lock and gun smithing, 1; mineral and soda waters, 2; monuments and tombstones, 2; patent medicines and compounds, 1; roofing and roofing materials, 2; slaughtering and meat packing, wholesale, 1; soap and candles, 2; tobacco, chewing, smoking, and snuff, 1; umbrellas and canes, 1; woolen goods, 1.

VILLAGES UNDER 20,000 IN POPULATION: 1900.

78,579	\$35,328,344	11,920	\$2,702,050	1,351	\$225,099	\$12,660,971	\$712,936	\$707,374	\$10,488,016	\$757,615	\$110,837,884	\$103,111,512	\$7,226,372	\$199,775,174	1
1,614	748,601	123	34,387	12	1,998	160,343	12,074	8,325	138,380	464	1,906,204	1,846,748	59,456	3,730,144	2
590	176,891	49	12,472	1	196	67,950	8,219	4,377	23,328	32,031	575,249	563,438	11,811	997,818	3
192	90,021	18	5,172	5	672	27,071	3,203	3,389	14,701	6,378	158,314	146,957	12,357	366,052	4
981	422,556	174	37,326	10	1,200	823,720	924	14,883	308,413		1,804,453	1,738,641	70,812	3,256,844	5
308	166,724	103	15,312	7	997	37,903	2,754	3,794	30,914	441	358,674	344,536	14,138	657,060	6
1,838	854,682	243	58,026	60	9,997	250,403	7,904	15,875	226,606	18	6,129,193	5,418,518	710,675	9,150,462	7
618	301,079	52	9,379	13	1,484	44,706	9,394	6,919	22,793	5,600	662,703	641,592	21,111	1,189,201	8
278	120,872	10	2,602	13	2,512	25,057	2,967	1,947	20,143		530,671	533,003	6,668	884,880	9
1,404	685,576	62	15,315	58	10,530	61,653	1,924	14,608	44,986	100	2,874,661	2,798,456	76,205	4,798,847	10
156	60,103	22	3,076	2	275	24,232	3,398	1,313	13,501	20	208,349	203,492	4,857	336,757	11
679	328,229	56	8,974	16	1,332	73,535	7,542	8,166	55,327	2,000	557,220	541,930	15,290	1,300,327	12
809	613,685	60	9,754	13	1,484	82,401	5,062	5,458	71,356	625	1,438,670	1,393,929	44,841	2,459,368	13
1,462	711,478	31	7,065	14	2,099	123,719	3,290	6,233	98,941	20,200	2,026,574	1,822,186	204,388	3,380,494	14
363	141,041	6	2,320			802,443	1,453	1,760	799,240		415,216	399,510	15,706	1,557,273	15
129	54,797	20	3,013	4	604	11,881	2,764	1,170	7,022	925	235,619	232,536	3,083	410,097	16
945	414,357	204	39,096	14	1,191	96,614	11,666	8,632	76,266		914,565	896,898	17,767	1,709,835	17
642	202,027	108	15,613	36	3,230	59,518	7,084	7,659	44,175	600	1,273,874	1,234,472	39,402	1,938,996	18
642	268,718	109	21,916			36,192	6,254	2,913	27,020		540,056	530,737	9,319	1,008,423	19
674	251,810	409	87,208	5	644	65,047	3,009	5,642	56,396	1,000	778,216	746,465	31,750	1,438,912	20
507	250,464	14	2,773	1	65	58,794	940	3,613	54,241		921,147	891,947	29,200	1,462,767	21
816	334,316	110	22,175	4	460	87,931	11,837	10,994	64,950	150	814,712	793,961	15,751	1,609,834	22
505	216,161	148	32,105	2	180	57,183	10,349	4,191	42,648		351,467	341,973	9,494	646,645	23
266	116,327	19	3,725	1	150	37,197	2,982	3,709	30,006	500	225,298	209,135	16,793	519,730	24
878	321,623	14	3,065			73,480	1,485	5,099	66,545	350	584,398	567,565	16,831	1,235,334	25
3,323	1,835,091	1,107	306,372	43	3,975	341,135	19,734	17,376	192,443	111,532	1,769,408	1,534,104	225,304	5,459,043	26
208	152,576	1	200	2	392	8,227	1,045	2,151	5,031		441,813	440,146	1,667	743,686	27
805	363,025	144	27,272	19	1,644	137,958	9,232	8,604	109,572	10,500	999,280	981,251	18,027	1,700,500	28
1,269	592,031	195	39,612	14	1,859	165,613	20,854	10,850	104,938	23,361	1,122,537	1,054,654	67,883	2,514,356	29
580	219,794	264	53,610	1	225	64,560	7,631	7,157	39,412	300	2,103,515	2,030,308	48,207	2,645,205	30
192	93,321	104	35,207			15,391	1,334	3,623	10,329		521,908	494,357	26,951	834,036	31
1,036	490,858	462	103,209	6	719	182,323	10,905	9,665	128,970	2,733	1,322,880	1,282,375	40,605	2,621,951	32
358	359,858	30	7,182	3	370	63,900	4,374	6,471	49,331	3,730	679,921	668,775	11,146	1,309,129	33
415	152,403	37	6,474	6	602	64,833	6,667	4,533	43,333	235	398,432	391,607	6,825	731,063	34
222	80,210	106	22,714	2	268	24,931	3,143	9,590	3,143	54	377,401	372,342	5,059	642,503	35
260	109,151	33	4,984			18,140	3,636	2,553	11,551		305,399	293,104	12,295	574,333	36
1,670	749,692	84	17,359	4	348	173,236	12,235	22,610	105,677	37,714	3,299,905	2,849,804	450,101	5,715,112	37
123	56,427	16	3,501	3	432	16,839	3,391	3,153	9,150	700	256,791	180,344	76,447	510,111	38
875	330,101	69	15,386	1	250	18,195	5,231	5,008	7,833	25	1,078,937	1,065,325	14,112	1,599,562	39
592	251,871	61	14,423			94,815	9,576	5,962	73,326	451	540,074	528,347	13,727	1,113,829	40
865	495,557	319	96,282	103	22,770	97,284	3,032	6,162	73,030	10,000	1,197,266	1,173,850	19,136	2,219,695	41
159	80,394	18	4,388	2	150	9,400	4,211	1,268	3,921		334,820	330,810	4,010	571,332	42
488	278,537	6	1,300	2	325	102,977	5,574	5,220	97,138		1,943,900	1,850,209	593,691	2,725,457	43
2,599	221,332	24	6,646	13	2,322	223,010	4,391	14,905	73,664	135,050	1,232,579	1,180,391	51,643	2,300,960	44
2,098	1,035,516	83	20,494	40	9,379	615,457	3,231	16,734	578,532	13,370	6,544,799	5,792,073	752,721	9,547,952	45
2,460	1,078,027	692	133,013	8	1,417	307,132	30,171	22,294	254,017	700	8,195,033	8,122,063	72,970	7,084,509	46

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.
47 Marietta.....	278	\$2,180,345	\$295,955	\$353,394	\$459,272	\$1,080,724	335	151	\$122,607	2,183	\$938,315
48 Marion.....	84	3,340,321	345,525	408,979	348,579	2,237,237	78	132	126,013	1,552	699,065
49 Martins Ferry.....	50	1,802,871	167,055	287,208	663,281	685,327	56	59	66,888	967	543,416
50 Marysville.....	47	179,325	20,500	27,775	47,120	89,930	68	9	5,950	236	82,699
51 Massillon.....	134	4,444,400	325,928	505,281	972,200	2,637,988	149	122	121,335	1,836	914,245
52 Miamisburg.....	66	1,500,248	45,990	189,233	199,797	1,065,228	64	53	64,199	1,006	400,143
53 Middleport.....	88	197,039	20,131	39,332	57,085	80,491	39	19	11,204	225	69,325
54 Middletown.....	92	4,267,731	98,050	591,629	1,196,717	2,318,335	92	261	319,825	1,951	770,656
55 Mingo Junction.....	12	2,921,089	106,950	528,425	1,973,523	312,188	9	32	72,599	944	565,845
56 Mt. Vernon.....	93	830,061	62,200	172,375	295,691	298,795	110	62	52,349	853	383,638
57 Napoleon.....	78	448,500	30,300	88,725	93,025	236,450	94	13	7,395	293	91,822
58 Nelsonville.....	39	224,179	18,100	64,148	43,220	98,711	43	11	8,190	200	80,115
59 Newark.....	208	1,798,448	164,625	361,710	411,713	852,400	234	158	124,412	2,364	925,443
60 New Philadelphia.....	124	859,493	47,005	182,980	342,066	287,442	130	43	35,179	653	482,182
61 Niles.....	64	2,745,374	112,790	277,225	772,711	1,582,648	66	100	95,241	1,641	1,231,629
62 North Baltimore.....	39	193,793	17,329	28,171	50,609	97,684	45	8	7,820	112	40,048
63 Norwalk.....	96	995,025	42,600	158,600	306,976	484,849	91	63	57,056	817	394,585
64 Norwood.....	52	951,314	36,500	166,895	166,081	581,838	61	39	30,743	467	203,188
65 Painesville.....	77	513,621	47,005	137,105	137,105	231,693	88	34	27,872	488	165,403
66 Piqua.....	152	3,609,002	323,493	536,106	791,682	1,957,721	166	207	203,601	2,103	983,636
67 Pomeroy.....	70	852,132	70,410	166,681	280,999	334,042	69	43	31,142	725	341,959
68 Portsmouth.....	284	4,113,700	355,573	780,416	1,025,636	1,952,072	315	381	310,355	4,586	1,556,190
69 Ravenna.....	76	821,127	36,130	157,605	199,966	427,426	90	46	43,845	740	279,193
70 St. Marys.....	57	556,209	48,700	129,150	162,498	215,861	60	44	39,318	453	192,711
71 Salem.....	106	2,090,703	95,085	323,362	600,283	1,071,973	117	121	116,022	977	569,352
72 Sandusky.....	176	4,627,981	437,631	880,276	1,381,604	1,928,470	187	158	141,637	1,618	650,895
73 Shelby.....	63	2,409,230	70,326	570,939	1,117,879	650,086	69	77	88,827	1,045	478,446
74 St.oney.....	107	1,178,805	75,270	219,710	307,582	571,243	125	84	62,804	935	337,610
75 Steubenville.....	171	2,587,180	385,911	603,950	771,287	820,632	189	100	84,526	2,051	874,095
76 Tiffin.....	153	2,319,720	145,019	488,710	714,376	971,615	168	110	77,730	1,368	569,660
77 Toronto.....	40	649,653	71,700	220,402	168,208	189,343	40	38	33,262	640	315,400
78 Troy.....	104	1,661,085	77,000	242,678	219,479	1,124,028	140	81	76,242	899	355,227
79 Ulrichsville.....	78	273,602	25,098	89,138	93,743	105,623	76	24	14,386	271	101,650
80 Upper Sandusky.....	35	288,744	25,625	51,404	73,727	137,988	44	10	6,625	165	60,477
81 Urbana.....	112	1,122,435	81,753	227,997	292,595	520,090	137	70	58,836	811	278,822
82 Van Wert.....	81	434,678	60,430	53,615	150,771	169,862	74	25	14,907	354	150,514
83 Wapakoneta.....	60	402,777	33,799	58,955	87,814	282,218	70	24	14,498	411	142,628
84 Warren.....	110	2,952,697	130,955	357,495	897,974	1,506,273	115	133	101,737	1,948	835,718
85 Washington Court House.....	67	403,031	20,132	53,999	170,823	158,072	75	28	20,158	276	101,849
86 Wellston.....	41	655,606	35,350	247,550	145,103	427,603	42	17	15,985	333	169,075
87 Wellsville.....	61	1,233,863	93,510	257,336	469,994	413,023	67	66	50,400	969	511,964
88 Wilmington.....	61	247,783	16,350	30,100	32,527	108,806	78	14	12,916	188	78,695
89 Wooster.....	97	626,188	68,415	127,425	184,297	246,051	105	47	29,501	447	169,490
90 Xenia.....	106	1,819,614	75,630	224,049	507,297	1,012,638	128	58	72,651	1,105	394,886

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.										
1,942	\$890,017	197	\$42,896	44	\$5,962	\$214,726	\$20,098	\$18,186	\$100,877	\$75,565	\$1,899,637	\$1,846,988	\$52,649	\$3,895,498	47
1,466	683,226	64	15,164	22	2,375	306,053	11,378	25,128	208,227	1,800	1,200,756	1,127,509	73,247	2,841,908	48
896	509,691	106	31,216	25	2,509	90,518	1,949	10,346	78,148	75	1,953,872	1,816,604	137,268	2,908,648	49
210	77,640	25	4,859	1	200	20,506	4,122	1,486	13,398	1,500	165,241	160,146	5,095	847,253	50
1,677	881,987	53	11,316	106	20,942	172,155	11,148	10,221	150,286	500	1,593,257	1,494,820	68,437	3,404,032	51
817	360,274	170	36,421	19	3,448	83,122	4,668	6,895	71,559	-----	1,800,713	1,281,481	19,232	2,131,005	52
200	66,251	8	1,490	17	1,710	13,022	2,753	1,971	7,395	900	154,806	145,637	9,229	898,312	53
1,473	639,125	467	130,831	11	700	2,112,601	13,235	25,424	2,073,951	-----	3,056,601	2,947,736	111,865	6,605,226	54
943	565,385	1	260	-----	-----	131,395	592	112,181	112,181	-----	5,526,128	4,977,937	548,191	7,503,573	55
799	372,117	54	11,521	-----	-----	53,773	9,180	6,042	38,551	-----	1,073,247	1,060,719	12,528	1,716,532	56
205	85,530	27	6,117	1	175	25,045	3,859	2,498	18,638	50	295,990	287,807	7,583	541,572	57
182	76,491	13	3,166	5	458	12,107	2,682	1,911	7,584	-----	117,257	100,713	16,544	258,148	58
2,008	841,726	281	65,723	75	18,000	228,787	19,288	13,949	167,025	28,587	1,417,157	1,875,210	41,947	3,423,186	59
546	465,293	92	16,291	5	508	86,576	6,154	7,750	63,981	8,732	935,007	868,521	41,486	1,820,296	60
1,617	1,225,563	24	6,066	-----	-----	123,647	5,043	9,005	109,599	-----	3,441,219	3,145,585	295,634	6,758,129	61
96	44,931	16	4,117	-----	-----	16,052	2,673	1,214	12,165	-----	100,669	96,681	4,014	248,882	62
717	367,597	91	25,409	9	1,579	128,038	9,122	5,903	110,679	2,434	561,906	550,402	11,494	1,336,395	63
422	194,810	35	6,768	10	1,560	52,839	2,739	2,799	47,301	-----	430,221	425,652	4,569	820,892	64
442	155,412	43	9,357	3	634	36,914	6,989	2,169	24,831	2,925	319,300	309,491	9,869	693,949	65
1,787	917,822	315	65,891	1	123	259,807	18,521	13,773	203,977	18,536	3,765,259	3,685,028	80,231	5,885,475	66
665	331,455	43	7,846	17	2,653	40,898	3,882	5,456	31,260	300	961,112	913,660	47,452	1,522,626	67
3,444	1,347,575	1,043	197,652	99	10,963	802,946	22,820	25,852	710,000	44,274	3,824,093	3,668,916	155,177	7,532,976	68
498	221,189	217	52,464	25	5,500	43,790	7,108	4,318	31,904	460	550,204	522,303	27,901	1,210,415	69
410	183,707	43	9,004	-----	-----	37,785	4,119	4,053	22,646	6,968	492,842	437,731	25,111	893,823	70
843	526,140	128	41,139	6	2,073	135,603	10,278	9,872	112,374	2,079	1,230,584	1,199,505	31,079	2,380,424	71
1,397	602,394	207	41,473	44	7,028	379,042	22,833	19,070	336,999	140	1,394,147	1,325,649	68,498	3,130,342	72
860	442,161	182	35,915	3	370	134,264	3,935	11,516	112,313	6,000	1,770,640	1,701,727	68,913	2,625,066	73
774	304,108	159	33,245	2	257	101,178	6,837	8,465	85,776	100	1,088,069	1,064,793	23,876	1,858,626	74
1,613	778,433	246	61,477	192	34,186	227,624	76,387	16,051	130,570	4,616	2,038,875	2,104,699	594,176	5,235,161	75
1,066	500,422	296	67,906	6	1,332	194,471	13,459	13,867	167,024	621	900,003	814,449	85,554	2,107,805	76
560	295,509	68	17,827	12	2,054	66,130	1,700	4,788	54,642	5,000	235,721	178,154	57,567	809,446	77
723	316,812	175	38,340	1	75	197,579	8,051	7,457	181,099	1,062	1,135,610	1,117,887	17,732	2,010,557	78
227	95,077	41	9,165	3	408	25,694	2,505	1,170	13,215	8,804	197,070	186,236	10,784	446,780	79
151	47,954	13	2,419	1	104	21,655	2,142	2,414	17,099	-----	187,106	182,203	4,903	357,505	80
673	245,612	134	27,270	4	940	94,401	9,621	8,775	75,433	575	770,793	744,229	26,504	1,477,902	81
313	142,151	41	8,363	-----	-----	42,318	4,878	3,327	13,574	20,509	313,575	305,814	7,761	627,672	82
387	138,403	18	3,784	6	441	49,629	5,027	4,251	38,992	459	289,717	283,556	6,161	604,781	83
1,646	762,153	286	72,460	16	1,100	198,169	9,838	8,014	119,782	60,475	2,671,115	2,506,619	164,496	4,840,160	84
204	88,591	69	17,958	3	300	24,376	5,860	2,795	15,629	92	352,233	346,335	5,898	659,899	85
320	166,619	10	2,112	3	344	27,327	1,836	3,181	22,160	150	595,415	423,514	171,901	1,056,110	86
906	495,820	62	16,018	1	126	47,624	3,678	5,738	35,050	3,158	600,918	587,396	73,522	1,548,190	87
179	76,882	8	1,678	1	75	21,800	4,026	1,624	15,598	612	241,511	235,966	5,545	440,237	88
360	153,800	86	15,490	1	200	37,114	7,021	3,257	25,096	1,740	463,725	443,154	20,571	985,579	89
897	343,582	207	50,679	1	125	130,647	10,951	11,398	101,898	15,400	2,171,360	2,142,019	28,741	3,122,797	90