

CENSUS BULLETIN.

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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There were 101 cities and villages in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act.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the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and villages which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.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	\$141,923,961	\$57,295,303	\$29,019,538	50.4	113.2	33.1	147.7	97.4
Salaried 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	119,086	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	53,711	41,531	18,568	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	18.2	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	54.5	3.0	103.7
Value of land and buildings invested in manufactures ^a	\$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

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.

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

⁴ Testimony 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	\$109,616,052	\$309,842,856	\$20,085,679	\$884,834,666
Hand trades ¹	13,896	17,648,395	15,724	29,753	18,950,714	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	588,143,871	20,900	316,116	130,995,616	64,243,896	123,796,304	103,040,001	286,245,879	28,510,424	773,489,259

¹ Includes bicycle and tricycle repairing, 377; blacksmithing and wheelwrighting, 3,385; 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, 303; lock and gun smithing, 105; masonry, brick and stone, 441; millinery, custom work, 1,231; 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 estab- lishments.	Capital.	INDUSTRIES.	Number of idle estab- lishments.	Capital.
Boots and shoes, factory product.....	3	\$84, 600	Lime and cement.....	4	\$18, 530
Brick and tile.....	35	261, 526	Liquors, distilled.....	4	30, 875
Cars, steam railroad, not including operations of rail- road 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	250, 666
Furniture, factory product.....	3	808, 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 estab- lishments.	Capital.	WAGE-EARNERS.		Miscella- neous 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, 043, 723	\$40, 123, 782	\$304, 033, 555	\$547, 610, 814
	1890	7, 997	288, 343, 244	169, 057	75, 758, 352	32, 722, 824	223, 390, 580	402, 131, 801
Increase, 1890 to 1900.....		1, 560	135, 251, 867	44, 488	21, 285, 371	16, 400, 958	78, 642, 975	145, 484, 023
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	50.0	72.6	66.4	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, 654, 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	257, 369	4, 480, 206	8, 489, 728
Carriage and wagon materials.....	1900	109	5, 251, 795	4, 520	1, 730, 022	347, 458	4, 027, 295	7, 186, 271
	1890	99	3, 360, 304	2, 697	1, 115, 862	215, 794	1, 745, 082	4, 310, 607
Carriages and wagons.....	1900	548	12, 158, 302	7, 274	3, 369, 550	813, 400	8, 262, 052	15, 919, 173
	1890	709	18, 952, 571	9, 493	4, 509, 960	1, 060, 056	9, 332, 677	18, 777, 866
Cars and general shop construction and repairs by steam railroad companies.....	1900	91	5, 701, 129	11, 534	6, 087, 052	391, 581	5, 963, 808	12, 975, 182
	1890	61	3, 907, 278	7, 397	3, 968, 797		3, 630, 052	8, 096, 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, 336, 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, 465	2, 546	911, 171	119, 790	2, 282, 025	4, 352, 098
Coffee and spice, roasting and grinding.....	1900	26	2, 875, 888	678	229, 703	128, 738	4, 708, 855	5, 849, 644
	1890	32	1, 417, 738	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, 780
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, 472, 455	3, 311	1, 389, 707	908, 517	33, 418, 856	39, 468, 409
Food preparations.....	1900	31	5, 183, 405	1, 100	365, 950	390, 651	5, 853, 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, 896, 682	31, 578, 984	72, 899, 632
	1890	600	32, 589, 798	24, 795	12, 050, 909	2, 633, 738	19, 532, 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, 253	294, 744	1, 602, 599	6, 640, 182
Iron and steel.....	1900	107	85, 528, 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, 065
	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, 143, 188	31, 771, 591
	1890	179	21, 591, 010	3, 660	2, 490, 340	12, 642, 274	8, 054, 806	23, 484, 290
Liquors, distilled.....	1900	26	3, 009, 277	335	179, 157	9, 622, 583	1, 438, 507	12, 447, 268
	1890	15	2, 109, 879	426	224, 222	8, 745, 108	2, 535, 016	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	8, 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	246, 956	550, 777
Lumber and timber products.....	1900	2, 054	13, 741, 418	8, 539	3, 298, 668	568, 562	11, 936, 045	20, 760, 854
	1890	1, 461	11, 806, 709	11, 727	3, 143, 494	636, 950	7, 621, 133	15, 279, 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, 036, 671
	1890	335	7, 908, 742	5, 356	2, 733, 047	426, 367	7, 685, 188	12, 910, 538

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	3,181	\$1,118,040	\$479,386	\$3,768,572	\$6,543,513
	1890	50	7,581,536	2,921	1,153,625	513,087	3,991,877	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	590,858	12,517,255	16,343,493
Pottery, terra cotta, and fire-clay products	1900	248	15,563,960	11,870	5,000,846	691,591	3,229,385	11,851,225
	1890	125	5,927,139	4,606	2,053,702	459,333	1,813,280	5,047,501
Printing and publishing:								
Total	1900	1,253	17,851,109	11,021	5,313,707	2,691,346	5,656,367	20,391,868
	1890	987	11,634,222	9,026	4,436,561	2,005,626	5,244,793	17,188,851
Book and job	1900	410	6,330,456	4,613	2,171,241	823,070	2,749,600	7,941,570
	1890	257	3,704,513	3,018	1,392,017	337,296	2,818,018	6,086,891
Music	1900	6	192,788	48	22,870	185,000	23,761	260,658
	1890	6	191,620	17	7,954	76,650	21,968	173,450
Newspapers and periodicals	1900	837	11,827,865	6,360	3,119,596	1,733,296	2,883,006	12,189,640
	1890	724	7,788,089	5,991	3,036,590	1,681,680	2,401,807	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	658	240,736	89,504	1,002,772	1,486,777
Slaughtering:								
Total	1900	71	5,355,512	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	5,224,226	1,700	775,288	619,628	17,006,794	19,609,304
	1890	70	3,100,425	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	3,104,643	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, Stenbenville, 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 \$26,060,827. 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 230.

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 338 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 1642.

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 \$12,096,860, 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

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

² Philip D. Armour, in *One Hundred Years of American Commerce*, Vol. II, page 383 ff.

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

⁴ Cincinnati in 1851, page 235.

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

⁶ Cincinnati in 1851, page 176.

⁷ Documents Relative to Manufactures, *supra cit.*, page 870.

⁸ Cincinnati in 1841, page 57.

⁹ Report 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, escritoirs, 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 \$5,182,085. 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.

favorable 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

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.

² Testimony of the Ohio State Geologist, *supra cit.*

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

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
Per cent of increase.....	1890	28,073	402,793,019	292,982	128,447,799	45,062,325	311,016,464	641,688,064
		13.0	50.4	18.1	19.9	54.7	31.3	29.7
AKRON.....	1900	431	24,199,310	9,030	3,971,307	1,779,804	13,474,282	23,610,099
Per cent of increase.....	1890	350	14,237,429	5,808	2,693,305	977,471	6,928,481	12,550,038
		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	5,604,399	12,258,427
Per cent of increase.....	1890	420	11,387,406	6,360	3,208,641	952,010	4,948,508	11,831,810
		19.5	11.4	1.5	7.4	13.6	13.3	3.2
CINCINNATI.....	1900	5,127	109,582,142	63,240	27,189,069	22,873,620	77,539,292	157,806,834
Per cent of increase.....	1890	7,832	104,483,032	84,167	30,728,511	19,937,152	92,545,231	196,063,983
		34.5	4.9	124.9	126.0	14.7	116.2	19.5
CLEVELAND.....	1900	2,927	98,303,682	58,810	27,892,689	11,565,697	71,597,595	139,649,806
Per cent of increase.....	1890	2,307	69,732,761	45,915	23,507,940	4,902,256	65,645,649	113,240,115
		26.9	41.0	28.1	18.7	135.9	9.1	23.5
COLUMBUS.....	1900	914	25,392,136	17,066	7,718,824	4,014,022	20,194,532	39,656,848
Per cent of increase.....	1890	708	16,178,703	12,053	5,658,096	1,715,056	11,183,710	22,887,586
		29.1	56.9	41.6	36.4	134.0	80.6	73.4
DAYTON.....	1900	1,096	28,027,518	16,869	7,950,792	3,295,885	10,800,911	35,697,695
Per cent of increase.....	1890	937	18,469,964	10,614	4,737,383	1,459,655	11,080,149	22,446,572
		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
Per cent of increase.....	1890	372	14,567,631	6,101	2,662,672	1,046,292	4,752,032	10,760,065
		13.0	3.3	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	21,086,708	37,372,355
Per cent of increase.....	1890	734	12,700,872	9,247	4,333,322	1,240,042	12,189,924	21,651,574
		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	908,636	23,541,760	34,801,101
Per cent of increase.....	1890	245	7,542,742	5,486	3,295,952	462,785	9,380,929	14,667,260
		6.1	196.4	66.8	50.2	109.3	151.0	137.3

¹ Decrease.

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	6,053,481
		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	432,203,987
		19.2	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

1 Decrease.

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, 18.8, 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	100,343	1,906,201	3,730,144	27	0.4	8,974	32	0.2
Ashtabula	90	764,127	80	440	188,562	67,950	575,249	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)	3,066	91	0.1
Barberton	27	3,366,386	26	1,115	461,082	323,720	1,804,458	3,256,844	31	0.4	4,354	76	0.1
Barnesville	56	503,124	68	418	183,033	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	662,703	1,189,201	67	0.1	6,649	51	0.2
Bellevue	38	661,742	37	301	125,986	25,057	599,671	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	208,349	396,757	95	(1)	3,131	90	0.1
Bucyrus	91	1,011,031	103	751	338,535	73,535	557,220	1,300,327	64	0.2	6,560	53	0.2
Cambridge	65	1,201,662	74	849	523,339	82,401	1,438,670	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	5,604,399	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
Cella	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	1,228	454,644	96,614	914,065	1,709,895	53	0.2	12,976	22	0.3
Cincinnati	5,127	109,582,142	5,805	63,240	27,189,069	22,873,620	77,539,292	157,806,834	1	19.0	325,902	2	7.8
Circleville	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	58,810	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	968	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	1,088	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
Defiance	100	1,141,426	115	936	356,951	87,931	814,712	1,609,834	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	309,524	72	286	119,202	37,197	225,928	519,730	90	0.1	4,517	75	0.1
Dennison	33	723,143	34	892	524,693	73,480	584,396	1,295,334	65	0.2	3,763	82	0.1
East Liverpool	182	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	968	391,841	137,958	999,280	1,760,500	51	0.2	8,791	33	0.2
Findlay	252	2,152,202	809	1,478	633,505	165,613	1,122,537	2,514,356	40	0.3	17,613	17	0.4
Fostoria	92	1,532,627	97	795	278,529	54,550	2,103,515	2,645,205	37	0.3	7,730	41	0.2
Franklin	39	448,290	39	296	119,118	15,891	521,903	864,036	74	0.1	2,721	98	0.1
Freemont	156	2,616,545	185	1,504	599,286	162,323	1,822,880	2,021,951	39	0.3	8,439	36	0.2
Galion	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	731,063	80	0.1	5,432	84	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	831,539	49	293	114,185	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	3,299,905	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	405,287	18,195	1,079,937	1,599,562	55	0.2	4,541	73	0.1
Kenton	95	886,687	100	653	266,299	94,815	540,074	1,118,029	68	0.1	6,852	49	0.2
Lancaster	100	1,537,272	103	1,237	614,609	97,284	1,197,266	2,219,695	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	2,807	94	0.1
Leontia	32	2,121,818	36	496	280,162	102,977	1,943,900	2,725,457	36	0.3	2,744	97	0.1
Lima	195	5,487,581	230	2,223	1,050,780	277,408	4,156,028	6,705,136	17	0.8	21,723	12	0.5
Lockland	56	2,313,049	51	596	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	1,115,589	615,457	6,544,793	9,547,952	11	1.1	16,028	19	0.4
Mansfield	251	5,760,746	293	3,160	1,217,457	397,182	3,135,083	7,084,509	16	0.8	17,640	16	0.4
Marietta	278	2,189,345	335	2,189	938,315	214,726	1,899,637	3,895,498	20	0.5	13,848	21	0.3
Marton	84	3,340,321	78	1,562	699,065	306,033	1,200,756	2,841,003	35	0.3	11,862	27	0.3
Martins Ferry	50	1,802,871	56	967	543,416	90,518	1,958,872	2,968,648	34	0.4	7,760	40	0.2
Marysville	47	179,325	68	236	82,699	20,506	155,241	347,283	98	(1)	3,048	92	0.1
Massillon	134	4,444,400	149	1,836	914,245	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	1,800,713	2,131,005	45	0.3	3,341	80	0.1
Middleport	38	197,039	39	225	69,825	13,022	154,866	338,312	99	(1)	2,799	96	0.1
Middletown	12	4,207,731	92	1,951	770,656	2,112,601	3,056,601	6,665,226	18	0.8	9,215	30	0.2
Mingo Junction	92	2,921,086	9	944	566,646	131,395	5,526,123	7,563,573	13	0.9	2,954	93	0.1
Mt. Vernon	93	830,061	110	853	383,638	53,773	1,073,247	1,716,532	52	0.2	6,633	52	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	224,170	43	200	80,115	12,107	117,257	258,148	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	130	653	482,182	86,576	909,007	1,820,296	50	0.2	6,213	57	0.1
Niles	64	2,745,374	66	1,641	1,281,629	123,647	3,441,219	5,758,129	20	0.7	7,468	44	0.2
North Baltimore	89	199,793	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	128,088	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	2,108	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	279,158	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	569,352	135,603	1,280,584	2,880,424	42	0.3	7,582	42	0.2
Sandusky	176	4,627,981	187	1,648	650,895	879,042	1,894,147	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	1,173,805	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	5,669,261	12,777,173	8	1.5	38,253	8	0.9
Steuensville	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	21,986,798	87,872,355	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	5,881	60	0.1
Uhrichsville	78	273,602	76	271	104,650	25,694	197,070	446,780	92	0.1	4,582	72	0.1
Upper Sandusky	35	288,744	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	59	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	4,840,100	24	0.6	8,529	35	0.2
Washington Court House	67	403,031	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	1,066,110	69	0.1	8,045	38	0.2
Wellsville	61	1,233,863	67	969	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	106	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	23,541,709	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	7,408,839	15	0.9	23,538	11	0.6
Total for state exclusive of urban manufactures	11,393	81,043,744	13,645	43,693	17,877,170	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 imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State	32,398	\$605,792,206	\$49,658,809	\$94,493,965	\$158,986,928	\$302,652,564	36,624	30,003	\$29,351,015	345,869	\$153,955,330
2 Adams	138	326,847	28,310	41,195	123,025	134,317	175	19	13,570	260	81,176
3 Allen	402	6,130,870	371,761	816,655	2,483,791	2,459,663	474	227	177,416	2,776	1,275,743
4 Ashland	133	1,054,453	71,285	140,859	197,731	644,578	163	66	45,360	545	178,615
5 Ashtabula	892	2,548,145	285,785	355,828	714,714	1,191,818	450	121	102,067	1,827	775,729
6 Athens	158	912,904	81,080	226,782	234,923	360,119	186	54	34,411	578	234,917
7 Auglaize	257	1,559,751	187,679	339,952	394,804	687,316	305	95	71,040	1,289	474,692
8 Belmont	359	7,970,900	467,099	1,441,638	4,057,275	2,004,888	407	264	295,075	5,472	2,651,898
9 Brown	156	463,923	81,085	82,565	134,309	165,964	184	22	13,398	374	122,754
10 Butler	492	17,748,459	1,217,066	2,926,448	4,719,193	8,880,752	439	624	759,542	8,278	3,566,016
11 Carroll	122	388,304	35,988	102,830	131,700	117,786	149	22	11,490	341	130,031
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	14,514,195	727,755	1,614,574	2,111,486	10,060,380	404	1,331	1,131,549	6,806	3,232,382
14 Clermont	150	632,134	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	33	21,266	440	165,703
16 Columbiana	620	13,227,220	1,032,795	3,145,548	3,051,176	5,997,701	689	635	631,633	8,809	4,344,731
17 Coshocton	147	1,032,944	48,075	138,317	409,087	487,465	167	132	112,545	1,196	879,705
18 Crawford	254	2,455,634	204,988	537,945	646,984	1,065,717	288	151	114,898	2,203	936,407
19 Cuyahoga	3,137	110,375,476	8,680,072	18,523,545	31,919,986	56,251,873	3,310	5,609	5,967,065	63,867	30,612,805
20 Darke	826	778,043	63,306	101,195	240,202	373,340	402	23	11,983	767	248,789
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	330,554	611,388	198	64	54,858	861	352,453
23 Erie	255	5,631,678	593,174	1,056,666	1,667,590	2,814,248	267	203	212,182	2,055	809,630
24 Fairfield	206	1,837,980	151,681	382,775	456,639	866,886	237	96	73,602	1,028	730,861
25 Fayette	126	654,018	82,849	102,424	217,668	301,077	146	52	32,400	465	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	180	36	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	525,112	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	553,109	695,547	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	68,476	917	355,122
35 Harrison	122	436,395	105,105	70,545	149,754	110,931	151	20	10,715	289	100,325
36 Henry	197	739,886	58,998	155,875	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	339,960
38 Hocking	91	752,329	65,376	209,577	192,734	285,242	110	32	36,300	533	177,843
39 Holmes	121	293,656	33,860	63,461	100,260	96,075	138	5	4,740	171	62,897
40 Huron	282	2,285,722	139,832	369,428	536,232	1,240,230	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	7,859,590	692,201	1,683,392	3,256,108	1,727,880	819	201	216,862	4,302	2,076,828
43 Knox	163	996,880	73,785	205,680	357,051	355,314	191	64	52,045	923	413,661
44 Lake	165	1,117,032	124,688	201,370	273,678	517,956	200	55	43,387	821	309,555
45 Lawrence	182	4,999,552	636,450	846,428	1,250,139	2,266,535	183	147	145,296	2,374	947,186
46 Licking	341	2,464,382	186,977	455,965	577,366	1,244,074	397	177	140,437	2,635	1,032,579
47 Logan	301	1,260,510	209,529	231,712	388,949	430,320	365	66	47,786	1,070	442,224
48 Lorain	298	15,021,899	1,131,833	3,116,591	4,335,029	6,438,446	318	264	238,522	3,888	1,766,184
49 Lucas	1,132	25,950,176	2,208,319	4,627,693	6,746,785	12,873,879	1,204	1,299	1,246,477	15,956	6,924,468
50 Madison	151	432,070	35,224	73,325	150,865	178,256	185	9	5,660	230	79,893
51 Mahoning	387	24,577,654	1,749,130	3,678,641	11,336,230	7,813,663	411	506	564,309	10,125	5,388,139
52 Marion	185	3,681,902	416,221	447,882	447,882	2,358,530	203	139	130,973	1,850	794,492
53 Medina	143	1,153,457	65,289	188,981	236,200	682,984	177	44	28,738	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	516,837	57,625	92,315	154,902	212,015	224	18	11,145	373	142,856
56 Miami	405	6,007,615	455,746	913,901	1,197,196	3,440,772	409	338	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	5,839,826	19,868,232	1,491	1,582	1,707,131	19,209	8,796,539
59 Morgan	89	476,716	23,966	66,410	60,359	325,981	105	30	26,332	300	104,301
60 Morrow	85	393,296	22,575	53,100	83,900	233,721	110	10	8,879	189	67,807
61 Muskingum	420	6,174,217	484,330	1,267,505	1,531,574	2,890,508	483	464	353,809	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	35	38,260	549	197,864
64 Paulding	169	361,655	34,160	52,033	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	269,755	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	8,871,989	308,811	1,173,436	2,184,761	4,704,981	507	443	412,005	4,363	1,751,260
72 Ross	207	1,385,064	195,535	279,055	391,011	519,463	238	85	40,414	1,400	822,073
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	355	4,750,928	560,505	902,998	1,161,431	2,125,973	404	415	330,639	4,952	1,704,134
75 Seneca	360	4,207,050	237,006	908,686	1,864,289	1,677,069	402	198	145,818	2,515	994,815
76 Shelby	200	1,450,547	120,255	285,840	399,422	645,030	231	93	69,638	1,182	401,377

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.						COST OF MATERIALS USED.				Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.			
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.											
287,789	\$140,364,129	53,711	\$12,883,284	4,369	\$707,917	\$69,728,206	\$4,741,189	\$3,035,915	\$54,602,073	\$7,949,029	\$447,849,677	\$127,855,909	\$19,993,768	\$832,438,113	1	
239	78,179	19	2,837	2	160	10,513	2,088	2,947	5,853	125	385,237	380,816	4,421	709,114	2	
2,358	1,188,276	413	86,945	5	622	327,486	38,275	24,613	217,712	46,886	4,653,119	4,478,879	174,240	7,791,420	3	
429	157,186	102	20,148	14	1,286	127,916	4,505	9,420	112,791	1,200	753,149	743,900	9,249	1,361,444	4	
1,620	729,766	205	45,617	2	846	164,250	20,028	12,889	95,617	35,716	2,384,412	2,342,821	41,591	3,953,128	5	
524	228,036	41	10,245	13	1,636	56,194	7,383	8,090	34,318	6,403	599,227	560,670	38,557	1,133,528	6	
1,190	455,571	81	17,175	18	1,946	126,763	12,182	11,869	95,285	7,427	1,170,387	1,128,524	41,863	2,288,305	7	
4,698	2,493,972	614	132,834	160	25,092	506,406	16,748	47,188	441,386	1,084	11,654,606	10,707,010	947,596	18,186,947	8	
817	113,327	47	8,642	10	785	32,608	4,307	4,162	20,139	3,500	623,815	616,978	6,337	951,932	9	
6,822	3,223,237	1,329	831,212	87	11,567	2,963,679	46,606	73,089	2,839,429	4,555	9,178,133	8,876,482	301,701	19,724,042	10	
329	127,428	11	2,508	1	100	14,784	2,452	2,875	9,207	750	338,629	309,263	29,361	683,439	11	
885	327,182	161	33,905	4	940	107,925	14,040	10,973	80,887	2,025	1,104,037	1,072,164	31,873	2,074,985	12	
6,284	3,113,295	497	115,255	25	3,832	1,316,250	56,446	80,589	1,155,627	23,588	6,842,344	6,678,592	163,752	13,294,221	13	
410	142,401	178	39,553	15	2,376	41,473	2,819	4,384	32,369	1,901	720,065	699,686	20,379	1,234,907	14	
384	153,810	62	11,566	4	327	39,015	7,698	3,800	25,680	2,337	591,681	577,963	13,718	1,025,510	15	
7,215	3,914,386	1,531	416,375	63	13,478	716,464	44,642	46,646	507,357	117,319	7,677,839	6,657,644	1,020,195	15,964,384	16	
781	291,795	409	87,266	6	644	74,435	3,426	7,867	62,642	1,000	1,065,853	1,049,958	15,895	1,859,326	17	
2,070	912,402	111	22,013	22	2,052	162,556	14,592	17,846	124,388	5,730	1,686,543	1,645,707	40,836	3,445,282	18	
54,234	28,288,910	9,132	2,229,360	501	94,635	12,199,625	1,049,451	541,476	8,489,757	2,168,938	83,758,742	80,377,268	3,381,474	156,760,354	19	
617	218,842	135	27,971	16	1,976	47,097	14,536	6,533	24,805	1,223	868,842	851,220	17,622	1,473,517	20	
1,054	419,786	143	25,557	10	836	99,529	13,564	12,973	72,842	150	1,030,047	1,007,094	22,953	2,041,589	21	
704	319,453	151	32,380	6	620	74,799	11,758	6,176	56,865	2,585	674,165	598,424	75,741	1,456,390	22	
1,786	757,301	220	44,695	49	7,634	458,115	25,745	23,810	405,975	10,480	1,911,055	1,782,631	128,424	4,252,300	23	
1,196	609,726	328	98,157	104	22,978	108,375	10,722	7,929	79,294	40,830	1,583,038	1,551,035	32,003	2,852,449	24	
327	124,682	74	18,868	4	440	38,306	7,804	4,014	21,896	92	497,251	487,842	9,409	965,356	25	
15,166	7,360,420	2,274	581,450	276	48,484	4,056,537	257,748	176,880	3,886,074	285,835	20,766,796	19,752,858	958,938	40,712,336	26	
214	96,099	18	3,731	5	507	26,213	8,427	3,257	10,279	9,250	626,286	618,921	12,365	981,356	27	
488	178,913	38	6,674	8	862	59,243	7,071	5,439	46,498	235	627,028	618,275	8,753	977,851	28	
250	110,314	20	3,617	4	350	9,644	3,209	1,632	4,303	16,676	529,141	523,123	6,013	834,844	29	
1,184	455,026	231	55,157	6	680	167,355	15,880	15,741	119,058	565	2,946,608	2,900,231	46,372	4,267,277	30	
976	601,262	54	12,921	6	450	93,863	7,330	6,945	79,023	565	1,816,107	1,768,805	52,302	3,104,813	31	
50,980	25,043,131	16,013	3,926,266	1,121	163,844	25,923,946	1,672,928	630,720	20,495,701	3,123,597	85,436,802	84,175,979	1,260,322	173,582,824	32	
1,563	700,191	201	40,897	21	2,992	12,992	22,992	13,035	112,990	29,261	1,559,990	1,518,853	75,365	3,445,282	33	
827	334,915	78	16,820	12	1,387	106,387	14,244	7,802	83,490	851	812,902	791,157	21,745	1,015,233	34	
264	95,303	20	4,372	5	650	20,406	8,579	2,058	13,039	1,700	345,908	335,737	10,171	614,819	35	
617	200,769	81	7,090	5	821	48,363	7,647	5,855	29,781	80	657,233	637,015	20,218	1,153,177	36	
779	293,806	192	44,533	14	2,121	56,672	6,731	7,546	41,992	403	1,379,019	1,356,216	22,803	2,164,974	37	
511	173,661	15	3,249	7	933	34,046	5,475	6,534	22,037	28,610	448,032	417,848	30,134	757,067	38	
156	60,142	13	2,630	2	125	13,770	2,856	1,777	9,037	100	327,575	317,761	9,814	523,355	39	
1,451	665,829	185	47,041	25	4,358	184,450	18,462	12,554	150,890	2,544	1,642,791	1,608,859	33,932	3,122,585	40	
730	306,822	27	5,781	9	1,501	56,766	6,768	7,672	41,476	850	990,062	716,661	273,401	1,886,785	41	
3,754	1,953,467	383	84,064	215	39,297	456,844	70,478	42,732	325,018	9,616	9,471,652	8,218,322	1,253,330	15,246,129	42	
861	400,468	59	12,845	8	851	62,046	10,837	7,154	43,735	270	1,276,606	1,261,453	14,753	2,033,520	43	
765	297,300	51	11,271	5	984	88,823	8,585	4,206	51,805	4,227	702,688	675,235	27,453	1,443,219	44	
2,273	927,207	85	17,559	16	2,420	277,438	14,889	39,478	185,842	37,774	4,274,983	3,633,967	640,926	7,287,567	45	
2,249	942,627	306	71,192	80	18,760	249,427	22,725	16,890	180,875	28,937	1,733,705	1,680,328	53,377	4,065,420	46	
987	427,598	62	11,605	21	2,931	64,486	13,699	11,558	33,229	6,100	1,094,411	1,050,160	44,251	2,016,099	47	
3,499	1,689,722	305	61,896	84	14,516	805,349	18,681	29,811	727,177	29,680	8,205,343	7,418,348	786,995	12,637,394	48	
12,905	6,313,740	2,425	556,446	266	54,267	3,092,494	202,121	155,872	2,607,993	167,005	22,364,782	21,850,267	514,495	37,997,565	49	
183	72,404	43	7,035	4	464	24,947	7,297	2,842	14,608	200	896,187	862,068	10,119	612,836	50	
9,842	5,314,198	260	69,623	23	4,318	1,115,661	41,655	58,052	1,009,215	6,739	26,113,419	23,596,597	2,516,912	38,774,429	51	
1,744	775,792	81	15,835	25	2,865	323,444	15,196	28,099	278,024	1,525	1,670,768	1,578,588	92,230	3,588,934	52	
469	202,646	111	25,181	7	600	75,894	2,574	5,024	6,021	276	853,755	826,580	27,175	1,435,508	53	
979	441,642	62	11,016	40	4,768	63,636	7,330	3,805	45,756	1,802	1,393,846	1,328,051	65,795	2,285,129	54	
336	137,034	29	4,713	8	1,104	25,424	6,002	3,592	14,845	985	574,436	560,036	14,400	1,180,467	55	
2,918	1,397,061	531	112,890	6	447	505,203	29,392	32,052	423,131	20,628	5,641,363	5,523,500	117,863	9,099,414	56	
122	40,822	64	13,169	2	221	31,902	4,739	2,458	24,575	130	349,622	342,375	7,247	589,208	57	
15,266																

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	\$11,383,096	1,118	877	\$314,948	11,122	\$5,081,726
78	Summit	599	29,593,083	1,835,252	5,641,710	7,508,130	14,607,991	613	1,270	1,188,522	11,191	4,887,124
79	Trumbull	361	8,858,865	365,401	1,049,361	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	203,300	4,107	2,140,614
81	Union	130	326,615	32,210	52,555	111,055	130,795	165	10	6,550	319	112,379
82	Van Wert	170	677,918	92,880	82,600	226,431	276,007	169	34	19,881	593	237,996
83	Vinton	51	154,237	25,485	19,060	62,025	47,667	71			74	26,768
84	Warren	201	2,176,133	269,459	303,231	693,360	905,083	222	68	82,958	1,077	405,451
85	Washington	404	2,668,141	361,645	428,219	615,972	1,259,305	504	173	139,808	2,616	1,068,686
86	Wayne	290	1,667,505	142,015	342,483	496,177	686,830	355	77	51,957	901	351,616
87	Williams	214	898,312	59,947	161,635	214,268	462,462	250	53	36,040	711	283,739
88	Wood	328	3,430,700	353,669	559,176	1,637,403	880,452	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

1	All industries	32,393	\$603,792,266	\$49,658,809	\$94,493,965	\$158,986,928	\$302,652,664	36,624	30,003	\$29,351,045	345,869	\$153,955,330
2	Agricultural implements	78	23,628,442	1,031,012	2,199,037	1,898,782	18,499,611	58	1,588	1,368,775	6,852	3,271,163
3	Ammunition	3	675,827	100	400	257,407	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	201	54,940
8	Bags, paper	10	390,236	10,000	10,000	126,603	244,630	4	56	40,684	218	67,923
9	Baking and yeast powders	15	177,381	7,150	25,400	14,950	129,881	11	55	38,156	101	39,578
10	Baskets, and rattan and willow ware	43	128,590	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	46,307
12	Bicycle and tricycle repairing	377	345,882	26,733	30,796	129,891	158,462	435	12	5,164	811	192,591
13	Bicycles and tricycles	34	4,074,576	74,537	437,853	1,736,524	1,825,662	29	200	197,406	2,380	1,017,061
14	Billiard tables and materials	6	29,100			1,750	27,350	6	4	5,570	21	11,980
15	Blacking	3	21,000			2,600	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	102,602			10,662	92,000	4	7	5,040	42	17,500
19	Boot and shoe uppers	7	2,100			925	1,175	0			6	2,685
20	Boots and shoes, custom work and repairing	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	163,950	464,713	1,180,322	5,735,157	87	888	960,890	12,718	3,989,744
22	Bottling	63	328,838	42,920	62,650	27,370	195,398	64	43	32,988	170	79,314
23	Boxes, cigar	32	354,259	40,450	73,875	73,873	166,061	40	29	18,006	517	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	49,439	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	5,056,649	653,700	970,777	2,230,886	1,201,286	1,029	567	858,308	8,519	1,629,341
29	Brick and tile	686	7,343,627	1,634,603	2,205,306	1,497,325	2,006,393	853	208	139,192	5,353	1,966,971
30	Bridges	16	2,473,845	110,846	234,469	675,524	1,458,006	8	138	153,419	1,437	715,410
31	Brooms and brushes	117	880,040	42,490	87,432	194,566	556,212	144	93	99,124	994	324,366
32	Buttons	4	49,615			15,500	34,145	5	7	4,786	72	18,268
33	Carpentering	1,135	2,464,362	293,233	342,233	307,922	1,620,974	1,324	108	81,642	5,242	2,918,959
34	Carpets, rug	113	72,031	10,755	17,795	23,834	19,647	118	10	6,753	120	36,987
35	Carriage and wagon materials	109	5,251,795	391,954	763,834	1,199,727	2,908,280	93	275	271,381	4,529	1,780,022
36	Carriages and sleds, children's	9	949,225	14,640	228,000	214,350	492,235	8	42	49,101	787	333,580
37	Carriages and wagons	543	12,158,302	1,199,593	1,980,861	818,455	8,159,393	717	687	576,062	7,274	3,369,550
38	Cars and general shop construction and repairs by steam-railroad companies	91	5,701,129	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 companies	4	123,050	15,500	46,000	30,500	31,050		7	4,816	229	137,385
40	Cars, steam railroad, not including operations of railroad companies	5	2,581,894	48,977	246,517	137,833	2,148,517		61	76,616	1,805	862,011
41	Cars, street railroad, not including operations of railroad companies	8	252,773	10,000	25,000	49,651	168,122	2	13	11,880	275	162,810
42	Charcoal	7	22,387	1,220	230	2,625	18,762	6	3	2,500	87	22,895
43	Cheese and butter, urban dairy products	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	530	1,280	8				
47	Cleansing and polishing preparations	12	36,890	1,650	3,250	3,945	28,045	10	12	17,756	23	6,974
48	Cloth, sponging and refinishing	3	3,757			2,290	1,467	5			31	15,699
49	Clothing, men's, custom work and repairing	1,543	8,216,481	271,185	324,253	191,697	2,429,346	1,789	227	165,411	5,190	2,146,206
50	Clothing, men's, factory product	539	10,782,010	189,700	284,404	221,508	10,186,398	676	735	805,898	6,521	2,143,619
51	Clothing, men's, factory product, buttonholes	8	20,625	100	600	16,100	3,825	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 in- cluding 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	\$21,216,888	77
9,235	4,397,337	1,878	479,458	78	10,320	2,211,700	61,548	186,999	1,636,916	376,237	16,767,864	16,257,030	510,834	29,404,004	78
4,478	2,735,671	826	82,740	27	3,308	434,714	18,356	23,574	832,259	60,525	9,920,977	8,778,337	1,142,640	16,126,697	79
3,879	2,097,663	196	88,128	32	4,823	338,494	17,227	24,894	258,287	88,086	4,701,997	4,886,148	315,849	8,528,451	80
281	105,298	37	6,886	1	200	27,496	6,180	2,641	18,170	1,555	353,461	339,512	13,949	664,352	81
545	228,488	42	8,518	6	995	53,494	6,778	4,916	21,231	20,569	821,863	805,727	16,136	1,364,164	82
70	26,068	8	600	1	100	3,975	583	1,126	2,266	265,149	265,149	262,957	2,192	377,543	83
789	341,955	285	63,216	3	280	82,901	12,797	12,550	57,010	547	1,737,544	1,691,224	46,320	2,815,006	84
2,315	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	85
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	86
646	271,458	59	11,380	6	901	46,314	8,212	4,838	33,634	130	767,605	752,975	14,630	1,332,311	87
1,120	459,494	61	12,434	3	505	94,094	10,905	8,776	69,533	4,860	1,436,243	1,338,307	97,936	2,541,882	88
286	113,602	16	2,873	6	1,249	38,087	2,729	4,121	26,037	200	448,119	433,587	14,582	751,230	89

SPECIFIED INDUSTRIES: 1900.

287,789	\$140,364,129	53,711	\$12,888,284	4,369	\$707,917	\$69,728,206	\$4,741,189	\$3,035,915	\$54,602,078	\$7,340,020	\$147,849,677	\$127,855,909	\$19,993,768	\$332,438,113	1
6,795	3,254,063	44	14,588	13	2,512	1,483,605	2,423	106,929	1,846,122	28,131	6,050,515	5,925,591	133,924	13,975,268	2
228	80,351	143	30,816			31,684	4,431	2,700	24,450		565,091	559,134	6,957	831,920	3
4	2,000	3	450			1,149	840	9			1,277	1,235	42	8,600	4
6	3,216					2,279	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	276,535	2,547	556,977	6
58	25,000	146	29,940			79,178	1,675	1,104	76,394		886,330	885,005	1,325	1,030,093	7
110	44,402	108	23,521			28,395	4,634	1,324	17,437		510,587	503,807	6,780	719,441	8
58	28,362	43	10,635	5	576	35,055	7,476	1,108	26,881		227,017	223,921	3,226	407,111	9
203	76,352	54	11,854	17	2,001	6,930	2,539	805	3,586		40,177	44,750	1,427	196,486	10
91	48,157			1	150	88,028	3,276	1,782	32,976		637,900	635,097	2,812	836,376	11
292	129,339	5	1,866	14	1,886	58,366	40,052	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		2,251,958	2,194,371	56,987	4,099,980	13
21	11,980					3,946	1,941	25	1,980		23,101	20,036	65	67,546	14
4	1,522	15	3,602			1,145	432	43	670		33,620	35,439	181	55,700	15
2,036	959,007			21	2,897	199,058	131,150	22,505	37,110	8,293	1,297,060	1,199,972	97,097	5,014,908	16
212	109,073	172	42,794	13	2,177	52,537	20,308	1,858	17,418	13,453	170,935	165,995	4,940	549,175	17
39	16,700	3	800	1	150	4,130	1,630	380	2,140		227,156	225,101	2,052	307,080	18
5	2,535			4	608	1,127	434	3	190		8,795	8,795		17,900	19
559	238,285	6	1,835			102,904	86,520	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	637,337	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	8,582	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	10,573		339,902	332,601	7,311	645,133	23
309	162,735	1,086	214,824	19	3,947	89,919	30,850	2,827	56,242		619,938	608,969	10,969	1,408,030	24
1,018	869,347	41	6,865	58	7,845	97,832	16,959	5,918	74,523		1,207,586	1,195,671	12,015	1,905,236	25
955	389,380	26	5,755			79,925	12,082	5,762	61,857		783,380	769,485		1,593,174	26
319	180,416	15	4,905			63,887	3,524	2,231	58,132		255,145	250,629	4,516	760,200	27
2,777	1,871,120	645	141,657	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	981,076	968,136	776,540	4,629,567	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	152,131	14,781	6,614	58,584	72,232	976,864	969,730	10,376	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	111,793	1,812,865	6,916,060	6,900,651	16,009	14,046,476	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	347,458	15,961	28,630	298,576	4,291	4,027,295	3,962,315	64,980	7,188,271	35
737	322,030	50	11,550			212,219	3,282	6,090	202,847		571,614	558,612	13,102	1,942,625	36
7,051	3,310,330	199	55,621	24	3,599	813,400	120,153	73,176	610,761	9,310	8,262,052	8,164,786	97,266	15,919,173	37
11,520	6,082,128	14	4,924			391,581	1,350	58,321	327,558	4,352	5,963,808	5,852,049	111,759	12,075,182	38
229	137,385					13,471	2,000	2,014	9,457		93,617	87,497	6,120	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		8,781	8,626	155	16,745	43
376	186,621	11	2,913	2	270	85,214	6,865	5,205	22,884	200	8,054,761	8,016,495	38,269	3,808,996	44
583	333,063	24	7,000	2	269	157,810	7,587	16,744	132,877	602	2,083,721	1,983,078	95,643	3,576,260	45
						587	484	5	98		4,614	4,518	90	10,774	46
15	5,582	8	1,892			12,445	1,196	84	10,965	200	33,188	32,783	405	101,667	47
31	15,699					1,927	1,362	25	560		339	129	210	22,000	48
3,027	1,611,993	2,116	627,772	47	6,441	1,001,894	338,911	20,453	129,133	513,347	3,411,166	3,376,592	34,574	8,954,872	49
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	50
83	16,128	140	35,240	1	200	6,036	3,864	39	2,133		14,221	13,110	1,111	94,283	51

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	767	\$322,532	\$36,455	\$51,524	\$66,376	\$168,177	872	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	678	229,703
55	Coffins, burial cases, and undertakers' goods.	14	2,073,415	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	135,780	192,466	329,487	1,148,415	329	288	201,218	1,730	545,889
58	Cooperage	163	1,587,151	144,166	192,151	304,254	946,577	186	68	77,205	1,703	692,278
59	Cordage and twine	9	2,147,677	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	78,921
64	Dyeing and cleaning	132	235,435	78,095	54,510	59,834	42,986	151	24	10,850	326	132,689
65	Electrical apparatus and supplies	64	7,036,103	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	116,933	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	146,325
69	Engraving and diesinking	17	38,935	6,000	10,500	18,775	8,660	23			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	3,444	57	31,748
72	Explosives	9	1,972,451	315,000	365,786	373,000	918,665	3	56	92,520	352	178,786
73	Fancy articles, not elsewhere specified	21	158,842	2,900	14,541	53,511	87,390	28	15	10,579	185	57,554
74	Fertilizers	27	1,887,937	98,767	278,879	316,003	1,179,293	26	80	103,608	400	173,888
75	Filles	9	219,079	4,400	45,458	88,719	80,502	13	4	4,200	308	119,431
76	Fireworks	6	131,100	6,000	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	88,977	1	15	12,540	161	35,448
79	Flavoring extracts	19	191,815	12,625	24,600	19,460	134,630	21	53	74,932	117	38,146
80	Flouring and grist mill products	1,150	12,631,150	863,866	2,811,132	4,584,825	4,271,827	1,621	342	302,791	2,438	1,220,898
81	Food preparations	81	5,185,405	121,817	1,641,139	1,655,037	1,767,412	34	69	72,865	1,100	365,950
82	Foundry and machine shop products	861	68,706,947	4,296,587	9,178,722	16,039,137	39,251,901	760	3,539	3,724,946	41,799	20,568,268
83	Foundry supplies	5	140,440	12,000	16,500	33,200	78,740	2	24	29,066	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	1,008	305,398
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	396	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	969,835	1,893,960	1,343,805	5,378,698	188	671	573,140	6,723	2,621,895
89	Gas and lamp fixtures	13	430,441	7,000	50,500	95,249	277,692	10	56	48,379	488	158,214
90	Gas and oil stoves	10	2,568,574	143,238	386,389	437,271	1,696,976	4	100	135,748	1,567	706,506
91	Gas, illuminating and heating	73	25,017,057	2,508,385	3,258,561	17,029,003	2,225,658	283	283	277,204	1,389	601,815
92	Gas machines and meters	7	281,864	22,633	12,511	48,945	198,875	5	26	27,758	121	94,612
93	Glass	28	5,451,513	440,375	1,810,859	1,491,031	2,208,648	9	199	249,029	4,546	2,067,384
94	Glass, cutting, staining, and ornamenting.	21	109,441			26,850	82,591	28	13	11,754	184	91,545
95	Gloves and mittens	10	168,491	2,100	4,900	68,475	93,016	15	3	2,700	178	55,247
96	Grease and tallow	18	366,152	48,550	61,435	100,729	155,438	19	8	8,365	106	56,314
97	Grindstones	20	674,014	254,320	117,495	112,449	189,750	4	50	50,500	1,028	356,168
98	Hairwork	24	38,581	4,200	4,500	2,380	27,501	26	11	4,257	67	18,722
99	Hand knit goods	4	3,815	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	1,359,860	22	130	141,279	2,662	1,086,405
102	Hardware, saddlery	7	381,816	20,125	69,650	55,465	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	1,395,652	52,900	238,957	444,984	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	58,410	299	154,561
107	Ink, printing	4	185,583	4,000	11,200	30,114	140,269		19	30,100	36	19,354
108	Instruments, professional and scientific	11	95,817	6,000	12,000	27,049	50,268	14	15	5,804	67	28,925
109	Iron and steel	107	85,628,552	5,578,396	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	58,863	118,785	287,513	523,770	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	586,280	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	300,353
114	Ironwork, architectural and ornamental.	47	2,484,771	260,229	329,921	515,449	1,379,172	39	253	247,182	1,674	738,153
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	25,880	249	133,445
117	Kaolin and other earth grinding	10	238,980	32,100	55,000	70,000	76,880	9	12	9,160	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	60,768	199,708	9	33	19,906	227	83,019
121	Leather goods	11	427,625	11,550	97,465	83,250	235,360	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 in- cluding 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	1,926	\$478,538	7	\$743	\$101,920	\$31,822	\$1,786	\$17,839	\$973	\$440,312	\$431,938	\$8,874	\$1,618,839	52
1,345	687,558	3,468	829,544	9	1,253	467,188	74,922	8,062	154,157	230,047	4,449,451	4,427,977	21,474	7,772,771	53
230	123,976	448	105,727			128,738	18,286	13,784	96,718		4,708,855	4,686,701	22,154	5,849,644	54
802	865,558	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	835,946	951	205,282	31	4,661	421,540	91,249	9,201	320,990	100	2,547,081	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	1,829,769	1,821,898	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	2,304,982	20,915	2,957,674	59
		32	8,328	1	150	2,524	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	281,045	61
714	359,238	47	15,900	2	295	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	1,013,520	63
187	94,084	135	38,065	4	540	49,707	25,618	2,443	18,386	3,810	69,286	60,668	8,568	428,771	64
2,959	1,815,876	794	181,569	23	5,325	568,201	148,956	24,880	391,900	2,465	3,838,978	3,129,662	209,816	6,504,847	65
299	139,142	7	2,584	4	734	84,098	14,305	877	18,836	80	420,094	417,760	2,344	898,300	66
169	73,167	3	1,300			11,732	5,263	1,201	5,268		38,581	34,404	4,127	179,874	67
287	105,428	179	40,897			35,878	1,375	1,237	33,266		269,041	277,464	11,577	527,825	68
26	13,958			1	104	3,607	2,564	269	674	100	7,957	7,277	680	46,743	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	30,333	70	18,221			32,631	6,073	743	25,415	400	188,279	136,205	2,074	238,141	73
394	171,768	5	2,000	1	120	112,817	1,044	3,626	107,447	200	1,016,501	996,158	20,318	1,657,058	74
255	108,181	53	11,250			4,063	1,771	942	1,350		104,183	95,728	8,455	257,330	75
185	60,000	157	32,680			30,113	614	849	28,650		62,549	61,137	1,412	277,050	76
51	21,600					2,610	1,400	110	1,300		70,408	69,896	510	251,040	77
42	16,006	118	19,274	1	168	5,427	1,200	1,051	3,176		82,685	81,824	1,881	172,113	78
50	22,969	67	15,177			38,365	6,176	1,160	30,529	500	299,459	297,397	2,062	546,891	79
2,393	1,209,466	41	10,547	4	385	626,042	26,651	111,915	478,068	8	31,474,103	31,474,103	352,647	37,890,867	80
651	278,463	389	80,136	60	7,301	390,651	8,593	8,553	378,505		5,353,580	5,324,278	29,282	7,166,532	81
41,367	20,467,834	359	81,355	73	14,079	4,806,682	277,302	302,853	3,715,217	511,310	31,578,984	30,465,709	1,113,225	72,999,632	82
80	37,704			2	470	17,594	3,530	1,179	12,885		185,025	182,225	6,800	260,977	83
581	158,919	841	123,826	186	22,648	73,781	4,334	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	291,321	85
63	25,870	333	61,541			35,292	5,198	710	29,389		372,665	370,024	2,041	702,782	86
551	284,060	43	11,591	11	1,890	66,004	37,654	3,651	21,144	3,555	491,314	484,828	6,986	1,213,289	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
265	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	400			149,778	930	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	4,880	1,030	7,105		174,935	173,625	1,310	370,625	92
3,505	1,844,958	405	98,017	636	126,409	155,512	68	17,260	138,184		1,253,161	1,008,759	249,405	4,547,083	93
172	89,121	12	2,424			12,381	9,426	428	2,527		76,613	74,463	2,160	242,869	94
35	14,276	142	40,858	1	113	5,595	1,855	181	3,459	100	140,435	139,415	1,020	253,400	95
103	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	16,782			13,635	10,482	516	2,637		27,134	26,832	302	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	53,995	100
2,437	1,037,531	185	31,875	90	16,996	275,800	12,208	12,986	250,606		1,069,278	992,218	77,060	2,926,693	101
809	123,833	6	1,260			55,913	800	2,950	25,763	26,400	201,621	187,797	13,824	489,186	102
286	130,308	316	90,701	14	2,540	52,013	16,882	1,492	33,639		572,847	565,490	7,357	1,003,840	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	3	564	46,134	3,460	8,806	33,868		806,832	794,022	11,810	1,394,323	105
297	154,411			2	150	71,065	1,558	20,139	48,783	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
33,499	19,635,032	129	24,468	49	10,969	4,400,859	83,862	222,255	4,061,755	27,987	91,329,307	80,545,325	10,783,982	138,935,256	109
1,424	634,685	58	11,926	233	45,000	69,005	7,605	6,120	55,280		1,747,510	1,698,405	49,105	2,799,856	110
1,144	561,292	10	3,120			54,088	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	888,127	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	315	238,806	12,935	14,400	243,631	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	59,839	13,937	1,241	23,061	15,600	527,874	524,107	3,267	907,776	116
127	44,190	2	400			28,848	585	961	27,802		87,673	75,664	12,009	259,023	117
4	1,621			3	554	620	320	25	275		1,013	883	130	5,470	118
18	7,944	7	1,699	1	200	16,949	1,901	94	2,954	12,000	21,475	20,877	598	89,344	119
211	80,256	11	1,803	5	960	94,670	1,715	1,863	20,179	70,813	170,589	168,121	2,468	454,180	120
205	82,704	48	8,429	12	820	54,950	2,440	1,795	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	\$890,006	\$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	596,907	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	8,592,305	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	238,969	993,887	49	58	49,259	179	68,168	
127 Lithographing and engraving.	19	2,771,946	57,513	205,500	1,148,055	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	89,965	418,791	152	74	67,832	691	282,372	
130 Lumber and timber products.	2,054	13,741,418	8,071,577	939,631	3,267,283	6,462,927	2,800	365	303,421	8,539	3,298,668	
131 Lumber, planing mill products, including sash, doors, and blinds.	854	7,498,314	902,774	978,193	1,439,046	4,178,301	435	434	355,979	4,696	2,169,261	
132 Malt.	14	1,358,054	214,390	327,107	84,703	731,854	18	22	32,112	135	85,995	
133 Marble and stone work.	133	1,949,635	575,542	180,528	590,929	596,636	160	120	106,033	1,839	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	27,780	58,364	227,700	49	49	35,657	451	157,799	
136 Millinery and lace goods.	20	220,808	10,000	57,500	20,764	132,544	30	19	12,050	392	96,439	
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	152,289	
139 Mirrors.	5	243,387	9,200	26,000	72,575	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	4,575	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	12	5	2,760	40	19,748	
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	338,639	
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	66,575	607,789	12	148	143,424	93	44,864	
148 Optical goods.	17	51,655			12,008	39,647	16	3	920	54	27,671	
149 Painting, house, sign, etc.	837	880,950	87,253	126,313	155,587	510,797	1,032	85	56,020	2,535	1,333,895	
150 Paints.	45	4,306,499	490,596	474,905	483,921	2,907,077	41	395	470,581	733	336,746	
151 Paper and wood pulp.	51	7,872,913	919,335	1,585,571	2,661,501	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	76,850	744	244,439	
153 Paper hanging.	147	429,282	9,535	21,920	34,383	363,444	167	72	47,839	527	288,390	
154 Paper hangings.	3	132,789	10,726	15,000	23,412	83,651	3	11	3,596	70	27,832	
155 Patent medicines and compounds.	139	2,168,037	89,590	193,205	165,289	1,720,043	158	249	240,739	560	198,705	
156 Paving and paving materials.	192	1,446,477	161,938	117,009	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	16,515	
158 Perfumery and cosmetics.	3	64,652	300	200	5,926	53,226	6	13	12,000	40	14,795	
159 Petroleum, refining.	9	10,912,618	856,225	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			15	4,756	
161 Photography.	488	608,123	32,430	62,325	286,076	227,292	547	44	18,592	481	202,932	
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	61,184	354	182,480	
164 Plastering and stuccowork.	207	196,211	22,367	26,408	65,156	81,785	256	5	4,120	559	325,410	
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	789,786	29,337	45,438	160,222	551,159	12	91	107,474	573	242,407	
167 Plumbing, and gas and steam fitting.	612	2,056,463	153,038	172,900	254,614	1,475,911	787	233	143,853	2,794	1,540,558	
168 Pottery, terra cotta, and fire-clay products.	248	15,563,969	1,980,872	5,215,460	2,776,469	5,591,168	225	818	705,915	11,870	5,000,846	
169 Printing and publishing, book and job.	410	6,330,456	154,120	642,979	3,558,699	1,974,658	458	568	492,547	4,613	2,171,241	
170 Printing and publishing, music.	6	192,738			14,550	178,238	4	29	24,559	48	22,870	
171 Printing and publishing, newspapers and periodicals.	837	11,327,865	651,865	1,103,821	5,557,691	4,014,483	863	1,456	1,277,427	6,860	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	70,481	667,716	14	146	119,859	813	199,850	
175 Registers, cash.	5	4,922,860	49,612	488,547	423,568	3,956,133	1	296	302,835	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	114,338	1,144	551,630	
177 Rubber and elastic goods.	19	5,989,129	306,369	624,633	900,991	4,157,136	17	318	305,449	3,505	1,281,038	
178 Saddlery and harness.	850	3,203,139	326,555	631,280	310,752	2,034,622	952	208	107,023	2,229	863,330	
179 Safes and vaults.	10	3,560,778	159,000	419,820	1,054,837	1,927,021	2	124	141,056	1,327	678,868	
180 Salt.	10	796,841	78,047	268,400	308,000	142,394	3	48	42,218	678	248,397	
181 Sausage.	6	40,550	10,800	21,150	5,000	4,100	6			19	11,150	
182 Saws.	11	326,301	24,525	32,232	105,946	163,598	14	22	13,995	165	78,857	
183 Scales and balances.	5	291,777	7,000	5,000	77,000	202,777	1	44	36,037	316	153,819	
184 Screws, wood.	3	1,209,500	70,000	255,000	456,000	428,500		40	59,727	635	187,300	
185 Sewing machine repairing.	20	16,620	3,300	2,200	3,390	7,730		6	3,652	17	7,473	
186 Sewing machines and attachments.	5	3,404,137	96,000	328,660	692,420	2,287,057		157	208,094	1,306	739,621	
187 Ship and boat building, wooden.	31	233,940	90,050	35,880	52,785	105,225	37	14	9,445	368	161,123	
188 Shirts.	53	302,392	1,300	5,500	36,740	258,852	71	86	38,870	733	175,136	
189 Shoddy.	6	1,397,746	120,500	138,000	408,700	730,546		35	55,225	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	274,665	688,071	482,606	3,778,884	76	313	266,001	1,700	775,288	

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 in- cluding 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	\$3,745,759	\$28,539	\$5,182,065	122	
1,602	697,099	7	\$1,400	10	\$2,343	147,888	12,391	13,766	113,847	7,884	1,082,664	709,050	373,605	2,709,481	123	
317	174,798	12	3,868	6	491	9,622,588	5	15,550	9,607,028		1,438,507	1,360,136	77,641	12,417,268	124	
3,420	2,284,958	5	852	39	6,842	8,101,240	12,120	217,434	7,874,086		4,277,812	3,895,656	382,156	18,522,639	125	
170	67,227	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	78,138	2	840	159,370	28,313	9,324	117,587	4,146	1,100,663	1,085,285	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	268,400	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	81,052	370,238		11,296,045	11,285,923	10,122	20,700,854	130	
4,651	2,160,825	24	5,416	21	3,023	468,648	52,391	59,897	277,088	79,172	6,549,648	6,479,537	70,111	11,066,671	131	
135	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	25,390	10,081	90,785	15,063	610,779	557,440	53,339	2,071,249	133	
4,005	2,198,833			1	147	1,018,013	15,255	4,938	51,941	941,779	2,676,464	2,653,926	22,538	7,148,133	134	
805	115,735	144	41,861	2	200	48,961	13,811	2,090	33,060		583,932	578,844	5,088	985,990	135	
43	23,267	349	73,222			18,821	9,535	801	6,873	1,612	324,459	322,944	1,515	517,540	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	4,756,090	137	
317	149,276	5	1,781	6	1,232	108,908	13,886	5,460	89,562		773,959	756,705	17,251	1,731,684	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	1,770			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	1,923,217	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	63,406	144	
704	823,202	21	10,437			115,287	6,027	5,330	103,910		687,621	679,463	8,158	1,387,454	145	
147	76,044					72,931		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	1,505,899	147	
43	21,856	8	2,332	3	483	9,675	6,087	281	3,307		42,302	41,256	1,016	121,695	148	
2,512	1,329,044	13	2,894	10	1,957	133,537	60,894	4,933	62,938	4,722	1,053,290	1,048,030	5,210	3,570,218	149	
636	303,493	98	33,253			618,050	23,576	32,090	502,334	60,000	3,201,558	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	432,997		3,768,572	3,733,277	485,295	6,543,513	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	465,487	2,250	1,155,400	153	
58	25,482	12	2,400			9,444	312	732	8,400		57,886	56,066	1,820	117,472	154	
261	127,952	293	70,761	6	592	1,232,904	27,727	7,458	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	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	7,267	30	7,528			35,528	1,905	248	33,375		62,685	62,477	208	155,826	158	
965	541,261	43	10,431			620,661	4,747	53,655	561,259	400	6,177,048	5,851,457	325,591	8,396,977	159	
8	3,342	1	1,414			3,435	700	111	2,371	250	9,799	9,491	303	32,025	160	
279	146,141	191	55,837	11	1,604	141,890	98,715	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	87,898	185	44,582			181,652	7,145	3,011	119,996	1,500	731,201	728,317	5,887	1,305,249	163	
558	325,261			1	149	16,132	6,403	1,152	7,245	1,332	805,371	804,446	886	905,797	164	
238	113,463	6	1,850			11,208	1,380	1,236	8,152	440	144,894	142,988	1,896	321,676	165	
577	241,527			1	520	55,367	13,022	3,698	37,547	1,100	624,748	611,310	11,438	1,204,765	166	
2,772	1,536,110	4	1,145	18	3,298	222,099	112,443	12,465	83,381	13,810	3,466,857	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	11,651,225	168	
3,413	1,856,288	1,132	304,830	68	10,123	823,070	157,826	31,160	397,570	286,514	2,749,600	2,674,970	74,630	7,941,570	169	
82	19,908	6	1,560	10	1,402	135,000	2,400	3,172	77,433	51,945	23,761	23,370	391	260,658	170	
4,907	2,734,987	1,149	800,146	304	84,463	1,733,236	181,756	60,616	1,153,319	334,605	2,883,006	2,779,464	103,542	12,189,640	171	
10	5,216					1,947	1,385	30	532		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	89,561	590	110,081	2	208	223,767	8,922	7,330	207,216	300	929,173	924,702	4,471	1,624,065	174	
1,788	1,109,404	181	64,240			903,984	2,379	7,423	894,182		857,749	828,959	28,790	5,414,711	175	
1,133	519,635	5	1,112	6	833	133,667	33,978	10,659	85,638	2,392	2,004,347	2,886,979	17,368	4,424,810	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	7,830,104	177	
1,819	780,910	340	76,145	40	6,275	224,242	78,912	24,084	120,857	390	2,933,855	2,930,728	23,127	5,111,345	178	
1,319	677,410			8	1,456	125,668	7,730	10,949	106,989		1,123,010	1,102,437	20,573	2,407,655	179	
543	215,975	133	27,102	2	320	98,342	6,656	85,709	85,709	977	423,875	274,686	149,289	818,200	180	
19	11,150					1,424	438	842			70,398	78,866	1,032	106,877	181	
165	78,357					11,688	3,402	1,453	6,833		131,467	125,479	5,988	325,918	182	
311	157,319	5	1,500			76,612	3,060	1,277	22,275	50,000	257,580	253,727	8,553	634,058	183	
353	146,500	282	40,800			46,183	6,832	39,351	184		253,054	245,054	8,000	630,608	184	
14	7,121	1	150	2	202	8,411	1,834	1,443			14,306	14,090	216	46,020	185	
1,275	732,457	18	4,980	13	2,184	106,987	3,200	14,615	149,172		1,445,745	1,433,046	12,699	2,922,959	186	
388	161,123					28,908	3,360	1,704	6,994	11,850	202,516	190,479	3,037	485,581	187	
69	35,152	663	139,880	1	104	50,986	13,453	712	19,454	17,867	405,340	401,749	3,591	833,258	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	3,240</									

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 imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
192	Slaughtering, wholesale, not including meat packing.	11	\$181,400	\$22,175	\$82,550	\$22,175	\$51,500	14			65	\$36,110
193	Soap and candles	55	7,655,594	600,720	1,852,268	910,350	1,292,256	53	360	\$390,180	1,427	572,301
194	Sporting goods	9	314,202	6,800	21,200	59,808	226,399	6	26	23,821	349	127,059
195	Stamped ware	6	767,370	123,000	107,000	303,366	234,004	5	34	36,239	384	136,719
196	Starch	8	2,073,209	705,000	875,000	269,703	223,506		31	39,815	199	78,159
197	Stationery goods, not elsewhere speci- fied.	5	1,402,655	80,500	124,490	247,501	950,164	5	91	83,777	968	266,741
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	193,884			86,608	107,276	12	38	33,489	186	108,050
201	Sugar and molasses, refining	21	97,349	1,257	4,090	18,469	73,583	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			580	3,900	5			1	156
204	Tin andterne plate	12	1,153,265	53,300	101,335	405,327	593,303	1	88	33,301	697	394,676
205	Tinsmithing, coppersmithing, and sheet-iron working.	885	3,427,962	306,448	498,269	763,832	1,859,413	1,052	240	201,030	3,395	1,436,861
206	Tobacco, chewing, smoking, and snuff.	19	2,081,858	34,421	181,600	350,816	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	2,579,399	85	64	86,414	2,056	552,598
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	806,630	23,301	86,804	61,599	184,926	17	31	16,062	350	102,719
211	Trunks and valises	23	356,259	22,800	36,500	41,857	255,092	29	49	40,150	423	159,664
212	Umbrellas and canes	20	306,200	2,500	20,700	57,579	225,430	20	49	32,375	292	90,173
213	Upholstering materials	13	473,543	35,900	64,750	146,070	226,823	18	19	26,646	188	66,491
214	Varnish	20	1,195,885	90,081	163,352	84,519	857,933	21	120	165,317	109	76,841
215	Vinegar and cider	118	265,682	28,257	57,888	94,224	85,213	143	18	18,617	102	34,867
216	Washing machines and clothes wring- ers.	17	80,690	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	81,420	134,895	207,466	788	5	2,430	534	276,304
218	Whips	4	184,130	4,000	26,571	27,803	125,756		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	26,715
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	194,546	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	25	1,591,445	112,745	280,978	472,411	725,311	28	57	64,776	636	201,547
225	All other industries ¹	87	12,638,102	1,183,930	1,646,642	3,568,887	6,293,643	68	423	530,842	7,466	3,548,455

¹ Embraces axle grease, 1; babbitt 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.

	All industries	481	\$24,199,310	\$1,208,661	\$4,596,380	\$5,970,118	\$12,424,156	427	1,130	\$1,019,025	9,080	\$3,971,307
1	Bicycle and tricycle repairing	5	2,830			1,145	1,685	6			3	1,025
2	Blacksmithing and wheelwrighting	31	21,080	8,110	5,150	3,840	4,480	84			25	14,124
3	Boots and shoes, custom work and repairing.	30	3,472	525	475	1,695	777	31			4	1,600
4	Bread and other bakery products	19	26,717	2,725	6,575	8,711	8,706	18	9	4,309	34	15,905
5	Brick and tile	3	84,813	15,000	28,000	12,539	28,674	6	4	2,510	72	29,299
6	Brooms and brushes	3	2,640	700	625	340	975	3			6	2,920
7	Carpentering	16	40,469	3,600	9,400	6,004	21,465	19	4	2,430	97	44,533
8	Carriage and wagon materials	3	146,292	22,987	43,754	29,109	50,492		14	14,450	133	62,865
9	Carrriages and wagons	5	59,375	18,000	10,100	5,475	25,800	6	3	2,360	24	11,134
10	Clothing, men's, custom work and repairing.	27	37,544	2,200	825	2,150	32,369	29	1	1,200	92	40,261
11	Clothing, women's, dressmaking	9	2,075			1,545	590	9	4	2,500	68	11,976
12	Confectionery	3	25,150	2,400	3,200	3,525	11,025	3		3,504	35	18,958
13	Electrical apparatus and supplies	3	77,900	10,400	11,000	12,500	44,000	1	2	4,700	27	12,116
14	Foundry and machine shop products	19	3,589,551	145,108	416,460	397,753	2,580,230	13	207	154,646	1,171	608,560
15	Furniture, cabinetmaking, repairing, and upholstering.	7	17,102	6,900	1,200	2,707	6,295	7	1	275	14	7,090
16	Looking-glass and picture frames	5	4,330			530	3,800	6	1	900	7	4,000
17	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	53,450
18	Masonry, brick and stone	12	22,490	600	1,200	5,200	15,400	15	1	600	107	61,750
19	Millinery, custom work	14	47,150	7,000	5,000	1,150	34,000	16	8	4,680	64	20,350
20	Painting, house, sign, etc	19	128,499	4,850	28,968	32,855	61,826	21	7	7,958	109	61,000
21	Patent medicines and compounds	6	48,416	500	500	1,300	46,116	5	3	2,600	5	1,194
22	Photography	11	14,985		125	8,265	6,595	14	1	450	10	4,048
23	Plastering and stuccowork	3	1,475			425	1,050	3			12	8,200
24	Plumbing, and gas and steam fitting	10	32,040			3,200	28,750	17	4	1,920	54	25,979
25	Pottery, terra cotta, and fire-clay products.	18	1,455,246	150,587	637,284	315,571	351,824	8	45	42,229	900	411,849

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 in- cluding 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					\$19,380	\$780	\$980	\$17,670		\$921,159	\$917,268	\$3,891	\$1,051,476	192
988	473,755	401	\$93,002	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	797,594	194
373	135,472	11	1,247			23,942	4,440	2,919	16,588		297,849	287,980	9,869	570,610	195
157	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	3,426	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	3,558	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	7,348	16	4,194	2	358	3,044	1,927	64	1,053		7,232	6,939	293	41,070	202
				1	156	752	650	34	68		1,435	1,385	50	5,040	203
564	353,649	133	41,027			38,963	1,800	3,631	33,582		5,012,175	4,997,786	14,389	6,023,314	204
2,829	1,317,350	422	93,086	144	26,425	268,601	101,246	22,524	137,186	7,645	8,972,984	8,928,677	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
8,738	1,642,778	5,156	1,851,179	152	22,115	2,613,678	142,744	22,537	2,447,769	628	8,717,825	8,697,039	20,786	11,239,824	207
776	238,077	1,237	204,405	43	5,111	141,173	8,497	13,483	116,193	3,000	2,587,583	2,582,421	5,162	3,839,952	208
728	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	163,616	2,932	348,307	210
368	147,964	43	9,222	17	2,478	37,093	17,820	2,357	16,921		358,870	354,683	3,687	696,988	211
184	46,649	155	42,900	3	624	20,686	9,952	1,759	8,975		306,555	303,876	3,179	518,994	212
139	53,961	47	12,180	2	350	23,095	4,696	2,515	16,884		423,067	418,514	4,553	614,346	213
108	76,541	1	800			165,960	5,110	8,494	152,356		910,910	901,678	9,232	1,533,623	214
94	32,807	6	1,340	2	160	18,756	668	1,777	16,296		147,999	141,641	6,358	302,405	215
67	31,349			1	120	7,831	3,740	538	3,533		129,534	126,767	2,767	214,604	216
497	268,508	24	6,261	13	1,535	102,009	74,207	4,877	18,435	4,490	207,698	199,168	8,530	1,021,897	217
84	27,470	62	12,959			26,366		1,179	25,187		151,192	129,837	1,355	267,879	218
110	62,259					9,774	140	3,202	8,372		85,744	85,104	640	174,398	219
41	21,615	19	5,100			9,045	5,400	405	3,240		202,190	201,330	860	283,935	220
903	331,576	73	20,606	1	180	92,689	9,099	7,078	74,512	2,000	803,813	794,342	9,471	1,523,375	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	57,674			1	100	21,025	781	1,761	18,433		83,452	80,267	3,185	205,000	223
266	110,850	341	87,037	29	3,660	86,394	2,100	7,936	76,358		869,236	851,139	18,047	1,321,751	224
6,198	3,208,056	1,233	334,295	35	5,504	1,228,886	38,393	45,552	870,564	274,377	9,870,163	9,720,222	149,941	17,603,694	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 founding, 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	58	5,500	2
25	14,124					2,645	2,171	181	293		11,380	13,436	944	53,252	3
4	1,600					1,608	1,577	18	18		7,966	7,763	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	29,299					7,636		434	7,202		17,998	17,988	17,010	75,769	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					12,682		1,070	11,562		78,099	75,566	2,533	186,798	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
23	13,654	68	11,976			4,091	4,039		52		21,450	21,400	50	53,450	12
26	11,700	12	4,404			2,352	1,600	310	442		30,630	29,585	1,045	70,000	13
1,165	606,310	6	2,250			3,348	50	258	3,040		14,613	13,553	1,060	41,250	14
13	6,990	1	100			244,777	352	15,162	119,693	109,570	745,852	715,361	30,497	2,094,789	15
						1,697	779	142	776		8,353	8,067	286	28,528	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	61,760					809	385	71	353		71,780	71,655	105	187,708	19
105	60,040	64	20,350			21,528	8,548	610	12,370		66,506	66,224	282	138,698	20
		4	960			23,595	618	149	22,828		125,495	124,188	1,367	256,006	21
1	450	4	744			11,124	555	86	10,483		13,435	13,345	90	36,250	22
7	3,473	8	575			2,626	2,229	29	368		11,282	11,046	236	32,367	23
12	8,200										7,575	7,575		19,300	24
54	25,979					5,803	2,528	233	3,047		64,502	64,352	150	120,453	25
785	387,399	113	24,150	2	300	64,474		12,307	49,667	2,500	215,456	101,273	114,183	367,116	26

TABLE 8.—MANUFACTURES IN CITIES

AKRON—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Num-ber of estab-lish-ments.	CAPITAL.					Propri-eters and firm mem-bers.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Num-ber.	Salaries.	Total.	
											Average number.	Wages.
27	Printing and publishing, book and job.	13	\$2,195,040	\$40,150	\$500,050	\$1,018,589	\$686,251	10	111	\$98,611	903	\$431,763
28	Printing and publishing, newspapers and periodicals.	5	217,390	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	2,677	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	455,316	2,344,272	3,100,158	5,047,996	53	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;

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1	All industries	502	\$10,094,813	\$935,518	\$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	202,360	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	4,292
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	Carpentering.	28	144,880	23,200	15,100	11,885	94,105	80	2	1,500	212	111,597
10	Carpets, rag.	3	2,395	200	200	325	1,670	3			2	452
11	Carriages and wagons.	7	34,800	7,600	5,900	3,375	17,925	12	1	150	33	15,487
12	Clothing, men's, custom work and repairing.	28	19,689	2,350	2,450	2,810	12,079	31	3	1,174	86	39,308
13	Clothing, women's, dressmaking.	52	21,132	975	1,600	5,320	13,237	59			110	24,378
14	Confectionery.	9	41,610	3,600	6,700	5,300	26,010	10	12	7,000	28	8,534
15	Dyeing and cleaning.	6	2,976	400	800	1,740	535	6			8	3,370
16	Electrical construction and repairs.	3	6,905			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	118,128	125,888	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	23,038	68,759	40,916	244,602	1	27	34,020	236	110,926
21	Hardware, saddlery.	3	234,816	15,200	57,650	41,265	120,701	4	16	16,166	225	87,687
22	Iron and steel.	3	768,783	67,531	93,180	233,105	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	47,618	304	109,320
24	Lamps and reflectors.	3	150,494	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	8,085			450	7,635	4			6	2,850
27	Masonry, brick and stone.	22	62,995	11,550	16,040	10,115	25,290	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	27,937	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	4,500	3,525	49,950	6	12	8,884	69	36,223
34	Pottery, terra cotta, and fire-clay products.	3	131,800	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	63,575	5	5	4,400	23	12,692
38	Saddlery and harness.	8	170,117	8,000	43,000	19,536	98,581	8	12	10,715	207	62,656
39	Tinsmithing, coppersmithing, and sheet-iron working.	17	27,096	4,200	5,575	4,060	13,261	13	2	600	35	16,563
40	Tobacco, cigars and cigarettes.	15	13,478	850	1,500	1,420	9,708	15	8	1,416	48	13,647
41	Watch, clock, and jewelry repairing.	8	7,078	300	700	2,220	3,858	9			9	4,832
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	3,077,038	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 in- cluding 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	320	\$34,218			\$375,444	\$4,090	\$13,141	\$193,018	\$165,200	\$535,907	\$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
2,098	858,171	574	146,169	5	\$1,065	223,697	800	34,556	188,541		3,571,677	3,484,391	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	87	1,879		8,789	8,708	81	21,930	33
12	4,725					2,054	1,720	39	295		2,614	2,545	69	18,625	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	\$765,648	\$220,908	\$5,604,399	\$5,406,643	\$197,756	\$12,258,427	1
586	267,619					139,608		7,747	131,861		539,262	528,397	10,865	1,184,949	2
12	6,237					1,825	1,244	45	586		17,570	17,227	343	88,868	3
17	7,290					2,144	1,805	185	154		11,128	10,410	718	39,882	4
12	6,813					2,065	1,666	97	302		12,514	12,098	416	85,707	5
8	3,892	1	400			1,271	100	120	1,051		28,982	28,862	120	43,104	6
89	18,446	8	2,105			3,406	1,466	306	1,634		58,892	56,891	2,001	120,414	7
165	82,401			6	1,080	37,993		1,367	36,626		63,141	23,245	89,896	255,800	8
212	111,587					81,591	489	739	2,878	77,485	315,600	315,003	597	585,228	9
2	452					228	173	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	1,008	50	36,776	35,620	1,156	103,713	13
17	6,414	11	2,120			2,465	1,054	382	1,049		31,090	30,510	580	51,489	14
3	2,220	5	1,150			814	231	16	567		2,288	2,090	193	12,383	15
6	2,520	1	182			507	336	10	221		5,405	5,383	77	13,300	16
7	4,858					3,707		667	3,040		142,728	141,430	1,298	165,684	17
484	198,812	12	1,679			31,431	578	2,726	28,177		281,646	272,448	9,198	692,650	18
2	1,200	1	260			612	276	22	314		3,856	3,825	60	11,500	19
236	110,926					22,201	210	1,495	20,496		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	100,005	46	8,550	1	165	60,504	132	1,951	58,421		715,047	710,022	4,126	1,078,664	23
64	23,974					72,661	490	895	3,522	67,813	68,371	67,648	723	215,460	24
6	2,850					246	192	4	50		1,333	1,280	73	3,318	25
136	99,794					1,665	841	64	360	400	14,740	14,435	305	25,170	26
70	41,721	45	16,118			73,466	240	410	3,016	69,800	85,891	85,533	848	301,992	27
48	24,454			1	196	5,233	4,030	149	1,054		62,427	61,355	1,072	117,275	28
7	3,869	4	970			4,615	1,927	415	2,273		29,859	29,454	405	110,710	29
27	20,712					596	114	62	420		16,812	16,762	50	48,361	30
69	36,223					4,795	1,811	137	2,647	200	12,440	12,949	491	42,300	31
67	26,359	9	1,375			1,006	316	108	582		15,625	15,515	110	48,110	32
19	9,523	4	806			4,465	2,066	376	2,023		68,231	67,875	356	142,195	33
66	33,140	13	2,900	1	100	8,714	1,800	174	2,740	4,000	23,050	6,898	16,152	81,481	34
22	12,360					1,544	789	182	623		7,111	6,564	547	26,882	35
130	50,597					16,484	1,880	291	14,313		31,162	29,720	1,442	117,048	36
34	16,263	1	332			4,458	872	233	3,365		101,177	100,660	517	158,398	37
19	9,202	77	12,059			21,643	1,348	1,122	19,173		215,067	213,812	1,255	331,190	38
9	4,892	1	300			2,584	1,548	174	812		28,947	28,421	526	68,733	39
14	5,003														
2,033	1,036,118	491	142,255	13	1,770	13,190	989	45	12,156		16,125	15,860	265	54,195	40
						1,475	898	24	433	120	2,699	2,413	286	12,185	41
						164	12	24	128		802	99	203	7,525	42
						387,776	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; stationery 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	\$109,582,142	\$10,024,369	\$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	3	5	3,764	28	7,640
5	Bags, paper	7	188,755			65,106	123,649	4	35	26,473	126	88,073
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	3,000	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	3	4,850	15	7,800
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	78,936
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	1,550
14	Boots and shoes, custom work and repairing	292	88,769	10,400	12,580	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	2,746,135	59	392	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	131,198
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	227,870	6,500	19,500	73,990	127,980	22	28	37,538	128	49,516
25	Carpeting	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	4,608
27	Carriage and wagon materials	13	792,222	51,750	81,800	121,790	533,882	14	33	28,890	629	305,024
28	Carriages and wagons	63	3,488,763	301,050	310,974	153,640	2,717,499	71	280	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	2,760
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	790,910	37,205	27,280	29,625	696,826	322	61	45,900	880	424,650
34	Clothing, men's, factory product	351	8,262,371	101,225	150,610	96,743	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	52,850	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	42,197
39	Coffins, burial cases, and undertakers' goods	4	1,248,901	101,225	237,375	230,349	659,952	2	52	64,201	492	225,010
40	Confectionery	53	733,261	71,250	83,056	107,547	471,408	64	92	80,722	518	178,869
41	Cooperage	35	802,397	67,400	80,395	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	3,992	24	12,345
43	Druggists' preparations, not including prescriptions	6	624,600	30,000	50,000	42,100	502,500	11	99	140,068	135	33,187
44	Dyeing and cleaning	21	82,215	39,170	21,800	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	4,560	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 plate printing	5	17,886			4,800	13,086	5	5	5,684	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	93,588	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	151	10,363,917	722,378	1,073,357	3,188,314	5,379,868	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	66,650			5,050	61,600	11	18	7,593	178	43,964
60	Furniture, cabinetmaking, repairing, and upholstering	54	76,414	6,800	5,400	15,531	49,183	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	2,355	966,162
62	Gas machines and meters	4	267,364	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	23,048	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	\$22,873,620	\$1,649,757	\$562,399	\$17,792,211	\$2,869,258	\$77,539,292	\$76,516,468	\$1,022,824	\$157,806,834
4	2,000					959	760	9	190		1,082	1,050	32	6,600
24	12,856	16	4,575			6,221	2,560	896	2,465	800	36,192	35,921	271	71,907
13	4,640	15	2,000			2,815	1,675	90	1,050		64,330	64,005	325	88,800
67	24,924	59	13,149			10,763	4,034	490	6,239		324,156	320,006	4,150	463,472
22	11,908	22	6,146			20,979	3,360	629	16,930		108,414	106,910	1,504	198,000
13	4,062			3	300	1,843	1,103	113	627		3,835	3,835		18,250
21	11,472			1	203	4,323	3,630	138	520	35	11,205	10,637	568	42,520
15	7,800					3,146	1,611	5	1,530		23,435	23,430	5	48,246
323	179,106			1	125	80,667	22,744	2,608	5,140	175	118,936	111,032	7,904	518,716
101	53,217	72	19,699	6	1,020	17,027	7,553	505	1,913	7,056	40,142	38,261	1,941	183,822
6	3,700	3	800			790	570	80	140		72,436	72,304	132	97,080
3	1,400			1	150	1,041	348	3	190	500	7,750	7,750		15,500
158	65,397	3	872	3	468	23,152	23,074	894	3,684	500	80,662	79,870	792	325,748
3,922	1,498,941	2,654	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
5	2,400					1,623	876	37	710		11,396	11,396		20,100
116	41,992	123	28,093	1	134	16,618	1,585	974	14,059		216,280	214,483	1,797	353,900
116	43,156	423	90,642	4	400	33,805	12,840	709	20,756		153,428	149,708	3,720	425,734
196	83,900					14,595	8,610	1,900	9,185		317,530	314,036	3,494	475,632
436	181,249	19	4,850			23,680	8,318	1,641	13,671		275,307	269,513	5,794	571,782
61	20,450					12,680	2,421	111	10,145		37,180	36,530	650	105,400
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
54	30,858					7,358	3,870	209	3,270		12,016	12,016		65,650
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
1,157	729,537			3	520	790,787	24,328	3,682	42,057	720,070	1,294,503	1,290,212	4,291	3,418,563
8	2,837	7	1,466	2	280	2,525	1,394	19	1,112		4,295	3,965	330	23,055
610	301,844	9	1,920	10	1,260	54,955	9,229	2,817	42,509	400	615,279	610,995	4,234	1,136,940
2,055	1,088,989	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
466	262,211	4	1,246			36,886	500	994	31,747	645	147,715	142,873	4,842	464,245
94	51,789					59,876	4,867	3,740	51,260		692,351	672,957	19,394	957,446
6	1,550	7	1,200			9,090	800	25	8,265		18,777	18,679	98	56,400
31	15,699					1,927	1,362	25	510		339	129	210	22,000
570	348,950	292	73,069	18	2,631	319,890	85,629	3,141	31,870	199,350	838,525	834,302	4,223	2,169,113
1,303	764,072	2,347	548,276	134	13,697	1,588,198	112,567	17,376	326,867	1,131,388	6,640,040	6,619,629	20,451	11,950,648
19	8,388	125	31,780			4,356	3,264	31	1,061		12,796	11,930	866	74,518
46	19,974	583	145,815	5	580	38,036	29,579	860	7,222	375	177,558	176,429	1,129	583,315
308	132,829	1,048	264,736	7	1,053	123,541	25,885	2,270	40,864	54,522	1,173,226	1,167,212	5,984	2,074,805
67	81,677	42	10,520			30,899	6,180	3,113	21,606		1,159,871	1,152,155	7,716	1,416,395
416	205,815	76	19,195			95,179	6,364	3,829	84,986		461,727	457,732	3,995	932,007
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
703	281,504					36,947	4,120	4,539	28,288		627,518	624,626	2,892	1,110,860
24	12,345					2,149	1,300	156	693		6,106	4,941	1,165	36,551
79	20,284	54	12,539	2	364	48,075	2,800	1,930	43,975		242,943	240,297	2,646	792,160
71	32,171	43	12,996			11,832	6,636	968	3,218	1,010	24,041	22,179	1,862	118,279
231	98,075	2	600			32,160	9,333	2,161	20,466	200	530,299	526,132	4,167	813,130
85	43,184			3	534	11,298	6,161	118	4,939	80	122,640	121,826	814	356,959
52	27,935	2	800			5,422	1,150	994	3,278		16,096	14,456	1,640	66,835
26	10,244	16	3,740			2,582	650	101	1,831		23,715	21,181	2,534	48,744
18	9,332			1	104	2,608	1,714	265	529	100	6,078	5,615	563	33,418
18	7,384	10	2,422			2,470	1,811	114	545		5,975	5,790	185	34,760
48	27,550			2	208	4,870	2,103	92	2,600	75	9,265	9,035	180	78,800
20	8,865	6	1,283			2,613	1,980	40	593		20,866	20,370	496	56,067
9	4,636	3	780			9,174	1,012	812	7,350	500	42,340	42,335	555	69,100
53	27,900	8	2,185			19,461	8,946	1,735	13,780		676,760	670,160	6,600	789,114
16	6,253	41	8,844	4	400	6,973	2,748	98	4,127		42,492	40,752	1,740	90,783
6,603	3,193,527	60	15,017	17	2,849	964,178	124,782	53,434	699,242	86,670	4,963,461	4,836,610	126,851	11,705,778
59	29,004					10,403	3,120	1,123	6,160		108,450	104,100	4,350	210,000
5	3,760	14	4,020	1	96	1,575	1,180	100	295		18,435	18,350	85	33,785
43	16,520	135	27,444			5,163	3,150	227	1,786		97,209	96,538	811	248,680
107	58,231	2	450	5	784	16,539	11,243	286	3,660	1,350	75,745	74,977	768	213,764
2,318	976,927	36	9,049	1	186	194,789	44,685	22,485	127,594	25	1,563,651	1,545,055	18,596	3,594,196
97	88,872					9,555	4,100	990	4,465		159,394	158,290	1,104	320,425
121	68,308	9	1,980			8,572	6,194	248	2,130		50,896	49,231	1,665	167,523
69	37,091					10,517	384	3,220	6,913		686,525	677,293	9,232	788,837
1	260	34	8,817			5,418	3,976	400	1,642		16,847	16,749	98	48,061
1	600	5	966			671	588		73	10	2,645	2,624	21	7,740

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.
67 Hand stamps	3	\$5,750			\$2,200	\$3,550	3			17	\$8,012
68 Hardware	10	610,805	\$25,500	\$10,845	236,524	307,936	9	32	\$37,706	428	172,836
69 Hats and caps, not including fur hats and wool hats.	12	135,870			16,435	119,435	20	21	17,460	285	86,182
70 Hosiery and knit goods	6	409,557	27,000	51,450	142,260	185,847	7	1	3,600	231	67,403
71 House furnishing goods, not elsewhere specified.	6	78,460		18,000	14,500	45,960	7	6	5,200	35	10,250
72 Ice, manufactured	5	147,524	23,120	30,264	87,094	7,046	1	8	7,975	37	19,003
73 Instruments, professional and scientific.	4	10,000			4,900	5,200	3	8	1,980	10	6,090
74 Ironwork, architectural and ornamental.	10	267,473	69,500	19,700	66,111	112,162	10	51	48,100	287	137,990
75 Japanning	4	1,825			800	1,025	6			5	1,224
76 Jewelry	16	628,938			45,560	583,378	24	35	24,980	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	1,150	38	12,885
79 Leather goods	4	13,110			2,509	10,610	4	13	6,728	33	7,707
80 Leather, tanned, curried, and finished.	15	4,865,480	127,930	543,350	208,150	3,991,050	18	25	36,650	943	412,414
81 Liquors, distilled	3	1,522,800	103,000	168,000	110,000	1,141,800	2	34	54,696	163	97,745
82 Liquors, malt	21	11,370,912	1,821,052	3,262,482	2,139,654	4,147,724	6	193	351,248	1,282	910,986
83 Liquors, vinous	5	26,175	2,200	3,050	3,425	17,500	6	3	2,500	8	3,930
84 Lithographing and engraving	11	2,048,728	51,863	173,500	798,903	1,024,462	5	113	145,016	954	556,267
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	246,875	15	49	48,636	396	170,680
87 Lumber and timber products	6	3,173,790	1,721,784	76,494	188,200	1,187,312	9	46	62,852	604	228,791
88 Lumber, planing mill products, including sash, doors, and blinds.	17	548,239	50,250	117,000	148,050	232,339	20	31	24,832	503	274,798
89 Malt	7	508,290	24,450	93,140	18,500	372,200	10	12	15,800	68	47,289
90 Marble and stone work	19	344,845	71,900	32,300	90,195	150,450	25	18	17,400	304	150,110
91 Masonry, brick and stone	117	446,207	28,330	14,725	116,544	286,608	155	26	22,580	1,120	566,124
92 Mattresses and spring beds	9	108,193	2,500	2,500	23,361	79,832	13	12	6,474	111	38,009
93 Millinery and lace goods	11	120,964	4,000	46,000	14,267	56,697	12	8	4,434	243	65,933
94 Millinery, custom work	99	162,874	4,200	24,800	11,815	122,059	122	59	16,903	258	77,076
95 Mineral and soda waters	14	228,640	17,900	25,200	96,000	89,540	15	25	20,292	98	47,380
96 Models and patterns	20	70,600			44,550	26,050	25	8	2,680	108	64,906
97 Monuments and tombstones	19	103,270	17,390	25,320	12,210	48,350	24	8	5,480	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	30,931	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	15,428	838	478,961
102 Paints	13	1,972,263	307,794	195,206	168,317	1,300,946	15	84	107,920	230	117,312
103 Paper goods, not elsewhere specified	4	82,700		3,000	36,300	43,400	4	9	5,950	46	18,600
104 Paper hanging	78	142,948			7,568	185,380	86	33	17,158	241	132,539
105 Patent medicines and compounds	41	281,223	7,800	19,650	36,386	217,837	37	58	43,512	189	57,406
106 Paving and paving materials	38	248,757	14,850	25,999	52,699	155,209	38	41	22,090	421	199,046
107 Perfumery and cosmetics	3	33,502			4,076	29,426	4	3	2,600	29	8,195
108 Photography	32	97,450	10,500	14,100	80,275	42,675	39	14	6,736	108	52,577
109 Photolithographing and photoengraving.	6	35,230	6,800	5,000	15,775	7,675	6	4	3,562	43	21,126
110 Pickles, preserves, and sauces	8	347,650	5,000	83,000	33,950	225,700	8	33	53,000	264	106,692
111 Plastering and stuccowork	52	108,924	13,700	11,350	48,532	35,842	64	4	3,920	149	97,231
112 Plumbers' supplies	7	357,630		9,000	49,350	299,280	5	49	70,921	317	119,135
113 Plumbing, and gas and steam fitting	140	361,864	17,950	27,000	36,215	283,699	174	48	36,592	543	296,628
114 Pottery, terra cotta, and fire-clay products.	7	413,379	86,410	167,407	48,824	110,738	7	27	23,495	287	124,070
115 Printing and publishing, book and job.	115	1,680,554	55,940	56,857	1,017,050	500,707	134	127	127,762	1,617	784,122
116 Printing and publishing, music	3	190,383			13,000	177,883	2	29	24,559	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	418,567	1,044	688,148
118 Regalia and society banners and emblems.	7	258,950			28,900	230,050	8	64	46,056	342	88,058
119 Roofing and roofing materials	81	340,251	9,050	24,476	73,041	233,984	35	31	26,800	149	74,534
120 Saddlery and harness	58	781,593	59,600	105,050	70,980	545,368	69	38	80,514	478	214,707
121 Safes and vaults	5	614,594	16,000	49,000	176,200	373,394	2	60	61,280	428	206,183
122 Saws	4	71,850			10,750	61,100	4	5	3,630	29	15,057
123 Sewing machine repairing	6	7,215			1,655	5,560	5	6	3,652	9	4,991
124 Ship and boat building, wooden	4	59,800	10,100	7,000	11,900	30,800	1	4	3,700	103	32,899
125 Shirts	29	213,877	500	1,500	20,725	191,152	42	45	24,636	458	111,942
126 Slaughtering and meat packing, wholesale.	21	2,790,314	137,700	439,675	326,088	1,887,851	27	98	103,830	801	382,691
127 Slaughtering, wholesale, not including meat packing.	6	102,250	15,000	23,000	20,750	43,500	9			55	31,930
128 Soap and candles	20	1,180,827	80,630	163,742	270,415	661,040	21	38	86,961	452	157,458
129 Sporting goods	5	94,302	3,000	10,000	27,070	54,232	5	8	8,176	91	14,845
130 Stamped ware	4	236,000	65,000	25,000	30,000	116,000	2	20	21,016	85	32,133
131 Steam fittings and heating apparatus	7	669,368	43,096	62,000	95,473	468,799	7	43	48,680	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 in- cluding 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	\$286	\$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	2,694	34,488		209,785	256,433	13,352	631,862	68
135	51,552	136	32,090	14	2,540	29,078	7,048	415	21,610		241,195	239,890	1,305	447,085	69
36	19,623	170	43,678	25	4,102	16,773	1,452	969	13,702	\$650	124,226	122,034	2,192	267,244	70
23	8,142	12	2,108			2,923	708	645	1,570		66,985	66,265	720	102,600	71
37	19,008					11,134	100	3,129	7,905		26,138	7,410	18,723	81,283	72
10	6,090					8,221	1,140	114	1,967		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
8	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	540	47,120	78
28	6,975	8	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		2,490,131	2,472,275	17,859	3,446,525	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	3,023,781	8,190	74,530	2,941,061		1,402,644	1,281,899	120,745	6,387,383	82
8	3,930					5,040	1,140	350	3,550		14,925	14,925	30	34,075	83
861	536,504	92	20,573	1	130	180,325	21,233	5,834	99,112	4,146	617,299	609,432	7,867	1,065,116	84
25	10,316	1	200	1	102	5,090	4,385	111	594		8,588	7,776	813	49,308	85
375	167,448	4	1,375	17	1,866	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	480,978	425,398	5,580	887,253	88
68	47,289					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	10,826	2,754	14,186		234,973	230,153	4,820	489,990	90
1,120	566,124					298,314	7,158	784	18,726	271,646	613,167	601,114	12,053	1,804,438	91
68	26,893	43	11,116			17,526	6,956	483	10,087		140,696	139,191	1,505	233,476	92
34	16,615	209	49,318			12,089	5,855	278	4,844	1,612	110,726	109,876	850	229,100	93
6	2,656	250	74,200	2	220	58,612	39,479	1,070	11,363	6,900	274,217	273,725	492	567,135	94
98	47,380					25,098	4,690	1,133	19,275		88,715	86,930	1,785	234,533	95
103	64,906					7,383	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
833	477,563	2	800	3	598	40,857	22,131	1,078	13,752	3,846	299,557	299,045	512	1,149,192	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			6,786	2,012	275	4,499		101,700	100,300	1,400	175,500	103
239	132,039	1	300			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	168,896	4,100	119,551	147,371	2,180	584,666	105
421	199,046					29,342	6,148	1,455	15,678	6,166	289,759	289,164	605	655,142	106
4	1,767	25	6,428			28,024	900	91	22,033		40,536	40,528	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	40,802			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	276,261	111
317	119,135					13,078	6,862	1,564	8,552	1,100	389,235	383,685	5,550	676,345	112
586	295,480			7	1,148	42,662	26,168	1,595	18,314	1,585	477,095	471,692	5,403	1,147,101	113
211	104,933	76	19,187			19,056	5,280	2,344	11,432		62,294	44,920	17,374	291,062	114
1,249	685,980	385	93,516	33	4,626	177,234	60,272	7,258	77,614	32,090	866,618	839,757	26,861	2,513,458	115
25	15,258	6	1,560	10	1,402	138,830	2,220	3,172	76,793	51,645	22,080	21,750	830	250,168	116
941	651,043	38	29,773	15	2,332	587,585	46,792	17,481	389,635	133,677	835,975	820,033	15,942	3,546,013	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	684,135	119
456	208,966	12	4,312	10	1,429	62,239	11,561	4,713	45,965		632,444	628,763	3,631	1,194,474	120
423	206,183					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	21,987	1,270	58,354	122
8	4,841	1	150			2,163	968	13	1,182		10,055	10,005	50	29,250	123
103	32,899					15,047	960	445	2,142	11,500	24,254	23,873	381	98,114	124
50	26,728	407	85,110	1	104	41,686	9,696	490	14,133	17,367	268,071	265,830	2,241	561,951	125
772	375,863	10	2,600	19	4,228	419,379	23,322	13,505	382,552		8,083,282	8,042,283	41,049	9,582,057	126
55	31,930					18,510	780	815	16,915		723,370	719,620	3,750	338,120	127
287	121,998	159	34,526	6	934	71,558	9,125	6,753	47,680	8,000	1,279,312	1,265,984	13,823	1,877,062	128
81	9,845	60	5,000			10,575	1,265	809	3,701		198,823	195,915	908	245,736	129
85	32,193					6,997	3,940	1,357	1,700		138,860	136,220	2,640	244,200	130
288	169,709			5	2,000	48,412	6,030	3,032	25,027	9,323	205,915	201,607	4,248	658,378	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 imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
132 Stencils and brands	4	\$113,600	\$33,000	\$50,000	\$22,100	\$8,500	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	34,860	52,615	147,895	425,541	138	54	40,613	748	328,453
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	1,258,184
138 Tools, not elsewhere specified	10	66,997			24,501	42,496	11	11	11,324	57	30,834
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	34,299	126			113	60,466
145 Wirework, including wire rope and cable.	7	21,540	2,500	1,800	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	15,328,869	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; mucilage and

CLEVELAND.

1 All industries	2,927	\$98,303,682	\$7,649,793	\$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	32,126
5 Bicycles and tricycles	12	817,204	21,400	80,852	439,554	275,398	11	52	48,595	618	210,208
6 Blacksmithing and wheelwrighting	152	118,564	34,215	31,010	19,000	84,339	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.	236	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	135,475	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	62,689	280,769	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	724,266	122,900	149,615	283,015	169,086	103	118	84,825	552	285,439
17 Brick and tile	10	339,400	153,000	84,800	68,400	33,700	13	6	5,030	216	119,654
18 Bridges	3	1,181,158	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	49,689	11	10	9,540	132	44,765
20 Carpentering	76	243,090	23,110	25,475	30,455	164,050	93	10	6,320	628	305,323
21 Carpets, rug	13	10,420	1,075	1,275	3,400	4,670	14	2	1,170	26	11,256
22 Carriages and wagons	43	481,147	66,050	67,920	46,200	309,977	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	257,930	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	8	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	8,050	100	600	1,350	1,000	4			80	11,450
29 Clothing, women's, dressmaking	42	29,814	4,600	3,800	4,599	16,815	47	4	1,660	182	52,705
30 Clothing, women's, factory product	77	1,598,155	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	248,725	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	3,884,076	147,930	891,487	1,288,508	1,556,151	8	180	188,707	1,961	820,334
36 Electrical construction and repairs	9	29,438	100	500	8,433	20,450	10	5	2,832	75	31,529
37 Electroplating	5	22,800			14,500	8,300	4	3	1,873	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	88,192	2	18	18,160	49	18,822
41 Flouring and grist mill products	4	396,500	16,000	48,250	188,750	198,500	3	15	15,920	60	35,780
42 Food preparations	11	79,512	7,212	21,500	12,707	38,093	12	15	10,724	88	26,955
43 Foundry and machine shop products	127	11,688,326	804,246	1,624,857	2,662,557	6,598,666	100	719	793,528	8,658	4,487,398
44 Fur goods	10	66,145			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	11,848	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 in- cluding 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	\$500	\$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	72,490	141	49,226			1,047,285	8,078	2,183	1,037,024		688,052	683,584	4,408	1,987,464	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	203	7,943	177	51,843	53,886	1,457	184,962	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		161,539	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	4,450	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	8,404	4	419	15,129	12,933	134	1,702	360	34,708	33,494	1,214	102,830	144
26	10,788			1	180	8,915	1,225	240	1,450	1,000	35,540	34,795	745	60,550	145
167	70,418					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		6,336,203	6,242,852	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.

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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	578	8,671	3,350	77	5,244		79,866	78,181	1,685	154,125	3
56	31,613			6	613	12,530	9,411	94	2,775	250	54,997	54,288	709	151,400	4
597	196,315	21	13,893			44,082	6,194	3,569	34,319		419,917	410,971	8,046	862,024	5
207	131,292			6	824	26,403	20,775	1,099	3,114	415	106,564	100,232	6,282	443,525	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	73,203	71,895	1,308	204,703	8
284	69,494	204	42,582			20,919	5,125	232	15,512		336,272	334,255	2,017	562,335	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		25,060	24,142	918	47,600	11
70	33,895	244	53,778			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	2,664	194	143,863	139,377	4,486	270,647	14
258	159,966	15	4,905			51,207	1,100	2,120	47,987		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	119,414			2	240	17,010	3,300	1,983	10,927	800	61,824	11,662	49,662	280,854	17
524	287,525					177,049	150	3,782	23,117	150,000	1,041,898	1,025,846	16,052	2,416,595	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	1,526	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	20,942	21
465	253,971					47,862	20,262	2,936	20,494	4,170	277,971	270,876	7,095	729,292	22
1,162	608,099	3	1,001			32,512		5,347	27,165		513,764	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	1,720,313	24
3	1,580					745	156	14	375	200	4,016	3,981	35	12,947	25
448	243,269	211	50,448	19	2,441	405,929	81,999	2,943	30,282	290,705	657,249	650,214	7,085	1,857,772	26
494	221,251	967	258,811	6	701	409,058	35,980	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	2,444,825	2,433,301	11,525	4,213,248	30
118	68,068	384	76,345	4	500	255,917	23,152	964	231,801		669,999	665,176	4,823	1,705,311	31
170	71,552			9	2,280	6,486	915	1,317	4,254		102,899	102,659	240	226,328	32
42	24,969	13	3,352	1	150	853	660	10	183		3,247	3,235	12	12,300	33
1,612	744,553	46	12,080	1	150	17,079	7,170	557	7,152	2,200	14,023	11,651	2,372	131,600	34
71	30,479	394	71,681	15	4,150	875,763	135,671	16,469	222,358	2,265	1,601,653	1,477,978	123,675	3,857,923	35
		3	850	1	200	5,722	2,364	98	3,260		65,999	65,522	477	136,821	36
64	19,050					3,747	1,970	107	1,670		14,369	13,185	1,184	63,320	37
2	1,750					863	810	3	50		800	800		5,200	38
34	15,860	18	3,385			6,145	3,680	5	2,460		31,933	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		683,535	674,800	8,675	776,326	41
33	14,944	55	12,011			10,373	3,265	531	6,577		93,882	90,627	3,205	176,806	42
8,469	4,451,093	181	33,734	8	2,571	1,180,872	68,177	51,673	803,135	257,837	6,698,074	6,429,699	268,375	15,428,053	43
19	15,441	36	11,818	1	150	18,550	8,355	245	9,950		90,040	89,881	156	180,545	44
3	1,000	19	5,500			3,092	863	14	2,215		34,023	33,658	365	78,001	45
157	90,759	14	3,748	2	204	19,075	10,388	617	8,045	25	171,671	169,386	1,835	873,777	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	\$527,131	20	59	\$64,300	420	\$213,410
48	Gas and lamp fixtures.....	5	162,293			47,001	115,292	3	37	27,839	202	76,374
49	Gas and oil stoves.....	4	1,837,307	124,507	299,615	306,303	1,136,882	62	62	91,396	1,136	528,287
50	Glass, cutting, staining, and ornamenting.....	3	4,000			400	8,000	3			8	6,920
51	Hairwork.....	9	14,115			1,765	12,350	9			27	8,175
52	Hardware.....	7	1,457,340	92,577	322,500	269,115	773,143	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	131,001	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	83,657	252,617	127,108	1	27	29,812	266	85,733
56	Ice, manufactured.....	4	193,654	36,250	87,566	81,549	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	206,613	385,331	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	897	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	171,198	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	1	10	10,000	29	13,000
65	Liquors, malt.....	10	3,783,292	295,152	1,238,528	1,056,563	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	2,680
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	5	3	2,150	12	10,435
71	Marble and stone work.....	6	291,629	48,110	23,300	73,631	146,668	4	23	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	70,675	4,000	5,000	10,976	50,699	2	17	14,909	137	54,810
74	Millinery and lace goods.....	8	88,044	3,000	7,000	6,497	71,547	16	11	7,616	147	30,056
75	Millinery, custom work.....	79	163,903	41,900	30,800	8,303	82,900	89	39	20,390	286	82,353
76	Mineral and soda waters.....	6	39,950	4,000	3,500	11,700	20,750	5	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	43,804
80	Optical goods.....	3	12,258			2,958	9,800	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	3,660	5,500	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	44,063	22,275	75,690	169,145	9	34	81,290	675	281,119
86	Petroleum, refining.....	4	5,983,713	716,576	476,734	2,605,496	2,184,912	2	141	125,331	477	248,559
87	Photography.....	42	57,736	700	1,350	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	505,255	29,628	53,800	70,448	351,379	117	45	33,128	729	463,290
91	Printing and publishing, book and job.....	69	1,107,419	2,250	23,075	694,909	387,185	73	150	141,306	981	496,319
92	Printing and publishing, newspapers and periodicals.....	38	1,672,687	94,700	177,321	614,383	786,283	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	1,050,731		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	32,080			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 meatpacking, wholesale.....	10	1,827,238	66,565	104,818	74,626	1,681,279	7	173	135,886	577	235,023
102	Soap and candles.....	7	113,688	10,180	16,200	30,828	56,380	3	21	17,081	38	18,308
103	Stamped ware.....	3	521,870	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			8,500	5,200	3			10	5,906
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	85,275	71,695	133,362	112	33	28,289	882	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	56,480	568	260,364
111	Trunks and valises.....	4	85,900	18,000	30,000	9,400	28,500	3	13	9,050	121	45,555

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 in- cluding 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.										
409 173 1,136 8	\$211,090 68,539 528,287 6,920	3 29	\$790 7,835	8	\$1,530	\$51,328 24,590 110,306 1,174	\$11,852 3,656 7,491 1,044	\$2,912 156 7,491 10	\$31,064 15,778 102,815 120	\$5,500 5,000	\$510,501 101,471 1,057,234 8,400	\$505,378 98,951 1,034,546 8,330	\$5,123 2,520 22,688 70	\$1,029,569 251,599 1,905,391 19,600	47 48 49 50
2	1,680	25	6,495			6,621	5,750	106	765		7,859	7,680	179	32,150	51
1,506 127	677,290 69,396	112 200	25,293 53,611	30	6,915	211,451 20,909	450 8,681	8,883 982	202,118 11,306		483,422 293,958	429,668 293,258	53,754 5,700	1,653,374 499,739	52
52 256	25,900 83,449	489 9	105,074 2,026			49,641 5,582	8,790 580	233 1,167	15,618 3,835	25,000	387,215 293,148	384,291 289,003	2,924 4,145	748,012 511,782	54 55
26	19,203					13,630	400	6,765	6,465		30,500	10,500	20,000	95,100	56
44 6,811 1,023	18,061 8,999,711 498,835	4 103 44	824 14,518 9,426	1 233	360 45,000	3,339 1,220,277 45,639	1,372 10,000 7,530	107 39,788 3,699	1,860 1,149,735 34,460	20,753	15,749 13,490,450 1,555,760	15,214 12,149,202 1,511,530	535 1,341,248 44,230	59,280 24,276,197 2,405,856	57 58 59
887 466	445,206 233,301	10 3	3,120 780			42,125 36,205		6,144 1,585	35,981 30,945		964,599 458,124	886,002 449,430	78,597 8,694	1,874,029 875,908	60 61
32 44 29 477 135	15,161 17,900 13,000 381,780 80,300					2,050 8,628 10,012 1,447,552 18,238	1,716 681 3,300 480 6,000	56 681 285 28,955 938	278 7,947 4,027 1,418,117 11,355		14,454 105,872 71,880 840,394 80,827	13,950 102,879 67,020 785,386 76,240	495 2,493 4,860 55,008 4,587	44,400 150,577 182,500 4,033,915 309,300	62 63 64 65 66
7 46 710	2,690 21,958 321,671					2,032 11,694 97,177	1,618 5,355 15,739	28 850 7,169	336 5,489 67,702		3,886 80,232 579,083	3,586 79,467 568,863	300 765 10,220	21,560 160,031 1,236,944	67 68 69
12 415	10,435 235,708					2,907 20,645	1,120 1,635	817 1,833	970 15,042		49,440 72,382	46,475 57,514	2,965 14,868	77,950 420,558	70
243 88 9 2 24	124,176 38,590 6,652 1,200 13,775					443,698 15,259 6,102 42,892 3,069	1,525 3,320 8,680 31,477 1,500	236 530 393 1,245 236	1,862 11,409 2,029 10,170 1,333	440,075	154,746 164,605 200,258 276,048 20,084	153,940 163,098 199,608 276,046 19,785	806 1,507 585 902 299	855,020 235,714 290,440 561,216 58,637	72 73 74 75 76
113 56 89 13 410	54,099 43,735 43,304 9,000 209,447	4	1,170			5,032 3,153 125,726 2,824 20,322	2,071 1,710 6,856 2,097 12,341	347 260 1,279 89 1,118	2,614 888 116,232 638 6,378		22,447 120,363 831,789 14,400 174,900	21,136 119,410 824,960 14,175 174,053	1,311 953 7,409 225 847	123,185 195,470 1,421,089 41,500 571,469	77 78 79 80 81
271 147 24 675 436	120,638 90,586 13,154 231,119 234,465	72 22 18 41	25,787 6,705 5,999 9,094			321,690 14,577 25,005 23,063 416,029	7,390 8,887 4,476 3,230 4,747	10,467 536 464 1,253 44,511	303,833 4,754 20,065 15,585 396,741		1,308,492 106,277 84,129 287,816 1,973,473	1,291,156 105,982 83,516 284,975 1,851,671	12,336 205 583 2,841 121,802	2,192,253 317,781 213,635 747,842 2,963,169	82 83 84 85 86
46 85	80,308 16,920	30	10,990	1	130	21,203 4,604	17,092 1,424	229 65	3,682 1,925	260 1,250	50,694 4,750	50,105 3,950	589 800	181,510 44,000	87 88
147 728 772	66,816 463,054 436,792			1 14	520 2,274	29,550 54,253 117,034	4,580 21,805 46,169	1,255 2,126 3,348	23,715 22,477 49,307		150,880 1,039,923 700,052	146,222 1,032,139 683,160	4,658 7,784 16,892	323,608 1,919,734 1,787,106	89 90 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 95 427 85	4,940 52,145 144,089 45,554					980 6,078 40,397 11,503	280 2,345 650 8,131	50 462 3,100 501	650 3,271 36,647 2,521		13,970 149,703 1,045,927 82,992	13,880 149,167 1,027,725 81,967	90 546 18,202 1,025	30,800 253,841 1,494,369 197,429	93 94 95 96
699 42 4 188 559	896,022 21,400 1,664 87,979 229,407	12 58 210 18	3,000 8,832 53,735 5,616	13	2,184	115,920 1,603 3,410 63,246 175,182	500 1,450 1,032 240 180	11,570 8 25 4,682 5,524	103,850 145 2,853 58,324 169,428		860,882 13,200 88,825 945,818 6,759,023	855,479 12,885 38,410 925,613 6,733,093	5,353 315 415 19,705 25,930	1,759,320 43,950 95,370 1,308,167 7,514,470	97 98 99 100 101
86 286 31 10 100	17,858 103,129 18,006 5,905 53,388	2 11	450 1,247			9,661 16,945 5,709 1,605 17,481	1,640 500 1,800 1,010 3,756	487 1,562 386 45 331	6,442 14,833 4,023 450 13,394	1,092	105,305 153,664 56,839 4,760 17,710	101,509 151,455 56,213 4,625 15,740	3,796 7,209 626 135 1,970	173,660 325,910 143,300 19,500 117,442	102 103 104 105 106
1 877	144 205,351	2 2	808 590	1 3	150 803	601 39,607	385 16,042	4 1,817	212 20,748		1,075 324,910	1,065 320,769	10 4,141	10,300 759,828	107 108
515 408 98	242,896 240,364 40,575	426 100 20	104,561 20,000 4,512	2 3	201 468	276,227 77,346 8,591	22,069 2,800 2,700	2,055 3,337 691	252,103 71,209 5,200		410,193 264,504 75,687	407,810 257,109 74,300	2,888 7,395 1,387	1,261,012 890,842 163,000	109 110 111

TABLE 8.—MANUFACTURES IN CITIES

CLEVELAND—Continued.

CLEVELAND, OHIO.												
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.
112	Umbrellas and canes	5	\$34, 440	\$400	\$200	\$3, 390	\$30, 450	7	6	\$2, 800	34	\$10, 885
113	Varnish	7	458, 770	23, 841	71, 252	48, 019	320, 658	7	67	93, 678	48	35, 182
114	Watch, clock, and jewelry repairing	71	53, 025	3, 650	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, 902	441, 887	6	47	43, 272	774	285, 815
116	Wood, turned and carved	11	89, 670	1, 400	675	18, 425	19, 170	11	3	1, 450	63	24, 882
117	All other industries ¹	103	15, 189, 340	1, 235, 000	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

COLUMBUS.

		914	\$25,892,136	\$2,456,810	\$3,644,451	\$6,966,529	\$12,324,816	968	1,759	\$1,644,304	17,066	\$7,718,824
1	All industries											
2	Awnings, tents, and sails	8	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	14,638	4	5	3,222	59	17,322
9	Brass castings and brass finishing	3	37,554	4,000	7,416	13,340	12,792	2	8	4,000	36	16,226
10	Bread and other bakery products	30	456,787	69,025	84,340	174,443	128,959	30	78	50,738	286	112,522
11	Brick and tile	5	19,565	6,500	3,265	4,750	5,050	6	1	800	62	23,889
12	Brooms and brushes	4	71,851	3,600	8,650	6,282	53,349	6	8	6,600	53	17,270
13	Carpentering	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	8	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	Carrriages and wagons	20	1,597,006	265,531	346,810	82,911	902,254	28	109	84,632	1,026	417,856
17	Cars and general shop construction and repairs by steam railroad companies.	6	1,349,749	240,841	294,200	202,048	618,160		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	6,600	99	31,586
20	Coffee and spice, roasting and grinding	3	68,600			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	18,660	154	38,341
22	Dyeing and cleaning	9	24,880	11,750	4,610	4,910	3,110	8	2	600	16	8,082
23	Electrical construction and repairs	6	18,825			3,625	15,200	8	5	3,330	32	17,040
24	Electroplating	3	9,300		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.	18	38,585	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	38,125	173,815	4	33	23,716	213	66,865
29	Hats and caps, not including fur hats and wool hats.	3	1,650			560	1,090	3			7	8,460
30	Iron and steel	4	1,916,600	95,600	350,000	1,220,000	250,000		24	55,190	670	451,482
31	Iron and steel, bolts, nuts, washers, and rivets.	3	236,000	29,000	23,000	75,000	109,000	2	18	19,200	406	137,000
32	Iron and steel, forgings	8	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	1,616,978	203,570	303,950	221,489	412,969	5	50	73,804	447	250,678
36	Lock and gun smithing	8	2,205			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	23,000	11,600	33,710	102,626	12	8	7,400	159	88,533
39	Marble and stone work	8	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	28	58,916	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	7,837			2,550	5,347	2	2	200	4	1,833
44	Painting, house, sign, etc	16	37,453	3,065	7,040	3,423	23,925	20	10	5,260	94	42,090
45	Paints	3	154,635	40,000	35,303	9,264	70,128		23	29,940	47	18,332
46	Patent medicines and compounds	7	675,495	21,300	69,350	57,505	527,340	5	30	28,045	125	46,852
47	Paving and paving materials	8	23,831	1,870	1,659	8,200	12,162	8		700	67	25,070
48	Photography	13	59,815			13,319	46,496	17	6	3,056	41	19,466
49	Plastering and stuccowork	7	2,305	300	900	575	530	7			87	21,089
50	Plumbing, and gas and steam fitting	30	33,835	2,620	1,405	7,215	72,595	43	11	4,446	169	73,200
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 in- cluding 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 num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.									
7	\$3,065	27	\$7,820			\$5,333	\$3,100	\$123	\$2,110		\$72,081	\$71,785	\$296	\$114,400
47	34,882	1	300			77,251	290	4,281	72,680		433,900	430,709	3,191	710,218
74	46,310	1	178	3	\$178	14,848	10,161	251	1,446	\$2,930	81,360	30,568	792	150,133
715	267,655	59	18,160			76,018	5,562	5,459	65,027		562,126	555,601	6,525	1,137,416
62	34,782			1	100	4,057	2,516	96	1,295	150	19,618	17,435	2,133	91,730
5,771	2,887,708	1,144	252,133	21	3,041	1,074,351	50,008	129,015	615,851	279,477	7,171,031	6,952,726	218,305	13,892,429

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 stuccowork, 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; show 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 terne 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	2,269	\$580,440	269	\$47,265	\$4,014,022	\$248,685	\$172,788	\$3,356,749	\$235,805	\$20,194,532	\$19,269,281	\$925,251	\$89,666,848	1
11	5,350	10	2,900			4,107	960	65	3,082		22,750	22,485	274	48,500	2
18	6,106	2	510			2,634	2,238	187	209		17,553	17,020	533	41,819	3
93	50,130			1	175	7,363	5,893	661	839		40,441	37,626	2,815	161,949	4
27	15,320	31	8,024	1	175	16,567	4,020	357	6,490	5,700	60,128	59,026	1,102	181,741	5
13	5,765			1		4,395	4,158	41	196		12,932	12,419	513	53,387	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	3,801	370	183	2,748		51,576	50,374	1,502	89,782	8
36	16,226					2,791	300	91	2,400		26,150	24,799	1,351	54,592	9
236	100,023	50	12,499			68,218	7,254	4,184	56,780		460,590	449,814	11,276	810,761	10
54	22,239			8	1,650	2,533	1,740	148	645		7,637	2,097	5,440	45,100	11
43	16,070	10	1,200			15,543	150	725	2,966	11,702	50,623	49,732	891	103,684	12
62	36,318					48,506	1,231	331	2,881	44,660	59,366	59,193	173	173,394	13
17	5,840	12	2,112	9	1,040	848	802	89	7		5,984	5,310	674	26,643	14
141	56,003	20	4,160			9,623	2,160	410	7,053		172,031	168,724	3,360	304,935	15
990	409,788	26	6,568	10	1,500	130,614	11,247	15,874	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		872,563	856,585	15,978	2,227,710	17
253	133,047	115	36,047	1	150	32,332	24,738	1,048	6,546		186,060	183,672	2,388	545,455	18
10	5,280	89	26,306			5,232	3,044	17	1,271		21,155	20,840	315	84,785	19
19	9,300	8	2,900			5,990	3,100	890	2,000		187,885	183,555	1,330	276,236	20
70	21,861	76	15,310	9	1,170	14,827	6,264	323	8,240		105,379	103,372	2,007	243,100	21
9	5,768	7	2,314			2,681	988	370	1,323		2,384	1,876	508	29,455	22
32	17,040					3,577	1,932	39	1,606		56,292	55,919	373	112,720	23
20	8,422					720	600	55	65		1,832	1,417	415	15,700	24
29	16,266	1	500			5,661	1,774	7	3,887		481,454	478,044	3,410	532,286	25
2,824	1,868,711					272,004	14,497	19,456	205,502	32,489	2,185,257	2,101,354	83,903	4,629,742	26
40	20,596	8	1,000	1	200	3,355	1,668	255	1,432		11,218	10,405	813	63,408	27
177	62,472	16	3,602	20	791	29,875	1,240	1,413	13,660	13,562	205,388	201,502	3,886	427,530	28
4	2,460	8	1,000			698	517	43	133		2,509	2,500	9	9,900	29
670	451,482					125,897		2,344	123,553		3,987,393	3,404,988	582,405	5,976,028	30
392	134,500	14	2,500			28,241		2,421	20,820		189,800	185,025	4,775	390,000	31
163	70,820					7,595	3,315	100	4,180		158,662	153,807	4,855	304,098	32
73	30,099	2	840	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	1,016,879		40,852	976,027		497,084	461,534	35,550	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	58,853	37
159	88,533					11,968	7,640	2,069	2,249		120,136	114,600	5,686	284,175	38
71	39,779					2,751	825	404	1,522		33,073	32,450	623	114,000	39
861	240,647					48,593	1,375	1,641	7,977		287,966	285,684	2,282	666,430	40
1	420	131	29,954	2	240	14,106	11,582	813	1,771	87,600	112,424	111,865	559	216,941	41
18	11,746					2,883	776	360	1,171	576	50,800	50,750	50	90,586	42
8	1,730			1	153	1,607	925	74	608		2,685	2,552	133	8,935	43
93	41,830	1	260			5,840	2,226	316	3,057	250	88,814	38,675	139	114,320	44
43	17,332	4	1,000			14,246		873	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	13,014	8,288	150	5,476		29,467	29,220	247	98,796	48
87	21,089					1,484	240	43	201		15,152	15,146	6	50,171	49
168	78,000			1	260	10,835	4,825	381	5,449	200	172,646	171,534	1,112	339,654	50
150	79,260	48	16,489	3	1,296	17,874	9,272	982	6,690	950	91,188	87,407	3,781	282,915	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	\$287,946
53	Pumps, not including steam pumps	4	2,120		400	535	1,185	5			8	3,332
54	Roofing and roofing materials	17	49,267	300	1,500	11,338	36,129	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			4,750	8,225	8	3	1,725	49	15,018
57	Slaughtering and meatpacking, wholesale	5	152,410	13,000	47,000	23,800	68,610	11	4	2,410	73	34,290
58	Tinsmithing, coppersmithing, and sheet-iron working	23	137,310	13,533	16,169	43,692	63,916	31	12	8,370	104	42,573
59	Tobacco, cigars and cigarettes	31	331,634	7,985	14,705	25,507	283,437	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	2,853,877	3,247,003	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	283,299	1,439,163		77	81,987	608	303,041
3	Awilings, 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	12,000	2,370	1,955	4,290	3,394	67			21	9,959
8	Boxes, cigar.	3	58,550	3,000	13,800	13,681	28,069	3	9	6,010	110	86,210
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	8,675	6			20	9,877
13	Carpentering.	62	55,187	10,260	11,950	9,992	22,985	70			247	132,229
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	89,302
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	6,755	15,869	89	2	2,700	220	92,844
20	Coffee and spice, roasting and grinding.	3	188,300	3,000	28,000	17,300	140,000	4	18	15,080	42	16,528
21	Confectionery.	17	36,485	2,300	1,100	12,210	20,875	21	19	6,837	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	211,035	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	422,935	824,489	3,050,554	35	169	207,676	2,880	1,517,988
28	Furniture, cabinetmaking, repairing, and upholstering.	14	13,100	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	130,701
30	Hairwork.	3	910			185	725	3			8	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	9,848
33	Liquors, malt.	9	1,727,327	373,000	668,500	303,910	381,917	5	29	42,970	152	97,268
34	Lock and gun smithing.	4	935			875	110	5			4	2,218
35	Looking-glass and picture frames.	8	8,840	800	700	2,390	4,350	8			8	4,752
36	Lumber, planing mill products, including sash, doors, and blinds.	5	299,370	26,400	46,918	55,400	172,652	3	22	21,370	347	193,832
37	Marble and stone work.	6	45,685	3,500	1,000	18,865	22,320	8	8	5,320	66	48,366
38	Masonry, brick and stone.	26	46,108	3,500	3,080	9,335	29,590	26	1	350	186	122,314
39	Millinery, custom work.	37	48,999	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	11,860	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	186	89,217
44	Paints.	5	370,442	11,000	39,450	27,050	298,942	7	11	17,500	48	23,767
45	Paper and wood pulp.	6	726,610	96,600	119,200	223,604	287,206	2	18	33,389	287	111,621
46	Paper hanging.	8	35,555	1,200	4,150	1,075	79,130	10	6	3,108	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 in- cluding 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	\$273,422	40	\$14,028	3	\$496	\$127,127	\$13,353	\$3,259	\$77,268	\$33,267	\$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	396	2,647		120,280	118,908	1,372	233,015	54
101	41,027			17	3,000	12,227	6,691	1,397	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	50,755	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	8,099	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	426	71,146	61
25	8,752	1	150			3,125	220	315	2,590		63,803	63,560	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	6,616,757	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	\$7,059,503	3,143	\$875,781	150	\$24,508	\$3,295,885	\$215,072	\$141,832	\$2,050,595	\$238,366	\$16,800,911	\$16,487,140	\$313,771	\$35,697,695	1
608	803,041					212,348	150	10,808	201,390		594,616	585,184	9,462	1,281,658	2
8	3,851	8	2,264			1,879	948	86	570	275	13,308	13,190	118	29,600	3
8	3,882					213	155	30	28		1,657	1,622	35	9,275	4
16	7,782					2,117	1,067	38	377	35	8,909	8,628	341	28,700	5
59	30,682			1	156	12,947	6,498	239	1,150	5,060	35,701	35,951	1,750	185,217	6
21	9,359					5,017	4,467	105	445		20,511	20,030	481	64,774	7
49	21,564	61	14,646			3,404	1,500	353	1,551		37,115	35,925	1,190	99,916	8
135	65,017	215	35,643			33,708	6,500	852	26,956		260,778	257,923	2,850	490,895	9
255	83,044	5	900			37,723	210	1,795	35,693		168,021	158,457	4,564	375,136	10
158	82,512	24	4,707	4	800	25,245	12,953	2,220	10,072		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	105,061	406,332	404,906	1,425	740,802	13
1	468					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	2,854	2,113	4,467		151,866	149,132	2,734	388,205	16
133	71,825	67	16,953	3	584	26,643	12,016	745	3,317	10,570	123,629	122,652	977	854,163	17
18	9,000	206	69,660			9,417	1,620	1,665	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	5,357	895	1,399		102,552	100,958	1,594	191,190	21
18	7,110					323	140	46	137		16,586	16,461	125	26,748	22
11	5,918	2	700	1	182	1,939	1,295	51	592		2,631	2,167	464	19,884	23
115	53,895	10	3,900			18,392	3,380	273	14,734		74,294	73,044	1,250	197,126	24
12	7,000					1,074	649	75	350		19,960	19,950	10	38,000	25
46	29,500					14,495	1,000	3,555	9,940		527,288	520,308	6,980	626,718	26
2,822	1,501,555	56	16,069	2	864	866,481	18,083	14,875	331,686	1,837	2,499,767	2,436,835	63,428	4,994,984	27
19	11,688			3	702	2,339	1,822	128	264	125	25,517	25,331	186	58,272	28
835	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	8,184	3	670			882	696	10	176		1,653	1,628	25	6,115	30
						1,920	250	170	1,500		8,892	8,730	162	23,020	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	330,739		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	8,170	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	468	2,767		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	65,284	40
						1,427	1,140	20	267		3,409	2,977	432	19,538	41
22	10,930					3,253	1,316	126	691	1,120	41,232	41,040	192	73,525	42
166	89,217					5,936	3,305	339	2,242		56,762	55,473	289	223,880	43
34	20,167	9	3,600			22,832	680	2,032	20,120		194,974	192,413	2,561	311,437	44
234	99,837	48	10,806	5	1,378	44,126	4,098	3,987	36,131		331,512	294,721	36,791	611,823	45
13	7,978	4	754			1,822	362	142	1,818		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 imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
47	Patent medicines and compounds -----	6	\$430,002	\$450	\$350	\$6,548	\$422,654	8	24	\$33,640	41	\$10,572
48	Paving and paving materials -----	8	30,216	1,798	3,900	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	158	88,196
52	Printing and publishing, book and job.	18	277,477	6,700	7,700	130,500	132,577	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	138,120
54	Registers, cash -----	3	4,143,630	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	360	15	7,676
56	Saddlery and harness -----	17	46,535	18,000	10,550	3,610	14,875	21	1	900	27	12,892
57	Slaughtering and meat packing, whole- sale.	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	80,904
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	1,098	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	3,450	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

¹ Embraces 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 die sinking, 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	\$997,361	\$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	390
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.....	3	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.....	8	119,938	16,600	18,350	49,480	35,528	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	584,660	158,000	170,000	50,660	206,000	3	4	7,526	30	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	18			13	5,090
21 Photography.....	5	3,825			2,226	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	11,635			9,000	2,535	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	40,154
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	1,810	3,000	265	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	268,780	10,200	52,100	80,605	114,875	4	11	20,020	340	99,970
29 Tobacco, cigars and cigarettes.....	12	11,930	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	128,575	345,800	591,037	1,290,413	29	96	115,877	1,820	449,880

¹ Embraces 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 in- cluding 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	\$3,948	32	\$6,624			\$46,288	\$2,528	\$1,030	\$41,730		\$51,412	\$53,832	\$580	\$215,999	47
71	30,834					1,903	265	135	1,503		40,286	40,658	228	90,104	48
7	3,582	2	400	2	\$488	4,768	3,343	101	1,319	\$5	8,091	7,952	139	28,575	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	235	48,651	4,272	3,372	27,903	8,104	146,234	140,933	5,301	486,639	53
1,465	983,778	178	63,616			841,758	754	7,116	833,888		647,858	632,940	14,918	4,927,261	54
14	7,596			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	3,700	100,440	840	2,971	96,629		290,906	287,163	3,743	643,458	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	215,642	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	2,968	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		186,232	135,616	616	192,100	63
16	10,021			1	108	3,276	2,379	122	275		6,194	4,800	394	30,114	64
3,540	1,752,631	397	77,885	42	7,928	358,500	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	\$803,481	\$30,104	\$13,549	\$729,228	\$600	\$5,535,568	\$5,388,146	\$147,422	\$12,003,316	1
1	390					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	358	31,490	3
6	2,235					1,152	912	103	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	38,309	7
156	72,659	13	3,500	9	1,000	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	10,090	10
86	21,442					5,630	900	530	4,200		496,900	491,180	5,720	582,638	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	46	7,725	13
178	108,861					362,339		5,604	356,735		191,759	164,772	26,987	705,284	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					10,867	1,713	1,576	7,578		207,417	193,990	3,427	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		20,025	28,965	59	67,450	19
		5	1,200			352	330		22		4,929	4,929		17,550	20
						1,682	1,452	30	200		2,705	2,705		11,600	21
29	15,550					1,869	970	50	849		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		473,538	464,873	8,665	962,907	27
181	66,970	159	38,000			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					936	615	75	246		951	903	43	7,250	30
848	350,419	457	96,569	20	2,892	111,844	4,362	7,598	99,834		1,785,459	1,743,338	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 stuccowork, 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	13			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	455,459	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	8,575		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	1,188
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	8,000	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	119	100,664	1,284	659,988

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, 2; 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	3,436
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	5,000	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	35,255	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	1,084,681
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	11,968
18	Patent medicines and compounds	6	125,181	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	981	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 in- cluding 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, 981	\$4, 156, 028	\$4, 008, 348	\$147, 680	\$6, 705, 136	1
4	1, 221					1, 059	656	23	380		4, 249	4, 182	117	10, 197	2
14	7, 167					1, 596	1, 227	50	809	10	8, 328	7, 823	502	31, 716	3
6	3, 000					1, 324	1, 083	8	233		5, 807	5, 736	71	16, 362	4
15	7, 072	3	936			3, 107	1, 938	118	1, 051		24, 913	23, 997	916	47, 881	5
27	13, 178					12, 094	242	23	154	11, 675	26, 362	26, 242	120	59, 815	6
32	19, 334	48	11, 963			5, 218	3, 972	292	954		24, 708	24, 328	380	83, 885	7
13	4, 700	24	4, 000	1	177	3, 481	1, 480	175	1, 826		52, 095	51, 399	696	86, 620	8
15	6, 500					2, 994	300	461	2, 233		163, 954	162, 494	1, 460	184, 742	9
225	131, 595					12, 663	276	2, 808	9, 570	9	142, 549	136, 880	5, 609	396, 923	10
2	690					1, 074	832	12	230		2, 393	2, 358	85	6, 900	11
8	3, 480					442	120	210	112		3, 932	3, 487	445	11, 200	12
3	1, 812	16	4, 098			5, 099	2, 855	369	1, 875		38, 954	38, 954		57, 305	13
26	14, 770	1	400			1, 824	1, 086	15	598	125	4, 997	4, 992	5	13, 840	14
3	1, 006	1	180			1, 849	1, 500	68	281		28, 982	28, 852	130	54, 518	15
						1, 153	600	20	533		4, 535	4, 355	180	12, 450	16
51	21, 702	6	1, 794			13, 016	5, 030	734	6, 937	315	20, 870	19, 916	954	90, 450	17
4	2, 392					311	60	78	173		6, 985	6, 090	55	12, 975	18
10	3, 984					1, 534	819	116	599		7, 158	7, 128	30	15, 821	19
30	13, 887					2, 523	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	18, 984					1, 105	405	876	324		25, 320	21, 810	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, 355, 183	3, 253, 322	181, 861	5, 060, 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	2,178,093	44,447	5,272,636 2
6	8,436					1,004	400	259	345		5,607	5,521	86	14,565 3
14	6,638					2,382	2,183	65	129		8,361	7,389	975	39,937 4
11	4,340					821	721	22	78		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	67,820 7
22	9,564					2,209	2,008	101	40		9,741	9,460	281	29,487 8
44	23,760	48	18,485			9,841	5,110	300	3,096	1,335	41,527	41,217	310	117,675 9
158	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	303,754 11
16	7,548	6	1,200			3,759	1,958	117	1,634		23,838	22,954	884	59,595 12
7	2,920	10	1,350			674	576	10	88		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	3,510	193	1,071		25,064	24,889	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	82,350 17
10	5,220	6	1,222			18,085	913	679	16,493		32,825	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	38,221	23	6,370			4,606	1,297	862	2,447		61,571	60,151	1,420	180,289 21
245	135,249	115	28,866	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					1,606	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	1,285			9,920	1,211	50	8,659		32,217	31,962	255	69,446 26
9	5,450					1,319	860	61	398		2,649	2,623	66	15,500 27
788	393,646	137	26,265	11	1,150	187,730	8,997	15,458	157,387	5,888	1,198,076	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	\$2,180,994	\$4,570,388	\$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	56	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			13	8,790
11	Bread and other bakery products	46	435,037	85,050	121,550	126,781	101,656	48	30	21,516	278	132,706
12	Brick and tile	11	393,312	116,467	126,103	48,950	101,792	16	8	6,696	288	135,851
13	Bridges	4	291,100	7,000	23,000	126,100	135,000	3	12	17,200	305	160,198
14	Brooms and brushes	5	126,245	1,650	750	61,886	68,959	5	12	14,316	196	58,370
15	Carpentering	51	153,705	21,025	48,400	17,665	66,615	58	6	5,660	497	247,094
16	Carpets, rug	6	12,315	2,850	3,650	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	96,996
18	Carrriages and wagons	10	1,817,369	103,000	291,006	115,141	1,305,222	12	33	42,720	524	183,616
19	Cars and general shop construction and repairs by steam railroad companies	8	333,111	25,225	92,176	76,631	139,080		40	31,463	606	343,048
20	Clothing, men's, custom work and repairing	68	197,200	11,550	17,725	13,285	154,640	81	9	8,370	285	124,019
21	Clothing, men's, factory product	8	9,900			4,400	5,500	6	1	1,050	80	18,880
22	Clothing, women's, dressmaking	16	5,850			1,750	4,100	18			105	23,356
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			4,841	21,500	2	2	1,560	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	1,091	970,143
31	Fur goods	3	41,302			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			1,932	11,837	3	6	4,550	37	11,000
36	Hosiery and knit goods	8	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	400	3	2,212
38	Lime and cement	7	77,927	5,000	2,000	11,074	59,853	7	15	7,110	40	18,750
39	Liquors, malt	6	2,189,000	216,000	780,000	386,000	807,000		47	76,070	253	150,799
40	Lock and gun smithing	4	1,900			750	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	8	37	32,897	364	153,253
43	Marble and stone work	6	49,200	18,000	5,000	11,900	14,300	7	1	110	34	22,910
44	Masonry, brick and stone	9	236,670	650	400	3,620	232,000	11	2	3,500	121	69,370
45	Millinery, custom work	65	121,994	7,900	8,850	13,225	92,019	68	11	7,610	214	51,336
46	Mineral and soda waters	3	27,600	5,000	7,000	7,800	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	21,758
48	Painting, house, sign, etc	42	50,250	6,715	7,050	12,863	23,622	47	4	1,780	167	90,322
49	Paints	4	216,047	11,302	12,200	21,187	171,358	3	21	17,761	28	12,891
50	Paper hanging	8	26,150			1,400	24,750	7	7	4,240	28	16,260
51	Patent medicines and compounds	7	166,393	27,000	51,700	3,025	84,808	6	13	10,388	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	32,405	146,339	57	28	16,439	182	117,689
56	Printing and publishing, book and job	24	248,690	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	68	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	1,800	8,450	11,155	6			53	25,694
62	Smithing, coppersmithing, and sheet-iron working	51	599,257	33,040	71,600	111,021	333,596	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	8	34,300	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	\$21,086,798	\$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	20,692	364	49,151	4
905	414,519	7	1,600			77,954	3,348	4,284	70,322		891,970	892,203	29,767	1,583,460	5
77	47,183					8,100	5,229	876	1,995		36,684	34,421	2,263	148,563	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	875	13,636		92,640	91,610	1,030	224,360	9
7	2,380	6	1,410			1,055	780	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	134,566			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	12,465	1,350		284,691	280,591	4,100	562,257	13
114	42,850	82	16,020			9,415	4,167	1,623	3,625		112,297	108,752	2,545	217,399	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	182,686	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	85,832	22,754	1,398	9,560	1,670	148,296	146,898	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	100,606			30,705	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					789	251	126	362		83,426	83,351	75	63,575	25
12	7,672	8	3,331			5,766	3,307	181	2,163	100	12,910	12,154	736	39,700	26
38	21,071	2	1,188			3,798	2,268	144	1,386		69,837	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
1,990	969,887			1	156	243,170	17,638	12,154	208,178	6,200	1,130,157	1,093,260	76,897	2,715,618	30
7	3,490	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	380	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	4,632	1	260			1,480	836	59	625		2,360	2,220	140	13,025	34
20	6,900	17	4,100			1,273	636	19	590		30,185	29,842	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		320,005	296,209	33,336	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	1,083	6,275		88,249	87,371	875	114,600	41
34	22,910					41,474	3,388	7,037	31,049		1,057,550	1,055,831	1,719	1,376,149	42
121	69,370					3,398	2,140	586	672		25,872	24,197	1,675	64,648	43
8	830	211	50,504			95,688	400	153	5,035	90,000	118,815	118,490	325	343,600	44
28	12,000	1	500			32,181	22,784	970	8,477		144,017	142,586	1,461	305,419	45
36	24,758					6,219	720	297	5,202		25,214	24,587	677	58,207	46
106	90,192			1	130	10,146	60	387	8,199	1,500	30,565	29,938	632	83,847	47
26	12,423	2	468			11,617	5,533	377	5,707		57,076	56,797	279	208,911	48
28	16,260					16,268	1,400	555	14,813		119,945	118,220	1,725	196,038	49
17	6,844	25	6,634			8,923	2,376	182	1,365		31,225	31,140	85	75,436	50
243	109,557					219,127	2,360	986	215,781		85,192	84,420	772	436,350	51
96	55,163					7,463	120	623	6,720		166,925	163,792	3,133	349,917	52
16	6,911	4	906	1	225	78,735		3,494	69,841	400	1,047,042	995,654	52,288	1,392,745	53
179	116,869	3	820			8,360	6,110	210	1,965		12,733	12,337	496	52,014	54
170	87,259	87	9,357	1	130	22,841	12,089	1,005	8,747	1,000	319,479	317,829	1,650	577,433	55
287	137,891	31	9,857	1	104	30,551	9,569	1,493	19,189	300	120,109	115,747	4,362	337,239	56
26	9,500					60,040	9,850	1,514	44,471	4,705	145,164	138,229	6,935	580,512	57
32	15,400					3,039	1,030	184	1,825		51,345	51,325	20	87,892	58
33	15,880					3,456	404	82	2,970		31,966	31,406	500	64,889	59
53	25,694					4,829	2,994	337	1,498		36,810	36,375	535	74,245	60
407	190,651	158	32,446	76	14,302	494	30	44	145	275	24,742	24,310	432	65,950	61
110	53,297	17	4,446			31,354	8,690	3,457	19,207		927,972	920,829	7,143	1,435,089	62
55	18,950	5	1,070	2	260	31,656	3,907	417	27,832		74,274	73,874	400	211,235	63
						9,415	1,050	395	7,970		53,280	52,970	310	98,500	64

TABLE 8.—MANUFACTURES IN CITIES

TOLEDO—Continued.

65 66 67 68	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.
Watch, clock, and jewelry repairing	23	\$15,985	\$2,500	\$2,150	\$5,500	\$5,895	22	2	\$1,500	19	\$12,586	
Wirework, including wire rope and cable.	4	11,554		500	6,611	4,443	3	4	2,160	10	3,222	
Wood, turned and carved	3	3,550		1,200	1,450	900	3			4	1,750	
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	

¹ Embraces 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 sinking, 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.

1	All industries	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
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	Carriages and wagons	7	163,835	28,400	42,250	20,810	72,375	8	13	14,900	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	138,125	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	17,541,654	1,105,000	2,240,000	9,319,500	4,877,351		224	268,096	6,644	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	303,795	41,200	28,967	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	16,817
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	6,525		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	20,357	2	12	12,100	90	58,550
24	Roofing and roofing materials	11	67,225	3,500	9,300	19,500	34,925	10	6	6,600	53	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	8,000	3,481	15,892	18,318	5	5	5,520	53	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	280,000	437,802	799,518	805,644	36	71	80,640	786	356,234

¹ Embraces 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.

1	All industries	293	\$5,162,067	\$428,580	\$1,016,554	\$1,172,137	\$2,549,846	336	424	\$319,864	4,603	\$1,786,005
2	Bicycle and tricycle repairing	3	1,005			370	635	8			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	11,253	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	190,794	59,246	6	24	13,569	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	Carriages 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	1,830	673	771	14			28	4,597
12	Confectionery	9	32,258	1,400	8,450	6,100	16,303	10	9	3,098	25	8,892
13	Flouring and grist mill products	7	181,791	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	19,618	5,200	5,950	2,715	5,763	7	11	6,800	25	11,286
16	Liquors, malt.	4	78,400	10,000	25,000	23,100	20,800	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 in- cluding 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 num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
16 8	\$11,686 2,928	3 2	\$850 294	-----	-----	\$4,882 1,606	\$1,064 821	\$241 85	\$577 750	-----	\$6,396 2,957	\$6,051 2,681	\$345 276	\$41,690 13,161	65 66
4 2,628	1,780 1,298,229	-----	-----	-----	-----	244 671,085	141 22,581	8 46,007	95 602,497	-----	849 6,113,431	775 5,970,586	74 142,845	4,300 9,321,461	67 69

and ornamental, 2; liquors, vinous, 2; lumber and timber products, 2; mattresses and spring beds, 2; models and patterns, 1; mullage 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	\$4,885,779	226	\$61,824	19	\$3,857	\$968,636	\$40,806	\$52,383	\$868,909	\$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	2
23	13,778	—	—	—	—	2,103	1,670	172	261	—	11,507	10,979	528	59,825	3
3	1,476	—	—	—	—	601	536	25	40	—	3,770	3,635	135	19,975	4
29	15,690	7	1,740	—	—	2,721	1,968	395	358	—	33,804	37,313	1,491	81,940	5
82	33,144	—	—	—	—	10,639	390	1,723	8,556	—	83,885	82,705	1,180	202,955	6
70	40,321	35	11,367	1	150	7,019	6,404	120	1,095	—	65,232	64,881	351	158,854	7
—	—	7	1,475	—	—	—	490	444	46	—	660	625	35	3,950	8
9	4,037	3	500	—	—	—	785	620	2	—	21,111	20,437	674	41,810	9
5	1,760	2	1,000	—	—	—	1,002	244	58	—	1,608	1,163	445	8,420	10
789	430,828	—	—	—	—	95,375	1,435	5,380	84,560	4,000	865,825	836,582	29,243	1,800,001	11
4	2,100	—	—	—	—	—	607	630	5	—	2,435	2,400	35	9,315	12
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	13
3	1,550	—	—	1	250	1,145	775	76	294	—	7,019	6,962	57	18,700	14
175	85,066	—	—	—	—	9,156	700	2,694	5,762	—	338,077	336,150	1,927	519,437	15
—	—	69	15,102	—	—	5,754	4,925	99	730	—	75,447	75,060	387	122,579	16
9	3,450	—	—	1	250	—	881	360	351	—	9,511	9,246	265	19,599	17
31	16,817	—	—	—	—	1,814	1,068	20	226	—	7,983	7,966	17	36,053	18
14	8,987	—	—	—	—	208	58	150	150	—	18,432	18,382	50	30,801	19
4	3,104	3	738	—	—	1,815	1,574	32	209	—	4,945	4,580	365	13,634	20
70	36,702	—	—	—	—	3,100	1,800	285	1,015	—	78,242	77,859	383	154,436	21
10	6,180	6	2,000	—	—	3,996	1,722	215	2,059	—	6,761	5,995	766	44,160	22
84	56,016	6	2,531	—	—	6,024	1,355	833	3,636	200	42,345	41,007	1,338	143,800	23
58	29,462	—	—	—	—	4,794	1,771	555	2,468	—	231,243	230,430	813	319,118	24
14	8,370	—	—	—	—	1,613	658	186	769	—	9,277	9,190	87	29,850	25
30	10,576	23	5,802	—	—	6,262	474	502	5,286	—	79,605	78,954	651	130,000	26
20	10,853	4	1,606	—	—	8,013	1,365	35	6,618	—	12,211	12,021	190	39,138	27
10	5,235	—	—	—	—	1,769	1,430	40	299	—	2,950	2,847	103	16,782	28
724	338,189	61	17,900	1	115	155,981	5,882	9,568	188,172	2,330	1,562,078	1,481,764	50,314	2,578,983	29

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; photolithographing 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	\$265,338	\$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	981	880	47	554	—	1,686	1,615	71	5,262	2
18	7,640	—	—	—	—	1,312	754	163	395	—	8,400	7,909	491	38,900	3
9	8,818	—	—	—	—	849	603	68	188	—	4,708	4,581	127	17,190	4
79	30,213	25	4,571	—	—	19,249	3,660	1,150	14,439	—	168,383	164,964	3,419	289,405	5
60	81,463	—	—	—	—	1,621	108	111	402	1,000	118,003	112,866	137	167,293	6
1	825	2	245	—	—	247	180	4	63	—	1,149	1,096	53	4,098	7
23	9,309	—	—	—	—	1,099	485	122	492	—	8,050	7,388	662	28,520	8
303	157,612	—	—	—	—	2,776	—	1,812	964	—	318,613	309,042	4,571	482,783	9
81	15,367	60	10,863	—	—	5,983	3,329	379	1,775	500	45,680	45,368	312	115,204	10
—	—	28	4,597	—	—	797	600	30	167	—	2,527	2,373	154	14,876	11
13	5,536	15	2,856	—	—	3,653	2,312	302	1,039	—	30,306	29,657	649	71,612	12
18	9,013	1	262	—	—	4,522	617	1,235	2,610	—	128,481	127,339	1,092	163,710	13
150	70,281	—	—	—	—	11,684	1,220	1,892	8,472	—	64,382	59,387	4,995	172,231	14
25	11,286	—	—	—	—	1,009	290	56	668	—	7,169	6,898	271	41,020	15
28	13,096	—	—	—	—	48,167	—	1,491	46,676	—	26,723	23,103	3,620	105,604	16

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 imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
17	Looking-glass and picture frames.....	4	\$1,590			\$465	\$1,125	6	3	\$1,560	4	\$1,200
18	Lumber and timber products.....	4	30,200	\$7,400	\$4,700	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	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	1,880	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	6,050			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	34,960	6,000	10,000	4,069	14,891	8	4	930	43	21,732
27	Pottery, terra cotta, and fire-clay products.	10	1,046,403	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	3,850	7			10	3,106
29	Printing and publishing, newspapers and periodicals.	6	135,635	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	17,550	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	6,795	12			17	8,995
33	Tobacco, cigars and cigarettes.....	12	6,961	605	760	1,480	4,116	14	5	2,340	41	11,853
34	Watch, clock, and jewelry repairing.....	6	3,003			1,315	1,688	4			8	3,418
35	All other industries ¹	48	2,353,605	180,470	367,038	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; cordage 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.....	7,683	\$143,880,261	\$10,926,301	\$26,351,910	\$10,452,231	\$66,749,729	8,511	6,436	\$6,080,459	86,859	\$38,256,099
2	Alliance.....	145	5,804,053	344,740	1,289,654	1,402,961	2,767,598	158	136	120,703	1,749	784,989
3	Ashtabula.....	90	704,127	65,305	85,286	295,839	317,607	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	Barberton.....	27	3,366,586	435,028	561,299	765,508	1,596,451	26	65	96,423	1,115	461,082
6	Barnesville.....	50	503,124	31,974	126,066	97,280	247,854	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	Bellefonte.....	38	601,742	29,222	81,988	69,496	481,030	37	34	37,286	301	125,986
10	Bridgeport.....	28	1,717,473	85,500	285,500	1,046,939	299,554	23	74	84,757	1,614	911,421
11	Bryan.....	59	315,671	18,148	75,225	77,899	144,399	75	10	8,392	180	73,054
12	Bucyrus.....	91	1,011,031	78,458	216,569	276,841	439,163	103	62	54,192	751	338,535
13	Cambridge.....	65	1,201,032	62,625	132,340	416,555	580,142	74	63	58,077	849	523,339
14	Canal Dover.....	75	1,981,838	99,673	440,395	583,861	807,909	79	62	84,215	1,507	721,242
15	Carthage.....	24	404,420	16,730	65,650	78,400	243,620	27	21	20,846	369	143,361
16	Celina.....	84	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	128	75	37,368	1,223	454,644
18	Circleville.....	63	1,168,592	98,525	231,375	369,493	468,699	113	50	28,911	686	221,470
19	Conneaut.....	68	595,115	74,670	111,008	146,725	262,712	87	31	35,375	651	285,634
20	Coshocton.....	48	806,028	30,975	95,591	320,285	359,222	44	127	108,860	1,083	339,120
21	Cuyahoga Falls.....	27	906,439	68,300	111,200	447,845	279,094	32	38	42,340	522	253,292
22	Defiance.....	100	1,141,426	66,450	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	892	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	32,800	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	965,701	69	94	89,379	963	391,841
29	Findlay.....	252	2,152,202	109,637	485,604	580,657	976,254	309	131	99,324	1,478	633,605
30	Fostoria.....	92	1,532,627	74,212	352,171	532,691	573,553	97	72	56,918	795	278,529
31	Franklin.....	39	448,290	93,160	98,650	129,855	126,625	39	20	19,530	296	119,118
32	Fremont.....	156	2,616,545	140,992	436,394	600,390	1,433,269	185	165	188,641	1,504	599,286
33	Gallion.....	65	916,488	78,200	224,161	203,624	415,503	69	55	85,401	891	387,410
34	Gallipolis.....	89	491,907	47,050	74,150	124,560	246,147	91	35	24,602	453	159,470
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	34,839	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	Laurel.....	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	8,175	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	89,977	596	230,750
45	Lorain.....	59	12,343,937	863,739	2,699,609	3,625,720	5,154,909	57	116	111,880	2,221	1,115,689
46	Mansfield.....	251	5,760,746	220,725	567,027	981,730	3,991,214	293	354	317,369	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 in- cluding 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 num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
2	\$800	2	\$100			\$688	\$556	\$29	\$53		\$2,950	\$2,917	\$33	\$9,101	17
50	19,065					1,076	36	450	590		51,128	51,128		102,000	18
53	22,632					7,091	300	2,042	4,749		92,957	91,900	1,057	142,510	19
214	114,096					2,244	48	132	1,864	\$200	131,486	130,816	670	351,150	20
		22	5,227	1	\$107	4,386	3,319	204	863		37,845	37,520	325	54,040	21
37	17,581					1,034	850	18	155	11	10,472	10,367	105	43,134	22
118	54,000			1	125	5,153	836	498	4,159	160	71,630	69,810	2,320	143,659	23
3	1,635	3	645			1,804	1,011	37	726		7,062	6,872	180	20,510	24
4	1,816					58		26	32		3,351	3,327	24	7,811	25
43	21,732					2,696	1,015	478	1,203		17,756	17,583	173	57,559	26
950	361,691	511	103,385	1	240	82,504	216	9,321	72,967		438,720	380,679	58,041	1,245,262	27
7	2,631	1	175	2	300	1,040	805	99	136		2,821	2,592	229	19,940	28
82	35,194	14	6,375			7,835	846	742	6,247		19,687	18,450	1,287	124,031	29
8	4,670					1,802	1,390	99	318		9,568	9,426	137	22,814	30
4	1,418	66	12,200			1,606	240	42	1,324		42,800	42,642	158	70,172	31
17	8,995					1,976	1,012	113	551	300	16,406	16,083	318	35,232	32
28	9,171	13	2,682			11,380	1,744	109	9,527		16,122	15,908	219	52,641	33
6	3,080	1	208	1	130	1,027	600	48	379		1,461	1,338	123	9,284	34
1,208	535,008	227	40,814	6	960	126,139	2,969	15,885	107,035	250	1,858,062	1,698,718	159,344	3,240,282	35

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.

73,679	\$35,328,344	11,920	\$2,702,056	1,351	\$225,099	\$12,660,971	\$712,986	\$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	160,843	12,674	8,825	138,380	464	1,906,204	1,846,748	59,456	3,730,144	2
390	175,894	49	12,472	1	196	67,950	8,219	4,377	23,823	32,031	575,249	563,438	11,811	997,818	3
192	90,021	18	5,172	6	672	27,671	3,203	3,389	14,701	6,378	158,914	145,957	12,957	366,052	4
981	422,556	174	37,326	10	1,200	328,720	924	14,883	303,413		1,804,463	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	858,674	844,536	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
648	301,079	52	9,379	18	1,484	44,706	9,394	6,919	22,793	5,600	662,703	641,692	21,111	1,189,201	8
278	120,872	10	2,602	18	2,512	25,057	2,967	1,947	20,143		539,671	533,003	6,668	834,830	9
1,494	885,576	62	15,315	58	10,530	61,653	1,959	14,608	44,986	100	2,874,661	2,798,456	76,205	4,798,347	10
156	69,103	22	3,676	2	275	24,232	3,898	1,813	18,501	20	208,349	203,492	4,857	396,757	11
679	328,229	56	8,974	16	1,332	78,535	7,542	3,166	55,827	2,000	557,220	541,930	15,290	1,800,327	12
809	513,585	40	9,754			82,401	5,062	5,458	71,356	625	1,488,670	1,393,829	44,841	2,458,368	13
1,462	711,478	31	7,065	14	2,699	128,719	3,290	6,288	98,941	20,200	2,026,574	1,822,186	204,388	3,880,494	14
363	141,041	6	2,820			802,443	1,458	1,760	799,240		415,218	399,510	15,706	1,557,273	15
129	54,707	20	3,013	4	504	11,881	2,784	1,170	7,022	925	235,619	232,556	3,063	410,097	16
945	414,357	264	39,006	14	1,191	96,614	11,666	8,632	76,266		914,665	896,898	17,767	1,708,895	17
542	202,627	108	15,613	36	3,230	59,518	7,034	7,659	44,175	600	1,273,874	1,234,472	39,402	1,938,096	18
542	268,718	109	21,916			36,192	6,254	2,918	27,020		540,056	530,737	9,319	1,008,423	19
674	251,310	409	87,266	5	644	66,647	3,009	5,642	56,996	1,000	778,215	766,465	11,750	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	400	87,981	11,837	10,994	64,950	150	814,712	798,961	15,751	1,609,334	22
505	216,161	148	32,105	2	180	67,183	10,349	4,191	42,043		351,467	341,973	9,494	846,645	23
266	115,327	19	3,725	1	150	37,197	2,932	3,709	30,006	500	225,923	200,135	16,798	519,780	24
878	521,628	14	3,065			73,480	1,486	5,099	66,545	350	584,398	567,565	16,831	1,295,334	25
3,323	1,835,091	1,107	306,872	43	8,975	341,135	19,784	17,376	192,443	111,582	1,759,408	1,534,104	225,304	5,459,043	26
298	152,576	1	200	2	392	8,227	1,045	2,151	5,031		441,613	440,146	1,667	743,536	27
805	363,025	144	27,272	10	1,544	137,958	9,282	8,004	109,572	10,500	999,280	981,253	18,027	1,700,500	28
1,269	592,031	195	39,612	14	1,859	165,613	20,854	10,360	104,938	28,961	1,122,537	1,054,654	67,883	2,514,856	29
580	218,794	264	58,510	1	225	64,650	7,681	7,157	39,412	300	2,103,515	2,060,308	43,207	2,645,205	30
192	93,821	104	25,297			16,891	1,934	3,623	10,329		621,908	494,957	26,951	864,036	31
1,086	490,358	462	103,209	6	719	152,823	10,905	9,665	128,970	2,783	1,322,880	1,282,275	40,605	2,621,951	32
858	359,858	30	7,132	3	870	69,906	4,374	6,471	49,331	3,730	679,921	663,775	11,146	1,309,129	33
415	152,403	37	6,474	6	602	54,833	6,687	4,538	43,898	235	368,482	361,607	6,876	731,063	34
222	36,210	106	22,714	2	268	24,991	9,690	3,143	12,204	54	377,601	372,542	5,059	642,503	35
260	109,151	33	4,984			13,140	3,636	2,653	11,851		305,399	293,104	12,295	574,988	36
1,670	749,692	84	17,359	4	343	178,236	12,235	22,610	105,677	37,714	3,299,905	2,849,804	450,101	5,715,112	37
123	56,427	16	3,504	3	432	15,839	3,891	3,158	9,150	700	256,791	180,344	76,447	510,111	38
875	389,101	69	15,886	1	250	18,195	5,281	5,006	7,833	25	1,079,937	1,065,825	14,112	1,599,562	39
592	251,871	61	14,423			94,816	9,576	5,982	78,826	451	540,074	526,347	13,727	1,118,629	40
865	495,557	319	96,282	103	22,770	97,284	3,092	6,162	73,030	10,000	1,197,266	1,178,080	19,186	2,219,695	41
159	80,864	18	4,388	2	150	9,400	4,211	1,268	3,921		334,820	330,810	4,010	571,832	42
488	278,537	6	1,300	2	325	102,977	5,220	97,133	97,133		1,943,900	1,850,209	593,691	2,725,457	43
559	221,832	24	6,546	13	2,822	228,010	4,291	14,905	73,664	135,050	1,232,579	1,180,931	51,648	2,300,960	44
2,098	1,086,516	88	20,494	40	9,579	615,457	3,281	16,784	576,532	18,870	6,544,799	5,792,078	752,721	9,547,952	45
2,460	1,078,027	692	138,013	8	1,417	307,182	80,171	22,294	254,017	700	3,195,033	3,122,063	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 imple- ments.	Cash and sundries.	Number.		Salaries.	Total.		
											Average num- ber.	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	345,526	408,979	348,579	2,237,287	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	83,930	68	9	5,950	236	82,699	
51	Massillon	134	4,444,400	328,928	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	38	197,039	20,131	39,332	57,085	80,491	39	19	11,204	225	69,325	
54	Middletown	92	4,207,731	98,050	591,629	1,196,717	2,318,335	92	264	319,825	1,951	770,656	
55	Mingo Junction	12	2,921,086	106,950	528,425	1,973,523	312,188	9	32	72,539	944	566,645	
56	Mt. Vernon	93	830,061	62,200	172,375	296,691	298,795	110	62	52,345	853	383,638	
57	Napoleon	78	448,500	30,300	88,725	93,025	236,450	94	13	7,395	233	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	1,793,448	164,625	361,710	411,713	852,400	234	158	124,412	2,464	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	480,849	91	63	57,056	817	394,685	
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	67,025	77,795	137,108	231,693	88	34	27,872	488	165,403	
66	Piqua	152	3,609,061	323,493	536,106	791,682	1,957,721	166	207	203,001	2,103	983,636	
67	Pomeroy	70	852,132	70,410	166,681	280,999	334,042	69	43	31,142	725	341,950	
68	Portsmouth	284	4,113,700	355,576	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	279,153	
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	Skidney	107	1,178,805	75,270	219,710	307,582	571,243	125	84	62,804	935	337,610	
75	Staubenville	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	53,743	105,623	76	24	14,380	271	101,650	
80	Upper Sandusky	95	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	227,907	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	33,790	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	161,737	1,948	835,718	
85	Washington Court House	67	403,031	20,132	53,999	170,825	158,072	75	28	20,158	279	101,849	
86	Wellston	41	655,606	35,350	247,550	145,193	427,603	42	17	15,985	333	169,075	
87	Wellsville	61	1,233,863	93,510	237,336	469,994	413,023	67	66	59,400	969	511,964	
88	Wilmington	61	247,783	16,350	30,100	32,527	108,806	78	14	12,916	188	78,635	
89	Wooster	97	620,188	68,415	127,425	184,297	246,051	105	47	29,501	447	169,490	
90	Xenia	106	1,819,614	75,630	224,040	507,297	1,012,638	128	53	72,051	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 in- cluding 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 num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
1,942	\$890,017	197	\$42,336	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	683,326	64	13,164	22	2,575	306,039	11,378	25,128	268,227	1,800	1,200,756	1,127,509	73,247	2,841,908	48
886	509,691	106	31,216	25	2,509	90,518	1,949	10,346	78,148	75	1,953,872	1,816,004	137,265	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	2,947,253	50
1,677	881,987	53	11,316	106	20,942	172,155	11,148	10,221	150,286	500	1,563,257	1,494,820	68,437	3,404,032	51
817	330,274	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	66,125	8	1,490	17	1,710	13,022	2,756	1,971	7,395	900	154,866	145,637	9,229	388,312	53
1,473	639,125	467	130,831	11	700	2,112,601	13,236	25,424	2,073,951	—	3,056,601	2,944,736	111,865	6,065,226	54
943	566,385	1	260	—	—	131,395	592	18,622	112,181	—	5,526,128	4,977,937	548,191	7,563,573	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	28,537	1,417,157	1,876,210	41,947	3,423,186	59
556	465,263	92	16,291	5	508	86,576	6,154	7,750	63,931	8,732	905,007	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	5,758,129	61
96	44,931	16	4,117	—	—	16,052	2,673	1,214	12,165	—	100,695	96,681	4,014	243,882	62
717	367,597	91	25,409	9	1,579	128,038	9,122	5,903	110,670	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	2,739	47,801	—	433,221	425,652	4,569	820,802	64
442	155,412	43	9,357	3	634	36,914	6,989	2,169	24,831	2,925	319,300	309,491	9,809	603,949	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	2,658	40,898	3,882	5,456	31,260	300	961,112	913,660	47,452	1,522,626	67
3,441	1,347,575	1,043	197,652	99	10,963	802,946	22,820	25,852	710,000	44,274	3,824,993	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	9,904	—	—	37,765	4,119	4,053	22,646	6,968	462,842	437,731	25,111	893,823	70
843	526,140	128	41,139	6	2,073	135,603	10,278	9,872	118,374	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	3,190,342	72
860	442,161	182	35,915	3	370	134,264	3,935	11,516	112,813	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	23,276	1,858,626	74
1,613	778,433	246	61,477	192	34,186	227,624	76,387	16,051	130,570	4,616	2,638,875	2,104,699	594,176	5,235,161	75
1,066	500,422	296	67,906	6	1,332	194,471	13,459	13,367	167,024	621	900,003	814,449	85,554	2,107,805	76
560	295,509	68	17,827	12	2,064	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	181,009	1,062	1,135,619	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	57,954	13	2,419	1	104	21,655	2,142	2,414	17,099	—	187,106	182,203	4,903	357,505	80
673	246,612	184	27,270	4	940	94,401	9,621	8,775	79,433	575	770,733	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	5,927	4,251	38,992	459	289,717	283,556	6,161	604,781	83
1,646	762,158	286	72,469	16	1,100	198,109	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	800	24,376	5,800	2,795	16,629	92	352,233	346,335	5,898	650,893	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	435,820	62	16,018	1	126	47,624	3,678	5,738	35,050	3,158	600,918	587,866	73,522	1,518,190	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	139,647	10,951	11,398	101,898	15,400	2,171,360	2,142,019	28,741	3,122,797	90

Twelfth Census of the United States.

CENSUS BULLETIN.

No. 135.

WASHINGTON, D. C.

April 12, 1902.

AGRICULTURE.

ALABAMA.

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

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of agriculture for the state of Alabama, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

A "farm," as defined by the Twelfth Census, includes all the land, under one management, used for raising crops and pasturing live stock, with the wood lots, swamps, meadows, etc., connected therewith. It also includes the house in which the farmer resides, and all other buildings used by him in connection with his farming operations.

The farms of Alabama, June 1, 1900, numbered 223,220 and were valued at \$134,618,183. Of this amount \$34,452,612, or 25.6 per cent, represents the value of buildings, and \$100,165,571, or 74.4 per cent, the value of land and improvements other than buildings. On the same date the value of farm implements and machinery was \$8,675,900, and of live stock, \$36,105,799. These values, added to that of farms, give \$179,899,882, the "total value of farm property."

The products derived from domestic animals, poultry, and bees, including animals sold and animals slaughtered on farms, are referred to in this bulletin as "animal products." The total value of such products, together

with the value of all crops, is termed "total value of farm products." This value for 1899 was \$91,887,409, of which amount \$18,196,689, or 19.9 per cent, represents the value of animal products, and \$73,190,720, or 80.1 per cent, the value of crops, including forest products. The total value for 1899 exceeds that reported for 1889 by \$25,147,219, or 38.0 per cent. A large part of this apparent increase is doubtless due to a more detailed enumeration in 1900 than in 1890.

The value of "net farm products" or the "gross farm income" is obtained by deducting from the "total value of farm products" the value of the products fed to live stock on the farms of the producers. In 1899 the reported value of products fed was \$10,095,690, leaving \$81,291,719 as the gross farm income for that year. The percentage which this amount is of the "total value of farm property" is referred to in the text of the bulletin as the "percentage of gross income upon investment." For Alabama in 1899 it was 45.3 per cent. As no reports of expenditures for taxes, interest, insurance, feed for stock, and similar items have been obtained by any census, no statement of net farm income can be given.

The statistics presented in this bulletin will be treated in greater detail in the final report on agriculture in the United States, which will be published about June 1, 1902. The present publication is designed to present a summarized advance statement for Alabama.

Very respectfully,

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Chief Statistician for Agriculture.

AGRICULTURE IN ALABAMA.

GENERAL STATISTICS.

Alabama has a total land surface of 51,540 square miles, or 32,985,600 acres, of which 20,685,427 acres, or 62.7 per cent, are included in farms. The Appalachian mountain system terminates in the northern part of the state, rendering its surface rugged and broken. The southern half of the state is a low, level, plain, sloping gently from the mountain region to the Gulf and drained by numerous large rivers.

With respect to soils, the state may be divided into four great belts, namely, the cereal, mineral, cotton, and timber belts. The northern, or cereal belt, includes the valleys of the Tennessee River and its tributaries. The deep, red, calcareous soil of these valleys is especially adapted to grain production. South of this region is the mineral belt. A red or gray loam with a heavy clay subsoil is the prevailing soil of this section, much of which is not adapted to cultivation. South of the mining district is the cotton belt, comprising an area approximately one hundred miles wide on the western border and sixty miles on the eastern. It has a great variety of soils, the most productive being the deep black loam of the creek and river bottoms. In the extreme southern part of the state lies the timber belt, the soil of which, though not generally very fertile, is fairly productive when carefully cultivated.

NUMBER AND SIZE OF FARMS.

The following table shows, by decades since 1850, the number of farms, the total and average acreage, and the per cent of farm land improved.

TABLE 1.—FARMS AND FARM ACREAGE: 1850 TO 1900.

YEAR.	Number of farms.	NUMBER OF ACRES IN FARMS.				Per cent of farm land improved.
		Total.	Improved.	Unimproved.	Average.	
1900.....	228,220	20,685,427	8,654,991	12,030,436	92.7	41.8
1890.....	157,772	19,853,000	7,698,343	12,154,657	125.8	38.8
1880.....	135,561	18,855,334	6,375,706	12,479,628	138.8	33.8
1870.....	67,382	14,961,178	5,062,204	9,898,974	222.0	33.8
1860.....	55,128	19,104,545	6,385,724	12,718,821	346.5	33.4
1850.....	41,964	12,137,681	4,435,614	7,702,067	289.2	36.5

The number of farms in 1900 was over five times as great as in 1850, and 41.5 per cent greater than in 1890. The total acreage has not increased so rapidly, the gain since 1850 being but 70.4 per cent, and in the last decade but 4.2 per cent. The average size of farms in 1900 was less than one-third of what it was in 1850. This reduction in the average size and increase in the number of farms, which, of course, represents an increase in the number of farmers, is a natural accompaniment of the general agricultural development of the state. As is indicated by the increase since 1860 in the percentage of farm land im-

proved, the cultivation of the soil is more intensive, and the utilization of available farming land is more complete.

FARM PROPERTY AND PRODUCTS.

Table 2 presents a summary of the principal statistics relating to farm property and products for each census year, beginning with 1850.

TABLE 2.—VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND OF PRODUCTS: 1850 TO 1900.

YEAR.	Total value of farm property.	Land, improvements, and buildings.	Implements and machinery.	Live stock.	Farm products. ¹
1900.....	\$179,399,882	\$134,618,183	\$8,675,900	\$36,105,799	\$91,387,409
1890.....	146,839,765	111,051,390	4,511,645	30,776,730	66,240,190
1880.....	106,631,307	78,951,648	3,788,978	23,787,681	56,872,994
1870 ²	97,716,055	67,789,086	3,286,324	26,639,035	47,522,335
1860.....	226,669,611	175,824,822	7,433,178	43,411,711	.....
1850.....	91,138,999	64,323,224	5,125,663	21,690,112	.....

¹ For year preceding that designated.

² Values for 1870 were reported in depreciated currency. To reduce to specie basis of other figures they must be diminished one-fifth.

³ Includes betterments and additions to live stock.

The decade 1850 to 1860 was a period of remarkable agricultural development in all of the states where cotton was a staple crop. An active demand for the fiber at profitable prices, together with the increasing supply and efficiency of slave labor, encouraged the planters to increase their capital, and especially their holdings of available land, to the greatest possible extent. The rapidity of the expansion is plainly reflected in the figures of the table. In ten years the total value of farm property increased 148.7 per cent, and the value of land, buildings, and improvements, and of live stock, more than doubled. The figures for 1870 show most strikingly the disastrous effect of the Civil War. The marked advance of the preceding decade was abruptly checked, and in 1870 the total value of the agricultural resources of the state was but little greater than twenty years before. The severity of the blow is made evident by the slowness of recovery. The gain made in the total value of farm property during the thirty years from 1870 to 1900 was 39.7 per cent less than the gain for the prosperous ten-year period between 1850 and 1860, and the present census shows that in but one class of farm property, that of implements and machinery, has the state regained, as yet, the position it occupied in 1860.

The progress made during the last decade is noteworthy. The total value of farm property increased \$33,060,117, or 22.6 per cent, of which amount \$23,586,793, or 71.3 per cent, represents the gain in the value of land, improvements, and buildings; \$4,164,255, or 12.6 per cent, in that of implements and machinery; and \$5,329,069, or 16.1 per cent, in that of live stock. The value of farm products reported for 1899 is 38.0 per cent greater than

the value reported for 1889. Part of this increase, and of that in the value of implements and machinery and live stock, is doubtless the result of a more detailed enumeration in 1900 than in previous census years.

COUNTY STATISTICS.

Table 3 gives an exhibit of general agricultural statistics by counties.

TABLE 3.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, JUNE 1, 1900, WITH VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1899 FOR LABOR AND FERTILIZERS, BY COUNTIES.

COUNTIES.	NUMBER OF FARMS.		ACRES IN FARMS.		VALUES OF FARM PROPERTY.				Value of products not fed to live stock.	EXPENDITURES.	
	Total.	With buildings.	Total.	Improved.	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		Labor.	Fertilizers.
The State	223,220	212,551	20,685,427	8,651,991	\$100,165,571	\$34,452,612	\$8,675,900	\$36,105,799	\$81,291,710	\$1,314,460	\$2,599,290
Autauga	2,548	2,298	244,511	98,612	1,097,667	380,825	92,870	351,161	963,803	52,160	29,170
Baldwin	687	679	151,632	13,552	360,500	212,730	42,220	294,988	209,019	18,680	17,120
Barbour	4,516	4,373	452,912	224,766	1,667,689	576,049	170,610	635,219	1,772,738	83,590	73,050
Bibb	1,740	1,653	184,363	52,128	975,775	310,255	85,730	315,649	677,125	29,140	34,240
Blount	3,563	3,435	321,441	128,769	1,229,990	480,750	134,620	612,960	1,118,281	28,200	39,370
Bullock	5,005	4,831	344,763	210,491	1,992,279	512,840	196,420	656,860	1,885,305	124,180	32,440
Butler	3,249	3,046	334,719	134,763	1,322,950	507,975	107,970	485,628	1,325,370	64,080	54,500
Calhoun	2,991	2,850	222,775	100,622	1,845,790	640,510	136,170	501,277	1,023,045	36,970	29,170
Chambers	4,132	3,961	345,728	190,070	2,194,844	775,575	179,090	653,086	1,936,124	164,770	134,200
Cherokee	2,947	2,883	255,061	111,907	1,546,130	531,820	140,410	536,998	1,107,511	37,680	36,630
Chilton	2,823	2,262	221,471	80,663	950,433	442,930	90,100	376,417	807,124	85,440	88,230
Choctaw	2,883	2,781	304,605	107,684	810,980	383,520	93,410	451,583	872,960	43,610	15,800
Clarke	3,972	3,789	478,907	185,633	1,283,726	620,939	138,200	634,346	1,181,944	58,820	23,180
Clay	2,887	2,843	258,731	67,313	648,330	214,940	59,790	420,075	931,224	10,710	29,170
Cleburne	2,086	1,999	201,531	67,849	920,360	282,120	75,560	289,847	561,586	20,980	28,970
Coffee	2,849	2,750	331,975	131,063	1,219,263	398,830	106,210	463,482	1,208,032	57,820	89,760
Colbert	2,373	2,304	222,562	102,614	1,338,670	403,000	98,460	397,901	818,433	27,290	5,670
Conecuh	2,457	2,396	270,515	89,098	894,230	436,070	106,750	360,870	743,753	44,130	88,140
Coosa	2,535	2,521	299,445	96,176	867,300	362,750	96,850	391,225	916,404	30,840	27,970
Covington	1,941	1,913	260,001	67,773	682,990	310,130	57,620	336,724	644,364	17,450	42,620
Crenshaw	2,972	2,852	288,354	131,413	943,383	347,025	96,520	407,682	1,292,662	51,270	72,820
Cullman	2,998	2,912	269,794	94,116	1,183,370	574,910	122,180	431,841	903,500	10,810	35,900
Dale	3,062	2,906	337,276	148,763	1,132,100	456,471	136,100	471,520	1,405,370	51,780	78,340
Dallas	7,141	6,813	455,559	239,269	2,942,636	842,737	241,110	1,007,427	2,666,386	196,090	35,170
DeKalb	4,004	3,851	340,884	126,693	1,445,530	595,600	139,380	626,024	1,184,911	22,670	47,750
Elmore	3,421	3,210	312,585	139,323	1,493,670	592,613	139,720	513,686	1,283,423	110,760	49,690
Escambia	959	936	102,794	23,131	847,670	323,670	36,030	229,504	494,884	12,120	15,270
Etowah	2,735	2,614	255,359	99,719	1,911,010	703,390	135,410	451,387	980,428	32,800	39,120
Fayette	2,371	2,273	310,470	82,312	741,710	311,960	85,060	394,065	861,118	18,820	20,590
Franklin	2,239	2,134	276,265	80,944	887,210	230,400	92,140	376,794	694,213	8,350	16,180
Geneva	2,290	2,193	305,019	101,552	919,770	372,190	85,820	393,137	887,076	40,560	69,590
Greene	4,130	3,994	296,042	150,087	1,537,931	476,450	142,610	628,749	1,435,360	92,690	8,740
Hale	3,805	3,643	336,133	174,725	2,517,604	571,653	165,070	730,200	1,673,156	134,730	12,950
Henry	4,600	4,325	537,022	239,388	2,104,657	715,913	188,920	641,197	2,036,613	108,410	118,220
Jackson	4,244	4,144	443,532	155,052	2,919,910	728,760	175,500	946,574	1,392,840	49,750	11,740
Jefferson	3,776	3,667	287,048	108,670	2,307,740	1,026,000	193,730	766,180	1,400,839	72,050	37,040
Lamar	2,506	2,545	325,676	94,013	907,180	344,950	87,450	347,647	869,739	17,150	24,210
Lauderdale	3,210	3,118	321,513	127,490	1,891,660	566,030	142,830	558,209	1,070,682	29,280	10,830
Lawrence	3,196	3,069	291,443	136,934	1,583,040	461,650	121,540	553,623	997,057	24,710	17,070
Lee	3,551	3,404	327,939	171,187	1,827,705	718,905	154,840	519,993	1,546,138	118,600	74,340
Limestone	3,584	3,478	269,528	139,730	2,171,630	623,060	148,840	535,570	1,172,758	40,120	22,890
Lowndes	7,032	5,533	343,466	222,608	2,457,840	709,670	160,870	823,020	2,193,382	146,890	17,030
Macon	3,824	3,730	255,470	142,568	1,465,152	488,045	108,810	498,820	1,207,423	106,250	38,330
Madison	5,142	4,978	389,970	225,384	3,695,365	1,087,225	290,680	950,531	2,046,718	118,770	26,800
Marengo	5,588	5,102	432,475	226,784	2,588,001	717,645	198,160	914,775	2,071,924	182,310	13,090
Marion	2,466	2,376	324,783	79,419	652,830	274,470	81,050	391,066	694,609	15,230	23,610
Marshall	3,806	3,659	325,737	127,360	1,578,230	537,790	128,560	599,982	1,220,544	37,990	44,120
Mobile	869	854	105,137	17,464	895,130	498,890	82,490	282,648	422,850	48,020	69,710
Monroe	3,549	3,390	444,356	144,485	1,400,916	595,245	132,420	526,237	1,210,103	78,470	30,430
Montgomery	5,762	5,300	371,763	261,974	3,822,674	938,260	221,290	1,005,629	2,519,888	178,420	37,100
Morgan	3,079	2,957	272,078	120,827	1,479,760	562,540	145,140	561,237	1,018,046	28,150	16,800
Perry	4,695	4,374	374,143	182,462	2,047,803	724,400	179,470	750,847	1,790,970	184,220	13,900
Pickens	4,164	4,065	456,378	147,423	1,667,069	536,085	125,970	620,288	1,424,278	81,140	32,970
Pike	4,010	3,762	349,484	189,405	1,903,008	581,795	136,580	630,297	2,042,235	86,470	133,480
Randolph	3,582	3,428	303,472	135,715	1,808,480	442,900	136,460	478,753	1,202,309	56,290	78,420
Russell	3,181	2,984	304,511	157,423	1,505,217	502,590	142,060	494,637	1,266,805	106,480	46,120
St. Clair	2,054	2,590	243,929	93,089	1,107,470	439,180	114,140	475,915	925,616	18,190	23,620
Shelby	2,476	2,411	220,097	91,428	1,147,760	469,190	115,670	473,029	955,949	17,960	25,150
Sumter	5,140	4,938	406,501	220,071	1,991,250	632,050	164,660	932,954	1,947,694	155,760	14,230
Talladega	3,964	3,863	287,128	155,546	2,131,480	689,230	180,950	675,314	1,570,380	88,280	65,490
Tallapoosa	4,334	4,101	426,176	177,700	2,032,800	704,140	166,680	627,474	1,760,852	75,270	94,940
Tuscaloosa	3,894	3,772	410,762	145,123	1,689,034	561,255	184,740	714,026	1,522,185	86,490	49,130
Walker	2,463	2,375	287,835	74,822	924,640	386,900	98,380	462,568	774,609	19,940	14,770
Washington	1,171	1,143	208,754	27,928	626,570	240,500	51,510	366,976	335,190	21,490	20,880
Wilcox	6,041	5,616	437,629	214,166	2,090,970	678,116	178,110	874,565	2,064,347	165,230	17,810
Winston	1,642	1,594	266,493	51,905	399,030	190,500	51,490	228,931	393,506	5,990	12,080

In the last decade the number of farms increased in all counties, those showing the greatest percentages of increase being Washington, with 115.7 per cent; Baldwin, with 108.2; Talladega, with 82.7; Franklin, with 68.7; and Lawrence, with 67.0.

Comparison with the figures of the Eleventh Census, shows an increase in the acreage of farm land in two-thirds of the counties of the state, and a still more general increase in improved acreage. The counties showing decreases in both total and improved farm acreage in the last ten years are Barbour, Chambers, Lawrence, Montgomery, Sumter, and Wilcox.

The average size of farms varies from 220.7 acres in Baldwin county to 48.5 acres in Lowndes, being, as a rule, smallest for the counties having the greatest acreages of cotton.

Between 1890 and 1900 the value of farms decreased in Barbour, Blount, Clay, Dale, Hale, Lawrence, Morgan, and Wilcox counties. All other counties show increases. For the state the average value of farms is \$603.07. The only county in which the average value exceeds \$1,000 is Mobile; and the lowest average is in Clay county, where it is less than \$300.

Every county shows a marked gain, since 1890, in the value of implements and machinery, the value in most cases having more than doubled; and every county except Blount, Limestone, and Pickens reports a gain in the capital invested in live stock.

The average expenditures per farm for labor varied greatly, being highest in the counties of the cotton belt and lowest in the northwestern counties.

The amount expended for fertilizers in 1899 was slightly greater than in 1889, and ranged in general from 5 cents to \$1.00 per acre of improved land. By far the highest expenditure is shown for Mobile county—almost \$4.00 per acre. In this county the few farms are subjected to a very intensive system of cultivation, while the soil, being sandy, requires more than the average amount of fertilization.

INCREASE IN THE NUMBER OF FARMERS IN ALABAMA.

In this bulletin those individuals who, as owners, salaried managers, or tenants, operate farms with or without the assistance of members of their household or hired laborers, are designated "farmers." All others working on farms are spoken of as "farm laborers." The number of farmers at any given time corresponds closely to the number of farms.

Since 1850 the population of Alabama has increased from 771,623 to 1,828,697, or rather more than twofold, while the number of farms has advanced from 41,964 to 223,220, or over fivefold. In every decade, except from 1880 to 1890, the rate of gain in the number of farms, and, consequently, in the number of persons operating farms as owners or tenants, has exceeded that in population.

That these facts, and those contained in Tables 4, 4a, and 5, which follow, may be seen in their true relation to the

agricultural conditions and changes on Alabama farms, they should be studied in connection with the census statistics of occupations. Those statistics are available for 1880 and 1890, but not as yet for 1900. In 1880, the total number of males engaged in agriculture was 291,477, while in 1890 it was 288,814. In 1880, 151,565 of the total number were laborers working for wages, while in 1890 the number of laborers was but 118,798. In connection with each 1,000 farms there were, in 1880, 2,145 males employed in some capacity. Of that number, approximately 532 operated farms as owners; 468, as tenants; 1,116 were farm laborers working for wages; and 29 were employed for wages at special occupations, such as gardening, floriculture, etc. In 1890 for each 1,000 farms 1,831 males were employed, of whom 514 operated farms as owners; 486, as tenants; 753 were employed as farm laborers; and 78, at special occupations.

As showing the relative changes in the four classes of farming population, the following comparative statement is presented: Of every 1,000 males engaged in agriculture in 1880, approximately 248 operated farms as owners; 218, as tenants; 520 worked as farm laborers; and 14 worked for wages at special occupations. In 1890 there were 281 owners, 265 tenants, 411 farm laborers, and 43 special wage laborers. In 1890 the persons operating farms as owners or tenants, and the special wage laborers, constituted a larger proportion of the total number of males engaged in agriculture than they did in 1880, while the number of farm laborers in 1890 was absolutely, as well as relatively, smaller.

The total farming population varies from decade to decade approximately with the number of males engaged in agriculture. The figures given above show that, compared with the total farming population, farm owners were 13.3 per cent more numerous and tenants 21.6 per cent more numerous in 1890 than in 1880, while laborers were 20.0 per cent less numerous. The relative changes thus shown in these classes resulted in raising the average social and economic level of the farming population. Whether caused by the rise of wage laborers to farm ownership, or tenancy, as appears probable from the figures reviewed, or by additions to the classes of owners or tenants from other occupations, this elevation is a beneficent change in all its aspects.

The occupation tables for 1900 are not yet completed, but if the changes in rural population are reliable indices of the changes in the farming population proper, the movement noted for the decade from 1880 to 1890 continued with but slight modification in the last decade, and the average condition of people toiling on Alabama farms has been raised even more in the last ten years than is shown by the foregoing comparisons for the preceding decade.

FARM TENURE.

In connection with the changes noted above, attention is called to the specific changes in farm tenure shown in Tables 4, 4a, and 5.

Table 4 gives a comparative exhibit of farms operated by owners and tenants for 1880, 1890, and 1900. The farms

operated by tenants are subdivided into two groups designated as farms operated by "cash tenants," and farms operated by "share tenants." These groups comprise, respectively: (1) Farms operated by individuals who pay a cash rental or a stated amount of labor or farm produce; and (2) farms operated by individuals who pay as rental a share of the products.

Table 4a presents, for the two decades covered by Table 4, the per cent of increase in rural population, in the total number of farms, and in the number of farms of specified tenures. In Table 5 the tenure of farms for 1900 is given by race of farmer, and the farms operated by owners are subdivided into groups, designated as farms operated by "owners," "part owners," "owners and tenants," and "managers." These groups comprise, respectively: (1) Farms operated by individuals who own all the land they cultivate; (2) farms operated by individuals who own a part of the land and rent the remainder from others; (3) farms operated under the joint direction and by the united labor of two or more individuals, one owning the farm or part of it, and the other or others owning no part, but receiving for supervision or labor a share of the products; and (4) farms operated by individuals who receive for their supervision and other services a fixed salary from the owners.

TABLE 4.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES: 1880 TO 1900.

YEAR.	Total number of farms.	NUMBER OF FARMS OPERATED BY—			PER CENT OF FARMS OPERATED BY—		
		Owners. ¹	Cash tenants.	Share tenants.	Owners. ¹	Cash tenants.	Share tenants.
1900	223,220	94,846	74,830	54,544	42.3	33.3	24.4
1890	157,772	81,141	38,931	37,700	51.4	24.7	23.9
1880	185,864	72,215	22,888	40,761	53.2	16.8	30.0

¹ Including "part owners," "owners and tenants," and "managers."

TABLE 4a.—PER CENT OF INCREASE IN RURAL POPULATION, IN THE TOTAL NUMBER OF FARMS, AND IN THE NUMBER OF FARMS OF SPECIFIED TENURES, FOR THE DECADES 1880 TO 1890 AND 1890 TO 1900, AND FOR THE TWENTY-YEAR PERIOD, 1880-1900.

PERIODS.	PER CENT OF INCREASE IN—					
	Rural population.	Total number of farms.	Number of farms operated by—			
			All owners.	All tenants.	Cash tenants.	Share tenants.
1890-1900	16.6	41.5	16.3	68.2	90.9	44.7
1880-1890	15.0	16.1	12.4	20.4	70.1	17.5
1880-1900	34.1	61.3	30.6	102.5	224.8	33.8

¹ Decrease.

TABLE 5.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER.

PART 1.—NUMBER OF FARMS OF SPECIFIED TENURES.

RACE.	Total number of farms.	Owners.	Part owners.	Owners and tenants.	Managers.	Cash tenants.	Share tenants.
The State.	223,220	81,046	11,557	869	874	74,330	54,544
White	129,137	69,923	8,686	753	802	18,118	30,855
Colored	94,083	11,123	2,871	116	72	56,212	23,689
Negro	94,069	11,112	2,871	116	72	56,209	23,689
Indian	14	11				3	

PART 2.—PER CENT OF FARMS OF SPECIFIED TENURES.

The State.	100.0	36.3	5.2	0.4	0.4	33.3	24.4
White	100.0	54.2	6.7	0.6	0.6	14.0	23.9
Colored	100.0	11.8	3.1	0.1	0.1	59.7	25.2

Of the farms of the state, 57.9 per cent are operated by white farmers, and 42.1 per cent by colored farmers. Of the white farmers, 61.5 per cent own all or a part of the farms they operate, 37.9 per cent are tenants, and 0.6 per cent are managers. Of the colored farmers, 15.0 per cent are owners, 84.9 per cent are tenants, and 0.1 per cent are managers.

The relative number of farms rented for cash or for a share of the products is determined largely by the race of farmer and the kind of crops grown. In the counties where diversified farming prevails, and a large proportion of the farmers are white, share tenants greatly outnumber cash tenants, but in the leading cotton-growing counties, where nearly all farmers are colored, the proportion of cash tenants is greater. In the cotton-growing counties most of the white tenants rent for cash, but among colored farmers it is difficult to draw the distinguishing line very closely, as the leasing contract is often such as to make the lessee partly a cash and partly a share tenant. The reported increases in the relative number of cash tenants are confined principally to the cotton-growing counties.

No previous census has reported the number of farms operated by "part owners," "owners and tenants," or "managers," but it is believed that the number conducted by the last-named class is constantly increasing.

PROGRESS OF COLORED FARMERS.

In 1850 the number of colored farmers was practically a negligible quantity. In 1900 it was 94,083, indicating the rise of substantially that number from the status of slaves or wage laborers to that of farmers.

The Eleventh Census, in its report on "Farms and Homes," gives valuable statistics relating to the number

of colored farmers owning and renting farms, the only statistics of the kind which can be used, in connection with Table 5, to throw any light upon the changes in the status of negro farmers in the last decade. These statistics are not, it is true, strictly comparable with the statistics of farm tenure collected by the division of agriculture, but after making due allowance for variations, a careful comparison indicates that during the last decade the number of colored owners and tenants increased nearly two and three times as fast, respectively, as the negro population.

The status of the colored farming population of Alabama has been materially improved since emancipation, and the statistics at present available indicate more rapid progress since 1890 than in any preceding decade.

FARMS CLASSIFIED BY RACE OF FARMER AND BY TENURE.

Tables 6 and 7 present the principal statistics of farms classified by race of farmer and by tenure.

TABLE 6.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER AND BY TENURE, WITH PERCENTAGES.

RACE OF FARMER, AND TENURE.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223,220	92.7	20,685,427	100.0	\$179,399,882	100.0
White farmers.....	129,137	123.6	15,965,260	77.2	132,481,529	73.8
Colored farmers ¹	94,083	50.2	4,720,167	22.8	46,918,353	26.2
Owners.....	81,016	148.0	11,996,845	58.0	91,186,408	50.8
Part owners.....	11,557	124.0	1,432,915	6.9	11,924,095	6.7
Owners and tenants.....	869	156.0	135,590	0.7	1,068,297	0.6
Managers.....	871	413.4	361,301	1.7	4,733,717	2.6
Cash tenants.....	74,830	54.8	4,073,674	19.7	43,201,226	24.1
Share tenants.....	54,544	49.2	2,685,102	13.0	27,236,139	15.2

¹ Including 14 Indians.

TABLE 7.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY RACE OF FARMER AND BY TENURE.

RACE OF FARMER, AND TENURE.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total invest- ment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.		
The State.....	\$449	\$154	\$39	\$163	\$364	45.3
White farmers.....	551	219	52	204	421	41.0
Colored farmers ¹	309	65	21	104	286	57.4
Owners.....	582	256	61	226	440	39.2
Part owners.....	559	208	51	214	423	40.9
Owners and tenants.....	663	231	58	277	466	37.8
Managers.....	3,551	939	242	684	1,290	23.8
Cash tenants.....	354	88	24	120	323	55.7
Share tenants.....	303	76	20	101	278	55.5

¹ Including 14 Indians.

Many of the apparent anomalies shown in these tables are the results of conditions peculiar to cotton-growing districts where, before negro emancipation, cotton was grown on large plantations by slave labor. Immediately after emancipation the slave system gave way to one of hired labor, and this, in turn, was succeeded by a tenant system, under which the former laborers leased and cultivated land under contracts that placed both land and laborer under the supervision of the landlord or of an overseer employed by him. Where this system prevails, the best and most highly improved land of the plantations is leased in small tracts, which appear in census reports as farms of colored tenants. The lands not thus leased, consisting of large unimproved areas and small tracts of improved land, constitute the farms of the plantation owners, as reported by the census. The leased land is the more valuable per acre, has a higher per cent of improved area, and produces crops having a greater value per acre, and representing in value a greater per cent of the capital invested in farm property.

The land in the leading cotton-growing counties, the greater part of which is leased, is much more valuable than the average land in other parts of the state, and yields a greater gross income upon capital invested. Thus in the counties of Pike and Chambers the average gross incomes of farms in 1899 were \$509 and \$469, respectively, while in the counties of Escambia and Winston they were \$261 and \$240, respectively. The average gross income per acre in the former two counties was \$5.84 and \$5.60, and in the latter two, \$2.43 and \$1.48, respectively. The percentage of gross income upon farm investments for the same counties was 62.8 and 50.9, and 30.6 and 45.2, respectively. Most of the colored farmers of Alabama are found in the cotton-growing counties where agricultural conditions are as above described. Negroes constitute 35.4 per cent of the farmers in Pike county and 47.2 per cent in Chambers county, while in Escambia and Winston counties the corresponding percentages are but 19.9 and 0.1, respectively.

These facts must be borne in mind in drawing comparisons between the statistics given in Tables 6 and 7 for farms of white and colored farmers and for those of owners and tenants. The relatively high average gross income shown for farms operated by tenants and for those operated by negroes must not be construed as evidence of superior farm management. It is the natural consequence of the greater fertility and value of the land in those counties in which negroes predominate, and where the contract system of tenure is most common.

FARMS CLASSIFIED BY AREA.

Tables 8 and 9 present the principal statistics for farms classified by area.

TABLE 8.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY AREA, WITH PERCENTAGES.

AREA.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223, 220	92.7	20, 685, 427	100.0	\$179, 399, 882	100.0
Under 3 acres.....	768	1.9	1, 482	(1)	442, 087	0.2
3 to 9 acres.....	10, 009	6.4	64, 183	0.3	2, 556, 085	1.4
10 to 19 acres.....	20, 886	14.2	297, 155	1.4	6, 243, 039	3.5
20 to 49 acres.....	80, 784	31.9	2, 579, 379	12.5	35, 866, 549	19.7
50 to 99 acres.....	47, 745	70.6	3, 369, 528	16.3	35, 702, 655	19.9
100 to 174 acres.....	37, 111	132.8	4, 903, 792	24.0	37, 015, 707	20.6
175 to 259 acres.....	12, 561	209.9	2, 636, 784	12.8	18, 551, 563	10.4
260 to 499 acres.....	9, 632	337.9	3, 251, 487	15.7	20, 942, 383	11.7
500 to 999 acres.....	2, 788	648.7	1, 808, 499	8.7	12, 156, 274	6.8
1, 000 acres and over.....	956	1, 788.8	1, 710, 138	8.3	10, 413, 535	5.8

¹ Less than one-tenth of 1 per cent.

TABLE 9.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY AREA.

AREA.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$449	\$154	\$39	\$162	\$364	45.3
Under 3 acres.....	172	238	18	103	221	33.8
3 to 9 acres.....	107	97	10	41	92	36.2
10 to 19 acres.....	146	72	13	68	153	51.1
20 to 49 acres.....	238	77	21	102	267	60.9
50 to 99 acres.....	415	133	37	163	408	54.6
100 to 174 acres.....	548	196	51	207	445	44.6
175 to 259 acres.....	819	295	76	288	569	38.5
260 to 499 acres.....	1, 247	439	107	381	712	32.8
500 to 999 acres.....	2, 683	825	200	652	1, 158	26.6
1, 000 acres and over.....	7, 269	1, 798	457	1, 369	2, 316	21.3

The group of medium-sized farms, containing from 100 to 174 acres each, comprises nearly one-fourth of the total farm acreage and more than one-fifth of the total value of farm property.

For the group of farms containing less than 3 acres each, the average values given in Table 9 are relatively high, as this group contains most of the florists' establishments of the state, and a number of city dairies. It should be borne in mind that the income from these industries is determined not so much by the acreage of land used, as by the amount of capital invested in buildings and implements and by the amounts expended for labor and fertilizers.

The average gross incomes per acre for the various groups classified by area are as follows: Farms under 3 acres, \$114.37; 3 to 9 acres, \$14.42; 10 to 19 acres, \$10.75; 20 to 49 acres, \$8.35; 50 to 99 acres, \$5.78; 100 to 174 acres, \$3.83; 175 to 259 acres, \$2.71; 260 to 499 acres, \$2.11; 500 to 999 acres, \$1.79; 1,000 acres and over, \$1.29.

FARMS CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

Tables 10 and 11 present the leading features of the sta-

tistics relating to farms classified by principal source of income. If the value of the hay and grain raised on any farm exceeds that of any other crop and constitutes at least 40 per cent of the total value of products not fed to live stock, the farm is classified as a hay and grain farm. If vegetables are the leading crop, constituting 40 per cent of the value of the products, it is a vegetable farm. The farms of the other groups are classified in accordance with the same general principle. "Miscellaneous" farms are those whose operators do not derive their principal income from any one class of farm products. Farms for which no income was reported are classified according to the agricultural operations upon other farms in the same locality.

TABLE 10.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME, WITH PERCENTAGES.

PRINCIPAL SOURCE OF INCOME.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223, 220	92.7	20, 685, 427	100.0	\$179, 399, 882	100.0
Hay and grain.....	10, 801	96.9	1, 046, 481	5.1	11, 236, 960	6.3
Vegetables.....	2, 483	64.3	159, 588	0.8	2, 615, 362	1.5
Fruit.....	401	90.7	36, 369	0.2	531, 282	0.3
Live stock.....	12, 825	131.9	1, 729, 768	8.4	14, 652, 615	8.2
Dairy produce.....	7, 504	84.8	636, 323	3.1	7, 116, 131	4.0
Tobacco.....	67	141.5	9, 480	(1)	83, 742	(1)
Cotton.....	141, 965	78.7	11, 174, 784	54.0	98, 856, 769	55.1
Rice.....	33	122.9	4, 057	(1)	29, 676	(1)
Sugar.....	187	75.4	10, 329	(1)	89, 073	(1)
Flowers and plants.....	23	4.2	96	(1)	140, 877	0.1
Nursery products.....	22	242.4	5, 333	(1)	189, 387	0.1
Miscellaneous.....	46, 959	125.1	5, 872, 819	28.4	43, 858, 108	24.4

¹ Less than one-tenth of 1 per cent.

TABLE 11.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

PRINCIPAL SOURCE OF INCOME.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total investment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$449	\$154	\$39	\$162	\$364	45.3
Hay and grain.....	659	182	45	154	287	27.6
Vegetables.....	571	295	48	139	293	27.8
Fruit.....	844	331	65	85	817	23.9
Live stock.....	603	245	53	242	266	23.3
Dairy produce.....	443	256	40	209	244	25.8
Tobacco.....	717	291	65	177	679	54.3
Cotton.....	400	120	33	143	381	48.3
Rice.....	484	151	56	202	433	48.3
Sugar.....	312	145	32	161	249	33.4
Flowers and plants.....	2, 936	3, 087	62	40	1, 875	30.6
Nursery products.....	5, 674	2, 476	284	174	6, 008	69.8
Miscellaneous.....	492	199	49	194	377	40.3

For the several classes of farms the average values per acre of products not fed to live stock are as follows: For farms whose operators derive their principal income from flowers and plants, \$449.30; nursery products, \$24.78; cotton, \$4.84; tobacco, \$4.79; vegetables, \$4.55; rice,

\$3.52; fruit, \$3.50; sugar, \$3.31; miscellaneous, \$3.01; hay and grain, \$2.96; dairy produce, \$2.88; and live stock, \$1.97. In computing these averages the total area of the farms of each group is used, and not the acreage devoted to the crop from which the principal income is derived.

The wide variations shown in the averages and percentages of gross income are largely due to the fact that in computing gross income no deduction is made for expenditures. For florists' establishments, nurseries, and market gardens the average expenditure for such items as labor and fertilizers represents a far larger percentage of the gross income than in the case of "hay and grain," "live-stock," or "miscellaneous" farms. Were it possible to present the average net incomes, the variations shown would be comparatively slight.

FARMS CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

Tables 12 and 13 present data relating to farms classified by the reported value of products not fed to live stock.

TABLE 12.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK, WITH PERCENTAGES.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	223, 220	92.7	20,685,427	100.0	\$179,999,882	100.0
\$0.....	2, 284	56.2	128,376	0.6	970,150	0.5
\$1 to \$49.....	9, 127	34.1	311,605	1.5	2,473,969	1.4
\$50 to \$99.....	15, 838	39.4	625,966	3.0	4,809,100	2.7
\$100 to \$249.....	72, 631	57.5	4,178,299	20.2	38,110,980	18.5
\$250 to \$499.....	82, 030	90.1	7,389,567	35.7	60,361,222	33.7
\$500 to \$999.....	34, 245	153.1	5,413,572	26.2	47,898,590	26.7
\$1,000 to \$2,499.....	6, 265	327.1	2,049,522	9.9	21,592,530	12.0
\$2,500 and over.....	750	784.7	583,520	2.9	8,123,350	4.5

TABLE 13.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	AVERAGE VALUES PER FARM OF—					Per cent of gross income on total invest- ment in farm property.
	Farm property, June 1, 1900.				Gross income (products of 1899 not fed to live stock).	
	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.		
The State.....	\$449	\$154	\$39	\$162	\$364	45.3
\$0.....	293	63	15	54		
\$1 to \$49.....	161	58	9	43	29	10.6
\$50 to \$99.....	174	67	11	54	75	24.3
\$100 to \$249.....	252	83	20	96	186	40.7
\$250 to \$499.....	407	134	35	160	365	49.7
\$500 to \$999.....	791	254	71	283	688	49.2
\$1,000 to \$2,499.....	1,865	794	189	599	1,445	41.6
\$2,500 and over.....	6,383	2,301	616	1,551	5,021	46.4

Of the 2,284 farms reporting no income for 1899, 438 were operated by their owners, 22 by managers, 899 by cash tenants, and 925 by share tenants. The comparatively high average values of the land and buildings of these farms indicate that a considerable number of them are highly improved country places held for pleasure and not for profit. In the case of many tenant-operated farms, the absence of any reported income is due to the fact that such farms are constantly changing hands, and the farmers in charge, June 1, 1900, were frequently unable to give definite information concerning the products of the preceding year. To this extent the reports fall short of giving a complete exhibit of farm income in 1899.

LIVE STOCK.

At the request of the various live-stock associations of the country, a new classification of domestic animals was adopted for the census of 1900. The age grouping for neat cattle was determined by their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep by age and sex. The new classification permits a very close comparison with the figures published in previous census reports.

Table 14 presents a summary of live-stock statistics.

TABLE 14.—NUMBER OF DOMESTIC ANIMALS, FOWLS, AND BEES ON FARMS, JUNE 1, 1900, WITH TOTAL AND AVERAGE VALUES, AND NUMBER OF DOMESTIC ANIMALS NOT ON FARMS.

LIVE STOCK.	Age in years.	ON FARMS.			NOT ON FARMS.
		Number.	Value.	Average value.	Number.
Calves.....	Under 1.....	213,397	\$826,805	\$3.87	12,469
Steers.....	1 and under 2.....	52,023	355,759	6.84	2,680
Steers.....	2 and under 3.....	37,001	361,154	9.76	2,250
Steers.....	3 and over.....	40,436	831,167	20.56	4,409
Bulls.....	1 and over.....	18,027	205,161	11.38	567
Heifers.....	1 and under 2.....	83,027	703,459	8.47	2,918
Cows kept for milk.....	2 and over.....	279,263	5,512,940	19.74	22,866
Cows and heifers not kept for milk.....	2 and over.....	76,560	997,111	13.02	1,587
Colts.....	Under 1.....	8,724	203,492	23.33	273
Horses.....	1 and under 2.....	7,846	299,118	38.12	288
Horses.....	2 and over.....	136,073	7,403,511	54.41	18,114
Mule colts.....	Under 1.....	4,695	134,232	28.59	57
Mules.....	1 and under 2.....	7,853	390,664	49.75	156
Mules.....	2 and over.....	179,522	12,579,746	70.07	7,149
Asses and burros.....	All ages.....	1,819	131,826	74.12	200
Lambs.....	Under 1.....	87,755	104,153	1.19	1,266
Sheep (ewes).....	1 and over.....	157,830	259,428	1.64	3,381
Sheep (rams and wethers).....	1 and over.....	71,468	124,718	1.75	1,737
Swine.....	All ages.....	1,423,329	2,887,230	2.03	51,018
Goats.....	All ages.....	117,413	94,258	0.80	4,762
Fowls: 1.....					
Chickens 2.....		4,737,606			
Turkeys.....		129,326			
Geese.....		243,657			
Ducks.....		75,947			
Bees (swarms of).....		205,369	287,598	1.40	
Value of all live stock.....			36,105,799		

¹ The number reported is of fowls over 3 months old. The value is of all, old and young.

² Including Guinea fowls.

The total value of all live stock on farms, June 1, 1900, was \$36,105,799, of which 36.7 per cent represents the value of mules, asses, and burros; 21.9 per cent, that of horses; 15.3 per cent, that of dairy cows; 11.8 per cent,

that of other neat cattle; 8.0 per cent, that of swine; 3.9 per cent, that of poultry; and 2.4 per cent, that of all other live stock.

No reports were secured of the value of live stock not on farms, but it is probable that such animals have higher average values than those on farms. Allowing the same averages, however, the total value of the domestic animals not on farms would be \$2,327,880. Exclusive of poultry and bees not on farms, the total value of live stock in the state is approximately \$38,433,600.

CHANGES IN LIVE STOCK KEPT ON FARMS.

The following table shows the changes since 1850 in the number of the most important domestic animals.

TABLE 15.—NUMBER OF SPECIFIED DOMESTIC ANIMALS ON FARMS: 1850 TO 1900.

YEAR.	Dairy cows.	Other neat cattle.	Horses.	Mules and asses.	Sheep. ¹	Swine.
1900.....	279,263	520,471	152,643	193,889	229,298	1,423,829
1890.....	292,088	533,888	121,207	134,800	386,380	1,421,884
1880.....	271,443	479,747	113,950	121,081	347,538	1,252,462
1870.....	170,640	316,523	80,770	76,875	241,934	719,757
1860.....	230,537	542,859	127,033	111,687	370,156	1,748,321
1850.....	227,791	500,224	128,001	59,895	371,680	1,904,540

¹Lambs not included.

A comparison between the numbers of the several classes of domestic animals reported in 1890 and in 1900 indicates that an important change has taken place in the general character of the live-stock industry in Alabama. There has been a small decrease in the number of dairy cows, and a very marked decrease in the numbers of other neat cattle and of sheep. Horses, mules, and asses, on the other hand, show great increases, and swine have increased to some extent.

Although the table shows a decrease since 1890 of 4.4 per cent in the number of dairy cows, it is very probable that this decrease is more apparent than real, as the production of milk has increased nearly 78 per cent. It is considered probable that many of the 76,560 "cows and heifers not kept for milk" (see Table 14) were in reality milch cows, dry at the time of enumeration.

The actual decrease in the number of "other neat cattle" is doubtless even greater than that shown in the table. In 1900 the figures for "other neat cattle" include 213,397 calves, while it is not certain that calves were included under this head in previous census reports. If not, there has been, in the last decade, a decrease of nearly one-half in the number of cattle over one year of age raised for meat products. Owing to the rapid settlement of the state, the steady appreciation in the value of farm lands, and the increase in the acreage devoted to crops, the Alabama farmer has partially abandoned stock raising as a source of revenue. It must be borne in mind, however, that the comparatively high market prices of beef and mutton which prevailed for a number of months prior to the date of enumeration, led many farmers to reduce their herds and flocks to an unusual extent.

The rapid development of agriculture since the close of the Civil War is also shown in the steadily increasing

number of horses, mules, and asses, their number having doubled since 1870. In the last decade the number of horses increased 25.9 per cent, and the number of mules and asses, 43.8 per cent.

The number of sheep increased steadily between 1870 and 1890, but in the last ten years decreased 40.7 per cent. Swine show a steady increase in number in the last thirty years, but for the decade from 1890 to 1900, the rate of gain was only 0.1 per cent.

ANIMAL PRODUCTS.

Table 16 is a summarized exhibit of the animal products of agriculture.

TABLE 16.—QUANTITIES AND VALUES OF SPECIFIED ANIMAL PRODUCTS, AND VALUES OF POULTRY RAISED, ANIMALS SOLD, AND ANIMALS SLAUGHTERED ON FARMS, IN 1899.

PRODUCTS.	Unit of measure.	Quantity.	Value.
Wool.....	Pounds.....	741,274	\$150,948
Mohair and goat hair.....	Pounds.....	469	140
Milk.....	Gallons.....	195,882,103	6,610,967
Butter.....	Pounds.....	19,121,961	
Cheese.....	Pounds.....	36,374	1,825,978
Eggs.....	Dozens.....	18,778,900	
Poultry.....			2,263,346
Honey.....	Pounds.....	1,930,410	197,232
Wax.....	Pounds.....	162,020	
Animals sold.....			1,958,640
Animals slaughtered.....			5,189,413
Total.....			18,196,689

¹Includes all milk produced.

The value of animal products in 1899 was \$18,196,689, or 22.4 per cent of the gross farm income. Of the above amount, 39.3 per cent represents the aggregate value of animals sold alive and of animals slaughtered on farms; 36.3 per cent, that of dairy products; 22.5 per cent, that of poultry and eggs; and 1.9 per cent, that of wool, mohair, honey, and wax.

The production of milk in 1899 was 40,373,416 gallons greater than in 1889, an increase of 72.7 per cent. The quantity of cheese made on farms, though commercially of little importance, increased nearly fivefold, while that of butter increased 31.4 per cent.

Of the \$6,610,967 given in Table 16 as the value of all dairy products in 1899, \$5,690,113, or 86.1 per cent, represents the value of such products consumed on farms, and \$920,854, or 13.9 per cent, the amount realized from sales. Of the latter sum, \$389,605 was derived from the sale of 3,087,433 gallons of milk; \$515,466, from 2,780,075 pounds of butter; \$14,802, from 27,133 gallons of cream; and \$981, from 13,481 pounds of cheese.

POULTRY AND EGGS.

Of the 223,220 farmers in the state, 191,383, or 85.7 per cent, reported poultry in 1900.

The total value of the poultry products of 1899 was \$4,089,324, of which 55.3 per cent represents the value of poultry raised, and 44.7 per cent, the value of eggs. The average returns per farm were \$11.83 from poultry and \$9.54 from eggs. In 1879 the production of eggs was 6,761,646 dozens; in 1889, 10,823,526 dozens; and in

1899, 18,778,960 dozens, showing an increase for the last decade of 73.5 per cent.

WOOL.

Although 40.7 per cent fewer sheep are reported in 1900 than in 1890, a decrease of but 3.2 per cent is shown in the production of wool. This is believed to be the result of an improvement in the grade of sheep kept, as the average weight of fleeces has advanced from 2.2 pounds in 1890 to 2.5 pounds in 1900.

HONEY AND WAX.

In 1900, 32,100 farmers reported 205,369 swarms of bees. The quantity of honey reported for 1899 was 5.8 per cent greater than that reported for 1889; and the quantity of wax was 135.2 per cent greater.

HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS.

Table 17 presents, for the leading groups of farms, the number of farms reporting horses, mules, and dairy cows, and the average number of these animals per farm. In computing the averages presented, only those farms which report the kind of live stock under consideration are included.

TABLE 17.—HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS, JUNE 1, 1900.

CLASSES.	HORSES.		MULES.		DAIRY COWS.	
	Farms reporting.	Average per farm.	Farms reporting.	Average per farm.	Farms reporting.	Average per farm.
Total	68,680	1.5	120,215	1.6	154,427	1.8
White farmers	69,213	1.6	70,168	1.7	104,744	2.0
Colored farmers	29,467	1.3	50,047	1.4	49,683	1.5
Owners ¹	54,676	1.7	53,161	1.8	79,928	2.1
Managers	527	3.4	551	5.9	651	4.8
Cash tenants	26,588	1.4	40,077	1.5	42,953	1.6
Share tenants	16,889	1.3	26,426	1.3	30,895	1.4
Under 20 acres	8,571	1.2	6,242	1.1	13,321	1.5
20 to 99 acres	52,276	1.3	70,761	1.3	85,409	1.6
100 to 174 acres	20,479	1.6	28,822	1.6	31,857	1.8
175 to 259 acres	7,665	1.9	9,099	2.1	11,421	2.3
260 acres and over	9,689	2.5	10,291	3.2	12,419	3.4
Hay and grain	4,498	1.7	4,422	1.9	5,854	1.7
Vegetable	1,329	1.5	668	1.5	1,199	2.1
Fruit	17	1.8	109	1.6	176	1.8
Live stock	9,716	1.8	3,099	2.3	9,400	2.3
Dairy	4,162	1.7	2,459	1.6	7,504	3.1
Cotton	54,536	1.4	85,298	1.5	89,606	1.6
Sugar	63	1.7	52	1.5	76	2.1
Miscellaneous ²	24,859	1.7	24,108	1.7	40,612	1.9

¹ Including "part owners" and "owners and tenants."

² Including florists' establishments, nurseries, tobacco farms, and rice farms.

In Alabama, as in all states where cotton is a staple crop and much of the farm labor is performed by negroes, large numbers of mules are used as work animals. For most classes of farms the average number of mules exceeds that of horses. If the numbers of horses and mules be combined, the average number of work animals per farm compares favorably with the corresponding figures for the intensively cultivated farms of New England.

CROPS.

The following table gives the statistics of the principal crops of 1899.

TABLE 18.—ACREAGES, QUANTITIES, AND VALUES OF THE PRINCIPAL FARM CROPS IN 1899.

CROPS.	Acres.	Unit of measure.	Quantity.	Value.
Corn	2,743,360	Bushels	85,058,047	\$17,082,751
Wheat	123,897	Bushels	628,775	502,240
Oats	216,873	Bushels	1,882,060	797,684
Barley	273	Bushels	2,400	1,582
Rye	1,708	Bushels	11,123	9,075
Buckwheat	10	Bushels	76	50
Flaxseed	1	Bushels	4	4
Grass seed	—	Bushels	873	1,016
Clover seed	—	Bushels	3	11
Kafir corn	4	Bushels	90	45
Hay and forage	85,453	Tons	172,908	1,707,638
Tobacco	1,141	Pounds	311,950	55,581
Rice	2,329	Pounds	926,946	30,891
Cotton	3,202,135	Bales	1,106,840	37,004,598
Cottonseed	—	Tons	534,413	5,065,079
Dry beans	1,801	Bushels	17,865	15,507
Dry pease	91,126	Bushels	665,388	536,793
Potatoes	9,505	Bushels	587,711	324,628
Sweet potatoes	50,865	Bushels	3,457,386	1,687,039
Onions	259	Bushels	28,914	28,848
Miscellaneous vegetables	55,563	—	—	2,618,718
Sugar cane	32,871	Tons	12,751	10,513
Sugar cane kept for seed	—	Tons	181,484	454,664
Sugar	—	Pounds	13,765	612
Molasses	—	Gallons	2,672,438	1,003,211
Sorghum cane	14,881	Tons	13,145	8,959
Sorghum sirup	—	Gallons	1,168,868	302,397
Small fruits	903	—	—	54,097
Grapes	22,559	Centals	42,576	841,861
Orchard fruits	275,016	—	—	4476,574
Tropical fruits	—	—	—	6,013
Nuts	—	—	—	6,315
Forest products	—	—	—	2,494,452
Flowers and plants	53	—	—	43,950
Seeds	8	—	—	1,510
Nursery products	1,038	—	—	131,132
Hops	1	Pounds	440	32
Broom corn	152	Pounds	56,290	2,452
Peanuts	79,011	Bushels	1,021,708	583,223
Miscellaneous	—	—	—	975
Total	6,792,746	—	—	73,190,720

¹ Sold as cane.

² Estimated from number of vines or trees.

³ Including value of raisins, wine, etc.

⁴ Including value of cider and vinegar.

Of the total value of crops in 1899, cotton contributed 57.5 per cent; corn, 23.3 per cent; other cereals, 1.8 per cent; vegetables, including potatoes, sweet potatoes, and onions, 6.4 per cent; forest products, 3.4 per cent; hay and forage, 2.3 per cent; sugar cane and sorghum cane and their products, 2.5 per cent; fruits and nuts, 0.9 per cent; and all other products, 1.9 per cent.

The acreage devoted to corn was 40.4 per cent of the total area in crops, but yielded only 23.3 per cent of the total receipts. Cotton occupied 47.1 per cent of the total acreage and yielded 57.5 per cent of the total receipts.

The average values per acre of the various crops were as follows: Flowers and plants, \$829.25; nursery products, \$126.33; onions, \$111.38; potatoes, \$34.15; sweet potatoes, \$33.17; tobacco, \$48.71; cotton, including seed, \$13.14; rice, \$13.26; peanuts, \$7.38; orchard fruits, \$6.35; cereals, \$5.96; and dry pease and dry beans, \$5.94. The crops yielding the highest returns were grown upon very highly improved land. Their production required a large amount of labor and large expenditures for fertilizers.

CEREALS.

Table 19 is an exhibit of the changes in cereal production since 1849.

TABLE 19.—ACREAGE AND PRODUCTION OF CEREALS:
1849 TO 1899.

PART 1.—ACREAGE.

YEAR. ¹	Barley.	Buckwheat.	Corn.	Oats.	Rye.	Wheat.
1899.....	273	10	2,743,360	216,873	1,708	123,897
1889.....	200	352	2,127,302	344,788	2,190	39,641
1879.....	511	42	2,055,929	324,628	5,764	264,971

¹No statistics of acreage were secured prior to 1879.

PART 2.—BUSHELS PRODUCED.

1899.....	2,400	76	35,053,047	1,882,060	11,123	628,775
1889.....	1,996	4,022	30,072,161	3,230,455	14,618	208,591
1879.....	5,281	363	25,451,278	3,039,639	28,402	1,529,657
1869.....	5,174	144	16,977,948	770,866	18,977	1,055,068
1859.....	15,135	1,347	33,226,282	682,179	72,457	1,218,444
1849.....	3,958	348	28,754,048	2,965,696	17,261	294,044

In 1879 the total area devoted to cereals was 2,651,845 acres; in 1889, 2,514,473 acres; and in 1899, 3,086,121 acres. The gain in the last ten years amounts to 22.7 per cent. The value of all cereals grown represents 20.1 per cent of the total value of farm products.

Corn is by far the most important cereal. In 1899 it was reported by 205,273 farmers, or 92.0 per cent of the total number in the state, and occupied 88.9 per cent of the total area under cereals. The acreage increased 29.0 per cent in the last decade.

Barley and buckwheat are of comparatively little importance. The acreage devoted to oats in 1899 was 37.1 per cent less than that reported ten years before. The decrease shown is believed to be due principally to an unfavorable season in 1899, although the introduction of new forage crops has doubtless led some farmers to abandon the growing of oats for hay. Rye has decreased steadily in both acreage and production since 1879.

The acreage and production of wheat have varied widely from decade to decade, but in 1899 both were more than three times as great as in 1889. Seasonal variations doubtless account in large degree for the great fluctuations shown. The greatest acreage in wheat is in the north-eastern counties, Madison, Jackson, Randolph, and Cherokee, each of which reported over 6,000 acres.

The acreage given for cereals does not include 14,723 acres of grain cut green for hay, nor 15,708 acres devoted to corn, nonsaccharine sorghum, and similar crops, grown for forage or ensilage.

RICE.

The area devoted to rice in 1899 was 2,349 acres, an increase of 187.5 per cent over the acreage reported ten years before. While about two-thirds of the counties of the state report the cultivation of rice, over one-half of the product of 1899 was reported by five counties in the extreme southern part of the state: Escambia, Henry, Baldwin, Geneva, and Monroe, ranking in the order named.

COTTON.

The following table is an exhibit of the changes in cotton production since 1849.

TABLE 20.—ACREAGE AND PRODUCTION OF COTTON:
1849 TO 1899.

YEAR.	ACREAGE. ¹		PRODUCTION.		
	Total.	Per cent of increase.	Commercial bales.	Pounds.	Per cent of increase.
1899.....	3,202,135	16.0	1,106,840	546,848,659	25.3
1889.....	2,761,165	18.5	915,210	436,555,170	37.7
1879.....	2,330,086		699,654	316,913,262	70.0
1869.....			420,482	186,395,188	57.7
1859.....			989,955	440,529,975	95.1
1849.....			561,429	225,771,600	

¹No statistics of acreage were secured prior to 1879.

²Decrease.

In 1899, 192,388 farmers, or 86.2 per cent of the total number, reported the production of cotton. It was grown in every county in the state, but in the extreme north-western and southwestern counties the acreages reported were relatively small. For the state the average acreage devoted to cotton was 62.1 acres per square mile of land surface, and 16.6 acres per farm reporting. The five leading cotton-growing counties, Dallas, Montgomery, Lowndes, Marengo, and Bullock, each had over one hundred thousand acres and reported an average of approximately one hundred and fifty-three acres per square mile, or over one-half of their total improved farm land. In 1879, 36.5 per cent of the improved farm land of the state was devoted to cotton; in 1889, 35.9 per cent; and in 1899, 37.0 per cent. The acreage increased 16.0 per cent in the last decade.

The crop of 1899 was the largest ever reported in a census year, being 25.3 per cent greater than the crop grown ten years before. For the state the average yield per square mile of land surface was 21.5 commercial bales, while in Lowndes, Chambers, Bullock, and Pike counties the average was over fifty bales.

SUGAR CANE AND SORGHUM CANE.

Table 21 presents a comparative exhibit of the acreage of sugar cane, and the production of sugar and sirup, 1849 to 1899.

TABLE 21.—ACREAGE OF SUGAR CANE, AND PRODUCTION OF SUGAR AND SIRUP: 1849 TO 1899.

YEAR. ¹	Acreage in cane.	SUGAR.		SIRUP.	
		Production in pounds.	Average yield per acre in pounds.	Production in gallons.	Average yield per acre in gallons.
1899.....	32,871	13,765	0.42	2,672,438	81.30
1889.....	19,415	390,885	20.13	2,333,231	120.18
1879.....	6,627	112,800	17.02	795,199	119.99
1869.....		37,200		166,009	
1859.....		210,000		85,115	
1849.....		9,800,400			

¹No statistics of acreage were secured prior to 1879.

As West Indian or ribbon cane and sorghum cane are both grown in Alabama, considerable difficulty was experienced in distinguishing between the reports of the two kinds of sirup. This difficulty was greatly enhanced by the effects of the severe frosts of February, 1899, which extended over the entire sugar-cane belt and destroyed

nearly sixty per cent of the crop. As a result of this frost, the yield of sirup per acre of sugar cane was reduced to approximately that of sorghum cane, while normally it is about double.

Most of the ribbon cane of Alabama is grown south of the thirty-second degree of latitude, and below this line very little sorghum cane is grown for sirup, although considerable quantities are raised for forage. Between the thirty-second and thirty-fourth degrees both ribbon cane and sorghum cane are grown for sirup, and it is in this district that the greatest difficulty has arisen in distinguishing between the products. North of the thirty-fourth parallel practically no ribbon cane is cultivated, as frost generally prevents the crop from maturing.

The manufacture of sirup in Alabama is carried on exclusively by the "open-kettle" process, which produces a very fine quality of sirup, but a low grade of sugar. As a result, the amount of sugar manufactured is comparatively insignificant, while the sirup has come to be of great importance as an article of commerce, the area devoted to ribbon cane in 1899 exceeding that of 1889 by nearly fourteen thousand acres.

The acreage of sorghum cane grown in 1899 was considerably less than that reported ten years before. The average yield per acre, however, was 78.8 gallons, while in 1889 it was but 58.6 gallons. The total value of the sorghum sirup made in 1899 was \$362,397.

HAY AND FORAGE.

In 1900, 68,661 farmers, or 30.8 per cent of the total number, reported hay or forage crops. Exclusive of corn stalks and corn strippings, the average yield per acre was 1.2 tons. The acreage in hay and forage in 1899 was more than twice as great as that of ten years before.

In 1899 the acreages and yields of the various kinds of hay and forage were as follows: Wild, salt, and prairie grasses, 3,914 acres and 4,042 tons; millet and Hungarian grasses, 8,364 acres and 10,442 tons; alfalfa or lucern, 272 acres and 343 tons; clover, 1,592 acres and 1,724 tons; other tame and cultivated grasses, 40,880 acres and 46,383 tons; grains cut green for hay, 14,723 acres and 17,104 tons; forage crops, 15,708 acres and 20,023 tons; corn stalks and corn strippings, 469,738 acres and 72,847 tons.

In Table 18 the production of corn stalks and corn strippings is included, but not the acreage, as the forage secured was only an incidental product of the land on which it was grown.

TOBACCO.

The present census shows that in 1899 tobacco was grown by 5,287 farmers, who reported 1,141 acres and a yield of 311,950 pounds; a gain in ten years of 68.0 per cent in acreage, and 92.1 per cent in production. The greatest production ever reported was in 1879, when 2,197 acres yielded 452,426 pounds. The average yield per acre in 1889 was 239 pounds, while in 1899 it was 273 pounds. The total value of the crop in the latter year was \$55,581, an average of \$10.51 for each farm reporting, and of \$48.71 per acre.

ORCHARD FRUITS.

The changes in orchard fruits since 1890 are shown in the following table.

TABLE 22.—ORCHARD TREES AND FRUITS: 1890 AND 1900.

FRUITS.	NUMBER OF TREES.		BUSHELS OF FRUIT.	
	1900.	1890.	1899.	1889.
Apples.....	2,015,711	780,657	719,175	1,288,734
Apricots.....	3,541	1,326	115	611
Cherries.....	44,849	7,204	1,159	1,862
Peaches.....	2,690,151	1,280,842	184,543	2,431,203
Pears.....	206,619	30,993	22,656	22,902
Plums and prunes.....	400,449	144,622	11,876	40,451

Of the 5,387,813 fruit trees reported in 1900, 49.9 per cent were peach trees; 37.4 per cent, apple trees; 7.4 per cent, plum and prune trees; 3.9 per cent, pear trees; and 1.4 per cent, apricot, cherry, and unclassified fruit trees.

Apple trees were reported in all parts of the state, but in the greatest numbers in the northeastern counties. The number reported in 1900 was over two and one-half times as great as in 1890. Peach trees, which more than doubled in number in the last decade, are also generally distributed over the state, the southwestern county of Washington reporting the largest number. A comparison by counties shows a rapid development of fruit growing in the southern part of the state in the last decade.

The quantity of fruit produced in any given year is determined largely by the nature of the season. Comparisons between the crop of 1889 and that of 1899 have little significance, because in the latter year there was an almost complete failure of all fruits.

In addition to the number of trees, given in Table 22, unclassified fruit trees to the number of 26,493 were reported, with a yield of 8,212 bushels of fruit. The value of orchard products, given in Table 18, includes the value of 1,027 barrels of cider, 765 barrels of vinegar, and 61,170 pounds of dried and evaporated fruits.

SMALL FRUITS.

Of the 903 acres devoted to small fruits, 472 acres, or more than half, were reported by Barbour, Butler, Conecuh, Cullman, and Mobile counties, all of which, except Cullman, are situated in the southern part of the state. Counties of the cotton belt generally report small acreages. Strawberries occupied 593 acres, or 65.7 per cent of the total area, and yielded 804,480 quarts. The acreage and production of other berries were as follows: Blackberries and dewberries, 216 acres and 98,500 quarts; raspberries and Logan berries, 24 acres and 14,390 quarts; currants, 6 acres and 2,060 quarts; gooseberries, 4 acres and 1,890 quarts; and other small fruits, 60 acres and 32,250 quarts. These small fruits were grown by 2,313 farmers who derived therefrom an average of \$23.39 per farm.

The tropical fruits reported in Table 18 consisted almost entirely of figs. Grapes were grown in 1899 by 18,601 farmers, who obtained 42,576 centals of fruit from 1,527,433 vines. The value of the grapes, including the value of 32,666 gallons of wine made on farms, was \$84,861.

VEGETABLES.

The total value of vegetables grown in 1899, including potatoes, sweet potatoes, and onions, was \$4,654,233, of which 36.2 per cent represents the value of sweet potatoes; 7.0 per cent, that of potatoes; 0.6 per cent, that of onions; and 56.2 per cent, that of miscellaneous vegetables.

Sweet potatoes were grown in 1899 by 87,134 farmers, or 39.0 per cent of the total number in the state. The area devoted to this crop in 1889 was 56,650 acres, and in 1899, 50,865 acres, a loss of 10.2 per cent. They are grown most extensively in the counties of the cotton belt.

In the growing of miscellaneous vegetables, 55,563 acres were used. The products of 45,543 acres of this area were not reported in detail. Of the remaining 10,020 acres, 7,142 acres were devoted to watermelons; 1,258 acres, to cabbages; 631 acres, to muskmelons; 271 acres, to tomatoes; 194 acres, to sweet corn; 185 acres, to beans; 160 acres, to cucumbers; and 179 acres, to other vegetables.

PEANUTS.

The growing of peanuts is rapidly becoming an important branch of agriculture in Alabama. In 1899 the area devoted to their production by the 23,689 farmers reporting this crop was 79,011 acres, or more than three times the acreage grown in 1889. Over one-half of the total acreage was reported by the extreme southeastern counties of Coffee, Dale, Geneva, Henry, and Pike. The total value of the crop was \$583,223.

FLORICULTURE.

In 1900, 45 farms reported florists' products valued at \$43,950. Omitting from consideration the 22 farms on which flowers were raised incidentally only, there were 23 commercial florists' establishments in the state. They reported products valued at \$43,133, comprising flowers and foliage plants valued at \$39,328, and other products worth \$3,805. The land and buildings of these florists were valued at \$138,527, implements at \$1,430, and live stock at \$920. The fertilizers used cost \$1,370, and the total expenditure for labor amounted to \$6,770. In growing the products reported, 125,979 square feet of land under glass were used.

NURSERIES.

Nursery products valued at \$131,132 were reported by

56 farmers. The operators of the 22 commercial nursery establishments in the state reported products valued at \$132,170, comprising nursery stock valued at \$125,717 and other products worth \$6,453. The capital invested in land and buildings was \$179,800; in implements and machinery, \$6,250; and in live stock, \$3,837. The expenditure for fertilizers was \$2,186, and that for labor, \$30,373. These establishments used 5,333 acres of land and their average income per acre was \$24.78.

LABOR AND FERTILIZERS.

The total expenditure for labor on farms in 1899, including the value of board furnished, was \$4,314,460, an average of \$19 per farm. The average was highest on the most intensively cultivated farms, being \$1,381 for nurseries, \$294 for florists' establishments, \$65 for tobacco farms, \$38 for rice farms, \$31 for fruit farms, \$28 for vegetable farms, \$22 for cotton farms, \$16 for hay and grain farms, \$15 for live-stock farms, \$14 for dairy farms, and \$10 for sugar farms. "Managers" expended, on an average, \$218; "owners," \$27; "cash tenants," \$16; and "share tenants," \$8.

Fertilizers purchased in 1899 cost \$2,599,290, an average of \$12 per farm, but an increase since 1890 of only 7.3 per cent. The average expenditure was greatest for nurseries, amounting to \$99. For florists' establishments it was \$60; for vegetable farms, \$32; for tobacco farms, \$29; for rice and sugar farms, \$14; for cotton farms, \$12; for fruit farms, \$8; for live-stock farms, \$7; and for hay and grain and dairy farms, \$6.

IRRIGATION.

Irrigation does not, as yet, occupy a very important place in the agricultural development of Alabama. But with the increase in acreage devoted to the growing of early vegetables for northern markets, its practice will doubtless become more general, as it affords an insurance against the short but destructive periods of drought which frequently occur in the spring. In 1899, 89 acres were irrigated. The products, principally vegetables, were valued at \$10,758, or \$121 per acre. The cost of constructing the wells, pumps, tiling, and ditches now in use is estimated to have been \$5,200.

CENSUS BULLETIN.

No. 156.

WASHINGTON, D. C.

April 14, 1902.

DOMESTIC ANIMALS IN THE UNITED STATES.

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

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of domestic animals in the United States, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

By this section no provision was made for the collection of statistics pertaining to the number and value of live stock not on farms. In response to urgent requests from the various live-stock associations of the country, an act, amendatory to the law relating to the Twelfth Census, was approved February 1, 1900, directing the census authorities to collect statistics relating to live stock upon the unfenced public domain, or ranges, of the West and South, and also of domestic animals not located on farms or ranges. In the second class are included all domestic animals in cities, towns, and villages; those in stock yards; those employed in manufacturing, lumbering, mining, and kindred enterprises; and those used for pleasure or profit by individuals other than farm proprietors.

The statistics of animals of the second class were published in Bulletin No. 17, issued November 23, 1900.

The present bulletin gives the statistics of domestic animals on farms, as authorized by the original act, and also the statistics of domestic animals on the unfenced public domain, or ranges, as provided for in the amendment. It also presents, in a final table, the aggregate number of domestic animals in the United States, comprising all such animals on farms and ranges, and in barns and inclosures elsewhere.

No such complete enumeration of live stock has ever before been authorized by Congress or undertaken by any census. Not only were previous census reports especially deficient with respect to the number of do-

mestic animals on ranges, and in barns and inclosures elsewhere, but the statistics of live stock and of live-stock values were too general to be of practical value to either breeder or shipper. It was largely at the request of the live-stock associations of the country that steps were taken to remedy these defects and to secure statistics of greater practical value to all concerned. With this end in view, a new classification of domestic animals was adopted for the census of 1900, and provision made for the collection of definite statistics of the value of the animals of each class. Under the new classification, neat cattle are grouped by age, in accordance with their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep by age and sex.

Animals on farms were reported by the enumerators on the regular farm schedule. Those on ranges were reported on specially prepared schedules, which called for additional information. In addition to the regular enumeration, a corps of special agents, under the direction of Mr. Charles F. Martin, made a careful canvass of the range states of the West and South to secure detailed reports and additional data regarding local conditions, to be used as a check against possible omissions and inaccuracies on the part of the enumerators. As a result of these precautions, it is believed that the tables herewith presented furnish a more complete and trustworthy exhibit of the number and value of the domestic animals of the United States than any heretofore published.

The values given for the several classes of animals are the farm values on June 1, 1900. In addition to these values, reports were secured of the amounts received in 1899 from the sale of live animals, and also of the value of animals sold and slaughtered on farms and ranges during that year.

Very respectfully,

L. G. Powers.

Chief Statistician for Agriculture.

DOMESTIC ANIMALS IN THE UNITED STATES.

SCHEDULES AND ENUMERATION.

In the collection of the statistics of live stock, tabulated in the census of agriculture for 1900, three schedules were used. The first of these, known as the general farm schedule (Form 7-281), was used by the enumerators in collecting data from the operators of farms, plantations, and ranges in all parts of the country. The second schedule (Form 7-581) was used by the special agents in recording the statistics of the larger ranches of the great West and Southwest, especially those making use of the range, or public domain, in sparsely settled sections of the country, where they might have been overlooked by the enumerators, or from which imperfect reports were likely to have been obtained. The third schedule (Form 7-340) was used by enumerators in collecting reports of domestic animals not on farms or ranges, especially those found in cities and villages. The first two of these schedules were what are known as individual schedules, one being required for each farm or ranch concerning which information was secured. The third schedule was so arranged that reports of from fifty to one hundred barns and inclosures could be made upon it.

In preparing these schedules, and especially the inquiries thereon relating to domestic animals, it was sought to secure enumeration of all animals in the country and also to avoid duplication. It is believed that these objects have been accomplished in a greater degree than at any preceding census. The use of the individual schedule for farms assisted materially in eliminating duplications made by enumerators and special agents. The new classification of animals adopted aided greatly in securing a complete enumeration, and in removing the uncertainties that have existed in the past concerning census live-stock statistics. The two most important items relating to this subject that were left in doubt in preceding censuses were these:

1. Were the values of poultry and bees included with those of domestic animals in the statements of the value of live stock on farms?

2. Were all or any of the young animals born in the spring of the census year included in the general report made on June 1 of that year, of neat cattle, horses, mules, asses, and sheep?

To remove all uncertainties upon the first of these points, statements were secured for the value of the animals of each class, and these were tabulated separately in the Census Office. The total for each class of domestic animals, as well as the grand total for all, exclusive of the values of poultry and bees, are here

presented. The age and sex classification, it is believed, fully removes all uncertainties of the second kind. With these uncertainties removed, the question arises as to the comparability of the statistics of domestic animals and other live stock on farms, as reported by the Twelfth Census, with similar statistics for preceding census years. That the public may have all data for answering this question which have been available to those in charge of the census, there is presented an exhibit of those parts of the schedules of 1900 and 1890 which call for the number of neat cattle, mules, asses, and sheep. The general agricultural schedules and the special range schedules in 1900 made use of the same inquiries, which were printed in the following form, the number being that of the inquiry on the schedule:

38. Farm animals:

Number and value, June 1, 1900, of all the animals on the farm, whether belonging to the occupant of the farm or to others.

ANIMALS.	Ages in years.	Number.	Value.
Calves	Under 1 .....	.....	\$.....
Steers	1 and under 2 .....	.....	.....
Steers	2 and under 3 .....	.....	.....
Steers	3 and over .....	.....	.....
Bulls	1 and over .....	.....	.....
Heifers	1 and under 2 .....	.....	.....
Cows kept for milk	2 and over .....	.....	.....
Cows and heifers not kept for milk	2 and over .....	.....	.....
Colts	Under 1 .....	.....	.....
Horses	1 and under 2 .....	.....	.....
Horses	2 and over .....	.....	.....
Mule colts	Under 1 .....	.....	.....
Mules	1 and under 2 .....	.....	.....
Mules	2 and over .....	.....	.....
Asses and burros	All ages .....	.....	.....
Lambs	Under 1 .....	.....	.....
Sheep (ewes)	1 and over .....	.....	.....
Sheep (rams and wethers)	1 and over .....	.....	.....
Swine	All ages .....	.....	.....
Goats	All ages .....	.....	.....
DO NOT WRITE ON THIS LINE			

39. Pure-blooded animals:

The number, June 1, 1900, of all pure-blooded animals, recorded or eligible to record, on the farm. All animals reported under this head should also be reported under 38.

ANIMALS.	Number.	ANIMALS.	Number.
Horses	Sheep .....	.....
Cattle	Swine .....	.....
Angora goats		

The schedules of the Twelfth Census, as shown above, called for reports concerning blooded stock. The returns made were found, upon investigation, to be so imperfect that they have not been tabulated.

The information contained in the Eleventh Census relating to horses, mules, asses, sheep, and neat cattle, was tabulated from replies to inquiries printed in the following form:

HORSES, MULES, AND ASSES.						SHEEP.			
On hand June 1, 1890.			Foaled in 1890.			On hand June 1, 1890.			Lambs dropped in 1890.
Horses.	Mules.	Asses.	Horses.	Mules.	Asses.	Merino "fine" wool (one-half to full-blood).	English breeds, long or medium wool (one-half to full-blood).	All other.	

NEAT CATTLE.						
On hand June 1, 1890.			Quality.			Calves dropped in 1890.
Working oxen.	Milch cows.	Other cattle.	Pure-bred (recorded).	Grade one-half blood or higher.	Common or native (including grades less than half-blood).	

The enumerators were given no instructions with reference to domestic animals, except those embodied in the foregoing forms. It is to be noted that for each of the 5 general classes of animals there was an inquiry for the number of young animals born in 1889, but none with reference to those born in 1890. The question at once arises, Did the enumerators include in their reports for June 1, 1890, any of the colts, lambs, or calves born that year? In the case of sheep the census authorities had a decisive answer in the statistics of wool. The number of fleeces reported corresponded very closely with the total number of sheep reported under the 3 heads given above. The authorities in charge of the Eleventh Census accepted this fact as conclusive evidence and published the number of "sheep," as reported by the enumerators, as the number "exclusive of spring lambs." But judging from the schedules and their instructions, the enumerators had as much reason for omitting colts and calves from their reports of horses, mules, asses, and neat cattle as for omitting lambs from their reports of sheep. Hence the probability that all young animals born in the spring of 1890 were omitted by the enumerators from their reports of these 4 classes of animals in that year. Further, as the figures of that census were made the basis for all subsequent estimates by the Agricultural Department of the number of domestic animals on farms, it is probable that those estimates must be considered as being exclusive of colts, calves, and lambs.

FARMS AND INCLOSURES REPORTING DOMESTIC ANIMALS.

The operators of 5,499,988 of the 5,739,657 farms and ranges for which schedules were received, reported domestic animals. In addition, reports were received of 1,899,118 barns and inclosures, not on farms or ranges, making a total of 7,399,106 separate establishments in connection with which domestic animals were

kept. Of these establishments 5,532,737, or 74.8 per cent, reported neat cattle; 5,905,679, or 79.8 per cent, horses; 1,534,540, or 20.7 per cent, mules; 40,804, or 0.6 per cent, asses and burros; 771,768, or 10.4 per cent, sheep; 4,798,850, or 64.9 per cent, swine; and 99,701, or 1.3 per cent, goats.

Of the total number of farms and ranges reported by the Twelfth Census, 95.8 per cent reported one or more of the general classes of domestic animals, as follows: 4,730,920, or 82.4 per cent, reported neat cattle; 4,532,018, or 79.0 per cent, horses; 1,480,913, or 25.8 per cent, mules; 33,875, or 0.6 per cent, asses and burros; 763,543, or 13.3 per cent, sheep; 4,335,989, or 75.5 per cent, swine; and 77,534, or 1.4 per cent, goats.

NEAT CATTLE.

Neat cattle were reported by the proprietors of 4,730,920 farms and ranges, and 801,817 barns and inclosures not on farms or ranges. The total number reported on hand June 1, 1900, was 69,438,758, of which 67,822,336, or 97.7 per cent, were on farms and ranges, and 1,616,422, or but 2.3 per cent, were in barns and inclosures elsewhere.

Of the neat cattle on farms and ranges, 15,333,099 were calves less than 1 year old; 6,968,188, steers 1 and under 2 years; 5,203,325, steers 2 and under 3 years; 3,086,029, steers over 3 years old; 1,315,963, bulls 1 year old and over; 7,183,916, heifers 1 and under 2 years; 17,139,674, dairy cows 2 years and over; and 11,592,142, other cows.

The Eleventh Census made use of 2 different classifications of neat cattle. One was employed in enumerating the cattle on farms in all states, and on the ranges in Idaho, Oregon, and Washington. The numbers reported under this classification were as follows: Working oxen, 1,117,494; milch cows, 16,511,950; other cattle, 33,734,128; a total of 51,363,572. In addi-

tion, the Eleventh Census reported 14,538,327 calves dropped in 1889.

The second classification was used in the enumeration of animals on ranges in states other than Idaho, Oregon, and Washington. The numbers reported under this classification were as follows: 4-year-olds, 535,869; 3-year-olds, 784,797; 2-year-olds, 999,363; yearlings, 1,209,731; dry cows, 795,572; and "cows and calves," 1,959,888. The total number of neat cattle reported on farms and ranges under the 2 classifications was 57,648,792.

Taking into account what has been stated previously concerning the enumeration of calves in 1890 and in preceding census years, the relative movement in the number of neat cattle on farms and ranges in the last decade may be described by the following three hypothetical propositions:

1. If calves dropped in the spring of 1890 were included by the enumerators in the totals of "other cattle," the number of all neat cattle increased in the succeeding decade from 57,648,792 to 67,822,336, or 17.6 per cent. In the North Atlantic states the number increased from 5,461,724 to 6,339,835, or 16.1 per cent; in the South Atlantic states, from 3,890,107 to 4,431,750, or 13.9 per cent; in the North Central states, from 24,601,433 to 30,621,413, or 24.5 per cent; and in the South Central states, from 14,500,146 to 17,870,663, or 23.2 per cent. In the Western states there was a decrease from 9,195,382 to 8,455,749, a loss of 8.0 per cent.

2. If no appreciable number of neat cattle under 1 year of age were included in 1890 under the head of "other cattle," then the total number of neat cattle decreased in the succeeding decade from 57,648,792 to 52,489,237, or 8.9 per cent. That number decreased in each of the 5 geographical divisions as follows: In the North Atlantic states, from 5,461,724 to 5,081,616, or 7.0 per cent; in the South Atlantic states, from 3,890,107 to 3,490,301, or 10.3 per cent; in the North Central states, from 24,601,433 to 23,309,460, or 5.3 per cent; in the South Central states, from 14,500,146 to 13,823,384, or 4.7 per cent; and in the Western states, from 9,195,382 to 6,699,067, or 27.1 per cent.

3. If, as is most probable, the enumerators of the Eleventh Census reported all calves dropped in 1889 as "other cattle," and thus included many less than 1 year old, but did not include calves dropped in the spring of 1890, there took place in the succeeding decade a slight decrease in the number of neat cattle. The percentage of decrease in any geographical division could not have been as great as the corresponding percentage shown in the last paragraph. For the nation, it must have been less than 9.0 per cent and probably was not more than 7.0 per cent.

This decrease in the total number of neat cattle has not been accompanied by a decrease in the number of dairy cows, and probably not in that of other cows.

The dairy cows of the United States June 1, 1900, numbered 18,112,707. Of this number 17,139,674, or 94.6 per cent, were on farms and ranges, and 973,033, or 5.4 per cent, were in barns and inclosures not on farms. The number on farms and ranges in 1900 exceeded the number of milch cows reported in 1890 by 627,724, or 3.8 per cent. In the North Atlantic states the percentage of excess was 4.3; in the South Atlantic states, 1.0; in the North Central states, 3.0; in the South Central states, 2.4; and in the Western states, 20.2. In all of these geographical divisions in 1890 some cows not kept for milk were reported as milch cows, and it is very probable that in 1900 some dairy cows, dry at the time of enumeration, were reported as "cows not kept for milk." For these reasons it is believed that the actual increase since 1890 in the number of dairy cows is greater than indicated by the foregoing percentages. It is probably not less than 5 or 6 per cent.

There are many facts shown in the 2 censuses indicating that the actual increase in the number of other cows has been as great as, if not greater than, the increase in the number of cows kept for milk. Among these facts attention is called to the following: Of 6,285,220 cattle reported in 1890 on ranges in the South Central and Western states, the percentage of cows was 43.8. This percentage is based upon the assumption that all the animals reported as "cows and calves," were cows with calves. If it be assumed that one-half the number were calves, the percentage of cows was only 28.2. In the Western states in 1900 the cows constituted 54.7 per cent of the total number of cattle, exclusive of calves. The corresponding percentage in the South Central states was 54.3. The relative number of cows, other than dairy cows, therefore, has increased materially in ten years, the above percentages indicating a gain of over 20 per cent.

The statistics of calves for the 2 groups of states tend, in a general way, to confirm this conclusion. The number of calves dropped on farms in 1889, as reported by the Eleventh Census, was equal to 23.9 per cent of the total number of cattle on hand June 1, 1890. The number of calves on hand June 1, 1900, was equal to 28.3 per cent of the number of all other cattle on hand at that time. As not all the calves of 1900 had been dropped by June 1, it is doubtless true that the proportion of calves to the total number of cattle has increased in ten years to an even greater extent than indicated by the above percentages.

This increase in the proportion of cows and calves to the total of neat cattle is accompanied by an increase in the actual numbers of both classes of animals. The extent of the former increase can not be definitely calculated from any available data, but in all probability it exceeds that for dairy cows, which was given as 5.0 or 6.0 per cent.

The increases in the actual and relative numbers of

calves, dairy cows, and other cows during the ten-year period, which chronicles an actual decrease in the number of all neat cattle, have been accompanied by a decrease in the number of so-called beef cattle, steers 2 and 3 years old. This decrease has been caused mainly by the fact that in 1899 beef cattle were marketed at an earlier age, on an average, than in 1889. There has been a gradual reduction for many years in the average age at which beef cattle are marketed, and the tendency toward this change was widened in the spring of 1900 by the high prices prevailing. All cattle that could be placed on the market were sold, and thus the number of beef cattle over 2 years of age on the farms was reduced. For a portion of the country the extent of this change can be determined with but a small margin of error. The Eleventh Census in its statistics of range cattle reported 3,529,760 animals other than cows and calves. These animals were classified by age, the average being 2.18 years. The average age of neat cattle other than cows and calves reported in the Western and South Central states in 1900 was 1.63 years. In those states, therefore, the average age decreased in the decade 0.55 year, or about six months. It is probable that the corresponding decrease in the other states was smaller. The average age at which beef cattle are marketed is always somewhat greater than the average age of all neat cattle on hand on June 1, of any year, but the decrease for any period of time in the average age of animals on hand corresponds closely with the decrease in the average age of those marketed or slaughtered. Further, the number of beef cattle marketed or slaughtered in any year during such a period bears a nearly constant ratio to the number of cows and calves on hand. These, as already noted, have not declined in number during the decade, but have slightly increased. In all probability, however, the rate of increase has not equaled that of population. Whether the beef supply has increased proportionately with population is uncertain, since a definite statement upon that point requires more exact information concerning the number and average weight of animals converted into meat in 1889 and 1899 than is at present available.

Texas has more neat cattle within its borders than any other state. It reports 9,428,196. Of the other states reporting more than 3,000,000, Iowa has 5,367,630; Kansas, 4,491,078; Nebraska, 3,176,243; and Illinois, 3,104,010. Three states have over 1,000,000 dairy cows each: New York heads the list with 1,501,608; Iowa is second with 1,423,648; and Illinois third with 1,007,664. In the number of "other cows," kept mainly for breeding purposes, Texas leads the list with 3,369,880. This is twice the number reported for the other states and territories which, with Texas, constitute what is known as the South Central group, and more than is found in any other geographical division.

Of calves, Texas reports 2,148,261 and Iowa 1,290,279.

No other state reports a million. Texas, as is shown by the foregoing figures for cows and calves, ranks first in the breeding of neat cattle. These cattle are shipped in large numbers to other states for feeding or fattening, and consequently several states report more 2 and 3 year old steers than does Texas. Of steers 3 years old and over, Kansas reports 430,633; Indian Territory, 354,530; Texas, 341,286; and Oklahoma, 306,675. No other state reports 300,000. Many of the steers reported by Kansas, Indian Territory, and Oklahoma, were bred in Texas. Of steers 2 and under 3 years, Iowa has the greatest number, 603,745; Texas has 593,603; Missouri, 363,775; and Nebraska, 317,360. The farmers of Iowa, as a rule, sell the greater portion of their steers between the ages of 2 and 3 years. Oklahoma and Indian Territory farmers prepare large numbers of Texas steers 3 years old and over for market.

For the United States the average value of all neat cattle, June 1, 1900, was \$21.77. It was highest in the North Central states and lowest in the South Atlantic states, being \$24.59 in the former and \$14.97 in the latter. The average was highest in the District of Columbia, \$37.26, and lowest in Florida, \$8.44.

The average value of dairy cows for the country as a whole was \$29.68. The highest average value was in the Western states and the lowest in the South Atlantic, being \$35.42 in the former and \$21.97 in the latter. Of the individual states Montana reported the highest average, \$41.89, and Florida the lowest, \$13.31.

The Western states are evidently doing more than any other section of the country to improve the grade of cattle kept. This is shown not only by the high values of dairy cows, but more especially by the average price of bulls. This was \$42.12, as compared with \$15.26 for the South Atlantic states. The average value of steers 3 years old and over was highest in the North Atlantic states, while those 2 years and under 3 were worth most in the North Central states. The explanation of this apparent anomaly is found in the fact that in the North Atlantic states relatively more work oxen are kept than elsewhere, while in the North Central states are found the greatest relative number of well-bred steers being fattened for market before they reach 3 years. The large number of work oxen found in Alabama explains the wide variation in the average values of 2 and 3 year old steers in that state; the average value of 2-year-olds is only \$9.76, while 3-year-olds are worth \$20.56 per head. The same factor also explains a similar variation in average prices of these 2 classes of steers in both the North and South Atlantic divisions.

HORSES.

Horses were reported by the proprietors of 4,532,018 farms and ranges and of 1,373,661 barns and other inclosures not on farms or ranges. The number on farms and ranges comprised 1,315,208 colts under 1

year, 1,447,747 horses 1 and under 2 years, and 15,517,052 horses 2 years and over. The numbers not on farms or ranges were, for the three classes named, 33,090, 30,402, and 2,873,389, respectively. There was a total for the nation of 18,390,441 work horses and 2,826,447 too young for work, making a grand total of 21,216,888 horses, of which 86.2 per cent were on farms and ranges, and 13.8 per cent in barns and inclosures elsewhere.

In 1890 the census reported 1,813,413 colts foaled in 1889. In 1900 the colts 1 and under 2 years numbered 1,447,747, and those under 1 year, 1,315,208. Not all the colts of 1900 were foaled at the time of the enumeration June 1, but the number of yearling colts, with an allowance for those dying of disease or accident, probably approximates the number foaled in 1899. After making allowance for all such losses it is certain that fewer colts, actually and relatively, were foaled in 1899 and 1900 than ten years before. The decrease was not less than 10 per cent, and may have amounted to 15 per cent.

With this decrease in the number of colts foaled there has been an actual increase in the number of horses on farms. This apparent anomaly is explained by the following facts: Horses are receiving better care than formerly, and fewer young animals are lost through disease and accident. As a result the average working life of horses has been lengthened. Further, the relative number of horses used in cities and towns has decreased, owing to the substitution of steam and electricity for horsepower upon street railways and for private vehicles.

Exclusive of colts under 1 year, the number of horses on farms and ranges in the United States increased from 15,266,244 in 1890 to 16,964,799 in 1900, a gain of 11.1 per cent. In the North Atlantic states the number decreased from 1,738,864 to 1,641,395, a loss of 5.6 per cent. In the South Atlantic states there was an increase from 880,758 to 1,014,543, or 15.2 per cent; in the North Central states, from 8,573,864 to 9,070,366, or 5.8 per cent; in the South Central states, from 2,461,961 to 3,175,869, or 29.0 per cent; and in the Western states from 1,610,797 to 2,050,018, or 27.3 per cent.

But 3 states reported over 1,000,000 horses each. They were Iowa, 1,392,573; Illinois, 1,350,219; and Texas, 1,269,432.

On June 1, 1900, the average value of horses in the United States was \$49.07. The highest average, \$72.60, was reported by the North Atlantic division of states, and the lowest, \$29.01, by the Western division.

The very low average for Arizona, \$13.61, is due to the presence in that state of large numbers of Indian ponies on reservations. The same factor and the inferior grade of many horses on ranges reduce the average value in nearly all the Western states. The highest average value reported was for Rhode Island, where it was \$86.12.

For the United States the average value of colts under 1 year was \$19.69; of colts 1 and under 2 years, \$33.39; and of horses over 2 years, \$53.02. In most states and groups of states there is a similar gradation of average values for the 3 classes. A few noteworthy exceptions are found, however. In New Jersey the price of colts under 1 year was \$83.93; of those 1 and under 2 years, \$78.71; while horses 2 years and over were worth \$80.64. The high average value of all classes of horses in this state is due to the presence of a few farms making a specialty of raising blooded stock for track and breeding purposes. The large number of young colts on 1 of these farms in Monmouth county was sufficient, owing to the small relative number of colts in the state, to raise the average for the youngest class above that for either of the other 2 classes.

The presence of a number of similar farms in Fayette county, Ky., raises the average value of colts 1 and under 2 years above that of horses 2 years old and over. The average value of such colts in that county is \$377.78. Exclusive of Fayette county, the yearling colts of Kentucky have an average value of approximately \$43.00, which harmonizes with the values for other horses.

In North Dakota the importation of many valuable horses of working age has raised the average value of 2-year-old horses much above that of the younger horses. The existence of large numbers of cheap ponies on the Rosebud and other Indian reservations of South Dakota, greatly reduces the average value of horses of all classes in that state.

Vermont is one of the North Atlantic states that reported fewer horses in 1900 than in 1890. It also shows the lowest average value for horses of any of the New England states. The factors reducing the number of horses have doubtless assisted in depressing the average value, which, twenty years ago, was among the highest reported by the New England states.

MULES.

Mules were reported by the proprietors of 1,480,913 farms and ranges, and of 53,627 barns and other inclosures not on farms or ranges. On farms and ranges there were 231,697 colts under 1 year; 279,925 colts 1 and under 2 years; and 2,759,499 mules 2 years and over. In barns and inclosures not on farms there were 3,156 colts under 1 year; 4,328 colts 1 and under 2 years; and 166,424 mules over 2 years. The total number of work mules 2 years and over in the United States on June 1, 1900, was 2,925,923, and the number of growing mules under 2 years was 519,106, making a grand total of 3,445,029 mules, of which 95.0 per cent were on farms and ranges.

The census of 1890 reported 157,022 mule colts foaled on farms in 1889. A comparison of this number with the number of mule colts 1 and under 2 years, or of those under 1 year, on hand June 1, 1900, shows conclusively that the breeding of mules in 1899 and 1900

was nearly twice as great as ten years before. Accompanying this increase there has been a material addition to the total number of mules on farms. Assuming that the mule colts foaled in 1890 were not included with the mules reported in that year, it is found that the number of mules on farms and ranges increased in the decade from 2,265,985 to 3,039,424, or 34.1 per cent. The increases in the 5 geographical divisions were as follows: In the North Atlantic states from 42,936 to 46,033, a gain of 7.2 per cent; in the South Atlantic states from 415,090 to 545,840, a gain of 31.5 per cent; in the North Central from 643,881 to 652,360, a gain of 1.3 per cent; in the South Central from 1,074,472 to 1,677,607, a gain of 56.1 per cent; and in the Western states from 89,606 to 111,147, a gain of 24.0 per cent.

The number of mules reported in 1890, as given above, included the asses on ranges, as they were not designated separately. Except possibly in the Western states, they were so few in number as to be a negligible quantity.

The 5 states reporting over 200,000 mules each were: Texas, 507,281; Missouri, 283,519; Tennessee, 253,657; Mississippi, 214,259; and Georgia, 207,321.

The average value of mules, as of horses, was highest in the North Atlantic states and lowest in the Western states. In the former it was \$75.22 and in the latter \$49.85, while for the nation it was \$60.17. The highest state average, \$81.78, was in Connecticut, and the lowest, \$27.81, in Utah. The low average for the latter state, and in a number of other Western states, is due to the inferior grade of horses used in breeding these animals.

ASSES AND BURROS.

Asses and burros were reported on 33,875 farms and in 6,929 barns and inclosures not on farms. The number on farms June 1, 1900, was 95,603, and in barns and inclosures elsewhere, 15,847. Of the total number, 111,450, those on farms constituted 85.8 per cent. The total number reported on farms and ranges in 1900 exceeds the number reported in 1890 by 46,514, an apparent gain of 94.8 per cent. It is probable that a large part of this gain is the result of more perfect enumeration of burros in the South Central and Western states than was secured in 1890.

The average value of asses and burros was highest in the North Central, South Atlantic, and South Central states in the order mentioned. In all of these states mules are bred in considerable numbers. In the Western states the presence of large numbers of very cheap burros materially reduces the average value.

SHEEP.

Sheep were reported from 763,543 farms and ranges and from 8,225 barns and inclosures not on farms. The sheep on farms comprised 21,668,238 lambs under 1 year, 31,919,298 ewes 1 year and over, and 8,018,275 rams and wethers over 1 year. Of those not on farms

and ranges, 51,701 were lambs; 139,622, ewes; and 39,978, rams and wethers. There were 40,117,173 wool-bearing sheep, and 21,719,939 lambs, a grand total of 61,837,112, of which 99.6 per cent were on farms or ranges.

The number of wool-bearing sheep on farms and ranges decreased in the past decade from 40,876,312 to 39,937,573, a loss of 2.3 per cent. In the North Atlantic states the number decreased from 4,133,027 to 2,533,579, or 38.7 per cent; in the South Atlantic, from 2,445,386 to 1,706,199, or 30.2 per cent; in the North Central, from 12,332,154 to 10,055,721, or 18.5 per cent; and in the South Central, from 7,027,197 to 3,328,848, or 52.6 per cent. In the Western states the number increased from 14,938,548 to 22,228,620, or 48.8 per cent.

The large decrease shown for the South Central states was confined principally to Texas, in which state there has been an increase since 1890 of over 100,000 in the number of farms. The settlement of these farms has resulted in materially reducing the area of range land in the state, and has greatly enhanced the value of all land suitable for cultivation. As a result, many ranchmen have found it difficult to secure pasturage for their flocks at a reasonable rental, and have either disposed of their holdings, or removed them to less expensive grazing lands in neighboring states and territories.

Throughout the older parts of the country, and in a less degree in the more newly settled states, the small farmer has found it less profitable in recent years to keep sheep than dairy cows and other neat cattle; hence the decline in sheep husbandry in all farming sections.

In the Western states sheep raising is still a leading industry. The large increase noted for the last decade was confined almost entirely to the ranges, and represents an addition of over 7,000,000 to the number of sheep formerly kept in these states. This addition is due in small part to a substitution of sheep for neat cattle, but more largely to additions to flocks kept on the public domain. Many sheep are maintained in the winter months on the arid plains and deserts, feeding upon sagebrush that can not be made to contribute to the support of neat cattle or horses.

On June 1, 1900, seven states each reported over 3,000,000 sheep, including spring lambs. Montana heads the list with 6,170,483. Wyoming had 5,099,613; New Mexico, 4,899,487; Ohio, 4,020,628; Utah, 3,818,423; Idaho, 3,121,532; and Oregon, 3,040,291.

For the country as a whole the average value of all sheep, including lambs, was \$2.76. It was highest in the North Atlantic states and lowest in the South Central states, being \$3.17 in the former and \$2.33 in the latter. Of the individual states, New Jersey showed the highest average, \$4.24, and Georgia the lowest, \$1.30. The average value of lambs was \$1.94; of ewes, \$3.18; and of rams and wethers, \$3.36.

As a rule, the same general relation exists between

the average values of these 3 classes in all parts of the country. Where variations occur, as in Delaware, they are generally caused by the proximity of some market which consumes large numbers of spring lambs at comparatively high prices.

SWINE.

Swine were reported on 4,335,989 farms and ranges, and in 462,861 barns and inclosures not on farms. The total number reported was 64,894,222, of which 62,876,108, or 97.2 per cent, were on farms and ranges, and 1,818,114 were in barns and inclosures elsewhere.

In the decade ending June 1, 1900, the total number on farms and ranges increased from 57,426,859 to 62,876,108, or 9.5 per cent. In the North Atlantic states the number decreased from 2,753,349 to 2,322,206, or 15.7 per cent. In the other geographical divisions there were increases as follows: In the South Atlantic states, from 5,082,321 to 5,562,762, or 9.5 per cent; in the North Central states, from 37,624,632 to 40,474,289, or 7.6 per cent; in the South Central states, from 10,898,586 to 13,047,827, or 19.7 per cent; and in the Western states, from 1,067,971 to 1,460,957, or 36.8 per cent.

Nearly two-thirds of the swine are raised in the North Central states. Iowa ranks first with 9,723,791, or 15.5 per cent of the total number on the farms and ranges of the whole country. The value of the swine of this state constitutes 18.9 per cent of the total.

The fact that the number of swine increased but 9.5 per cent in the decade 1890 to 1900, taken in connection with the facts reviewed under the discussion of neat cattle, may be considered as evidence supporting the contention of those who believe that in the last ten years the meat supply has not kept pace with the population.

Next to Iowa, the most important swine raising states are: Illinois, with 5,915,468; Missouri, with 4,524,664; Nebraska, with 4,128,000; Indiana, with 3,763,389; and Kansas, with 3,594,859.

For the nation the average value of swine was \$3.69. The highest average, \$5.60, was in the North Atlantic states, and the lowest, \$2.29, in the South Atlantic states. The small relative number of swine raised in the North Atlantic states, and the easy access to large markets, accounts for the high values there. In the South Atlantic and South Central states, the averages are greatly reduced by the presence of large numbers of animals of very inferior quality, many of which run wild, especially in the mountain districts. In Florida the average value was only \$1.51. Montana reported the highest average of any state in the Western division, \$5.69. Here, and in a few other Western states, the number of swine raised is barely sufficient to supply the demand for home consumption, hence the comparatively high averages shown.

GOATS.

Previous to 1900 there had been no enumeration of goats. In 1900 they were reported by the operators of

77,534 farms and ranges, and from 22,167 barns and inclosures not on farms. The total number reported was 1,949,605, of which 1,871,252, or 96.0 per cent, were on farms and ranges, and 78,353 were in barns and inclosures elsewhere.

The numbers on farms and ranges by geographical divisions were: North Atlantic, 6,391; South Atlantic, 205,289; North Central, 120,036; South Central, 942,433; and Western, 596,450. Over one-half of the goats on farms and ranges were reported from the South Central states. Texas reported 627,333, or 66.6 per cent of the total number in the group. New Mexico ranked second, with 224,136, and Oregon third, with 109,661.

The average value of goats in the several states varies greatly. The presence of Angoras kept for mohair makes the average high in New England and in a few other states, while in Texas and New Mexico the average is rendered very low by the presence of large herds of inferior animals, raised for their hides.

ANIMALS SLAUGHTERED ON FARMS.

The Twelfth Census was the first to secure reports concerning the value of animals slaughtered on farms. The aggregate value thus reported was for the year 1899, \$189,873,310. The North Atlantic states reported \$26,674,965; the South Atlantic states, \$28,344,028; the North Central states, \$75,825,258; the South Central states, \$48,928,502; and the Western states, \$10,036,476.

Reports of the value of slaughtered animals were obtained from the operators of 4,124,273 farms and ranges, or 71.9 per cent of all farms.

The number of farm operators reporting animals slaughtered should be somewhat less than the number reporting swine or neat cattle, since not all of those having such animals on hand June 1, 1900, slaughtered any in 1899. The number of farms on which animals were slaughtered in 1899 is 4.9 per cent less than the number reporting swine June 1, 1900, and 12.8 per cent less than the number reporting neat cattle. The large proportion of farms with swine and cattle from which reports of animals slaughtered were received may, therefore, be accepted as evidence that the value of such animals, as reported above, is substantially correct. If the true value exceeds the totals here given, the margin of error can not be much, if any, greater than 5.0 per cent.

RECEIPTS FROM SALES OF LIVE ANIMALS.

Receipts from sales of live animals in 1899 were reported by the operators of 3,024,962 farms. In obtaining these reports, the enumerators were instructed to secure from each farm operator a statement of the amount received from sales in 1899, less the amount paid for animals purchased during the same year. The schedules for range animals called for separate statements of the receipts from sales and the amounts paid

for animals purchased, and the difference only was tabulated. The 3,024,962 farms whose operators reported sales of live animals constitute 52.7 per cent of the total number of farms, and 55.0 per cent of the number reporting domestic animals.

The total value of the animals sold was \$722,913,114, of which \$41,273,839 was from the North Atlantic states; \$22,931,535 from the South Atlantic states; \$510,050,897 from the North Central states; \$88,095,371 from the South Central states; and \$60,262,686 from the Western states.

The only available means of determining how far the reports of the farmers are complete is furnished by the reports of the wholesale slaughtering and meat-packing establishments. These establishments, according to the preliminary figures of the Division of Manufactures of the Twelfth Census, slaughtered animals in 1899 having a total value of \$570,596,875.

This total does not include the value of animals slaughtered by small local establishments, nor does it include the value of horses, mules, and asses sold by farmers. Further, the years covered by the reports of the Division of Agriculture and those of the Division of Manufactures are somewhat different. Allowing for these variations, however, it appears certain that the census report of the value of animals sold is substantially correct. Whatever margin of error there may be can not exceed that in the value of animals slaughtered on farms.

TOTAL VALUE OF ANIMALS.

The agricultural schedules used in the Eleventh and preceding censuses contained but one inquiry under which the enumerators were requested to report the "value of live stock." No instructions or explanations were given as to what was intended to be covered by the inquiry. It is probable that during the forty years in which the inquiry, thus worded, was used, the enumerators understood it to mean the value of domestic animals only. They probably did not include under the phrase, and hence did not report anywhere on the schedules, the value of poultry and bees. Under these circumstances, "the value of live stock," as reported in 1890 and in preceding census years, can be used in comparison with the "value of domestic animals," as reported in 1900, with but little if any uncertainty for all states in which the value of domestic animals on ranges was included with the value of those on farms. For states and territories where range animals were reported separately in preceding censuses, estimates of the values of such animals must be made and added to the "value of live stock."

In 1900 the value of domestic animals was derived from the answers to 20 questions by which the enumerators ascertained in detail for each farm the value, as well as the number, of each class of animals named in the schedules. Much more definite information has been obtained in this way, and the general

public is furnished more means of determining the accuracy of the total value reported. It is probable, moreover, that by this detailed system of reporting, fuller and more accurate statements of animal values have been secured, and that, as a consequence, the increase recorded in these values since 1890 does not so much reflect actual additions to values as the results of more careful enumeration.

Taking the figures as they stand, the Twelfth Census shows the following changes in the values of domestic animals in the preceding decade: On June 1, 1890, the value of all live stock on farms in the United States was reported as \$2,208,767,573. The estimated value of all live stock on ranges was \$100,000,000, making the total for farms and ranges \$2,308,767,573. The corresponding total on June 1, 1900, was \$2,981,722,945, a gain of 29.1 per cent. There was a gain in all of the geographical divisions except the North Atlantic, where the value declined from \$313,902,504 to \$305,360,856, or 2.8 per cent. This decrease was caused by losses in the number of neat cattle, horses, sheep, and swine, the increase in average values, and in the number of other animals having been insufficient to balance the same. In the South Atlantic states the value increased from \$161,631,801 to \$184,152,273, a gain of 13.9 per cent; in the North Central states, from \$1,195,704,262 to \$1,529,975,317, a gain of 28.0 per cent; in the South Central states, from \$392,155,328 to \$598,255,687, a gain of 52.6 per cent; and in the Western states, from \$245,373,678 to \$361,453,453, a gain of 47.3 per cent.

Iowa leads the states in the total value of domestic animals, while Texas ranks second. On June 1, 1900, the former had \$271,844,034 invested, and the latter \$236,227,934. Texas ranks first in the number and total value of neat cattle, but the larger number and higher average values of other animals, especially swine, gives Iowa a greater total investment in all domestic animals.

No reports were secured concerning the value of animals not on farms and ranges. They probably have average values somewhat greater than the animals on farms and ranges, since the greater number are located in the states having the highest average values for animals on farms. Allowing the same average values, however, the animals not on farms have a value of \$215,192,928. It is probable, therefore, that the domestic animals in the United States, June 1, 1900, had a value of at least \$3,200,000,000, of which amount the value of animals on farms and ranges constituted over 93 per cent.

DOMESTIC ANIMALS ON MILITARY RESERVATIONS.

Through the courtesy of the Secretary of War, an enumeration was secured of the domestic animals on all military reservations in the United States.

On June 1, 1900, the total number of horses on military reservations was 5,652, of which 4,446 were

cavalry horses; 870, artillery horses; and 336, draft horses. In addition, there were 2,635 draft mules and 355 pack mules, a total of 2,990. The above figures are not included in any of the totals given in this bulletin.

TABLES.

The tables presented in this bulletin are 3 in number.

Table 1 gives for the United States, and also by geographical divisions and by states and territories, the number and value of the animals in each of the general and subclasses into which domestic animals are divided. It gives the number of farms reporting animals of each of the 7 general classes; the number of farms reporting animals slaughtered in 1899, with the value of such animals, and the number of farms whose operators reported receipts from the sale of live animals in 1899, together with the amounts received from such sales.

Table 2 gives, by states and territories, the average values of the domestic animals of each class.

Table 3 presents, by states and territories, the total number of domestic animals of each class on farms and

ranges, and in barns and inclosures elsewhere, together with the number of all establishments reporting.

The geographical divisions used in the following bulletin are those adopted by the *Eleventh Census*. The states included in each division are as follows:

North Atlantic division: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

South Atlantic division: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia.

North Central division: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

South Central division: Alabama, Arkansas, Indian Territory, Kentucky, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas.

Western division: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

NOTE.—Alaska and Hawaii are not included in any of these divisions, and hence the figures for these territories are included only in the totals for the United States.

TABLE 1.—NUMBER AND VALUE OF SPECIFIED DOMESTIC ANIMALS ON

STATES AND TERRITORIES.	Number of farms.	DOMESTIC ANIMALS.		NEAT CATTLE.						
		Number of farms reporting.	Total value.	Number of farms reporting.	Total number.	Total value.	Calves under 1 year.		Steers 1 and under 2 years.	
							Number.	Value.	Number.	Value.
1 The United States ¹	5,789,657	5,499,988	\$2,981,722,945	4,730,920	67,822,386	\$1,476,499,714	15,333,099	\$137,875,655	6,968,188	\$130,492,508
2 North Atlantic division.....	677,606	638,503	305,360,856	592,441	6,889,885	151,899,421	1,258,219	8,506,483	188,429	2,954,984
3 South Atlantic division.....	962,225	913,816	184,152,273	714,894	4,431,750	60,821,262	941,449	5,183,657	374,514	4,409,847
4 North Central division.....	2,196,567	2,127,712	1,529,975,817	1,975,814	30,621,413	762,908,887	7,811,958	72,501,383	3,708,583	80,227,829
5 South Central division.....	1,658,166	1,589,403	598,255,687	1,258,154	17,870,663	313,370,582	4,047,279	33,139,792	1,779,914	25,643,896
6 Western division.....	242,908	228,988	361,453,453	189,677	8,455,749	190,709,481	1,756,682	17,958,686	906,673	17,116,146
7 Alabama.....	223,220	211,083	34,408,932	168,338	799,784	9,793,556	213,397	826,805	52,023	355,759
8 Alaska.....	12	5	1,880	4	18	1,315				
9 Arizona.....	5,809	5,696	15,375,286	3,746	742,635	11,867,466	135,181	1,133,178	65,203	898,604
10 Arkansas.....	178,694	169,709	35,739,425	132,662	894,585	11,885,627	254,473	1,418,961	82,062	790,393
11 California.....	72,542	66,064	65,000,738	52,463	1,444,624	32,655,146	329,430	2,796,201	134,962	2,296,430
12 Colorado.....	24,700	23,768	49,359,781	20,524	1,433,318	35,532,738	269,154	3,180,465	204,101	4,130,902
13 Connecticut.....	26,948	24,713	10,247,634	22,053	217,058	5,944,265	37,300	293,317	3,356	59,630
14 Delaware.....	9,687	9,511	3,733,335	7,924	54,180	1,340,885	9,363	83,940	1,042	15,446
15 District of Columbia.....	269	263	122,019	170	1,462	54,471	69	605	5	75
16 Florida.....	40,814	37,561	10,687,632	26,328	751,261	6,344,349	138,393	586,919	67,292	405,590
17 Georgia.....	224,691	215,520	33,499,683	158,707	899,491	8,328,498	211,579	770,968	62,128	343,053
18 Hawaii.....	2,273	1,566	2,523,479	436	102,908	1,293,766	17,517	85,654	15,075	140,301
19 Idaho.....	17,471	16,560	21,389,853	13,852	363,534	8,389,954	86,398	883,908	39,646	781,993
20 Illinois.....	264,151	256,865	186,856,020	236,781	3,104,010	82,170,907	723,322	7,195,897	364,103	8,251,444
21 Indiana.....	221,897	214,366	105,048,528	197,594	1,684,478	40,964,524	428,109	4,197,697	205,515	4,394,549
22 Indian Territory.....	45,505	44,866	40,824,886	33,239	1,499,364	29,638,671	236,095	2,094,135	155,398	2,249,419
23 Iowa.....	228,622	224,695	271,844,034	215,048	5,367,630	142,518,902	1,290,279	14,413,585	730,681	17,655,451
24 Kansas.....	173,098	163,720	186,317,248	155,286	4,491,078	117,640,801	923,462	10,630,929	560,377	12,833,686
25 Kentucky.....	234,667	223,727	70,488,187	196,308	1,083,248	24,987,741	250,502	2,480,227	141,943	2,851,193
26 Louisiana.....	115,969	109,434	27,757,301	69,449	670,295	8,580,996	169,825	817,872	57,344	470,339
27 Maine.....	59,299	54,172	16,298,422	50,227	338,847	7,585,545	61,794	411,104	15,508	218,758
28 Maryland.....	46,012	44,408	10,636,844	38,447	292,046	6,853,121	55,465	453,971	13,693	219,247
29 Massachusetts.....	87,715	83,393	14,730,169	29,197	285,944	8,130,917	43,621	357,542	2,476	88,898
30 Michigan.....	203,261	193,404	75,997,051	180,158	1,376,408	28,165,256	375,482	2,490,467	155,933	2,510,554
31 Minnesota.....	154,659	148,261	86,620,643	141,557	1,871,325	36,248,958	565,994	4,254,414	161,645	2,553,015
32 Mississippi.....	220,808	210,066	40,843,300	149,680	873,356	12,070,921	238,601	1,157,630	63,962	525,015
33 Missouri.....	284,886	277,570	154,295,363	246,609	2,978,589	75,656,807	633,317	6,943,267	389,809	8,713,534
34 Montana.....	18,370	12,881	61,724,113	11,180	968,387	25,362,016	187,533	2,229,419	113,179	2,396,473
35 Nebraska.....	121,525	119,019	142,769,629	109,895	3,176,243	82,469,498	754,500	8,757,661	401,158	9,303,685
36 Nevada.....	2,184	2,141	12,093,608	1,823	385,192	8,273,260	81,061	851,851	41,103	796,399
37 New Hampshire.....	29,324	26,008	10,062,877	23,201	226,792	5,546,630	40,434	305,865	9,028	139,302
38 New Jersey.....	34,650	32,451	16,269,548	28,117	239,984	7,199,107	39,665	349,937	1,519	25,951
39 New Mexico.....	12,311	11,668	31,644,179	5,978	991,859	17,977,931	183,762	1,989,648	89,367	1,492,875
40 New York.....	226,720	216,210	120,673,101	201,510	2,596,389	62,785,174	507,140	3,144,954	36,446	578,624
41 North Carolina.....	224,637	212,591	28,242,147	163,077	624,513	7,667,950	142,686	549,844	43,828	363,652
42 North Dakota.....	45,332	42,968	41,951,659	37,128	657,434	15,810,637	156,420	1,540,116	92,234	1,866,101
43 Ohio.....	276,719	266,724	120,466,134	249,994	2,053,313	46,560,246	494,584	4,186,575	223,946	4,300,265
44 Oklahoma.....	62,495	60,295	53,921,827	49,835	1,709,752	37,783,115	800,125	3,208,409	159,651	2,961,890
45 Oregon.....	35,837	34,159	33,172,342	30,768	700,303	15,164,897	168,323	1,636,473	68,754	1,253,752
46 Pennsylvania.....	224,248	215,205	97,424,119	203,585	1,896,847	43,063,191	421,323	3,032,067	108,681	1,739,459
47 Rhode Island.....	5,498	4,933	2,281,817	4,211	36,084	1,165,797	5,338	45,537	149	2,604
48 South Carolina.....	155,355	143,701	19,167,229	101,645	342,898	4,384,714	87,734	361,454	14,975	95,827
49 South Dakota.....	52,622	51,042	64,287,578	47,402	1,546,800	37,847,933	343,141	3,782,871	215,384	4,616,681
50 Tennessee.....	224,623	217,042	58,048,895	185,311	912,133	15,401,051	236,000	1,606,949	110,368	1,432,689
51 Texas.....	352,190	343,151	236,227,994	273,332	9,428,196	163,228,904	2,148,261	19,528,804	957,163	14,007,199
52 Utah.....	19,337	18,834	21,175,867	17,185	343,690	7,152,844	78,940	729,551	32,505	544,555
53 Vermont.....	33,104	31,418	17,373,169	30,840	501,940	10,523,795	101,584	566,130	11,266	151,763
54 Virginia.....	167,836	161,108	39,331,552	134,861	825,512	16,838,847	162,053	1,273,728	91,579	1,541,054
55 Washington.....	33,202	31,384	21,437,528	27,481	394,923	9,440,038	105,130	889,058	39,340	698,051
56 West Virginia.....	92,874	89,158	29,231,832	83,235	639,782	14,058,427	134,107	1,102,228	79,972	1,425,903
57 Wisconsin.....	169,795	164,078	93,521,480	158,362	2,314,105	40,849,418	623,343	4,107,904	205,798	8,228,864
58 Wyoming.....	6,095	5,938	39,080,158	4,677	687,284	19,393,191	126,770	1,788,934	78,513	1,826,112

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

FARMS AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES.

NEAT CATTLE—continued.											
Steers 2 and under 3 years.		Steers 3 years and over.		Bulls 1 year and over.		Heifers 1 and under 2 years.		Dairy cows 2 years and over.		Other cows 2 years and over.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
5,203,325	\$151,508,747	3,086,029	\$109,598,584	1,815,963	\$45,391,948	7,183,916	\$121,626,697	17,139,674	\$508,745,181	11,592,142	\$271,760,449
120,077	3,866,794	59,303	2,965,264	202,738	4,420,571	792,984	12,422,413	3,496,266	111,839,247	221,869	5,423,665
290,720	5,769,453	263,573	7,062,094	102,855	1,569,336	433,240	4,600,635	1,388,319	30,396,379	642,080	7,329,861
2,830,378	97,551,490	1,151,778	52,216,465	522,147	21,165,010	3,325,231	64,404,062	8,490,284	267,454,181	3,286,064	97,383,977
1,294,279	26,955,213	1,194,673	33,149,200	821,558	11,221,808	1,721,326	23,546,394	2,899,236	68,227,921	4,612,398	91,486,298
657,557	17,743,714	403,940	13,973,490	165,884	6,985,219	901,752	16,554,572	866,528	30,698,773	2,796,783	69,678,881
37,001	861,154	40,486	831,167	18,027	205,161	83,027	703,459	279,263	5,512,940	76,560	997,111
		4	450	1	55			13	810		
42,116	743,845	30,577	666,953	20,437	483,411	73,437	931,818	17,965	577,698	357,719	5,901,904
36,893	494,955	12,801	250,618	13,117	232,062	103,555	1,064,074	312,577	6,349,801	79,557	1,284,763
109,183	2,722,506	86,340	2,796,313	24,725	845,470	148,289	2,696,263	307,245	10,739,070	304,450	7,762,893
136,775	3,927,154	62,069	2,120,710	26,437	1,460,909	151,627	3,156,858	100,116	3,797,997	483,039	13,807,743
3,254	97,538	7,219	439,034	5,025	120,728	26,476	461,570	126,434	4,262,545	7,994	200,903
970	22,919	1,321	45,630	1,654	40,518	5,373	91,938	32,591	993,972	1,866	46,527
1	25			22	1,060	76	1,357	1,251	50,399	38	950
46,731	404,300	44,516	556,313	19,342	198,998	70,445	458,458	78,830	1,048,849	285,712	2,684,922
36,100	271,966	31,254	403,983	24,769	229,015	93,585	680,407	276,024	4,658,971	164,052	1,470,135
10,319	122,083	212,758	231,631	830	29,889	9,438	98,621	4,028	127,820	32,948	457,767
27,726	797,550	10,522	364,197	6,309	236,442	40,398	762,889	51,929	1,797,122	100,606	2,765,853
299,238	11,557,852	88,548	4,028,175	59,732	2,284,576	332,472	6,735,360	1,007,664	34,279,218	228,931	7,238,385
140,348	4,826,868	35,690	1,704,367	28,728	1,118,307	183,193	3,060,138	574,276	18,285,504	88,619	2,777,104
194,281	4,131,108	354,530	9,644,850	12,198	463,966	99,734	1,398,859	110,687	2,653,501	336,441	7,002,833
603,745	23,624,889	173,016	9,510,610	93,154	4,408,021	592,076	12,242,609	1,423,648	46,349,012	461,031	14,315,225
530,461	17,460,124	430,633	17,450,632	62,469	3,089,345	447,295	9,112,935	676,456	22,191,123	859,925	24,866,027
107,655	3,326,702	49,580	2,140,220	12,937	431,612	104,861	1,880,432	364,025	10,518,081	51,745	1,359,424
30,094	343,357	26,589	586,360	10,783	207,261	66,076	620,250	184,815	3,607,033	124,769	1,928,624
11,156	266,452	11,442	582,828	6,995	152,984	45,877	621,354	173,592	5,060,048	12,483	272,017
14,068	385,354	13,689	494,255	10,027	246,334	28,930	495,742	147,284	4,339,777	9,490	218,441
1,735	47,029	1,943	105,786	7,209	185,543	34,452	587,080	184,562	6,546,954	9,946	262,090
49,748	1,292,829	4,555	158,641	19,406	547,254	161,174	2,685,813	563,905	17,231,805	46,205	1,197,893
58,635	1,423,199	9,148	313,247	42,549	1,202,197	211,162	3,299,865	753,632	21,513,337	68,565	1,689,684
35,111	404,282	43,149	1,040,517	17,601	288,883	99,985	899,800	299,318	6,408,246	85,629	1,346,548
363,775	12,451,823	148,965	6,818,862	43,390	1,921,821	312,749	6,040,589	765,336	23,514,794	324,198	9,252,117
113,368	3,379,211	85,303	3,411,580	14,556	785,577	97,899	2,002,199	45,036	1,886,580	311,513	9,270,977
317,360	10,991,720	119,590	5,690,337	51,791	2,567,438	345,275	7,413,817	512,544	17,192,120	674,025	20,552,720
29,508	804,642	12,863	431,342	8,696	384,406	44,967	792,272	13,066	462,081	153,388	3,749,667
6,997	178,288	7,571	413,250	5,050	112,992	29,574	462,468	115,036	3,015,354	13,102	319,083
928	27,329	588	23,818	8,271	226,177	23,609	470,484	157,407	5,840,228	7,977	235,183
32,867	720,012	19,646	547,876	27,532	1,097,114	114,045	1,766,334	16,775	510,048	502,865	9,854,024
23,492	656,229	8,253	385,378	85,140	1,730,526	335,844	5,151,703	1,501,608	48,694,512	98,466	2,393,248
26,579	329,944	30,692	572,244	17,741	188,507	68,732	561,321	233,178	4,426,709	61,082	675,729
69,920	2,073,268	25,531	971,168	10,342	476,817	69,838	1,379,518	125,503	4,073,546	108,146	3,425,103
144,725	4,571,321	27,932	1,243,524	39,276	1,226,696	217,571	3,959,411	818,239	24,725,882	87,040	2,347,072
191,340	4,550,770	306,675	8,892,081	22,823	917,477	125,029	2,262,978	165,852	5,045,568	438,257	9,943,942
43,928	1,142,145	21,448	725,205	13,675	471,777	78,628	1,380,105	122,447	4,093,833	183,190	4,559,107
64,252	1,903,405	16,382	712,704	69,006	1,607,337	224,623	3,705,397	943,773	26,141,661	48,807	1,221,261
135	4,876	727	40,805	831	23,559	3,815	73,276	23,660	937,137	1,379	38,003
8,157	74,544	19,118	815,707	10,116	125,621	33,879	291,705	126,684	2,541,723	42,235	523,133
179,099	5,354,481	77,402	3,314,330	23,248	1,089,457	167,607	3,347,421	270,634	8,400,818	270,235	7,991,874
63,301	1,236,363	20,127	490,640	11,927	292,251	94,224	1,243,158	321,676	3,137,474	49,560	961,527
593,603	12,106,522	341,286	9,272,747	202,145	8,183,295	954,835	13,473,884	861,023	19,995,327	3,369,880	66,661,626
17,612	413,679	6,073	174,437	5,445	219,312	40,461	681,040	65,905	2,037,367	95,849	2,352,353
8,128	185,653	5,178	261,661	15,211	260,725	68,664	889,081	270,194	7,740,908	21,715	472,874
87,026	2,349,944	79,203	2,899,662	11,088	294,980	71,952	1,029,057	231,876	6,641,677	40,735	808,745
24,128	648,161	9,096	330,940	7,489	269,311	44,113	805,325	107,232	4,076,189	58,395	1,722,503
71,088	1,930,457	43,780	1,774,300	8,096	244,303	60,268	990,655	205,601	5,694,302	36,870	896,279
73,819	1,917,616	10,773	412,672	48,062	1,233,081	235,319	4,526,536	998,397	29,642,522	69,094	1,730,773
80,446	2,444,809	60,003	2,403,887	10,533	727,990	67,883	1,549,469	18,272	720,693	244,859	7,931,297

*Including 80 Chinese buffaloes and 47 working bullocks.

TABLE 1.—NUMBER AND VALUE OF SPECIFIED DOMESTIC ANIMALS ON FARMS

STATES AND TERRITORIES.		HORSES.								
		Number of farms reporting.	Total number.	Total value.	Colts under 1 year.		Colts 1 and under 2 years.		2 years and over.	
					Number.	Value.	Number.	Value.	Number.	Value.
1	The United States ¹	4,532,018	18,280,007	\$896,955,343	1,315,208	\$25,900,109	1,447,747	\$48,335,128	15,517,052	\$822,720,106
2	North Atlantic division.....	593,056	1,699,139	123,349,325	57,744	1,848,932	82,978	4,669,925	1,558,417	116,830,468
3	South Atlantic division.....	534,220	1,071,070	59,905,516	56,527	1,324,033	60,944	2,482,859	953,599	56,098,624
4	North Central division.....	2,027,023	9,794,262	516,030,691	723,896	15,993,815	802,439	30,298,014	8,267,927	409,788,862
5	South Central division.....	1,159,658	3,424,763	131,144,238	248,894	4,487,897	241,086	6,476,530	2,934,783	120,179,811
6	Western division.....	216,668	2,277,786	66,033,447	227,768	2,242,194	258,778	4,371,811	1,791,240	59,469,942
7	Alabama.....	98,680	152,643	7,906,121	8,724	203,492	7,846	299,118	136,073	7,403,511
8	Alaska.....	3	5	465					5	465
9	Arizona.....	5,260	125,063	1,701,905	18,976	82,610	22,283	152,878	83,804	1,466,417
10	Arkansas.....	121,750	253,590	10,164,495	16,815	289,075	14,179	381,735	222,596	9,493,685
11	California.....	63,611	421,293	17,844,993	23,049	423,427	24,639	763,613	373,605	16,657,953
12	Colorado.....	23,020	236,546	7,308,726	23,645	291,280	27,360	530,164	185,541	6,487,282
13	Connecticut.....	22,934	52,576	3,813,632	429	17,952	1,480	94,030	50,667	3,701,650
14	Delaware.....	9,033	29,722	1,767,625	1,590	42,110	1,903	84,427	26,229	1,641,083
15	District of Columbia.....	255	854	57,302	16	590	24	1,475	814	55,297
16	Florida.....	26,972	42,811	2,290,139	2,239	42,156	2,185	75,232	38,387	2,172,751
17	Georgia.....	92,060	127,407	7,092,228	4,028	99,935	4,525	189,539	118,854	6,802,754
18	Hawaii.....	1,387	12,932	441,661	379	3,238	1,522	36,489	11,081	401,934
19	Idaho.....	15,907	170,120	4,123,343	18,212	136,246	20,832	278,326	131,076	3,708,771
20	Illinois.....	246,614	1,350,219	69,698,100	107,967	2,513,050	115,377	4,575,418	1,126,875	62,604,632
21	Indiana.....	202,815	751,715	40,641,988	52,426	1,303,117	54,820	2,365,668	644,469	36,968,203
22	Indian Territory.....	40,810	217,699	6,223,718	20,054	213,041	19,253	324,049	178,392	5,686,628
23	Iowa.....	218,955	1,392,573	77,720,577	124,527	2,991,078	133,589	5,359,392	1,134,457	69,370,107
24	Kansas.....	164,106	979,695	43,758,334	72,539	1,465,610	78,447	2,462,398	828,709	39,830,326
25	Kentucky.....	181,179	451,697	24,548,542	26,487	1,062,057	24,927	1,428,700	400,233	22,057,785
26	Louisiana.....	82,289	194,372	6,624,617	13,510	166,812	12,076	274,190	168,786	6,184,115
27	Maine.....	49,576	106,299	7,058,989	2,834	78,537	3,955	201,548	99,510	6,778,904
28	Maryland.....	41,598	148,994	9,352,694	8,942	231,074	9,938	455,204	130,114	8,660,416
29	Massachusetts.....	31,444	75,034	5,826,457	799	47,177	2,298	160,121	71,937	5,619,159
30	Michigan.....	183,914	686,559	35,908,557	31,018	746,534	38,406	1,711,541	517,135	33,450,482
31	Minnesota.....	140,519	696,469	42,255,044	45,504	970,772	51,399	2,081,557	599,566	39,252,715
32	Mississippi.....	127,033	229,311	10,882,851	17,039	367,069	14,489	495,714	197,733	10,020,068
33	Missouri.....	255,522	967,037	42,094,814	58,177	1,277,129	63,214	2,070,566	845,646	38,747,179
34	Montana.....	12,464	329,972	7,738,672	39,338	364,743	44,850	839,334	245,284	6,584,595
35	Nebraska.....	116,129	795,318	36,663,359	66,776	1,284,984	73,082	2,316,583	655,460	33,061,792
36	Nevada.....	2,082	80,205	1,272,336	10,778	55,296	11,001	102,188	58,516	1,113,852
37	New Hampshire.....	24,156	54,866	3,840,670	702	23,847	1,543	90,816	52,621	3,726,007
38	New Jersey.....	30,338	94,024	7,582,274	1,826	153,251	3,054	240,380	89,144	7,188,643
39	New Mexico.....	10,792	131,153	2,220,469	16,666	99,127	16,550	177,458	97,937	1,943,834
40	New York.....	203,469	623,438	47,977,931	20,027	650,394	30,033	1,771,023	573,378	45,556,014
41	North Carolina.....	108,160	159,158	8,795,611	5,807	131,675	5,927	233,882	147,419	8,430,054
42	North Dakota.....	41,694	369,948	22,728,511	28,625	546,748	32,131	1,127,100	299,192	21,054,668
43	Ohio.....	251,788	878,205	50,159,245	55,324	1,395,896	67,332	3,037,402	755,649	45,725,947
44	Oklahoma.....	58,574	303,631	10,615,294	26,933	423,331	28,382	656,139	243,316	9,535,824
45	Oregon.....	31,759	287,932	8,651,060	26,138	267,521	27,632	480,133	234,112	7,903,406
46	Pennsylvania.....	195,983	590,981	40,948,827	28,547	806,696	36,584	1,916,501	525,850	38,225,680
47	Rhode Island.....	4,644	11,390	930,948	91	4,740	179	13,779	11,120	962,429
48	South Carolina.....	58,541	78,419	4,846,903	2,701	69,778	3,188	161,587	72,530	4,615,538
49	South Dakota.....	50,198	480,768	20,035,637	47,124	700,743	52,659	1,369,292	380,935	13,015,647
50	Tennessee.....	158,355	352,388	19,681,517	23,853	663,620	23,109	993,396	305,426	18,024,501
51	Texas.....	292,988	1,269,432	34,497,033	95,429	1,099,900	96,825	1,623,489	1,077,178	31,773,694
52	Utah.....	17,806	115,834	3,396,313	11,395	122,843	13,515	247,348	90,974	3,026,122
53	Vermont.....	29,965	85,531	5,319,597	2,489	65,838	3,352	131,727	79,190	5,072,032
54	Virginia.....	123,347	298,522	16,326,404	19,257	441,858	20,291	780,009	258,974	14,104,537
55	Washington.....	28,256	243,985	8,550,434	22,350	253,658	30,312	502,760	191,314	7,794,016
56	West Virginia.....	74,254	185,188	10,376,550	11,947	264,857	12,963	501,504	160,278	9,610,189
57	Wisconsin.....	154,769	655,756	34,316,475	33,889	783,154	41,933	1,871,157	479,884	31,657,164
58	Wyoming.....	5,711	135,543	3,225,195	16,712	144,443	19,754	297,109	99,077	2,783,644

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES—Continued.

MULES.									ASSES AND BURROS, ALL AGES.			
Number of farms reporting.	Total number.	Total value.	Colts under 1 year.		Colts 1 and under 2 years.		2 years and over.		Number of farms reporting.	Number.	Value.	
			Number.	Value.	Number.	Value.	Number.	Value.				
1,480,913	3,271,121	\$196,812,560	231,697	\$6,203,286	279,925	\$11,775,191	2,759,499	\$178,834,083	33,875	95,603	\$5,824,539	1
19,960	47,655	3,584,603	1,622	62,024	4,211	245,854	41,822	3,276,725	588	1,137	39,071	2
347,091	555,129	38,035,487	9,289	277,980	20,552	1,045,582	525,288	36,711,925	1,416	2,301	216,228	3
286,613	750,655	42,537,747	98,295	2,802,769	103,422	4,410,759	548,988	35,324,219	8,709	19,890	2,221,290	4
807,719	1,789,438	105,995,312	111,831	2,847,388	139,781	5,653,224	1,537,826	97,494,700	16,421	40,057	2,899,075	5
19,263	121,738	6,068,904	10,591	211,738	11,535	399,997	99,612	5,457,169	6,500	30,780	435,520	6
120,215	192,070	13,104,642	4,695	134,232	7,853	390,664	179,522	12,579,746	900	1,819	134,826	7
890	4,077	123,539	445	7,273	552	13,384	3,080	102,882	883	4,625	32,162	8
88,824	175,001	9,989,704	8,734	209,940	10,908	433,326	155,359	9,346,438	1,883	2,479	222,185	9
9,738	84,773	4,610,909	5,035	104,787	6,469	247,975	73,269	4,258,147	953	2,227	146,697	10
2,293	6,784	325,547	893	22,303	874	33,300	5,017	269,944	795	5,513	52,010	11
181	278	22,735	20	660	27	1,810	231	20,265	21	24	780	12
2,223	4,745	845,401	107	5,450	289	17,930	4,349	322,021	6	15	845	13
21	81	6,050					81	6,050				14
8,680	13,664	1,074,972	102	3,312	377	22,102	13,185	1,049,558	31	98	3,445	15
133,148	207,321	14,454,822	1,489	44,951	5,021	261,684	200,811	14,148,187	208	519	45,850	16
261	6,506	590,507	69	1,387	424	19,775	6,013	569,345	291	1,438	13,355	17
630	1,793	70,542	276	6,253	209	6,610	1,309	57,679	83	362	10,733	18
49,758	124,644	7,420,511	13,804	401,070	13,194	585,666	97,646	6,433,775	1,045	2,529	223,147	19
29,091	66,717	3,717,083	7,165	216,355	7,820	324,353	52,232	3,176,375	550	1,008	116,144	20
20,048	56,858	2,878,825	4,289	92,494	5,059	174,180	47,510	2,612,151	610	1,262	117,940	21
22,615	55,747	3,586,761	6,488	207,356	6,807	333,830	42,452	3,045,575	625	1,832	150,768	22
41,709	118,704	6,507,916	18,809	518,591	18,330	751,271	81,565	5,238,054	1,836	3,787	428,176	23
85,283	190,665	11,105,553	20,710	600,746	20,945	933,563	149,010	9,571,244	2,134	5,259	459,210	24
53,948	143,970	10,636,982	2,325	52,950	6,225	293,765	135,420	10,290,267	368	683	51,685	25
158	353	19,530	92	2,675	21	970	240	15,885	28	48	769	26
7,135	17,511	1,394,522	405	15,192	1,136	66,408	15,970	1,312,922	41	89	6,810	27
120	298	20,685	57	2,200	27	1,480	214	16,945	30	51	1,709	28
1,311	2,916	158,475	349	9,000	188	7,856	2,379	141,619	53	95	8,193	29
3,797	8,339	486,580	722	24,682	813	39,020	6,804	422,878	88	161	11,475	30
119,983	214,259	14,128,807	7,581	229,146	12,286	606,409	194,392	13,302,252	1,005	1,773	216,609	31
101,631	283,519	15,482,232	41,424	1,140,502	47,111	1,939,879	194,984	12,401,901	3,561	8,777	1,111,893	32
424	2,729	102,741	576	12,806	404	12,021	1,749	77,914	53	128	16,008	33
21,791	55,124	3,171,460	6,201	182,875	6,671	293,356	42,252	2,695,229	474	732	116,756	34
349	2,792	85,601	607	8,716	440	9,169	1,745	67,716	90	256	28,886	35
42	97	6,072	12	232	13	630	72	5,210	14	27	1,565	36
2,359	4,888	354,037	67	2,844	322	20,823	4,499	330,370	33	43	2,455	37
1,645	5,311	183,132	561	8,040	632	15,307	4,118	159,785	3,108	15,902	64,523	38
1,645	3,313	229,172	192	6,162	182	9,160	2,939	213,850	153	338	8,109	39
88,591	135,610	8,677,293	3,076	81,927	5,600	256,401	126,934	8,338,970	546	825	69,460	40
2,049	6,880	476,366	408	11,615	510	25,237	5,962	439,514	62	96	13,231	41
7,852	16,771	941,211	1,464	46,525	1,321	60,244	13,986	834,442	177	250	18,981	42
21,598	55,677	2,823,630	6,272	162,288	6,751	252,457	42,654	2,413,885	748	1,521	124,171	43
1,458	7,448	318,249	1,091	20,882	1,014	30,013	5,341	267,354	156	305	42,423	44
15,336	38,059	2,907,690	1,144	45,876	3,604	210,286	33,311	2,651,528	242	576	22,559	45
23	38	2,835			2	65	36	2,770	4	5	210	46
75,428	117,369	8,415,523	520	18,937	3,081	187,207	113,768	8,209,379	147	247	22,353	47
2,831	6,804	345,609	918	24,573	743	30,180	5,143	290,856	120	195	19,021	48
112,385	253,657	16,200,550	24,681	724,608	28,674	1,284,211	200,302	14,191,731	3,754	8,852	703,702	49
185,435	507,281	25,121,619	32,644	649,984	41,080	1,284,649	433,657	23,186,986	5,519	16,409	868,747	50
680	2,116	58,850	458	6,279	380	9,775	1,278	42,796	212	888	15,555	51
146	331	21,847	38	1,315	13	630	280	19,902	13	25	915	52
25,477	47,474	2,941,765	2,879	83,918	4,196	192,701	40,399	2,665,146	261	412	52,231	53
782	2,690	138,185	441	10,669	322	12,992	1,927	114,524	73	160	16,481	54
6,388	11,354	725,134	711	24,293	852	41,149	9,791	659,692	86	116	15,234	55
2,178	4,490	243,493	543	19,625	414	19,807	3,533	204,001	118	428	8,505	56
880	1,227	51,609	209	3,780	239	9,451	779	38,428	94	414	10,037	57

TABLE 1.—NUMBER AND VALUE OF SPECIFIED DOMESTIC ANIMALS ON

STATES AND TERRITORIES.		SHEEP.								
		Number of farms reporting.	Total number.	Total value.	Lambs under 1 year.		Ewes 1 year and over.		Rams and wethers 1 year and over.	
					Number.	Value.	Number.	Value.	Number.	Value.
1	The United States ¹	768,543	61,605,811	\$170,387,002	21,668,238	\$42,027,828	31,919,298	\$101,376,142	8,018,275	\$26,933,032
2	North Atlantic division..	120,377	4,247,100	13,446,671	1,713,521	4,141,901	2,259,823	8,232,125	273,756	1,072,645
3	South Atlantic division..	106,420	2,693,915	6,761,269	992,716	2,238,563	1,381,330	3,767,442	321,869	755,261
4	North Central division..	358,569	16,180,556	48,111,689	6,124,835	11,863,771	8,675,532	30,960,874	1,380,189	5,287,044
5	South Central division..	152,394	4,877,473	11,364,079	1,548,625	3,221,223	2,439,135	5,962,405	889,713	2,180,451
6	Western division.....	25,758	33,490,669	90,519,411	11,271,049	20,550,870	17,101,832	52,365,884	5,126,788	17,602,657
7	Alabama.....	17,962	317,053	488,299	87,755	104,153	157,830	259,428	71,468	124,718
8	Alaska.....									
9	Arizona.....	602	924,761	1,901,764	256,303	348,828	452,271	1,061,358	216,187	491,573
10	Arkansas.....	13,302	256,929	437,317	88,168	123,508	130,700	240,681	88,061	73,128
11	California.....	3,616	2,563,353	7,003,231	838,385	1,579,388	1,335,390	4,046,633	389,578	1,377,210
12	Colorado.....	1,255	2,044,814	5,584,897	691,991	1,144,294	1,089,680	3,417,731	263,143	1,022,372
13	Connecticut.....	1,258	36,987	137,420	13,966	40,302	20,655	85,730	2,366	11,388
14	Delaware.....	466	11,765	43,688	4,801	18,079	6,360	22,899	604	2,610
15	District of Columbia.....									
16	Florida.....	864	124,520	239,261	21,811	32,433	55,881	109,136	46,828	97,692
17	Georgia.....	10,891	336,278	438,863	77,384	84,163	162,704	221,603	96,190	132,597
18	Hawaii.....	25	102,098	133,883	17,492	11,500	61,646	87,412	22,960	34,971
19	Idaho.....	1,936	3,121,532	8,294,776	1,156,065	2,153,766	1,611,090	4,947,388	354,377	1,193,622
20	Illinois.....	25,422	1,030,581	3,706,642	401,431	989,897	548,853	2,341,230	80,297	375,515
21	Indiana.....	48,046	1,742,002	5,794,976	731,354	1,631,201	940,387	3,776,066	70,261	337,709
22	Indian Territory.....	562	17,005	37,994	4,357	7,128	8,318	19,747	4,330	11,119
23	Iowa.....	18,788	1,056,718	3,956,142	393,850	945,615	576,104	2,610,908	81,764	399,619
24	Kansas.....	2,095	262,013	333,827	82,106	167,196	133,825	491,198	46,082	175,433
25	Kentucky.....	50,835	1,297,343	4,191,205	581,185	1,779,651	647,838	2,172,170	68,320	280,384
26	Louisiana.....	5,740	219,844	333,040	50,610	49,746	114,414	185,840	54,820	97,454
27	Maine.....	18,361	420,116	1,116,483	167,903	364,766	240,717	709,720	11,496	42,057
28	Maryland.....	6,339	191,101	696,531	79,581	268,248	101,006	381,448	10,514	46,835
29	Massachusetts.....	1,447	52,559	193,696	18,690	51,520	30,441	125,357	3,428	16,719
30	Michigan.....	63,339	2,747,609	7,162,664	1,121,679	1,935,321	1,508,503	4,737,021	117,427	490,322
31	Minnesota.....	28,056	589,878	1,740,088	230,550	410,557	329,984	1,205,275	29,344	124,256
32	Mississippi.....	14,430	312,632	534,945	76,162	107,166	162,188	289,401	74,282	138,378
33	Missouri.....	38,013	1,087,213	3,350,846	423,510	999,349	587,757	2,060,850	75,946	290,638
34	Montana.....	1,481	6,170,483	18,165,404	1,955,269	3,806,529	2,995,795	10,105,384	1,219,419	4,253,491
35	Nebraska.....	2,764	511,273	1,678,498	175,323	330,358	279,073	1,102,871	56,877	245,269
36	Nevada.....	255	887,039	2,344,865	318,738	578,919	434,574	1,300,152	133,677	465,794
37	New Hampshire.....	4,202	105,113	309,451	39,795	92,525	61,295	201,388	4,023	15,538
38	New Jersey.....	1,561	47,730	202,490	21,367	33,566	24,744	109,640	1,619	9,384
39	New Mexico.....	2,504	4,899,437	10,643,514	1,565,744	2,370,563	2,850,876	6,828,816	482,867	1,444,135
40	New York.....	40,625	1,745,746	5,921,941	761,230	1,940,183	938,315	3,729,631	46,201	252,127
41	North Carolina.....	28,941	301,941	477,421	93,129	124,923	164,105	276,389	44,707	76,109
42	North Dakota.....	4,957	681,952	1,987,136	230,515	381,406	340,273	1,193,611	111,164	412,119
43	Ohio.....	78,636	4,020,628	10,956,308	1,372,378	2,370,851	2,090,093	6,790,239	558,157	1,795,218
44	Oklahoma.....	242	71,358	179,738	22,823	39,255	37,641	105,841	10,894	34,642
45	Oregon.....	6,696	3,040,291	7,563,447	1,078,936	1,919,620	1,480,282	4,188,763	481,073	1,455,064
46	Pennsylvania.....	44,057	1,531,066	4,642,606	571,583	1,327,924	769,463	2,651,067	190,020	663,615
47	Rhode Island.....	333	11,207	41,282	4,578	15,154	5,901	22,575	728	3,553
48	South Carolina.....	3,921	71,538	111,770	19,102	25,365	40,478	66,202	11,958	20,203
49	South Dakota.....	6,392	775,236	2,434,206	267,398	475,051	422,042	1,603,327	85,296	355,828
50	Tennessee.....	37,905	496,011	1,179,424	188,207	389,743	256,032	651,780	61,772	137,901
51	Texas.....	6,416	1,889,298	3,982,117	449,358	620,873	924,174	2,037,517	515,766	1,823,727
52	Utah.....	3,544	3,818,423	10,256,488	1,265,289	2,318,866	1,893,802	5,695,818	659,332	2,241,804
53	Vermont.....	8,533	296,576	881,402	114,409	226,021	168,292	597,117	13,875	58,264
54	Virginia.....	24,732	692,929	2,089,779	300,804	817,731	353,549	1,135,069	38,576	136,929
55	Washington.....	2,793	929,873	2,450,929	371,851	728,640	459,158	1,382,745	98,864	339,544
56	West Virginia.....	30,266	968,343	2,664,556	396,104	867,571	497,247	1,554,696	75,492	242,289
57	Wisconsin.....	47,061	1,675,463	4,510,856	689,241	1,176,969	918,638	3,048,269	67,574	235,118
58	Wyoming.....	1,076	5,099,613	16,310,096	1,772,423	3,601,457	2,498,914	9,891,096	828,271	3,317,543

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

FARMS AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES—Continued.

SWINE, ALL AGES.			GOATS, ALL AGES.			RECEIVED IN 1899 FROM SALE OF LIVE ANIMALS.		VALUE OF ANIMALS SLAUGHTERED ON FARMS IN 1899.		
Number of farms reporting.	Number.	Value.	Number of farms reporting.	Number.	Value.	Number of farms reporting.	Amount.	Number of farms reporting.	Value.	
4,385,989	62,870,108	\$232,027,707	77,684	1,871,252	\$3,266,080	3,024,962	\$722,913,114	4,124,273	\$180,878,310	1
458,306	2,322,206	13,011,651	1,945	6,891	30,114	401,941	41,273,839	468,725	26,674,965	2
757,439	5,562,762	12,738,747	19,101	205,289	173,764	310,328	22,931,535	705,002	28,344,028	3
1,740,132	40,474,289	167,776,242	13,392	120,036	393,771	1,576,856	510,050,897	1,719,591	75,825,258	4
1,266,069	13,047,827	82,233,204	34,917	942,433	1,249,197	631,805	88,095,371	1,123,591	48,928,502	5
118,417	1,460,957	6,218,187	8,160	596,450	1,418,503	103,802	60,262,686	107,236	10,036,476	6
171,602	1,423,329	2,887,230	8,638	117,413	94,258	57,916	1,958,640	151,881	5,189,443	7
1	10	100				3	310			8
1,063	18,108	80,587	436	98,403	167,863	1,977	2,908,745	1,637	296,013	9
136,620	1,713,307	2,981,309	4,571	51,839	58,788	65,837	3,752,843	116,835	4,927,481	10
27,396	598,336	2,476,781	1,579	109,021	262,981	24,616	13,305,165	20,667	2,449,820	11
11,073	101,198	482,722	620	37,433	73,141	10,949	8,477,587	10,529	1,093,365	12
13,359	46,447	326,857	73	313	1,945	13,105	1,169,235	14,810	845,123	13
8,155	46,732	234,472	48	143	519	5,096	396,264	8,007	424,400	14
63	802	4,097	6	9	39	4	475	13	2,440	15
30,151	464,277	702,827	2,154	43,705	82,639	9,222	830,657	23,946	1,257,648	16
174,232	1,424,298	2,577,950	6,716	84,624	61,972	50,805	1,689,615	155,246	5,892,046	17
625	8,057	49,576	19	653	731	227	298,476	128	64,081	18
10,016	114,080	480,338	68	4,481	20,167	7,764	3,909,454	8,975	626,237	19
220,405	5,915,468	28,616,781	1,642	8,877	19,932	198,944	69,462,993	214,094	10,154,596	20
180,219	3,763,389	13,804,893	1,518	4,484	8,920	164,846	40,365,661	185,703	8,016,595	21
35,449	650,255	1,906,200	733	10,529	21,538	20,005	6,415,707	28,473	1,657,139	22
208,080	9,728,791	43,764,176	3,007	41,468	146,708	190,097	113,078,528	187,094	8,448,938	23
138,724	3,594,859	17,076,904	995	18,288	71,290	127,192	64,596,534	130,580	5,864,274	24
180,626	1,954,537	5,176,183	2,144	11,967	19,753	122,784	16,660,676	183,341	8,198,080	25
71,073	788,425	1,494,284	2,723	38,308	35,607	17,600	1,072,869	48,339	1,929,437	26
34,361	79,013	516,015	70	279	1,091	31,969	2,371,717	35,870	1,258,694	27
37,415	317,902	1,329,143	227	1,179	4,023	22,944	2,372,560	35,442	2,173,197	28
14,573	78,925	549,617	145	1,254	7,188	13,298	1,284,454	13,450	932,411	29
143,292	1,165,200	4,588,898	537	2,861	10,008	182,850	18,343,856	147,656	5,333,786	30
114,758	1,440,806	5,865,590	498	3,821	12,908	97,614	16,046,622	113,276	4,908,051	31
162,949	1,290,498	2,963,573	5,431	55,388	45,594	52,189	2,208,466	138,390	4,818,416	32
225,254	4,524,664	16,533,935	2,754	24,487	64,786	199,935	54,018,809	228,531	9,765,879	33
5,237	49,496	281,402	61	1,713	7,870	6,689	9,176,830	5,616	906,816	34
102,581	4,128,000	18,660,932	488	2,399	9,126	94,486	49,022,404	93,874	4,508,457	35
1,223	15,174	75,712	39	4,633	12,948	1,160	2,260,221	1,172	270,228	36
16,047	51,211	357,573	61	208	916	13,622	1,346,941	16,400	794,342	37
22,422	175,387	926,179	200	699	3,006	17,524	1,638,767	18,924	1,406,187	38
4,409	20,426	81,644	2,874	224,136	472,961	2,991	3,740,678	3,962	605,296	39
151,764	676,039	3,794,332	576	1,316	6,442	147,238	15,025,932	162,630	8,319,750	40
182,662	1,300,469	2,516,410	5,089	42,901	37,997	63,473	2,485,252	176,803	7,109,655	41
26,930	191,738	980,470	142	1,122	5,308	18,551	3,902,074	25,582	1,573,588	42
216,472	3,188,663	11,813,168	1,025	5,432	16,975	193,642	40,878,674	222,155	10,276,931	43
43,345	584,878	2,380,025	277	3,772	13,854	31,560	10,547,764	35,702	2,925,846	44
22,768	281,406	1,057,037	2,178	109,661	375,229	19,379	6,598,825	21,528	1,565,895	45
175,854	1,107,981	5,830,295	763	2,197	8,951	141,450	15,494,178	180,508	11,627,950	46
2,061	11,508	90,614	16	28	181	1,861	157,478	1,691	142,824	47
110,994	618,995	1,411,516	3,643	26,576	24,450	29,784	828,554	94,302	2,730,079	48
37,896	823,120	3,540,072	252	2,915	15,050	35,607	12,707,831	36,516	1,567,049	49
186,800	1,976,984	4,888,713	3,663	25,834	38,938	122,331	11,121,141	182,375	8,350,946	50
277,605	2,665,614	7,605,687	6,742	627,333	923,777	141,633	34,357,265	238,255	11,032,614	51
14,433	65,732	293,115	93	1,427	2,702	9,895	2,095,504	13,370	659,369	52
23,365	95,090	620,169	41	102	444	21,874	2,786,137	24,942	1,347,754	53
140,269	946,443	2,572,524	1,004	5,305	10,002	70,706	7,800,124	133,538	5,859,531	54
18,875	181,535	890,704	165	2,876	10,757	15,362	3,517,053	17,106	1,168,302	55
73,498	442,844	1,389,808	219	847	2,123	53,294	6,533,034	72,705	2,895,032	56
130,521	2,014,631	7,580,423	534	3,882	12,760	123,092	27,131,916	134,530	5,407,114	57
1,924	15,471	78,145	47	2,668	11,884	3,020	3,673,124	2,029	394,635	58

TABLE 2.—AVERAGE VALUE OF SPECIFIED DOMESTIC ANIMALS

STATES AND TERRITORIES.		NEAT CATTLE.								
		All cattle.	Calves under 1 year.	Steers 1 and under 2 years.	Steers 2 and under 3 years.	Steers over 3 years.	Bulls 1 and under 2 years.	Heifers 1 and under 2 years.	Dairy cows 2 years and over.	Other cows 2 years and over.
1	The United States.....	\$21.77	\$8.96	\$18.73	\$29.12	\$35.51	\$34.49	\$16.98	\$29.68	\$23.44
2	North Atlantic division.....	23.96	6.76	15.68	28.04	50.00	21.80	15.67	31.99	24.45
3	South Atlantic division.....	14.97	5.51	11.77	19.85	26.79	15.26	10.62	21.97	11.42
4	North Central division.....	24.59	9.92	21.66	34.47	45.34	40.53	19.37	31.50	29.64
5	South Central division.....	17.54	8.19	14.41	20.83	27.75	24.90	13.68	23.53	19.83
6	Western division.....	22.55	10.22	18.88	26.98	34.59	42.12	18.36	35.43	24.91
7	Alabama.....	12.25	3.87	6.84	9.76	20.56	11.38	8.47	19.74	13.02
8	Alaska.....	73.06				112.50	55.00		62.31	
9	Arizona.....	15.31	8.38	13.78	17.66	21.81	23.65	13.10	32.16	16.50
10	Arkansas.....	13.29	5.58	9.63	13.42	20.37	17.69	10.28	20.31	16.15
11	California.....	22.60	8.49	17.02	24.94	32.39	34.19	18.18	34.95	25.50
12	Colorado.....	24.79	11.63	20.24	28.71	34.17	55.26	20.82	37.94	28.59
13	Connecticut.....	27.39	7.86	17.77	29.97	60.82	24.03	17.43	33.71	26.26
14	Delaware.....	24.75	8.97	14.82	23.63	34.54	24.50	17.11	30.50	24.93
15	District of Columbia.....	37.26	8.77	15.00	25.00		48.18	17.86	40.29	25.00
16	Florida.....	8.44	4.24	6.03	8.65	12.50	10.29	6.51	13.31	9.40
17	Georgia.....	9.81	3.64	5.52	7.53	12.93	9.25	7.27	16.81	8.96
18	Hawaii.....	12.57	4.89	9.31	11.83	18.16	36.01	10.45	31.73	13.89
19	Idaho.....	23.08	10.23	19.72	28.77	34.61	37.48	18.88	34.61	27.49
20	Illinois.....	26.47	9.95	22.66	38.62	52.27	38.25	20.26	34.02	31.62
21	Indiana.....	24.82	9.81	21.38	34.39	47.75	38.93	19.98	31.84	31.34
22	Indian Territory.....	19.77	8.87	14.48	21.26	27.20	38.04	14.03	23.97	20.81
23	Iowa.....	26.55	11.17	24.16	39.13	54.97	47.32	20.68	32.56	31.05
24	Kansas.....	26.19	11.51	22.90	32.93	40.52	49.45	20.37	32.80	28.92
25	Kentucky.....	23.07	9.90	20.09	30.90	43.17	33.35	17.93	28.89	26.27
26	Louisiana.....	12.80	4.82	8.20	11.41	22.05	19.22	9.39	19.52	15.46
27	Maine.....	22.39	6.65	14.11	23.88	50.94	21.87	13.54	29.15	21.79
28	Maryland.....	23.42	8.18	16.01	27.39	36.11	24.57	17.14	29.47	23.02
29	Massachusetts.....	28.44	8.20	15.71	27.11	54.44	25.74	17.04	35.47	26.35
30	Michigan.....	20.46	6.63	16.10	25.99	34.83	28.20	16.66	30.65	25.93
31	Minnesota.....	19.37	7.52	15.79	24.27	34.26	28.25	15.63	28.55	24.64
32	Mississippi.....	13.82	4.85	8.21	11.51	24.11	16.41	10.00	21.41	15.73
33	Missouri.....	25.40	10.96	22.53	34.23	45.77	44.29	19.31	30.72	28.54
34	Montana.....	26.19	11.89	21.17	29.81	39.99	53.97	20.45	41.89	29.76
35	Nebraska.....	25.96	11.01	23.19	34.63	47.58	49.57	21.47	33.54	30.49
36	Nevada.....	21.48	10.51	19.38	27.27	33.53	44.20	17.62	34.01	24.45
37	New Hampshire.....	24.46	7.57	15.43	25.48	54.58	22.37	15.64	31.43	24.35
38	New Jersey.....	30.00	8.82	17.08	29.45	40.51	27.35	19.93	37.10	29.48
39	New Mexico.....	18.13	10.54	16.70	21.91	27.39	39.85	15.49	30.41	19.60
40	New York.....	24.16	6.20	15.88	27.93	46.70	20.33	15.34	32.43	24.31
41	North Carolina.....	12.28	3.85	8.30	12.41	18.64	10.63	8.17	18.98	11.06
42	North Dakota.....	24.05	9.85	20.23	29.65	38.04	46.10	19.90	32.50	31.67
43	Ohio.....	22.63	8.46	19.20	31.59	44.52	31.23	18.20	30.22	26.97
44	Oklahoma.....	22.00	10.69	18.55	23.78	29.00	40.20	18.10	30.42	22.69
45	Oregon.....	21.65	9.13	18.24	26.00	33.81	34.72	17.55	33.43	24.90
46	Pennsylvania.....	22.70	7.20	16.01	29.62	43.51	23.29	16.50	30.88	25.02
47	Rhode Island.....	32.35	8.53	17.48	36.12	56.13	28.35	19.21	39.61	27.56
48	South Carolina.....	12.64	4.12	6.40	9.14	16.51	12.42	8.61	20.06	12.50
49	South Dakota.....	24.47	11.02	21.43	29.90	42.82	44.71	19.97	31.04	29.57
50	Tennessee.....	16.88	6.81	12.98	18.10	24.38	24.50	13.19	25.30	19.40
51	Texas.....	17.31	9.09	14.63	20.39	27.17	40.48	14.11	23.22	19.78
52	Utah.....	20.81	9.24	16.75	23.62	23.73	40.28	16.83	30.91	24.29
53	Vermont.....	20.98	5.57	13.47	22.84	50.53	17.14	12.95	28.65	21.78
54	Virginia.....	20.40	7.86	16.83	27.00	36.61	26.60	14.30	23.56	19.85
55	Washington.....	23.90	8.46	17.74	26.86	36.38	36.03	18.26	38.01	29.50
56	West Virginia.....	21.97	8.22	17.83	27.16	40.53	30.18	16.44	27.70	24.31
57	Wisconsin.....	20.25	6.59	15.69	26.15	33.30	26.70	15.87	29.69	25.05
58	Wyoming.....	28.22	14.11	23.26	30.39	40.06	69.12	22.82	39.44	32.39

ON FARMS AND RANGES, JUNE 1, 1900, BY STATES AND TERRITORIES.

HORSES.				MULES.				Asses and burros, all ages.	SHEEP.				Swine, all ages.	Goats, all ages.	
All horses.	Colts under 1 year.	Colts 1 and un- der 2 years.	Horses 2 years and over.	All mules.	Colts under 1 year.	Colts 1 and un- der 2 years.	Mules 2 years and over.		All sheep.	Lambs under 1 year.	Ewes 1 year and over.	Rams and wethers 1 year and over.			
\$49.07	\$19.69	\$33.39	\$53.02	\$60.17	\$26.77	\$42.07	\$64.81	\$60.92	\$2.76	\$1.94	\$3.18	\$3.36	\$3.69	\$1.75	1
72.60	32.02	56.28	74.97	75.22	38.24	58.38	78.35	34.36	3.17	2.42	3.64	3.92	5.60	4.71	2
55.93	23.42	40.74	58.83	68.52	29.93	50.87	69.89	93.97	2.51	2.25	2.73	2.32	2.29	0.85	3
52.69	22.09	37.76	56.81	56.67	28.51	42.65	64.85	111.68	2.97	1.94	3.57	3.83	4.15	3.28	4
38.29	18.03	26.86	40.95	59.23	25.46	40.44	63.40	72.37	2.33	2.08	2.44	2.45	2.47	1.33	5
29.01	9.84	16.89	33.20	49.85	19.99	34.68	54.78	14.15	2.70	1.82	3.06	3.43	4.26	2.38	6
51.79	23.33	38.12	54.41	68.23	28.59	49.75	70.07	74.12	1.54	1.19	1.64	1.75	2.03	0.80	7
93.00													10.00		8
13.61	4.35	6.86	17.50	30.30	16.34	24.25	33.40	6.95	2.06	1.36	2.35	2.27	4.45	1.71	9
40.08	17.19	26.92	42.65	57.08	24.04	39.73	60.16	89.63	1.70	1.40	1.84	1.92	1.74	1.13	10
42.36	18.37	30.99	44.59	54.39	20.81	38.33	58.12	65.87	2.73	1.88	3.03	3.54	4.14	2.41	11
30.90	12.32	19.38	34.96	47.99	24.98	38.10	53.81	9.43	2.73	1.65	3.14	3.89	4.77	1.95	12
72.54	41.85	63.53	73.06	81.78	33.00	67.04	87.73	32.50	3.72	2.89	4.15	4.81	7.04	6.21	13
59.47	26.48	44.37	62.57	72.79	50.93	62.04	74.04	56.33	3.70	3.77	3.60	4.82	5.02	3.63	14
67.17	36.88	61.46	67.93	74.69			74.69						5.11	4.33	15
53.49	18.83	34.43	56.60	78.67	32.47	53.63	79.60	35.15	1.92	1.49	1.95	2.09	1.51	0.75	16
56.67	24.81	41.89	57.24	69.72	32.19	52.12	70.46	88.34	1.30	1.09	1.36	1.38	1.81	0.73	17
34.02	8.54	23.97	36.27	90.76	20.10	46.64	94.69	9.29	1.31	0.66	1.42	1.52	6.15	1.12	18
24.24	7.48	13.36	28.29	39.34	22.74	31.63	44.06	29.65	2.66	1.86	3.07	3.37	4.21	4.50	19
51.62	23.32	39.66	55.56	59.53	29.05	44.39	65.89	88.24	3.60	2.47	4.27	4.68	3.99	2.25	20
54.07	24.95	43.15	57.36	55.71	30.20	44.31	60.81	115.22	3.33	2.30	4.02	4.81	3.67	1.99	21
28.59	10.62	16.83	31.88	50.63	21.57	34.43	54.98	93.45	2.23	1.64	2.37	2.57	2.93	2.05	22
55.81	24.02	40.12	61.15	64.34	31.96	49.04	71.74	82.30	3.74	2.37	4.53	4.89	4.50	3.54	23
44.67	20.20	31.39	43.06	54.82	27.57	40.99	64.22	113.06	3.18	2.04	3.67	3.81	4.75	3.90	24
54.35	40.10	57.32	55.11	58.25	29.01	44.57	64.23	87.32	3.23	3.06	3.35	3.50	2.65	1.65	25
34.08	12.81	22.71	36.64	73.88	22.77	47.19	75.99	75.07	1.51	0.98	1.62	1.78	1.90	0.93	26
66.41	27.71	50.96	68.12	55.33	29.08	46.19	66.19	16.02	2.66	2.17	2.95	3.66	6.53	3.91	27
62.77	25.84	45.80	66.01	79.64	37.51	58.46	82.21	98.70	3.64	3.37	3.78	4.45	4.15	3.41	28
77.65	59.05	69.68	78.11	69.41	39.05	54.81	79.18	33.51	3.68	2.76	4.12	4.88	6.96	5.73	29
61.22	24.07	44.56	64.68	54.35	25.79	41.79	59.53	33.61	2.61	1.73	3.14	4.13	3.94	3.50	30
60.67	21.33	39.53	65.47	58.35	34.19	48.00	62.15	71.27	2.95	1.78	3.65	4.23	4.07	3.33	31
47.46	21.48	34.21	50.67	65.94	29.04	49.36	68.43	122.17	1.71	1.41	1.78	1.86	2.30	0.82	32
43.53	21.95	32.75	45.82	54.61	27.58	41.18	63.60	126.68	3.08	2.36	3.51	3.83	3.65	2.65	33
23.60	9.16	18.71	26.84	37.65	22.23	29.75	44.55	125.06	2.94	1.95	3.37	3.49	5.69	4.59	34
46.10	19.24	31.70	50.44	57.53	29.49	43.97	63.79	159.50	3.28	1.88	3.95	4.31	4.52	3.80	35
15.86	5.22	9.29	19.03	30.66	14.36	20.84	38.81	112.84	2.64	1.82	2.99	3.48	4.99	2.79	36
70.00	33.97	58.86	70.81	62.60	19.33	48.46	72.36	57.96	2.94	2.33	3.29	3.86	6.98	4.40	37
80.64	33.93	78.71	80.64	72.43	42.45	64.67	73.43	57.09	4.24	3.91	4.43	5.80	5.28	4.30	38
16.93	5.95	10.72	19.85	34.48	14.33	24.22	38.80	4.06	2.17	1.51	2.40	2.99	4.00	2.11	39
76.34	32.50	58.97	78.77	69.17	32.00	60.33	72.76	23.99	3.39	2.55	3.97	5.46	5.61	4.90	40
55.27	22.68	39.46	57.18	63.99	26.63	45.79	65.70	84.19	1.58	1.34	1.63	1.70	1.94	0.89	41
63.14	19.10	35.08	70.37	69.24	28.47	49.48	73.72	137.82	2.91	1.65	3.51	3.71	4.85	4.73	42
57.12	25.23	45.11	60.52	56.12	31.78	45.60	59.66	75.92	2.73	1.73	3.25	3.22	3.70	3.13	43
34.96	15.72	23.12	38.40	50.80	25.88	37.40	56.59	81.64	2.52	1.72	2.81	3.18	4.07	2.88	44
30.05	10.23	17.34	33.76	42.74	19.14	29.60	50.06	139.09	2.49	1.78	2.83	3.02	3.76	3.42	45
69.29	28.26	62.39	72.69	76.40	40.10	58.35	79.60	39.16	3.03	2.32	3.46	3.49	5.26	4.07	46
36.12	52.09	76.98	86.55	74.61		32.50	76.94	42.00	3.68	3.31	3.83	4.88	7.87	5.70	47
61.81	25.83	50.69	63.64	71.70	36.42	60.76	72.16	90.50	1.56	1.33	1.64	1.69	2.28	0.92	48
41.78	14.87	26.00	47.29	50.79	26.77	40.62	56.55	97.54	3.14	1.77	3.80	4.17	4.30	5.16	49
55.85	27.82	42.90	59.01	63.87	29.36	44.79	70.85	79.50	2.38	2.07	2.55	2.66	2.45	1.50	50
27.18	11.53	16.77	29.50	49.62	19.97	31.27	53.47	52.94	2.11	1.38	2.20	2.57	2.85	1.47	51
29.31	10.78	18.30	38.26	27.81	13.71	25.72	33.49	17.52	2.69	1.33	3.01	3.40	4.46	1.89	52
62.19	26.45	47.18	64.05	66.00	34.61	48.46	71.08	36.60	2.97	1.98	3.55	4.20	6.52	4.85	53
51.34	22.95	38.44	54.46	61.97	29.15	45.92	65.97	126.77	3.02	2.72	3.21	3.55	2.72	1.89	54
35.04	11.34	16.59	40.74	51.37	24.19	40.35	59.43	103.01	2.64	1.96	3.01	3.43	4.58	3.74	55
56.03	22.17	38.69	59.96	63.87	34.17	48.30	67.38	131.33	2.75	2.19	3.13	3.21	3.14	2.51	56
61.75	23.26	44.57	65.97	54.23	36.14	47.99	57.74	19.87	2.69	1.71	3.32	4.22	3.76	3.29	57
23.79	8.64	15.04	28.10	42.06	17.85	39.54	49.33	24.24	3.20	2.03	3.76	4.01	5.05	4.46	58

TABLE 3.—NUMBER OF SPECIFIED DOMESTIC ANIMALS, JUNE 1, 1900, ON FARMS AND RANGES,

STATES AND TERRITORIES.		All inclo- sures reporting domestic animals. ¹	NEAT CATTLE.									
			All inclo- sures reporting. ¹	Total number.	Calves under 1 year.	Steers 1 and under 2 years.	Steers 2 and under 3 years.	Steers 3 years and over.	Bulls 1 year and over.	Heifers 1 and under 2 years.	Dairy cows 2 years and over.	Other cows 2 years and over.
1	The United States ² ...	7,399,106	5,532,737	69,438,758	15,595,245	7,023,731	5,254,380	3,191,831	1,329,572	7,263,433	18,112,707	11,667,909
2	North Atlantic di- vision.	1,115,137	733,342	6,570,311	1,279,532	191,991	125,095	70,847	204,735	806,358	3,665,685	226,018
3	South Atlantic di- vision.	1,081,944	793,197	4,580,168	967,204	379,591	293,538	270,021	104,153	440,462	1,476,787	648,412
4	North Central di- vision.	2,936,696	2,342,509	31,289,294	7,392,303	3,723,417	2,856,727	1,209,185	527,542	3,352,305	8,927,882	3,299,933
5	South Central di- vision.	1,866,917	1,420,038	18,314,662	4,160,299	1,802,407	1,307,341	1,215,140	325,285	1,746,082	3,103,169	4,654,939
6	Western division..	346,841	243,211	8,581,397	1,778,340	911,250	661,310	413,876	167,026	908,793	935,143	2,805,659
7	Alabama	238,955	186,711	849,470	225,856	54,703	39,251	44,845	18,594	85,945	302,129	78,147
8	Alaska	5	4	18				4	1		13	
9	Arizona	7,671	4,216	744,873	135,503	65,304	42,180	30,626	20,451	73,564	18,638	358,607
10	Arkansas	193,540	148,120	940,275	267,341	84,978	38,602	14,261	13,631	106,787	334,128	80,547
11	California	110,012	67,959	1,479,213	333,908	135,755	110,174	92,334	25,201	149,656	326,756	305,434
12	Colorado	42,006	27,144	1,453,971	271,779	204,950	133,004	64,656	26,609	153,190	108,697	436,086
13	Connecticut	45,126	26,891	225,032	37,919	3,463	3,421	7,418	5,044	26,963	132,521	8,288
14	Delaware	14,035	8,744	55,420	9,427	1,052	981	1,361	1,656	5,425	33,645	1,873
15	District of Columbia	4,144	532	2,077	85	5	2	2	23	104	1,809	47
16	Florida	45,028	30,005	765,563	141,579	68,090	47,263	45,773	19,514	71,362	84,274	237,708
17	Georgia	245,498	176,188	937,377	220,043	63,746	36,877	32,885	25,236	95,658	296,962	165,970
18	Hawaii	1,566	436	102,908	17,517	15,075	10,319	12,753	830	9,433	4,023	32,943
19	Idaho	20,583	15,747	369,217	87,722	39,977	27,942	10,651	6,352	40,805	54,520	101,248
20	Illinois	400,444	284,978	3,219,044	733,542	366,332	305,040	120,799	61,814	335,936	1,064,491	231,040
21	Indiana	306,191	230,261	1,737,097	433,858	206,630	145,056	36,359	23,334	135,146	611,772	89,442
22	Indian Territory	54,839	38,470	1,519,259	242,631	156,424	194,636	354,964	12,332	101,268	119,362	337,592
23	Iowa	321,344	261,638	5,447,510	1,299,294	733,505	606,636	176,158	93,491	595,389	1,479,676	463,361
24	Kansas	230,374	187,024	4,552,642	931,630	562,944	534,206	434,899	62,893	450,366	714,196	861,508
25	Kentucky	263,255	222,480	1,119,739	256,999	142,888	110,254	50,953	13,067	105,906	337,608	52,059
26	Louisiana	131,858	77,708	699,631	177,205	58,962	30,964	29,706	11,160	68,069	197,264	126,301
27	Maine	79,164	60,339	354,470	63,316	15,904	11,330	11,610	7,077	47,056	135,548	12,629
28	Maryland	73,991	47,031	306,710	56,629	13,927	14,234	14,742	10,144	29,691	167,566	9,777
29	Massachusetts	88,342	40,459	304,395	45,026	2,612	1,785	2,059	7,266	35,732	199,452	10,463
30	Michigan	269,836	211,729	1,425,700	331,921	157,331	50,140	4,737	19,577	168,497	601,844	46,603
31	Minnesota	200,615	170,767	1,918,737	571,933	163,103	59,340	9,437	42,756	213,340	789,633	69,095
32	Mississippi	227,523	161,423	911,375	243,536	66,151	36,356	46,553	18,037	92,500	310,217	86,975
33	Missouri	363,234	233,076	3,062,859	646,727	339,129	367,163	159,589	44,363	315,671	814,578	325,634
34	Montana	13,686	13,605	974,845	133,334	113,520	113,575	85,559	14,594	93,253	43,317	312,193
35	Nebraska	159,332	131,697	3,220,242	760,127	402,851	319,023	123,939	52,213	347,335	533,866	675,893
36	Nevada	3,246	2,221	336,249	81,257	41,155	29,541	12,833	8,706	45,015	14,178	153,514
37	New Hampshire	39,861	26,405	231,871	40,761	9,119	7,047	7,639	5,064	29,978	113,751	13,512
38	New Jersey	74,128	36,362	257,339	40,923	1,691	1,101	4,526	8,607	24,351	167,799	8,391
39	New Mexico	15,524	6,976	996,790	139,631	30,633	32,995	19,977	27,648	114,406	18,120	504,280
40	New York	345,310	232,339	2,551,944	513,103	37,176	26,367	13,460	85,657	333,930	1,537,921	99,230
41	North Carolina	239,604	175,677	645,417	146,014	44,623	27,001	31,330	17,931	69,707	246,755	61,956
42	North Dakota	49,373	41,570	667,037	153,149	92,315	70,372	25,699	10,402	69,327	131,119	103,704
43	Ohio	396,959	293,048	2,117,925	500,751	225,232	146,059	23,761	39,622	220,178	868,332	88,440
44	Oklahoma	67,380	52,338	1,716,749	301,473	160,143	191,437	306,716	22,924	125,439	169,613	433,994
45	Oregon	46,425	33,832	715,599	171,443	69,345	44,071	21,632	13,799	79,317	132,669	133,263
46	Pennsylvania	334,332	269,232	1,997,192	430,674	110,468	65,634	13,102	69,940	230,043	1,022,074	50,207
47	Rhode Island	12,366	5,256	37,677	5,444	154	140	740	334	3,942	25,027	1,390
48	South Carolina	157,431	109,954	353,157	90,314	15,441	8,445	19,731	10,269	34,767	136,333	42,857
49	South Dakota	63,063	54,712	1,562,175	345,767	216,510	179,564	77,700	23,317	168,331	230,024	270,962
50	Tennessee	260,296	211,555	962,553	243,245	112,551	69,469	21,161	12,149	96,330	351,949	50,699
51	Texas	429,271	320,633	3,595,611	2,192,008	965,602	596,322	345,976	203,341	963,338	924,399	3,403,625
52	Utah	23,346	23,355	356,621	31,532	32,334	17,633	6,177	5,513	41,193	74,234	97,400
53	Vermont	46,008	36,009	510,341	102,416	11,404	3,220	5,293	15,246	69,313	276,592	21,352
54	Virginia	135,115	151,709	353,903	166,609	92,339	37,474	30,033	11,205	72,903	301,905	41,315
55	Washington	45,567	36,726	414,044	109,406	40,072	24,526	9,307	7,610	45,337	119,041	53,695
56	West Virginia	107,043	93,357	655,544	136,504	30,313	71,261	44,040	8,125	60,340	217,533	36,909
57	Wisconsin	224,331	133,949	2,353,276	623,554	266,335	74,123	11,103	43,255	237,239	1,032,311	69,251
58	Wyoming	8,775	5,830	639,970	127,275	73,605	30,669	60,014	10,533	68,007	19,923	244,939

¹ Consisting of farms, ranges, stockyards, livery and private stables, manufacturing, lumbering, and mining plants, and all other establishments, rural or urban, reporting.

AND IN BARN AND INCLOSURES, ELSEWHERE, BY STATES AND TERRITORIES.

HORSES.					MULES.					ASSES AND BURROS.		
All inclo- sures reporting. ¹	Total number.	Colts under 1 year.	Colts 1 and under 2 years.	2 years and over.	All inclo- sures reporting. ¹	Total number.	Colts un- der 1 year.	Colts 1 and under 2 years.	2 years and over.	All inclo- sures reporting. ¹	Total number, all ages.	
6,905,679	21,216,888	1,348,298	1,478,149	18,990,441	1,534,540	3,445,029	284,868	284,253	2,925,923	40,804	111,450	1
958,564	2,579,523	60,141	86,422	2,432,960	23,672	73,511	1,692	4,429	67,890	1,017	2,345	2
614,838	1,229,620	57,833	62,455	1,109,332	355,325	581,888	9,476	20,980	550,932	1,732	2,976	3
2,686,875	11,116,235	742,489	818,374	9,555,372	801,966	793,531	99,596	104,980	589,005	10,659	23,145	4
1,332,040	3,756,044	255,581	246,755	3,253,708	831,711	1,857,990	113,261	141,769	1,602,960	18,707	44,698	5
312,472	2,522,479	231,875	262,621	2,027,983	21,605	132,103	10,759	11,721	109,623	8,398	86,848	6
109,483	171,318	8,997	8,134	154,187	122,354	199,432	4,752	8,009	186,671	1,012	2,019	7
8	5			5								8
7,054	181,458	19,146	22,394	89,918	1,044	4,808	451	559	3,798	1,134	6,091	9
135,211	279,100	17,350	14,791	246,959	91,668	182,384	8,864	11,122	162,398	1,512	2,733	10
100,917	515,464	23,773	25,266	466,425	10,549	88,252	5,098	6,553	76,601	1,280	2,787	11
88,117	273,309	24,148	27,863	221,298	2,702	9,196	912	896	7,388	1,445	7,542	12
40,896	93,285	475	1,584	91,176	160	325	20	28	277	88	42	13
12,529	36,424	1,618	1,933	32,873	2,304	5,042	107	289	4,046	10	19	14
3,962	12,453	26	72	12,355	89	357			357	1	1	15
31,853	50,396	2,325	2,241	45,830	9,367	16,922	106	392	16,424	51	157	16
104,185	148,511	4,148	4,750	139,613	135,580	214,921	1,520	5,130	208,271	306	645	17
1,887	12,982	379	1,522	11,081	261	6,506	69	424	6,013	291	1,438	18
19,209	182,328	18,613	21,150	142,565	729	2,300	279	214	1,807	110	591	19
361,874	1,593,138	110,621	117,704	1,364,813	52,261	131,112	13,917	13,333	103,802	1,328	2,958	20
276,910	879,944	54,137	56,302	769,455	30,988	71,140	7,250	7,414	56,476	698	1,234	21
48,507	237,884	20,810	19,835	197,189	21,287	60,146	4,385	5,170	50,591	696	1,483	22
293,836	1,547,348	127,920	136,317	1,283,111	24,544	60,985	6,591	7,078	47,316	855	2,335	23
210,930	1,072,651	74,530	79,977	918,144	43,408	122,729	19,061	18,559	85,109	2,263	4,400	24
205,409	497,245	27,063	25,538	444,644	88,093	198,110	20,901	21,162	156,057	2,364	5,638	25
97,736	220,717	14,066	12,610	194,041	55,984	150,982	2,404	6,329	142,249	439	953	26
69,269	140,310	2,990	4,120	133,200	178	403	100	22	281	38	66	27
60,583	188,728	9,242	10,218	169,268	7,833	19,734	409	1,204	18,121	85	141	28
81,256	208,653	940	2,517	205,196	270	788	61	29	698	78	106	29
240,990	680,098	31,901	39,258	617,939	1,498	3,290	350	193	2,753	85	184	30
178,286	782,129	46,620	52,407	683,102	4,118	9,166	742	874	7,550	132	216	31
136,239	245,044	17,490	14,361	212,693	121,379	218,621	7,657	12,440	193,624	1,112	2,017	32
316,220	1,096,550	59,476	64,323	972,751	105,436	296,261	41,686	47,526	207,049	3,948	9,435	33
17,271	347,247	40,413	45,500	261,334	494	8,090	610	410	2,070	60	145	34
146,997	863,939	68,293	74,353	721,293	22,807	57,924	6,599	6,831	44,494	652	1,040	35
3,026	83,597	10,850	11,085	61,662	406	3,132	607	440	2,085	97	297	36
36,374	77,233	778	1,607	74,853	60	127	12	13	102	25	38	37
66,422	177,215	1,933	3,209	172,073	2,763	6,011	68	333	5,610	89	121	38
13,926	140,878	17,185	17,064	106,629	1,886	5,948	578	645	4,725	3,687	17,469	39
314,107	934,375	20,883	31,225	882,267	2,062	5,179	199	196	4,784	298	759	40
116,795	174,933	5,935	6,130	162,868	90,065	188,786	3,116	5,675	129,995	612	917	41
46,949	376,062	29,040	32,529	314,493	2,134	7,115	429	514	6,172	80	114	42
356,848	1,068,170	57,161	68,899	942,110	9,373	21,543	1,484	1,422	18,637	300	462	43
62,412	319,319	27,807	28,612	263,400	23,238	57,416	6,899	6,839	44,178	822	1,660	44
39,700	307,069	26,424	27,894	253,641	1,606	7,956	1,097	1,021	5,838	186	850	45
296,598	811,236	29,425	37,955	743,856	18,002	60,269	1,194	3,787	55,288	429	1,177	46
11,782	81,370	109	219	31,042	28	47		2	45	5	6	47
64,246	88,274	2,781	3,285	82,208	76,538	120,201	552	3,122	116,627	178	301	48
60,010	505,713	47,968	53,414	404,331	3,006	7,313	935	761	5,617	153	238	49
179,845	391,604	24,652	23,752	343,200	116,289	264,248	24,942	23,985	210,321	4,059	9,395	50
357,198	1,393,863	97,846	98,622	1,197,395	192,429	526,651	32,957	41,723	451,971	6,691	18,855	51
24,241	128,886	11,672	13,802	103,412	741	2,277	473	400	1,404	237	927	52
41,910	105,896	2,618	3,986	99,297	159	362	38	19	305	17	30	53
188,560	326,616	19,662	20,690	286,264	26,518	50,576	2,945	4,257	43,374	319	621	54
36,659	266,444	22,740	30,698	213,006	906	3,097	444	332	2,321	90	183	55
82,635	203,285	12,096	13,136	178,053	7,036	14,349	721	911	13,217	110	174	56
196,580	641,493	34,772	42,891	563,880	2,403	4,947	552	425	3,970	165	529	57
12,292	144,914	16,911	19,905	108,098	482	2,047	210	251	1,586	122	466	58

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.² Including 80 Chinese buffaloes and 47 working bullocks.

TABLE 3.—NUMBER OF SPECIFIED DOMESTIC ANIMALS, JUNE 1, 1900, ON FARMS AND RANGES, AND IN BARNES AND INCLOSURES, ELSEWHERE, BY STATES AND TERRITORIES—Continued.

STATES AND TERRITORIES.	SHEEP.					SWINE.		GOATS.	
	All inclo- sures reporting. ¹	Total number.	Lambs un- der 1 year.	Ewes 1 year and over.	Rams and wethers 1 year and over.	All inclo- sures reporting. ¹	Total number, all ages.	All inclo- sures reporting. ¹	Total number, all ages.
The United States ²	771,768	61,837,112	21,719,939	32,058,920	8,058,253	4,798,850	64,694,222	99,701	1,949,605
North Atlantic division.....	122,506	4,296,629	1,723,479	2,295,543	277,607	555,649	2,601,875	9,444	18,670
South Atlantic division.....	107,233	2,714,744	996,762	1,389,605	328,377	838,733	5,791,966	21,962	212,680
North Central division.....	361,395	16,285,035	6,147,034	8,735,900	1,402,101	1,907,647	41,300,299	19,484	130,281
South Central division.....	153,884	4,908,390	1,556,290	2,457,111	894,989	1,367,682	13,480,060	38,923	968,953
Western division.....	26,725	33,530,216	11,278,882	17,119,115	5,132,219	128,513	1,511,955	9,809	618,368
Alabama.....	18,118	323,457	89,041	161,211	73,205	184,657	1,474,347	9,465	122,175
Alaska.....						1	10		
Arizona.....	612	924,884	256,308	452,331	216,245	1,139	18,815	453	99,994
Arkansas.....	18,500	259,595	89,030	132,079	38,486	145,279	1,766,317	4,899	53,616
California.....	3,860	2,581,584	842,900	1,346,103	392,581	29,277	622,365	2,619	112,627
Colorado.....	1,302	2,045,577	692,272	1,090,001	263,804	11,611	104,245	806	41,379
Connecticut.....	1,287	37,136	14,024	20,745	2,367	15,456	51,337	226	550
Delaware.....	468	11,776	4,812	6,360	604	9,865	50,862	90	205
District of Columbia.....	21	30	14	15	1	141	1,134	53	73
Florida.....	887	125,406	21,979	56,231	47,196	32,089	479,899	2,400	45,058
Georgia.....	10,990	342,040	78,581	165,217	98,292	187,612	1,464,465	7,325	86,670
Hawaii.....	25	102,098	17,492	61,646	22,960	625	8,057	19	653
Idaho.....	1,998	3,122,576	1,156,522	1,611,895	354,659	10,664	117,547	71	4,500
Illinois.....	25,849	1,085,472	411,967	577,901	95,604	245,087	6,082,412	3,449	11,861
Indiana.....	48,360	1,748,311	733,523	944,077	70,711	196,238	3,840,784	2,032	5,281
Indian Territory.....	583	17,343	4,510	8,385	4,447	39,538	674,209	802	10,949
Iowa.....	18,997	1,059,575	399,830	577,668	82,077	227,757	9,851,929	3,473	42,275
Kansas.....	2,155	264,045	82,874	134,412	46,759	154,976	3,668,029	1,197	18,899
Kentucky.....	51,059	1,300,832	582,178	649,856	68,798	194,018	2,008,989	2,510	12,603
Louisiana.....	5,885	221,943	50,956	115,374	55,613	76,790	802,317	3,648	40,399
Maine.....	18,962	427,209	169,948	245,537	11,724	40,655	88,563	102	815
Maryland.....	6,453	194,076	80,208	103,139	10,729	50,939	350,812	497	1,563
Massachusetts.....	1,539	54,818	19,307	31,786	3,725	20,118	96,144	479	1,747
Michigan.....	63,739	2,753,083	1,123,441	1,511,712	117,930	152,527	1,188,108	956	3,464
Minnesota.....	28,327	594,066	281,746	332,722	29,538	120,435	1,458,651	663	4,109
Mississippi.....	14,593	315,751	76,921	163,786	75,044	168,808	1,313,624	5,713	57,283
Missouri.....	38,221	1,005,920	424,315	594,967	76,638	244,881	4,634,342	3,344	25,475
Montana.....	1,500	6,170,580	1,955,295	2,995,809	1,219,476	5,365	50,429	66	1,723
Nebraska.....	2,885	517,299	175,456	284,474	57,869	115,441	4,221,094	685	2,783
Nevada.....	268	887,110	318,806	434,591	133,713	1,302	15,665	49	4,652
New Hampshire.....	4,260	105,702	40,049	61,620	4,038	18,776	56,970	87	253
New Jersey.....	1,671	58,031	21,496	34,152	2,383	28,401	201,341	1,275	2,449
New Mexico.....	2,570	4,902,547	1,566,750	2,852,657	483,140	4,949	21,866	3,239	230,352
New York.....	41,146	1,763,794	765,262	950,645	47,887	169,033	728,815	2,683	4,362
North Carolina.....	29,120	303,063	93,416	164,721	44,926	200,168	1,340,478	5,698	44,025
North Dakota.....	5,017	682,391	230,658	340,497	111,236	27,771	194,814	159	1,180
Ohio.....	74,065	4,030,021	1,374,630	2,094,420	560,971	242,041	3,285,789	1,703	6,581
Oklahoma.....	248	71,393	22,837	37,656	10,905	44,635	590,980	302	3,877
Oregon.....	6,781	3,042,767	1,079,559	1,481,172	482,036	23,996	286,541	2,207	109,995
Pennsylvania.....	44,682	1,541,138	574,043	776,252	190,838	234,055	1,265,327	4,446	8,745
Rhode Island.....	341	11,285	4,612	5,940	733	2,402	12,868	63	98
South Carolina.....	3,967	72,060	19,215	40,695	12,150	115,969	631,025	4,004	27,257
South Dakota.....	6,447	775,664	268,145	422,211	85,308	39,637	832,253	291	2,969
Tennessee.....	38,310	499,277	189,456	257,602	52,219	206,452	2,059,896	4,142	27,341
Texas.....	6,588	1,893,794	451,361	931,161	516,272	307,505	2,773,881	7,442	640,710
Utah.....	3,826	3,821,838	1,265,802	1,896,311	659,725	17,671	71,768	105	1,469
Vermont.....	8,618	297,521	114,738	168,866	13,917	26,758	100,510	88	151
Virginia.....	24,906	695,614	301,732	354,985	38,897	160,400	999,272	1,500	6,315
Washington.....	2,904	980,988	372,199	459,755	99,034	20,563	187,104	205	3,008
West Virginia.....	30,421	970,679	396,855	493,242	75,582	31,600	465,029	340	1,619
Wisconsin.....	47,833	1,679,243	690,449	920,839	67,960	140,856	2,042,094	1,472	5,404
Wyoming.....	1,104	5,099,765	1,772,469	2,498,990	828,306	1,976	15,610	49	2,669

¹ Consisting of farms, ranges, stockyards, livery and private stables, manufacturing, lumbering, and mining plants, and all other establishments, rural or urban, reporting.

² Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographical divisions.

CENSUS BULLETIN.

No. 157.

WASHINGTON, D. C.

April 16, 1902.

MANUFACTURES.

NEW JERSEY.

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 New Jersey 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 44 cities and towns in the state withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the census act. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities and towns which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

Fourteen cities in New Jersey contain a population exceeding 20,000 each: Atlantic City, Bayonne, Camden, East Orange, Elizabeth, Hoboken, Jersey City, Newark, New Brunswick, Orange, Passaic, Paterson, Trenton, and West Hoboken. Atlantic City is not, however, a manufacturing city, and therefore was not withdrawn from the enumerators. The manufacturing statistics of the 13 other cities in the above list are presented by specified industries,

and the statistics of Camden, Elizabeth, Hoboken, Jersey City, Newark, Paterson, and Trenton are presented in comparison with the returns of the Eleventh Census. The statistics of Bayonne, East Orange, New Brunswick, Orange, Passaic, and West Hoboken were not shown separately in 1890, and comparisons with that year are, therefore, not possible in these cases.

Mr. William Stainsby, Chief of the New Jersey Bureau of Labor Statistics, rendered valuable assistance in the preparation of the text for the accompanying report.

The statistics of New Jersey 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 15 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the cities of Camden, Elizabeth, Hoboken, Jersey City, Newark, Paterson, and Trenton at the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities and towns withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics for the cities of Bayonne, Camden, East Orange, Elizabeth, Hoboken, Jersey City, Newark, New Brunswick, Orange, Passaic, Paterson, Trenton, and West Hoboken by specified industries; and Table 9 showing the totals for all industries in each of the cities and towns withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in New Jersey 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 tak-

ing 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 New Jersey 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 \$502,824,082 invested in manufactures and mechanical industries in the 15,481 establishments reporting for the state of New Jersey. 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 \$611,748,933, to produce which involved an outlay of \$19,688,946 for salaries of officials, clerks, etc.; \$110,088,605 for wages; \$42,654,076 for miscellaneous expenses, including rent, taxes, etc.; and \$360,945,843 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 New Jersey, \$611,748,933, 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 New Jersey, the gross value of products for 1900 was \$611,748,933. The value of materials purchased in a partly manufactured form was \$256,101,983. The difference, \$355,646,950, 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.

NEW JERSEY.

Table 1 shows the manufacturing and mechanical industries of the state of New Jersey 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 manufac-

turing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

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

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	15,481	9,225	7,128	6,686	4,173	4,207	67.8	20.4	7.4	59.0	10.8
Capital	\$502,824,082	\$250,805,745	\$106,226,593	\$79,606,719	\$40,621,048	\$22,293,258	100.5	186.1	33.4	96.5	81.8
Salaries of officials, clerks, etc., number	16,283	215,620	(³)	(³)	(³)	(³)	19.6				
Salaries	\$19,688,946	\$18,834,618	(³)	(³)	(³)	(³)	42.3				
Wage-earners, average number	241,582	173,778	126,038	75,552	56,027	37,830	39.0	37.9	66.8	84.8	48.1
Total wages	\$110,088,005	\$82,944,118	\$46,083,045	\$32,648,409	\$16,277,337	\$9,364,740	32.7	80.0	41.1	100.6	73.8
Men, 16 years and over	181,879	131,370	86,787	58,115	43,198	29,068	38.4	51.4	49.3	34.5	48.6
Wages	\$94,463,105	\$72,939,325	(³)	(³)	(³)	(³)	30.6				
Women, 16 years and over	51,661	37,095	27,099	11,198	12,829	8,762	39.3	36.9	142.0	112.7	46.4
Wages	\$14,281,265	\$9,816,208	(³)	(³)	(³)	(³)	45.5				
Children, under 16 years	8,042	5,313	(³)	(³)	(³)	(³)	51.4	156.3	94.8		
Wages	\$1,344,235	\$795,585	(³)	(³)	(³)	(³)	69.0				
Miscellaneous expenses	\$42,654,076	\$18,458,052	(³)	(³)	(³)	(³)	131.1				
Cost of materials used	\$360,945,843	\$189,365,740	\$165,285,779	\$103,415,245	\$41,429,100	\$22,011,871	90.6	14.6	59.8	149.6	88.2
Value of products, including custom work and repairing	\$611,748,933	\$354,578,571	\$254,380,236	\$169,237,732	\$76,306,104	\$39,851,256	72.5	39.4	50.3	121.8	91.5
Total population	1,883,669	1,444,938	1,131,116	906,096	672,035	489,555	30.4	27.7	24.8	34.8	37.3
Wage-earners engaged in manufactures	241,582	173,778	126,038	75,552	56,027	37,830	39.0	37.9	66.8	84.8	48.1
Per cent of total population	12.8	12.0	11.1	8.3	8.3	7.7					
Assessed value of real estate	\$774,935,591	\$562,375,791	\$442,632,638	\$448,892,127	\$151,161,942	\$153,151,619	37.8	27.1	11.4	196.9	11.3
Value of land and buildings invested in manufactures ⁶	\$118,767,360	\$66,835,493	(³)	(³)	(³)	(³)	77.7				
Per cent of assessed value	15.3	11.9									

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 Tenth Annual Report of the State Board of Taxation of the state of New Jersey, for the year ending October 31, 1900, page 11.

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 New Jersey during the half century. The population during these years increased from 489,555 to 1,883,669, while the average number of wage-earners employed in manufacturing establishments increased from 37,830 to 241,582, embracing, in 1900, 12.8 per cent of the entire population, compared with 7.7 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 307,933, or 16.3 per cent of the total population of the state. The greatest percentage of increase in the value of products, 121.8, is shown for the decade ending with 1870, but the greatest absolute increase, \$257,175,362, was between the years 1890 and 1900.

In the value of manufactured products New Jersey ranked sixth in the United States at the censuses of 1870, 1880, 1890, and 1900. Among the causes of the great development in productive industry, indicated in Table 1, are the exceptionally favorable geographical position of the state, and the transportation facilities furnished by the railroads which connect its manufacturing centers with the Hudson River, New York Bay, Staten Island Sound, and Raritan Bay. There are seven trunk-line railroad systems

in the state, all having terminals close to New York Bay, the total mileage in 1899 being 2,242 miles.¹ It is necessary to transport the coal needed for manufacturing over comparatively short distances, the center of the anthracite coal district of Pennsylvania being but about fifty miles from the western border of the state, and one hundred and twenty-five miles from the eastern border. Much of the pig iron used by manufacturers comes from Morris and Warren counties, in the northern part of the state.² Four railroad lines connect this region with the chief manufacturing centers. The industrial growth of the state has been stimulated also by the proximity to the markets of New York city on the east and Philadelphia on the west.

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.

¹ Interstate Commerce Commission, Statistics of Railways in the United States, 1899, page 12.

² Report of the New Jersey Bureau of Statistics, 1895, page 13.

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	17,680	\$503,514,032	18,713	242,096	\$110,128,062	\$42,735,581	\$361,135,755	\$39,193,212	\$256,265,124	\$15,677,339	\$612,423,738
Hand trades ¹	7,180	17,312,747	7,939	22,585	12,581,411	3,064,631	19,636,815	258,141	19,043,102	335,572	45,837,913
Governmental establishments	2	4,750		4	2,204	804	5,380	4,295	720	365	11,961
Educational, eleemosynary, and penal institutions	5	78,844		66	10,482	2,211	21,818		12,636	9,182	56,636
Establishments with a product of less than \$500	2,192	606,356	2,275	444	26,771	78,490	162,714	12,929	149,785		606,208
All other establishments	8,301	485,511,335	8,499	218,997	97,507,194	39,589,445	341,309,028	88,917,877	237,058,881	15,332,270	565,911,020

¹Includes bicycle and tricycle repairing, 300; blacksmithing and wheelwrighting, 1,183; boots and shoes, custom work and repairing, 969; carpentering, 889; clothing, men's, custom work and repairing, 632; clothing, women's, dressmaking, 550; dyeing and cleaning, 46; furniture, cabinetmaking, repairing, and upholstering, 215; lock and gun smithing, 63; masonry, brick and stone, 297; millinery, custom work, 303; painting, house, sign, etc., 678; paper hanging, 66; plastering and stuccowork, 34; plumbing, and gas and steam fitting, 639; sewing machine repairing, 12; taxidermy, 6; watch, clock, and jewelry repairing, 298.

Of the 17,680 establishments of all classes shown in this table, 9,372, or 53 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

\$46,444,121, or only 7.6 per cent of the total value of the products of the state.

In addition to the 17,680 active establishments in the state during the census year, with a capital of \$503,514,032, shown in Table 2, there were 92 idle establishments, with a capital of \$5,362,986, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Babbitt metal and solder	1	\$17,400	Ice, manufactured	1	\$39,500
Boots and shoes, factory product	1	18,800	Iron and steel	5	1,169,943
Boots and shoes, rubber	1	105,000	Leather, tanned, curried, and finished	3	25,300
Brick and tile	6	164,850	Lime and cement	1	500,000
Carpets and rugs, other than rag	2	24,000	Matches	1	20,000
Chemicals	1	30,225	Paving and paving materials	2	36,860
Electrical apparatus and supplies	2	365,000	Paper and wood pulp	2	48,852
Explosives	1	65,000	Pottery, terra cotta, and fire-clay products	5	120,967
Flouring and grist mill products	5	61,700	Saddlery and harness	1	13,500
Fruits and vegetables, canning and preserving	3	25,000	Shipybuilding, iron and steel	2	2,188,940
Glass	8	84,700	Silk and silk goods	11	57,810
Hats and caps, not including fur hats and wool hats	3	50,000	Worsted goods	1	63,539
Hosiery and knit goods	2	19,200	All other industries	21	46,840

TABLE 3.—COMPARATIVE SUMMARY OF FIFTEEN 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	1,780	\$260,301,975	117,008	\$52,825,741	\$24,864,284	\$141,610,284	\$258,421,105
	1890	1,307	133,261,968	77,974	30,523,518	9,437,602	84,675,069	156,491,146
Increase, 1890 to 1900		413	127,040,007	39,034	16,302,223	15,426,782	56,935,215	101,929,959
Per cent of increase		30.2	95.3	50.1	44.6	168.5	67.2	65.1
Per cent of total of all industries in state	1900	11.5	51.8	48.4	48.0	58.3	39.2	42.2
	1890	14.8	53.1	44.9	44.0	51.1	44.7	44.1
Chemicals	1900	61	17,284,675	3,048	1,575,132	633,013	6,994,503	12,207,289
	1890	44	7,931,419	1,712	919,440	393,494	5,026,040	8,146,795
Electrical apparatus and supplies	1900	35	7,380,139	2,798	1,514,333	769,135	2,996,908	6,447,154
	1890	3	562,768	425	193,339	58,179	203,163	744,274
Foundry and machine shop products	1900	353	31,550,637	17,918	9,375,824	1,908,216	14,879,987	32,621,229
	1890	249	19,094,636	12,793	7,159,040	947,217	9,967,500	21,666,955
Glass	1900	26	5,397,662	5,883	2,462,745	241,655	1,488,700	5,093,822
	1890	34	3,744,894	5,088	2,730,100	116,009	1,310,953	5,218,152
Iron and steel	1900	25	19,971,609	8,288	3,892,941	1,146,984	16,310,425	24,881,699
	1890	28	11,547,362	5,150	2,546,791	634,963	7,081,046	11,018,575
Jewelry	1900	100	5,523,452	2,779	1,563,973	420,248	3,828,855	7,379,777
	1890	74	3,303,015	1,757	1,116,835	173,407	2,357,326	4,724,500
Leather, tanned, curried, and finished	1900	77	9,906,119	4,178	2,057,197	507,753	9,532,507	13,747,155
	1890	31	1,185,362	706	415,516	57,320	1,961,634	2,780,016
Liquors, malt	1900	45	26,380,466	1,723	1,360,915	6,739,772	2,782,420	14,386,456
	1890	34	10,184,540	1,174	949,661	2,490,157	3,582,491	10,018,393
Lumber, planing mill products, including sash, doors, and blinds	1900	113	3,985,044	1,993	1,060,680	186,678	2,902,997	5,107,217
	1890	101	2,761,927	1,635	979,463	126,174	2,996,817	4,869,372

TABLE 3.—COMPARATIVE SUMMARY OF FIFTEEN 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.			
Petroleum, refining	1900	4	\$23,332,426	2,951	\$1,768,768	\$551,211	\$26,710,213	\$29,649,460
	1890	4	16,500,780	2,610	1,489,588	241,188	16,474,022	20,711,826
Pottery, terra cotta, and fire-clay products	1900	81	15,324,966	8,117	3,841,404	792,475	2,384,059	8,940,723
	1890	60	5,478,332	4,425	2,354,833	467,993	1,366,834	5,165,537
Rubber and elastic goods	1900	37	6,078,155	2,609	1,150,503	409,202	5,696,006	8,458,274
	1890	12	1,458,691	926	392,030	128,136	1,157,124	2,135,705
Sewing machines and attachments	1900	4	4,317,636	4,701	2,809,523	103,801	2,717,907	6,643,348
	1890	3	5,237,855	3,931	2,071,833	283,620	761,365	4,177,330
Textiles:								
Total	1900	321	75,915,746	46,932	17,159,450	7,317,381	38,942,798	72,921,528
	1890	242	42,913,166	33,860	12,706,529	2,951,991	29,662,896	52,855,496
Carpets and rugs, other than rag	1900	13	1,487,031	1,171	379,423	45,610	867,950	1,522,827
	1890	6	724,393	579	187,354	30,502	430,917	817,242
Cotton goods, including cotton small wares	1900	25	14,399,291	5,631	1,930,940	428,334	3,157,768	6,980,766
	1890	17	13,519,972	5,632	1,984,659	194,474	3,023,933	5,902,615
Dyeing and finishing textiles	1900	59	11,000,695	7,074	3,003,491	809,580	4,513,768	10,488,963
	1890	41	5,197,403	3,735	1,878,137	752,461	2,711,121	6,133,397
Hosiery and knit goods	1900	16	1,973,482	1,841	446,603	122,374	997,110	1,748,148
	1890	15	1,352,143	1,250	312,564	101,146	582,788	1,091,403
Shoddy	1900	4	538,936	156	56,027	25,798	526,402	685,048
	1890	4	193,225	117	35,605	20,150	301,113	389,640
Silk and silk goods	1900	180	29,285,792	24,157	9,232,532	4,396,595	21,631,118	39,966,662
	1890	132	16,809,927	17,445	6,634,610	1,356,137	17,908,883	30,760,371
Woolen goods	1900	13	4,549,798	2,942	1,013,232	461,513	2,700,889	4,755,393
	1890	21	3,810,832	4,165	1,402,158	405,715	3,281,979	5,652,166
Worsted goods	1900	11	12,080,721	3,910	1,097,197	527,627	4,547,694	6,823,721
	1890	6	1,305,271	937	271,442	91,406	1,417,167	2,058,062
Tobacco:								
Total	1900	498	8,003,163	3,595	1,232,353	3,132,780	3,441,994	10,435,974
	1890	443	1,366,671	1,132	518,820	367,649	803,853	2,253,220
Chewing, smoking, and snuff	1900	12	6,692,041	1,955	527,195	2,713,031	2,424,108	7,783,379
	1890	4	511,113	131	46,690	134,322	111,095	343,614
Cigars and cigarettes	1900	486	1,311,122	1,640	705,158	419,729	1,017,886	2,647,595
	1890	444	1,055,553	1,031	472,130	233,327	694,763	1,909,406

The 15 leading industries of the state in 1900, as shown in Table 3, embraced 1,780 establishments, or 11.5 per cent of the total number in the state; used a capital of \$260,301,975, or 51.8 per cent of the total; gave employment to 117,008 wage-earners, or 48.4 per cent of the total number; and paid \$52,825,741, or 48 per cent of the total wages. The value of their products was \$258,421,105, or 42.2 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 textiles is the most important industry in the state. The 321 establishments reported in 1900 gave employment to 46,932 wage-earners, or 19.4 per cent of the wage-earners employed in the state, and their products were valued at \$72,921,528, or 11.9 per cent of the total value of the products of the state. In 1890 there were 242 establishments, 33,860 wage-earners, and products valued at \$52,855,496. The increase in the value of products during the decade was \$20,066,032, or 38 per cent. The textiles here shown are: Carpets and rugs, other than rag; cotton goods, including cotton small wares; dyeing and finishing textiles; hosiery and knit goods; shoddy; silk and silk goods; woolen goods; and worsted goods.

There were 180 establishments engaged in the manufacture of silk and silk goods in 1900, with 24,157 wage-

earners, and products valued at \$39,966,662. In 1890 there were 132 establishments, 17,445 wage-earners, and products valued at \$30,760,371. The increase in the value of products during the decade was \$9,206,291, or 29.9 per cent.

The silk industry was begun in Paterson about 1840 by Christopher Colt, a brother of Samuel Colt, the inventor of the revolving pistol, and the first silk mill was established in a floor of a building which the latter had erected for the manufacture of pistols. Use was made of water-power derived from the Passaic River, which has been so important a factor in the industrial development of the city. This mill, although equipped with the best machinery, was not successful under Mr. Colt's management, and was closed in about four months. John Ryle, who had learned the art of silk manufacture in England, was the next to engage in the industry in Paterson, and to his skill, energy, and perseverance were due the first successful operations in the state. John Ryle and G. W. Murry, who had had some experience in a silk mill at Northampton, Mass., purchased the Colt mill at Paterson with its entire outfit. No attempt was made to weave broad goods until 1846 when Mr. Ryle, who had become sole owner of the mill, succeeded in weaving pieces of dress silk of several hundred yards length. For nearly twelve years from its foundation this mill was the only

one in Paterson.¹ In 1852 John C. Benson erected a small mill, and in 1854 the firm of Hamill & Booth began business. Both partners were throwsters, who had previously confined their operations to their particular branch of the industry. Like other throwsters, however, they were compelled to take up the business of weaving or leave the silk industry, for the larger firms were then doing their own throwing.

The great growth of the silk industry in Paterson began during the decade ending with 1870. Great amounts of capital were invested and large mills were erected. The number of establishments increased from 8 to 29, and the value of products from \$960,900 to \$4,495,564. Paterson has now become the greatest center of silk production in the United States. Large mills have grown up in other towns in the northern and middle sections of New Jersey, but this city still maintains its preeminence in the industry. Proximity to New York city, the principal market for the sale of silk goods, was one of the influences favorable to the growth of the silk industry at Paterson. Of equal importance were the waterpower of the Passaic River, the facilities for cheap transportation afforded by the Morris and Essex Canal, and, later, by the railroads, and the available supply of labor. Paterson, at an early period, had drawn together a large laboring population. The men were employed largely in machine shops, and their wives and children were glad to take employment in the new industry.

There were 59 establishments engaged in the dyeing and finishing of textiles in 1900, with 7,074 wage-earners, and the work done was valued at \$10,488,963. In 1890 there were 41 establishments, 3,735 wage-earners, and the work done was valued at \$6,183,397. The increase during the decade in the value of the work done was \$4,305,566, or 69.6 per cent.

There were 25 establishments engaged in the manufacture of cotton goods, including cotton small wares, in 1900, with 5,681 wage-earners, and products valued at \$6,930,766. In 1890 there were 17 establishments, 5,632 wage-earners, and products valued at \$5,902,615. The increase in the value of products during the decade was \$1,028,151, or 17.4 per cent.

There were 11 establishments engaged in the manufacture of worsted goods in 1900, with 3,910 wage-earners, and products valued at \$6,823,721. In 1890 there were 6 establishments, 937 wage-earners, and products valued at \$2,058,662. The increase in the value of products during the decade was \$4,765,059, or 231.5 per cent.

There were 13 establishments engaged in the manufacture of woolen goods in 1900, with 2,942 wage-earners, and products valued at \$4,755,393. In 1890 there were 21 establishments, 4,165 wage-earners, and products valued at \$5,652,166. The decrease in the value of products during the decade was \$896,773, or 15.9 per cent.

There were 16 establishments engaged in the manufac-

ture of hosiery and knit goods in 1900, with 1,841 wage-earners, and products valued at \$1,748,148. In 1890 there were 15 establishments, 1,250 wage-earners, and products valued at \$1,091,403. The increase in the value of products during the decade was \$656,745, or 60.2 per cent.

There were 13 establishments engaged in the manufacture of carpets and rugs, other than rag, in 1900, with 1,171 wage-earners, and products valued at \$1,522,827. In 1890 there were 6 establishments, 579 wage-earners, and products valued at \$817,242. The increase in the value of products during the decade was \$705,585, or 86.3 per cent.

There were 4 establishments engaged in the manufacture of shoddy in 1900, with 156 wage-earners, and products valued at \$685,048. In 1890 there were 4 establishments, 117 wage-earners, and products valued at \$389,640. The increase during the decade was \$295,408, or 75.8 per cent.

The manufacture of foundry and machine shop products ranked second among the industries of the state in 1900, with 353 establishments, 17,918 wage-earners, and products valued at \$32,621,229. In 1890 there were 249 establishments, 12,793 wage-earners, and products valued at \$21,666,955. The increase in the value of products during the decade was \$10,954,274, or 50.6 per cent. With the exception of 1 large establishment in Camden and 1 in Phillipsburg, the great machine shops and foundries are located in the large cities and towns of the middle section of the state. The greatest number are in Newark, Jersey City, Hoboken, Paterson, Plainfield, and Elizabeth. The superior railroad facilities for the transportation of coal and iron have been the most important factor in the development of this industry. During the past ten years many firms engaged in it have moved their works from New York city because of the combined advantages of cheap land for building purposes and efficient railroad service.

There were 4 establishments engaged in 1900 in the refining of petroleum, the industry third in rank, with 2,951 wage-earners, and products valued at \$29,649,460. In 1890 there were 4 establishments, 2,610 wage-earners, and products valued at \$20,711,826. The increase in the value of products during the decade was \$8,937,634, or 43.2 per cent.

The refining of petroleum is a comparatively new industry in New Jersey. The first large plant was established about 1875 at Bayonne on the water front facing the Kill van Kull and New York Bay. This site was selected because the surrounding deep water permitted ocean-going ships to be loaded at the docks. The works have grown to immense size. There are 3 companies engaged in the industry at Bayonne and 1 at Edgewater on the Hudson River. During 1900 these 4 establishments used 12,136,537 barrels of crude petroleum, and their products included illuminating and lubricating oils, naphtha, tar, fuel oil, paraffine oil and wax, acid oil, benzine, oil of vitriol, and other articles.

There were 25 establishments engaged in the manufacture of iron and steel in 1900, with 8,288 wage-earners,

¹ History of the Silk Industry in America, by L. P. Brockett, pages 110-112.

and products valued at \$24,381,699. In 1890 there were 28 establishments, 5,150 wage-earners, and products valued at \$11,018,575. The increase in the value of products during the decade was \$13,363,124, or 121.3 per cent. The beginning of this industry dates back to a very early period in the history of the state. One of the largest as well as the oldest manufactories of pig iron is at Oxford in Warren county. Furnaces were established there, and also at Phillipsburg, Hackettstown, Port Oram, and Stanhope, because of the local supplies of iron ore.¹ The rolling mills and steel works are distributed over that part of the state which lies between Dover and Trenton. In and about the city of Newark there are two large plants where crucible steel of a high grade is manufactured. Large establishments are also located at Boonton, Dover, Phillipsburg, Paterson, Passaic, and Trenton. One of these, located in the last-named city, employed more than 2,250 wage-earners in 1900, and its products, principally steel wire, are sent to all parts of the world.

There were 45 establishments engaged in the manufacture of malt liquors in 1900, with 1,723 wage-earners, and products valued at \$14,386,456. In 1890 there were 34 establishments, 1,174 wage-earners, and products valued at \$10,018,393. The increase in the value of products during the decade was \$4,368,063, or 43.6 per cent. The manufacture of malt liquors is one of the leading industries of the state. Newark is the principal center of this industry, 19 of the 45 establishments in operation in 1900 being in that city. There were some small breweries of ale in Newark at an early period in the history of the city, but the great breweries of lager beer, ale, and porter now located there have grown from the small beginnings made by German refugees and immigrants, who came to Newark in large numbers after the revolution of 1848. Wherever these people settled in sufficient numbers brewing sooner or later sprang up.

There were 77 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 4,178 wage-earners, and products valued at \$13,747,155. In 1890 there were 31 establishments, 706 wage-earners, and products valued at \$2,780,016. The increase in the value of products during the decade was \$10,967,139, or 394.5 per cent. This industry is one in which New Jersey, and particularly the city of Newark, has held a leading place from a very early period. A small tannery was erected in Newark in 1770 and operated until the outbreak of the Revolutionary War. In 1792 there were 3 small tanneries there, and another, larger than its predecessors, was started in 1827 by the founders of a well-known firm which is still engaged in the industry. In 1837 there were 155 curriers and patent-leather makers in that city, and the tanned and curried products were valued at \$899,200.² The business grew steadily in different parts of the state, but the growth was greatest in Newark, the

largest establishments as a rule locating there. During the decade between 1860 and 1870 there was an immense advance, the city of Newark practically monopolizing the industry. In the next decade the growth of the industry was very much stimulated by the products displayed by Newark leather manufacturers at the Centennial Exposition. Large factories became the rule, as is seen by the fact that while the number of establishments decreased between 1870 and 1880, the increase in the value of products was very great. In 1887, owing to a prolonged strike and other disturbing influences, the leather industry in Newark received a setback, and conditions had not become normal at the census of 1890. Work had been suspended in many factories and the falling off in value of products was very marked. Since that date conditions have improved again, Newark still maintaining its preeminence in the industry.

There were 61 establishments engaged in the manufacture of chemicals in 1900, with 3,048 wage-earners, and products valued at \$12,207,289. In 1890 there were 44 establishments, 1,712 wage-earners, and products valued at \$8,146,795. The increase in the value of products during the decade was \$4,060,494, or 49.8 per cent. A majority of the establishments engaged in this industry are located in Newark, Camden, and Bayonne.

There were 498 establishments engaged in the manufacture of tobacco in 1900, with 3,595 wage-earners, and products valued at \$10,435,974. In 1890 there were 448 establishments, 1,182 wage-earners, and products valued at \$2,258,220. The increase in the value of products during the decade was \$8,177,754, or 362.1 per cent.

There were 81 establishments engaged in the manufacture of pottery, terra cotta, and fire-clay products in 1900, with 8,117 wage-earners, and products valued at \$8,940,723. In 1890 there were 60 establishments, 4,425 wage-earners, and products valued at \$5,165,537. The increase in the value of products during the decade was \$3,775,186, or 73.1 per cent.

The name of New Jersey is intimately associated with this manufacture. Brick clay is found in every county in the state, but in some the deposits are small. With the exception of some porcelain clays found in the northern part of the state and some in Mercer county, substantially all the valuable clays and sands which form the basis of the pottery industry are mined in Middlesex county, in the neighborhood of Woodbridge and Perth Amboy. The hundreds of clay and sand pits are fortunately so situated that none of them is more than three miles from the navigable waters of Staten Island Sound, the Raritan River, or the South River. Stimulated by these advantages, immense works have been constructed in this section of the state in which architectural terra cotta, fire brick, common and front building brick, gas retorts, stove lining, sewer pipe, and roofing tile are made and distributed to all parts of the United States. The city of Trenton is, however, the most famous pottery center of New Jersey, its name being as naturally associated with the industry in the

¹History of Sussex and Warren counties, by Col. Charles Scranton, pages 78 and 80.

²The New Jersey Register, 1837, pages 246 and 247.

United States as are the names of Staffordshire, Dresden, and Sevres with the industry in Europe. The finest qualities of porcelain, granite, and white ware are produced in this city, and in the production of sanitary ware Trenton leads all other centers.

The first pottery works in New Jersey were erected at Old Bridge, Middlesex county, but the first white ware with any pretensions to artistic beauty was made by the American Pottery Company at Jersey City in 1829. In 1852 the pottery industry of Trenton was begun by James Taylor, in partnership with a man named Speeler.¹ Mr. Taylor had been previously engaged in this manufacture in Jersey City. Yellow and Rockingham ware were successfully made and some experiments tried with porcelain. In 1856 the firm made white-granite ware in connection with its other products, and the same year received the Franklin medal in recognition of what had been accomplished. In 1857 the Excelsior Pottery Company was organized and erected large works along the banks of the Delaware and Raritan Canal. Many who subsequently became successful pottery owners or managers received their training in these works. The first pottery for the production of white-granite and cream colored ware was established in 1859 by the firm of Rhodes & Yates, and other master potters soon followed their example.

The Centennial exhibition in 1876 opened a new era in the pottery industry. The ivory porcelain and Parian vases exhibited there by Trenton manufacturers attracted much attention and greatly lessened the popular prejudice in favor of foreign-made pottery. The stimulus thus given called into existence many new establishments, some of which afterwards became famous in the industry. Hitherto there had been little disposition on the part of practical master potters to go beyond the making of such ware as was put to the most ordinary uses. But as a result of competition, higher grades of ware, more artistic shapes, and better glazes began at this time to take the place of the less perfect products of the kilns. Employers and workmen grew in experience and skill, the old conservatism was abandoned, and the reputation of Trenton pottery products became established.

There were 37 establishments engaged in the manufacture of rubber and elastic goods in 1900, with 2,609 wage-earners, and products valued at \$8,458,274. In 1890 there were 12 establishments, 926 wage-earners, and products valued at \$2,135,705. The increase in the value of products during the decade was \$6,322,569, or 296 per cent. This increase was greater than is shown for any other manufacture carried on in the state, excepting leather. In 1860 there were but 5 establishments reported, 1 in Newark and 4 in New Brunswick, and the products were valued at \$1,303,000. The great increase in this manufacture occurred during the three years between 1897 and 1900, and was caused to some extent by the consolidation of New Jersey companies with competing companies outside

of the state, but it is chiefly due to the general industrial growth which so largely affected all industries during that period.

There were 100 establishments engaged in the manufacture of jewelry in 1900, with 2,779 wage-earners, and products valued at \$7,379,777. In 1890 there were 74 establishments, 1,757 wage-earners, and products valued at \$4,724,500. The increase in the value of products during the decade was \$2,655,277, or 56.2 per cent. In 1900, as in 1890, only 3 states, Rhode Island, Massachusetts, and New York, ranked higher than New Jersey in this industry. The manufacture was established in Newark about the year 1830.² Solid gold jewelry was made and the city acquired a reputation for fine work which it still maintains. All kinds and grades of solid and filled jewelry are now made in the state. The machinery employed is of the latest type, and the workmen engaged in the industry are among the most skillful to be found anywhere.

There were 4 establishments engaged in the manufacture of sewing machines in 1900, with 4,701 wage-earners, and products valued at \$6,643,348. In 1890 there were 3 establishments, 3,931 wage-earners, and products valued at \$4,177,330. The increase in the value of products during the decade was \$2,466,018, or 59 per cent. The manufacture of sewing machines was begun in Newark about 1870. In 1873 an immense plant was moved from New York city to Elizabeth, N. J., and located on the water front facing the Kill van Kull. The main building in which the enterprise is now carried on is five stories in height and more than one-third of a mile long, and 4,500 wage-earners are employed. The sewing machine made when the industry was started in Elizabeth had a capacity of 700 stitches per minute; the capacity of the machine now made is 3,500 stitches.

There were 35 establishments engaged in the manufacture of electrical apparatus and supplies in 1900, with 2,793 wage-earners, and products valued at \$6,447,154. In 1890 there were 3 establishments, 425 wage-earners, and products valued at \$744,274. The increase in the value of products during the decade was \$5,702,880, or 766.2 per cent.

There were 113 establishments engaged in the manufacture of planing mill products in 1900, with 1,993 wage-earners, and products valued at \$5,107,217. In 1890 there were 101 establishments, 1,635 wage-earners, and products valued at \$4,869,372. The increase in the value of products during the decade was \$237,845, or 4.9 per cent.

There were 26 establishments engaged in the manufacture of glass in 1900, with 5,383 wage-earners, and products valued at \$5,093,822. In 1890 there were 34 establishments, 5,688 wage-earners, and products valued at \$5,218,152. The decrease in the value of products during the decade was \$124,330, or 2.4 per cent. This manufacture is confined to the southern part of the state, where an abundance of fine sand of the quality required for making

¹Report of the Bureau of Statistics of New Jersey, 1883, page 254.

²New Jersey Register, 1837, page 246.

glass is to be found. Bridgeton and Millville are the principal centers. The first glasshouse in the state of which there is any record was built about 1765, near Alloway, Salem county, for the manufacture of bottles, by a German workman who brought men skilled in the industry from his native country.¹ The works were closed about the time of the outbreak of the Revolutionary War, and the men employed started a new glasshouse at Glassboro. One

¹ Report of the Bureau of Statistics of New Jersey, 1883, page 289.

of the largest window and bottle plants in the state is still owned and managed by the descendants of the men who started it nearly one hundred and twenty-five years ago.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Camden, Elizabeth, Hoboken, Jersey City, Newark, Paterson, and Trenton, as returned at the censuses of 1890 and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, CAMDEN, ELIZABETH, HOBOKEN, JERSEY CITY, NEWARK, PATERSON, AND TRENTON, 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	15,481	\$502,824,082	241,582	\$110,088,005	\$42,051,076	\$360,945,848	\$611,748,933
Per cent of increase.....	1890	9,225	250,805,745	173,778	82,944,118	18,458,052	189,805,740	364,578,571
		67.8	100.5	39.0	32.7	181.1	90.6	72.6
Camden.....	1900	817	16,480,611	8,941	3,824,484	1,487,751	11,499,151	20,451,874
Per cent of increase.....	1890	658	15,244,506	9,444	4,759,182	709,452	11,816,151	21,145,637
		24.2	7.8	15.3	119.6	109.7	12.7	13.3
Elizabeth.....	1900	419	15,665,545	10,497	6,024,497	1,351,411	9,882,821	20,546,468
Per cent of increase.....	1890	190	7,785,558	6,268	3,351,348	371,214	4,511,626	10,489,864
		120.5	101.2	67.5	79.8	264.1	119.1	95.9
Hoboken.....	1900	899	8,381,015	6,443	3,076,235	878,470	5,724,626	12,092,872
Per cent of increase.....	1890	289	3,948,782	2,982	1,899,628	228,743	3,585,921	7,151,391
		38.1	111.0	116.1	61.9	284.0	59.6	69.1
Jersey City.....	1900	965	80,327,678	19,499	9,126,042	6,528,570	52,254,465	77,225,116
Per cent of increase.....	1890	726	18,165,094	11,412	6,243,882	1,893,926	28,206,884	37,376,322
		32.9	342.2	70.9	46.2	244.7	125.2	106.6
Newark.....	1900	3,839	103,191,403	49,550	23,999,442	10,050,907	67,105,944	120,954,049
Per cent of increase.....	1890	2,490	62,552,752	42,719	22,187,534	6,112,289	46,020,536	93,470,652
		34.1	65.0	16.0	8.4	64.4	45.8	85.8
Paterson.....	1900	995	43,510,481	30,190	12,812,538	5,059,521	26,882,183	52,287,075
Per cent of increase.....	1890	599	27,003,549	23,198	10,439,725	2,143,313	22,480,727	42,263,531
		66.1	57.6	30.1	22.7	186.1	19.6	23.7
Trenton.....	1900	570	26,174,895	14,457	6,791,026	2,057,474	18,057,504	31,645,095
Per cent of increase.....	1890	885	19,278,041	13,763	6,884,404	1,319,216	12,625,400	25,628,223
		195.6	35.8	5.0	10.6	56.0	43.0	23.5
Total for 7 cities.....	1900	7,504	293,631,628	139,577	65,654,214	27,414,104	191,406,694	341,204,049
Per cent of increase.....	1890	5,887	154,578,277	109,786	55,665,703	12,778,103	124,247,195	237,581,120
		28.6	90.0	27.1	17.9	114.5	54.1	43.6
Per cent of 7 cities to total for state.....	1900	48.5	58.4	57.8	59.6	64.3	53.0	55.8
	1890	63.3	61.6	63.2	67.1	69.2	65.6	67.0

¹ Decrease.

It appears from Table 4 that there has been an increase during the past decade in the combined manufactures of these 7 cities. The number of establishments increased from 5,887 to 7,504, or 28.6 per cent; the average number of wage-earners from 109,786 to 139,577, or 27.1 per cent; and the value of products from \$237,531,120 to \$341,204,049, or 43.6 per cent. The percentage of increase in each of these particulars has been smaller in these 7 cities than in the state as a whole. Jersey City shows the most rapid growth, the value of products having increased from \$37,376,322 to \$77,225,116, or 106.6 per cent. In Newark, the leading city, the number of establishments increased from 2,490 to 3,839, or 34.1 per cent;

the average number of wage-earners from 42,719 to 49,550, or 16 per cent; and the value of products from \$93,476,652 to \$126,954,049, or 35.8 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 21.6, 20.5, and 20.8 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 44 cities and towns withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities and towns, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state	15,481	\$502,824,082	16,438	241,582	\$110,088,605	\$42,654,076	\$360,945,843	\$611,748,933	-----	100.0	1,883,669	-----	100.0
Total for urban manufactures ..	11,115	411,782,271	11,802	196,901	91,213,543	36,105,081	283,389,581	486,571,878	-----	79.5	1,198,826	-----	63.5
Bayonne	225	26,583,058	236	5,083	2,856,776	805,433	34,094,479	39,352,248	4	6.4	32,722	8	1.7
Bloomfield	150	3,354,149	162	1,840	899,298	256,025	1,895,655	3,860,796	17	0.6	9,668	23	0.5
Boonton	39	575,470	42	574	218,613	43,295	1,009,005	1,458,942	29	0.2	3,901	38	0.2
Bordentown	35	590,439	36	469	123,632	35,555	405,675	663,706	40	0.1	4,110	37	0.2
Boundbrook	47	716,323	44	523	190,005	69,787	852,183	742,374	38	0.1	2,622	43	0.1
Bridgeton	135	2,357,651	154	2,333	836,188	99,557	1,216,192	2,649,919	22	0.4	13,913	18	0.7
Burlington	88	1,471,543	96	1,461	640,453	101,573	1,788,443	2,905,991	21	0.5	7,392	25	0.4
Camden	817	16,430,611	844	8,941	3,824,613	1,487,751	11,499,151	20,451,874	7	3.3	75,935	4	4.0
Dover	56	951,695	56	1,367	657,642	44,333	710,248	1,804,850	27	0.3	5,938	29	0.3
East Orange	167	2,311,585	191	1,354	724,495	350,162	1,583,435	3,463,141	18	0.6	21,506	12	1.1
Elizabeth	419	15,665,545	444	10,497	6,024,497	1,351,411	9,882,821	20,546,468	6	3.4	52,130	7	2.8
Gloucester City	74	3,038,922	75	1,555	585,923	285,658	1,260,002	2,922,242	20	0.5	6,840	27	0.4
Guttenberg	43	802,807	43	125	85,670	62,093	116,433	344,531	41	0.1	3,825	40	0.2
Harrison	79	5,210,605	72	2,933	1,463,285	385,948	3,297,663	6,331,783	11	1.0	10,566	20	0.6
Hoboken	399	8,331,015	432	6,443	3,076,235	878,470	5,724,626	12,092,372	10	2.0	59,364	6	3.2
Irvington	60	365,503	67	331	139,485	67,801	1,138,218	1,773,558	28	0.3	5,255	31	0.3
Jersey City	965	80,327,673	992	19,499	9,126,042	6,528,570	52,254,465	77,225,116	2	12.6	206,433	2	11.0
Kearney	33	2,097,861	32	1,102	417,985	127,612	1,031,948	1,845,587	26	0.3	10,896	19	0.6
Lambertville	70	1,763,221	69	913	367,959	130,697	1,833,515	2,264,223	24	0.4	4,637	34	0.2
Millville	47	3,229,296	50	2,290	1,115,666	177,308	2,610,332	2,610,332	23	0.4	10,583	21	0.6
Montclair	197	1,037,352	207	1,092	619,079	93,462	1,140,753	2,246,817	25	0.4	13,962	17	0.7
Mt. Holly	61	460,559	67	493	167,178	34,014	333,130	699,188	39	0.1	(²)		
Newark	3,339	103,191,403	3,835	49,550	23,999,442	10,050,907	67,105,944	125,954,049	1	20.8	245,070	1	13.1
New Brunswick	193	6,023,086	201	3,726	1,256,034	661,944	2,929,882	5,812,757	12	0.9	20,006	13	1.1
North Plainfield	33	142,524	35	147	77,704	20,829	148,399	312,816	44	(³)	5,009	32	0.3
Orange	284	1,987,457	322	2,712	1,428,284	232,632	2,259,135	4,694,335	15	0.8	24,141	10	1.3
Passaic	185	23,279,421	178	7,102	2,778,278	1,199,108	7,971,505	14,031,254	9	2.3	27,777	9	1.5
Paterson	995	43,510,481	1,074	30,190	12,812,538	5,059,521	26,882,183	52,287,975	8	8.5	105,171	3	5.6
Perth Amboy	129	6,637,766	127	2,258	1,053,242	435,883	11,631,704	14,730,928	8	2.4	17,699	14	0.9
Phillipsburg	87	3,411,239	92	2,560	1,000,331	244,560	2,906,360	4,952,277	14	0.8	10,052	22	0.5
Plainfield	135	2,663,449	143	1,751	970,018	283,858	1,144,724	3,229,969	19	0.5	15,369	15	0.8
Rahway	100	915,208	111	778	407,490	69,085	502,048	1,149,247	34	0.2	7,935	24	0.4
Raritan	27	659,471	27	1,010	299,970	268,974	442,409	1,088,280	35	0.2	3,244	42	0.2
Salem	75	722,434	82	933	316,303	34,012	550,093	1,155,099	33	0.2	5,811	30	0.3
Somerville	88	1,160,976	97	402	235,050	100,710	797,606	1,354,373	31	0.2	4,843	33	0.3
South Amboy	44	282,770	47	238	113,844	11,326	147,865	322,457	43	0.1	6,349	28	0.3
South Orange	45	108,664	53	157	88,740	12,841	165,912	327,552	42	0.1	4,608	35	0.2
Trenton	570	26,174,895	578	14,437	6,791,026	2,057,474	18,057,504	31,645,695	5	5.2	78,307	5	3.9
Union	169	5,618,279	163	1,662	841,247	899,514	1,650,490	3,986,881	16	0.6	15,187	16	0.8
Vineland	68	840,305	68	837	369,976	34,532	775,360	1,450,072	30	0.2	4,370	36	0.2
Washington	41	759,518	43	650	258,050	145,327	446,259	999,262	36	0.2	3,580	41	0.2
West Hoboken	177	4,042,373	191	3,028	1,248,244	677,713	2,829,789	5,491,760	13	0.9	23,094	11	1.2
West Orange	64	1,373,039	70	1,034	499,319	67,783	478,645	1,350,170	32	0.2	6,889	26	0.4
Woodbury	81	1,129,715	79	461	258,467	116,420	378,191	988,612	37	0.2	4,087	38	0.2
Total for state exclusive of urban manufactures ..	4,366	91,041,811	4,636	41,631	18,875,062	6,549,045	77,556,262	125,177,055	-----	20.5	636,843	-----	36.5
Per cent of urban manufactures to total for state ..	71.8	81.9	71.8	81.5	82.9	84.6	78.5	79.5	-----	-----	63.5	-----	-----

¹ Exclusive of population for Mt. Holly.² Figures not available.³ Less than one-tenth of 1 per cent.

Of the 15,481 establishments in the state, 11,115, or 71.8 per cent, were located in these 44 cities and towns. They furnished employment to 196,901 wage-earners, or 81.5 per cent of the total number; and the value of their products, \$486,571,878, formed 79.5 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 Bayonne, Camden, East Orange, Elizabeth, Hoboken, Jersey City, Newark, New Brunswick, Orange, Passaic, Paterson, Trenton, and West Hoboken by specified industries.

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

TABLE 6.—MANUFACTURES

	COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of estab- lish- ments.	CAPITAL.					Propri- etors and firm mem- bers.	SALARIED OF- FICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple- ments.	Cash and sundries.		Num- ber.	Salaries.	Total.	
											Average num- ber.	Wages.
1	The State-----	15,481	\$502,824,082	\$42,589,846	\$76,227,514	\$135,371,296	\$248,685,426	16,438	16,283	\$19,688,946	241,582	\$110,088,605
2	Atlantic-----	286	3,553,220	584,524	873,523	1,054,365	1,040,808	306	87	63,967	2,088	846,785
3	Bergen-----	478	10,817,001	1,342,777	2,033,078	3,780,295	3,660,851	507	328	890,297	5,275	2,276,238
4	Burlington-----	408	5,464,253	868,432	981,706	1,530,633	2,623,482	486	280	300,473	4,981	1,910,658
5	Camden-----	1,009	21,589,016	1,710,427	3,020,322	5,041,322	11,760,945	1,044	862	998,297	11,877	4,740,961
6	Cape May-----	79	525,462	51,244	86,505	262,180	125,533	89	44	24,742	478	196,189
7	Cumberland-----	335	7,112,880	545,948	1,484,020	1,227,317	3,855,595	390	847	320,262	6,278	2,540,746
8	Essex-----	4,461	117,167,724	9,775,648	17,613,770	25,341,048	64,437,258	4,868	5,185	6,327,071	60,810	29,455,134
9	Gloucester-----	248	5,217,338	388,753	1,005,514	846,786	2,976,285	251	242	184,679	2,659	1,146,110
10	Hudson-----	2,200	140,603,466	12,140,583	16,035,359	46,430,585	65,996,929	2,254	3,107	4,009,958	43,515	20,690,557
11	Hunterdon-----	298	4,230,462	329,757	584,385	863,630	2,452,690	298	157	185,113	2,287	930,786
12	Mercer-----	751	27,766,696	3,590,000	5,256,612	5,207,694	13,712,390	775	903	1,064,656	15,580	7,252,320
13	Middlesex-----	551	26,390,004	2,593,168	5,746,684	5,208,358	12,906,794	551	825	1,025,084	11,343	4,578,677
14	Monmouth-----	602	6,847,176	614,147	1,726,585	2,726,278	1,780,166	687	165	143,732	3,325	1,418,840
15	Morris-----	485	9,304,967	772,417	1,692,838	2,687,695	4,152,017	512	386	386,659	5,779	2,650,441
16	Ocean-----	148	418,100	58,517	95,830	109,464	164,289	159	12	10,902	380	181,859
17	Passaic-----	1,288	70,349,231	3,785,755	9,806,101	21,887,208	35,370,169	1,358	1,814	2,434,146	39,443	16,413,869
18	Salem-----	278	2,684,885	167,457	518,965	478,216	1,520,197	236	80	64,445	2,251	763,101
19	Somerset-----	286	3,796,946	289,036	661,480	914,663	1,931,867	296	155	195,821	2,671	1,007,650
20	Sussex-----	188	4,012,336	237,978	575,252	2,073,872	1,125,234	192	104	122,237	1,759	648,281
21	Union-----	780	25,850,924	2,518,169	4,562,661	5,768,276	13,001,818	819	973	1,216,406	14,780	8,466,783
22	Warren-----	327	9,182,055	729,109	2,416,324	1,936,618	4,100,109	350	227	229,999	6,028	1,978,626

TABLE 7.—MANUFACTURES BY

1	All industries	15,481	\$502,824,082	\$42,589,846	\$76,227,514	\$185,371,296	\$248,685,426	16,438	16,283	\$19,688,946	241,582	\$110,088,605
2	Agricultural implements	11	249,957	24,400	55,891	44,935	124,731	13	8	11,289	147	60,088
3	Artificial feathers and flowers	10	33,295	4,665	6,800	2,465	19,465	13			75	20,334
4	Artists' materials	3	137,312	12,804	29,879	60,168	84,961	1	6	9,984	58	26,096
5	Awnings, tents, and sails	38	72,492	6,125	11,125	10,198	45,044	41	7	8,396	115	54,486
6	Babbitt metal and solder	4	79,196	5,000	15,876	9,820	48,500	4	5	3,980	11	6,620
7	Baking and yeast powders	4	242,144	35,000	30,000	30,400	146,744	3	34	35,882	88	29,566
8	Baskets, and rattan and willow ware	50	90,521	12,500	22,430	22,358	33,233	55			109	85,072
9	Belt and hose, leather	8	74,500	2,700	10,500	14,171	47,129	10	4	3,496	50	20,398
10	Belt and hose, rubber	7	2,208,881	59,320	322,567	345,888	1,481,106		77	174,412	776	398,492
11	Bicycle and tricycle repairing	300	377,975	37,346	46,600	95,399	198,631	331	6	8,037	241	106,646
12	Bicycles and tricycles	7	204,405	13,700	16,000	78,668	96,097	3	24	23,457	183	71,843
13	Billiard tables and materials	6	118,611	690	10,800	42,968	64,153	5	10	14,115	75	34,457
14	Blacksmithing and wheelwrighting	1,183	1,816,970	399,438	480,519	264,886	672,127	1,274	8	4,054	1,110	597,006
15	Bookbinding and blank book making	27	135,675	5,100	11,000	61,217	78,358	30	11	8,153	237	82,391
16	Boot and shoe cut stock	6	53,290	9,000	7,500	11,220	25,570	6	3	1,616	78	31,284
17	Boot and shoe findings	10	145,655	6,100	6,175	31,825	101,535	10	14	15,450	128	49,928
18	Boot and shoe uppers	5	6,500	1,600	1,600	610	2,790	6			4	1,860
19	Boots and shoes, custom work and repairing	969	386,991	57,596	82,403	83,625	163,367	988			336	134,556
20	Boots and shoes, factory product	84	3,153,255	68,655	296,541	736,375	2,051,684	86	333	368,068	4,421	1,723,159
21	Bottling	235	1,075,419	163,435	210,825	229,991	465,198	261	57	41,676	479	226,924
22	Boxes, cigar	7	61,475	5,900	15,200	12,618	27,757	8	1	600	41	15,870
23	Boxes, fancy and paper	30	517,284	48,000	109,200	152,215	207,269	35	41	51,323	1,080	274,758
24	Boxes, wooden packing	27	882,822	39,117	68,620	70,398	204,187	28	13	14,795	336	124,492
25	Brass castings and brass finishing	28	1,776,923	138,988	480,892	434,153	722,920	26	43	40,481	538	269,463
26	Brassware	13	342,486	27,000	39,600	120,516	165,370	11	15	21,450	410	136,790
27	Bread and other bakery products	785	3,830,640	703,950	1,437,226	736,010	953,454	831	296	182,753	2,701	1,411,975
28	Brick and tile	76	3,607,413	902,441	970,897	450,797	1,283,278	76	79	83,169	2,370	835,655
29	Bridges	3	107,200	3,300	700	41,500	61,700	3	5	6,000	135	63,753
30	Brooms and brushes	32	471,778	9,870	25,450	65,463	370,995	43	42	37,448	365	137,027
31	Buttons	84	509,681	6,250	34,672	154,036	314,723	43	53	50,299	1,169	410,056
32	Card cutting and designing	14	56,000	800	500	32,075	22,825	17			78	38,117
33	Carpentering	839	4,282,401	680,771	730,475	411,330	2,429,325	1,033	101	97,286	6,534	4,148,963
34	Carpets and rugs, other than rag	13	1,467,031	120,015	260,137	282,860	824,019	3	47	73,197	1,171	379,428
35	Carpets, rag	35	47,227	12,505	20,500	6,050	8,172	40			30	10,654
36	Carriage and wagon materials	20	681,931	32,138	48,301	164,640	446,952	25	38	40,327	518	205,464
37	Carriages and wagons	283	3,457,827	511,404	734,235	507,794	1,704,894	327	110	122,768	1,909	1,077,745
38	Cars and general shop construction and repairs by steam railroad companies	13	2,319,759	404,814	1,218,005	560,030	637,410		179	187,191	4,594	2,399,675
39	Cars and general shop construction and repairs by street railroad companies	8	368,550	100,000	100,000	49,150	119,400		9	6,616	229	145,928
40	Cheese, butter, and condensed milk, factory product	53	242,284	13,735	73,810	97,040	52,699	55	14	4,350	74	36,852
41	Chemicals	61	17,284,675	2,114,179	2,797,240	3,728,737	8,644,519	38	402	577,337	3,048	1,575,132
42	China decorating	10	89,745	4,800	23,958	3,460	53,027	10	8	10,838	147	58,476
43	Cleaning and polishing preparations	3	28,345	1,800	7,000	2,855	16,630	5	2	1,550	17	9,092
44	Clothing, men's, custom work and repairing	632	1,486,293	216,375	218,250	93,647	958,021	679	76	56,432	1,396	675,393
45	Clothing, men's, factory product	106	1,066,378	59,000	134,143	89,755	783,480	124	78	91,563	2,756	1,008,327
46	Clothing, men's, factory product, buttonholes	5	5,563	2,200	2,000	1,303		60			9	2,689

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.						COST OF MATERIALS USED.				Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding 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.											
181,879	\$94,463,105	51,661	\$14,281,265	8,042	\$1,344,285	\$42,654,076	\$3,165,268	\$1,892,699	\$31,374,717	\$6,221,392	\$360,945,843	\$351,076,937	\$9,868,906	\$611,748,933	1	
1,563	722,225	379	97,958	146	26,602	173,354	32,237	17,259	119,688	4,170	1,817,819	1,251,118	66,201	3,114,570	2	
4,221	2,032,974	847	210,154	207	33,105	764,741	51,779	35,179	509,038	168,745	4,920,073	4,675,912	253,161	10,258,432	3	
8,386	1,584,641	1,340	338,191	255	37,826	831,407	28,712	21,939	245,019	35,736	4,935,939	4,782,045	153,894	8,599,363	4	
8,019	8,972,689	2,828	686,138	530	82,139	1,912,473	132,236	74,736	1,260,418	445,083	13,826,067	13,416,013	410,054	25,281,123	5	
355	174,193	105	19,840	13	2,156	27,859	5,303	2,327	16,614	3,615	300,115	288,859	11,256	736,348	6	
4,498	2,181,827	1,320	288,108	460	70,811	348,577	23,204	32,903	277,817	15,153	3,526,560	3,210,562	315,998	7,711,850	7	
46,138	25,468,441	12,735	3,743,001	1,437	243,692	11,426,064	1,115,068	508,466	8,977,696	824,834	79,094,438	77,398,203	1,696,235	150,134,111	8	
2,218	1,058,347	113	22,342	328	65,421	226,158	7,968	16,269	186,336	15,690	1,923,968	1,788,156	135,812	4,220,735	9	
32,836	17,821,504	9,777	2,612,201	1,402	256,852	11,023,244	769,815	472,935	8,517,227	1,263,237	109,051,869	106,808,184	2,243,685	158,370,246	10	
2,011	878,466	238	52,901	38	4,419	278,423	16,237	13,798	236,368	12,020	2,918,949	2,839,036	79,913	5,074,736	11	
12,516	6,507,158	2,663	674,108	401	71,054	2,139,459	109,083	115,014	1,830,259	85,153	19,490,464	18,761,822	723,642	34,254,095	12	
9,814	4,080,117	1,738	440,011	291	47,549	2,252,030	60,041	87,287	1,954,976	149,726	40,486,018	39,784,536	701,482	55,293,129	13	
2,280	1,136,883	1,011	279,668	25	2,789	352,336	57,349	22,612	225,647	46,778	3,205,097	3,112,500	92,597	6,578,956	14	
4,760	2,883,881	843	241,056	176	26,004	615,593	69,713	25,788	387,796	182,296	6,082,090	5,677,051	405,039	11,423,171	15	
845	170,110	31	10,728	4	521	23,085	5,316	1,886	11,831	5,152	391,004	386,408	4,601	796,790	16	
25,641	12,477,992	12,008	3,646,790	1,794	288,587	6,552,662	447,730	274,297	3,555,399	2,275,236	37,219,927	36,126,893	1,093,034	70,708,184	17	
1,492	639,082	592	103,394	167	20,625	199,005	17,535	10,181	169,889	2,300	1,815,159	1,723,940	91,210	3,330,347	18	
1,974	844,842	537	141,155	160	21,653	1,101,209	44,716	18,949	977,529	59,715	2,530,021	2,429,613	100,408	5,432,784	19	
1,310	522,451	395	111,824	54	14,006	193,028	11,085	8,210	90,743	82,990	2,087,329	1,822,067	215,262	3,600,538	20	
13,446	8,125,005	1,265	326,779	69	14,999	2,117,074	135,010	102,147	1,489,111	390,806	20,337,347	19,946,636	390,711	87,146,674	21	
4,047	1,730,277	896	234,923	85	13,425	595,045	25,185	30,517	386,316	153,027	5,527,090	4,847,388	679,702	9,638,751	22	

SPECIFIED INDUSTRIES: 1900.

181,879	\$94,463,105	51,661	\$14,281,265	8,042	\$1,344,285	\$42,654,076	\$3,165,268	\$1,892,699	\$31,374,717	\$6,221,392	\$360,945,843	\$351,076,937	\$9,868,906	\$611,748,933	1
145	59,408	2	675	---	---	23,827	60	1,018	22,449	300	115,697	112,729	2,968	249,963	2
11	3,671	60	15,993	4	670	2,151	1,654	275	822	---	18,148	17,789	359	63,032	3
53	24,738	5	1,358	---	---	7,961	---	447	7,614	---	110,510	107,696	2,614	132,825	4
71	39,145	40	14,826	4	515	8,678	5,619	452	78,619	68	78,619	77,968	651	196,659	5
11	6,620	---	---	---	---	6,833	480	885	5,018	---	226,645	225,375	1,270	259,500	6
38	17,308	45	11,490	5	768	268,834	440	803	267,691	---	507,309	504,054	3,255	1,126,734	7
98	33,071	2	855	9	1,646	2,784	991	383	1,410	---	29,539	28,685	854	3,330,347	8
44	19,748	---	---	6	650	5,437	1,872	590	2,975	---	69,893	68,205	1,188	122,774	9
628	360,201	119	33,031	29	5,260	93,900	---	13,823	78,987	6,096	1,870,352	1,836,579	33,773	2,800,145	10
227	104,124	3	864	11	1,658	54,834	36,262	1,635	15,614	1,323	250,808	244,923	5,885	630,491	11
170	68,185	12	2,972	1	186	19,548	3,490	713	14,540	800	147,317	141,870	5,417	295,226	12
50	26,230	24	8,152	1	75	23,496	3,360	1,050	16,376	2,710	140,754	138,328	2,426	251,966	13
1,096	594,313	---	---	14	2,688	100,231	63,747	11,424	22,351	2,709	684,675	645,381	89,294	2,461,407	14
123	56,414	101	24,312	13	1,665	11,668	7,776	522	8,325	45	68,594	67,058	1,686	237,891	15
40	19,990	38	11,294	---	---	2,905	608	165	2,232	---	112,452	111,875	677	246,070	16
72	34,055	56	15,873	---	---	10,084	2,787	775	5,556	866	130,100	128,710	1,390	286,869	17
4	1,860	---	---	---	---	594	296	64	3,474	---	3,524	3,474	50	8,375	18
327	133,202	1	864	8	990	99,252	85,890	2,270	2,244	1,848	318,093	308,985	9,108	990,480	19
2,740	1,259,819	1,497	427,732	184	35,605	391,043	19,170	8,567	335,220	23,086	4,210,472	4,184,935	25,537	6,978,043	20
467	224,288	7	1,633	5	1,003	142,401	33,118	6,649	102,634	---	1,321,854	1,313,488	8,366	2,196,668	21
15	8,368	26	7,502	---	---	1,342	120	245	977	---	23,536	22,582	1,004	48,351	22
257	100,077	312	173,007	11	1,614	52,446	9,238	2,943	40,265	---	397,996	388,704	9,292	896,902	23
217	101,046	101	20,718	18	2,728	23,430	3,850	1,717	17,863	---	290,222	286,332	3,890	397,000	24
515	265,061	3	951	15	8,461	54,800	7,288	4,859	42,053	600	1,324,073	1,297,176	26,897	1,798,561	25
165	76,318	180	50,370	65	10,102	22,333	1,990	2,100	17,573	700	193,910	187,991	5,919	431,846	26
2,411	1,340,825	226	60,280	64	10,870	874,787	174,405	28,925	171,157	300	4,561,905	4,426,780	135,116	8,183,144	27
2,320	826,598	12	8,807	38	5,250	180,105	28,526	12,229	142,403	1,947	819,637	93,024	226,613	1,845,950	28
135	63,753	---	---	---	---	39,363	250	136	2,977	80,000	273,900	269,050	4,850	397,000	29
224	98,833	124	36,484	17	1,660	52,734	11,828	796	40,110	---	398,584	398,708	4,876	803,186	30
551	258,119	544	135,610	74	16,827	87,870	16,521	1,458	19,900	---	398,516	388,354	10,262	1,025,644	31
55	33,751	7	1,800	16	2,566	6,788	4,246	204	2,338	---	42,989	41,964	1,025	114,532	32
6,526	4,146,564	8	1,368	5	1,031	1,820,303	33,831	25,578	127,570	1,134,384	7,492,535	7,468,154	24,381	16,333,033	33
759	283,005	826	84,881	86	11,537	45,610	970	4,766	39,874	---	867,959	849,057	18,902	1,522,827	34
24	9,510	6	1,070	1	74	2,408	1,211	404	793	---	15,018	15,018	612	49,483	35
513	203,788	4	1,426	1	240	49,769	10,520	3,504	35,745	---	511,016	499,839	11,177	943,481	36
1,900	1,076,042	2	802	7	1,101	186,025	37,900	22,295	111,127	14,703	1,333,685	1,296,195	37,490	3,626,442	37
4,587	2,397,518	7	2,157	---	---	195,707	---	17,078	76,411	102,218	2,301,699	2,250,456	51,243	5,034,267	38
229	145,928	---	---	---	---	3,512	870	2,012	630	---	137,898	136,426	1,472	330,804	39
74	36,852	---	---	---	---	9,219	1,372	1,165	6,632	50	488,105	477,405	10,640	610,006	40
2,755	1,473,582	289	100,018	4	632	638,013	17,337	52,403	549,796	18,477	6,994,508	6,617,118	877,390	12,207,289	41
54	38,831	81	22,991	12	1,654	9,406	1,612	413	6,931	400	68,178	66,555	1,623	168,184	42
16	3,772	1	320	---	---	3,750	1,395	190	2,165	---	13,947	13,947	879	34,855	43
1,076	594,540	294	76,973	26	3,885	342,773	143,191	9,329	56,145	134,108	1,496,079	1,390,571	15,508	3,277,880	44
1,162	569,848	1,523	429,292	71	9,687	212,421	45,136	5,928	56,837	104,520	1,328,182	1,306,548	21,634	3,093,333	45
3	1,134	6	1,505	---	---	495	306	34	155	---	1,300	1,268	32	9,116	46

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
47 Clothing, women's, dressmaking	550	\$428,442	\$85,505	\$102,300	\$64,726	\$195,911	591	9	\$3,696	1,036	\$305,390
48 Clothing, women's, factory product	57	1,298,827	72,300	169,119	135,706	921,702	73	144	125,420	2,389	644,894
49 Coffee and spice, roasting and grinding	11	273,257	29,200	81,800	19,335	192,922	19	29	22,106	54	21,765
50 Coffins, burial cases, and undertakers' goods.	4	304,237	30,700	29,800	30,300	213,437	4	13	15,679	204	122,525
51 Confectionery	200	869,619	154,150	203,772	203,494	308,203	230	124	46,308	493	201,214
52 Cooperage	36	454,862	80,110	97,069	55,351	222,332	39	19	28,886	386	187,327
53 Copper, smelting and refining	7	6,943,886	854,154	1,588,545	970,991	3,550,196	2	74	138,723	1,707	915,112
54 Cork, cutting	8	102,580	4,750	9,300	23,130	65,350	7	14	11,060	157	46,340
55 Corsets	10	546,466	18,000	103,000	78,974	351,492	18	63	61,624	1,332	423,737
56 Cotton goods	20	13,989,374	800,018	2,888,476	5,123,363	5,172,517	10	141	250,548	5,518	1,887,119
57 Cotton small wares	5	409,917	7,500	47,300	222,312	132,805	1	16	18,730	163	43,821
58 Cutlery and edge tools	19	629,022	76,425	94,863	159,852	297,882	16	90	103,285	775	328,670
59 Dentists' materials	3	69,586	1,050	1,800	10,708	56,030	2	1	2,000	14	6,534
60 Druggists' preparations, not including prescriptions.	4	729,373	47,584	123,000	174,689	384,220	3	70	97,000	166	66,805
61 Drug grinding	4	1,392,678	40,903	205,527	281,644	864,599	4	22	39,514	299	143,779
62 Dyeing and cleaning	46	251,490	37,400	54,500	46,440	113,150	52	51	19,350	158	73,214
63 Dyeing and finishing textiles	59	11,000,695	651,481	2,100,396	4,624,659	4,224,759	47	353	614,910	7,074	3,003,491
64 Dye stuffs and extracts	10	591,916	121,000	76,000	131,653	268,363	7	32	33,783	88	40,067
65 Electrical apparatus and supplies	85	7,380,139	182,693	765,707	1,530,224	4,901,515	15	543	598,011	2,793	1,514,333
66 Electrical construction and repairs	47	246,125	54,100	16,700	33,810	141,515	52	21	18,742	237	122,035
67 Electroplating	11	42,630	5,000	10,000	13,075	14,605	15	2	1,716	70	27,260
68 Enameling and enameled goods	9	44,032	2,750	6,777	21,825	12,730	8	4	2,756	25	12,118
69 Engraving and diesinking	15	103,820	4,600	13,800	57,710	32,710	25	5	5,660	110	68,928
70 Engraving, steel, including plate printing.	6	50,452	1,400	1,800	32,450	14,802	10	5	5,568	62	40,860
71 Explosives	10	4,288,307	136,125	502,664	556,104	3,088,414	255	206,822	1,146	563,621	
72 Fancy articles, not elsewhere specified	30	1,331,289	86,506	189,600	350,859	704,824	81	212	223,122	1,520	501,958
73 Felt goods	4	806,057	55,000	102,000	161,819	487,238	8	8	19,650	206	83,514
74 Fertilizers	23	5,690,270	556,585	608,382	652,477	3,872,826	80	155	230,330	962	441,177
75 Files	8	80,877	4,700	13,000	28,177	35,000	9	5	3,000	88	41,955
76 Fireworks	10	174,085	40,900	54,175	15,740	63,250	9	11	10,200	325	91,841
77 Flavoring extracts	18	64,159	5,500	7,300	4,286	47,078	15	2	400	86	10,734
78 Flouring and grist mill products	354	3,004,408	370,695	775,210	783,574	1,124,929	398	62	42,098	431	219,951
79 Food preparations	37	1,289,257	43,420	235,635	270,202	740,000	37	112	150,844	373	150,351
80 Foundry and machine shop products	353	31,550,687	2,868,513	4,639,391	7,652,936	16,394,847	302	1,278	1,741,072	17,918	0,376,824
81 Fruits and vegetables, canning and preserving.	73	1,429,221	111,805	334,279	250,618	732,519	90	63	33,830	1,992	422,092
82 Fur goods	11	110,895	15,500	20,924	4,811	69,660	12	11	6,590	43	23,622
83 Fur hats	59	2,932,311	242,930	484,751	500,950	1,703,680	66	154	186,266	4,745	2,487,067
84 Furnishing goods, men's	8	244,027	15,500	24,500	29,727	174,300	12	11	6,195	410	114,826
85 Furniture, cabinetmaking, repairing, and upholstering.	215	364,874	44,205	90,759	54,942	174,968	239	16	7,416	342	170,877
86 Furniture, factory product	25	598,970	47,275	116,923	89,059	345,713	24	62	43,125	498	251,430
87 Furs, dressed	3	5,525	8,700	3,700	1,825	8,700	4	1	725	21	15,370
88 Gas and lamp fixtures	17	1,884,258	48,100	136,400	191,401	1,508,357	17	123	168,218	2,011	678,850
89 Gas, illuminating and heating	34	38,872,444	2,119,343	2,332,275	31,743,126	2,677,700	347	347	271,095	1,320	681,219
90 Gas machines and meters	4	122,439	28,900	15,700	25,000	52,839	2	10	8,524	26	12,339
91 Glass	26	5,397,602	330,136	1,164,071	353,600	3,549,855	18	317	284,960	5,983	2,462,745
92 Glass, cutting, staining, and ornamenting.	24	105,950	13,550	21,250	16,900	54,250	36	6	4,130	156	78,342
93 Gloves and mittens	4	41,394	5,000	6,600	5,100	24,694	5	5	13,801	131	47,002
94 Glue	4	247,736	17,446	40,384	133,251	56,655	1	11	13,801	68	23,021
95 Gold and silver, leaf and foil	10	45,305	2,075	4,400	15,075	23,755	11	3	4,700	128	45,142
96 Gold and silver, reducing and refining, not from the ore.	12	527,125	16,500	16,000	58,125	486,500	16	24	25,261	40	26,352
97 Grease and tallow	32	184,121	44,200	38,050	27,870	74,501	34	7	7,112	84	95,874
98 Hairwork	15	22,995	500	700	3,895	17,900	15	2	1,924	47	13,127
99 Hand knit goods	9	19,513	1,650	2,600	5,205	10,053	10	1	600	20	4,353
100 Hand stamps	4	3,900	1,800	2,100	1,800	2,100	4	4	1,800	5	1,200
101 Hardware	25	946,289	76,300	105,450	311,171	454,368	20	60	70,110	938	377,497
102 Hardware, saddlery	19	562,585	63,500	97,500	116,992	284,593	24	37	38,719	467	220,542
103 Hat and cap materials	19	183,785	24,750	25,750	52,880	80,905	19	16	21,940	272	31,485
104 Hats and caps, not including fur hats and wool hats.	34	508,635	49,100	96,948	79,103	278,484	42	41	42,106	841	280,490
105 Hosiery and knit goods	16	1,973,482	88,000	256,855	742,687	890,940	5	61	73,043	1,841	446,608
106 Ice, manufactured	26	1,653,028	175,700	396,470	970,844	110,514	12	52	37,999	183	91,070
107 Ink, printing	7	429,544	30,700	139,150	65,100	194,594	5	36	37,232	60	31,209
108 Ink, writing	4	81,000	2,000	3,000	16,700	59,300	1	45	23,029	37	12,197
109 Instruments, professional and scientific	18	409,577	33,400	71,100	145,886	159,191	24	41	47,594	255	118,191
110 Iron and steel	25	19,971,609	1,653,603	2,430,631	3,850,834	12,531,536	2	332	497,246	8,288	3,892,941
111 Iron and steel, forgings	7	446,543	11,982	9,504	285,384	139,743	5	10	17,454	184	107,064
112 Ironwork, architectural and ornamental.	33	629,041	103,750	80,127	89,713	355,451	39	54	51,987	551	325,207
113 Ivory and bone work	7	96,315	200	1,525	26,813	67,777	11	15	13,442	161	55,982
114 Japanning	5	12,825	3,600	4,700	3,125	3,125	4	4	3,125	16	6,942
115 Jewelry	100	5,623,452	68,250	155,700	567,924	4,731,578	163	321	395,083	2,779	1,563,973
116 Kaolin and other earth grinding	9	375,984	60,500	65,000	80,917	169,567	4	24	25,203	167	77,594

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 in- cluding 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 num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
118	\$64,355	902	\$233,848	16	\$2,187	\$71,800	\$59,671	\$2,275	\$9,111	\$743	\$350,508	\$344,226	\$6,282	\$1,123,413	47
212	85,895	2,099	547,693	78	10,806	135,612	19,683	4,456	103,055	8,418	1,156,341	1,144,136	12,205	2,561,034	48
46	22,948	5	1,490	3	327	10,961	2,080	1,300	7,681		302,311	298,680	3,681	406,114	49
193	119,623	9	2,716	2	286	15,323	7,500	912	6,911		171,609	169,617	1,992	393,574	50
330	161,251	153	38,634	10	1,829	110,866	61,465	6,454	41,832	1,115	792,258	776,630	15,623	1,593,852	51
884	186,927			2	400	29,782	2,740	5,573	21,469		448,187	445,974	2,213	867,228	52
1,705	914,812			2	300	290,423	1,500	10,080	248,843	30,000	32,545,179	32,084,283	460,896	38,365,181	53
56	23,396	94	21,600	7	1,344	6,764	2,836	194	3,734		142,540	140,415	2,125	233,879	54
140	97,693	1,158	320,994	34	5,650	39,311	9,590	2,799	26,922		579,287	573,371	5,916	1,304,886	55
2,088	1,002,178	2,789	792,990	641	91,951	403,119	5,585	55,078	338,732	3,724	2,926,876	2,808,880	122,996	6,540,289	56
56	22,535	80	18,059	27	3,227	25,265	1,000	1,086	17,954	5,225	230,892	226,188	4,704	390,477	57
735	318,050	29	8,806	11	1,214	40,437	7,004	2,928	30,505		247,547	232,431	15,116	821,735	58
9	4,714	5	1,820			2,560	240	27	2,293		17,059	16,342	717	48,535	59
70	38,102	95	28,545	1	168	203,664	240	5,062	203,362		311,578	308,259	3,819	864,863	60
299	143,779					117,870	720	5,798	111,352		1,144,437	1,099,152	45,285	1,468,960	61
104	56,126	52	16,750	2	338	20,692	10,835	2,010	6,992	855	119,126	110,202	8,924	323,728	62
6,120	2,775,797	786	197,093	168	30,601	809,580	31,551	35,296	788,914	3,816	4,513,768	4,093,093	420,675	10,488,963	63
78	38,618	10	1,449			49,482	3,745	2,220	43,517		282,332	269,300	13,032	502,793	64
2,505	1,430,591	218	69,044	70	14,698	769,135	84,687	16,056	718,392		2,996,908	2,929,950	66,955	6,447,154	65
233	120,891	8	1,000	1	144	21,013	10,328	1,346	8,064	775	228,971	225,935	2,986	503,282	66
68	26,886	1	325	1	99	3,700	2,209	194	1,297		16,400	14,001	2,399	69,567	67
16	9,032	9	3,086			1,489	1,064	58	367		9,331	8,613	768	33,601	68
95	65,458	4	1,520	11	1,950	9,244	4,114	260	4,855	15	12,780	11,399	1,881	148,153	69
60	40,160	2	700			3,019	2,628	77	314		2,614	1,984	680	58,770	70
1,137	561,743	8	1,732	1	146	215,621		8,326	207,295		2,048,837	1,968,074	82,763	3,549,216	71
579	808,537	904	188,215	37	5,206	191,329	13,214	3,762	128,603	50,750	1,027,358	1,018,003	9,355	2,190,272	72
180	77,798	26	5,716			17,523	1,070	4,909	11,541		377,312	364,223	13,089	691,203	73
929	432,451	30	7,894	3	832	312,500	11,069	18,429	282,268	734	3,146,022	3,096,056	49,966	4,290,629	74
80	44,317			3	638	5,719	1,688	221	3,810		27,334	24,588	2,746	104,900	75
114	56,274	126	26,377	85	9,190	4,700	983	625	3,092		86,896	85,288	1,608	241,556	76
12	6,734	23	3,894	1	156	4,125	1,332	271	2,522		44,249	44,034	215	78,763	77
427	219,265			4	686	102,630	25,083	16,947	60,600		5,243,121	5,206,625	36,496	6,371,997	78
235	115,733	120	32,287	18	2,311	181,573	8,323	4,048	169,022	180	669,656	655,277	14,379	1,281,971	79
17,344	9,238,861	362	96,912	212	40,051	1,908,216	142,191	132,846	1,519,627	113,552	14,879,987	14,238,098	646,889	32,621,229	80
818	232,316	1,083	180,952	86	8,824	83,418	1,440	6,493	75,435		1,401,101	1,383,671	17,430	2,199,176	81
28	17,472	15	6,150			10,917	8,899	897	6,121		49,819	49,279	540	114,771	82
3,507	2,071,822	1,199	405,795	39	9,450	253,998	28,012	11,622	183,682	24,782	3,636,521	3,517,819	118,702	7,211,229	83
53	28,902	344	83,834	13	2,040	27,605	1,610	1,100	24,895		480,313	478,824	1,489	770,579	84
302	165,937	33	9,322	7	1,618	50,692	27,900	2,578	15,028	5,086	295,682	291,030	4,652	711,889	85
484	250,460	13	3,788	1	182	62,048	10,022	2,898	36,128	13,000	307,246	298,946	8,300	808,185	86
21	15,270					1,292	855	12	445		8,935	8,131	804	34,628	87
620	288,285	1,210	357,794	181	32,771	238,744	10,409	6,112	216,223	1,000	1,228,448	1,205,624	22,824	2,858,748	88
1,320	684,219					1,074,887	163,488	146,719	764,680		785,979	748,753	37,226	3,767,751	89
26	12,339					9,000	300	835	7,805		13,799	13,264	535	59,940	90
4,366	2,278,306	170	32,726	847	151,713	241,655	683	21,663	212,900	6,409	1,488,700	1,042,872	445,828	5,093,822	91
142	75,752	11	2,070	3	520	7,691	4,116	478	3,047	50	98,859	88,126	10,733	251,603	92
40	26,878	91	20,129			1,221	260	204	757		62,825	62,380	445	126,065	93
66	22,646			2	375	7,022	1,044	869	5,109		75,730	70,979	4,751	142,849	94
57	30,034	71	15,108			2,342	726	124	1,492		102,621	102,187	484	176,602	95
39	26,152			1	200	15,034	5,732	2,827	6,463	12	2,092,272	2,085,672	6,700	2,252,118	96
82	35,698			2	176	11,250	1,565	842	8,843		256,919	247,613	9,308	865,172	97
6	2,164	41	10,963			5,191	3,764	54	1,373		21,408	21,118	285	53,935	98
4	1,216	15	3,000	1	187	5,336	724	96	91	4,425	14,142	14,087	55	33,440	99
3	980	1	150	1	160	1,488	579	109	160		1,658	1,611	47	3,148	100
821	358,161	32	8,187	80	11,149	55,437	12,434	5,144	34,659	8,800	502,962	486,820	16,142	1,184,278	101
440	218,171	15	4,433	12	2,938	80,807	5,054	2,050	23,603	100	203,028	191,812	11,216	599,011	102
117	51,972	140	27,803	15	1,710	13,468	6,489	1,658	5,296	25	641,450	631,450	10,199	802,215	103
377	170,719	463	109,621	1	150	51,325	10,748	2,234	88,343		530,248	517,214	13,029	1,105,205	104
602	187,756	1,087	241,974	152	16,878	122,374	7,148	10,380	103,346	1,000	997,110	932,098	15,012	1,748,143	105
182	98,570	1	500			51,276	4,325	7,510	89,441		108,153	33,567	74,591	391,685	106
57	30,689	2	364	1	156	22,812	460	1,558	20,794		93,056	86,809	6,247	224,116	107
17	7,454	18	4,493	2	250	6,474	2,300	612	3,562		53,441	52,710	731	144,500	108
216	108,765	22	6,270	17	3,156	15,513	2,425	1,280	11,811		78,416	74,251	4,165	359,087	109
8,047	8,834,707	176	49,214	65	9,020	1,146,984	6,666	55,960	1,084,353		16,310,425	14,950,110	1,360,315	24,881,699	110
184	107,064					10,692	4,006	699	5,937		123,635	109,823	13,809	287,542	111
549	324,857			2	350	63,863	8,039	5,691	34,115	16,018	777,549	764,149	13,400	1,394,070	112
121	47,606	31	7,148	9	1,223										

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 imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
117 Kindling wood.....	9	\$27,470	\$6,810	\$4,475	\$9,475	\$7,210	11			17	\$6,200
118 Lamps and reflectors.....	10	868,903	100,707	123,078	173,872	471,246	7	52	\$67,261	451	205,341
119 Lasts.....	3	63,122		25,000	27,631	10,491	3	4	6,516	44	20,519
120 Leather goods.....	13	58,093	6,800	6,350	20,500	24,383	13	11	4,815	97	29,681
121 Leather, tanned, curried, and finished.....	77	9,906,119	1,064,690	1,241,677	772,302	6,827,450	72	276	412,847	4,178	2,057,197
122 Lime and cement.....	34	2,732,320	382,908	697,734	770,377	881,306	26	67	74,199	995	441,821
123 Linen goods.....	3	2,535,791	201,236	564,870	470,177	1,299,508	1	42	56,641	1,476	449,070
124 Liquors, distilled.....	81	304,934	8,010	50,775	42,125	204,024	33	3	7,820	71	30,278
125 Liquors, malt.....	45	26,330,466	1,559,072	6,212,028	5,106,292	13,453,074	18	350	818,888	1,723	1,360,915
126 Liquors, vinous.....	11	379,096	12,850	84,840	18,688	262,718	6	21	9,404	43	17,461
127 Lithographing and engraving.....	3	40,067			38,180	1,887	1	5	5,000	31	13,684
128 Lock and gun smithing.....	63	48,319	5,150	7,100	17,113	18,956	64	1	75	89	19,009
129 Looking-glass and picture frames.....	44	105,032	7,100	10,600	11,444	75,888	46	12	5,570	73	30,885
130 Lumber and timber products.....	205	1,477,930	300,677	136,090	369,413	581,750	246	30	22,136	706	305,486
131 Lumber, planing mill products, including sash, doors, and blinds.....	113	3,936,044	502,078	519,287	849,018	2,114,661	122	168	183,922	1,993	1,060,680
132 Mantels, slate, marble, and marbleized.....	7	29,355	1,000	6,000	2,555	19,800	10			25	17,400
133 Marble and stone work.....	78	2,048,399	486,625	171,979	395,488	994,307	81	90	97,006	1,337	729,575
134 Masonry, brick and stone.....	297	2,088,800	199,060	223,720	251,052	1,404,968	855	62	50,044	4,145	2,394,922
135 Mattresses and spring beds.....	26	418,546	48,300	119,200	37,872	213,174	29	19	27,050	217	78,688
136 Millinery and lace goods.....	17	103,285	16,425	30,400	25,325	32,135	19	3	1,621	155	64,960
137 Millinery, custom work.....	303	704,220	125,423	146,650	24,478	407,669	349	52	24,795	706	218,126
138 Mineral and soda waters.....	122	982,134	121,075	197,850	402,405	260,804	142	39	23,092	436	224,950
139 Mirrors.....	4	60,100	1,600	13,200	12,500	32,900	9	4	6,404	99	40,097
140 Models and patterns.....	29	91,156	10,220	16,000	23,640	41,296	34	8	1,325	149	124,612
141 Monuments and tombstones.....	92	462,808	55,920	61,648	25,920	309,315	110	16	12,920	223	139,377
142 Mucilage and paste.....	6	48,696		600	11,797	34,299	4	5	2,060	20	10,147
143 Musical instruments and materials, not specified.....	13	1,109,878	16,200	177,402	291,407	624,869	10	34	39,278	740	365,439
144 Musical instruments, organs and materials.....	5	598,150	24,000	96,000	39,650	433,500	5	52	81,430	434	201,933
145 Musical instruments, pianos and materials.....	10	813,748	102,000	112,100	362,090	237,553	11	19	12,942	329	158,450
146 Oil, not elsewhere specified.....	11	1,122,295	52,520	169,426	126,736	778,613	4	104	159,543	137	74,625
147 Oilcloth, floor.....	6	2,552,800	231,000	770,098	743,758	807,949	2	48	74,812	863	465,226
148 Optical goods.....	10	18,520		3,580	3,580	14,940	16	5	3,500	8	3,480
149 Painting, house, sign, etc.....	678	1,287,322	167,890	227,695	154,972	786,765	782	66	42,488	2,622	1,540,541
150 Paints.....	27	2,507,867	122,350	357,206	404,697	1,628,614	20	131	178,228	626	317,786
151 Paper and wood pulp.....	34	3,670,717	419,716	776,201	1,442,276	1,032,524	25	93	102,738	1,190	553,463
152 Paper goods, not elsewhere specified.....	15	984,149	75,600	167,133	319,091	422,325	10	43	54,504	306	131,337
153 Paper hanging.....	66	145,245	18,900	17,600	5,845	102,900	71	8	1,492	196	108,816
154 Paper hangings.....	5	1,427,508	10,000	125,407	324,846	967,255	6	60	100,274	609	276,204
155 Patent medicines and compounds.....	35	448,669	35,120	88,478	52,863	277,203	27	68	68,572	107	50,351
156 Paving and paving materials.....	81	1,080,270	185,210	107,923	252,718	684,419	87	71	65,030	1,782	687,911
157 Perfumery and cosmetics.....	10	29,769	50	200	5,092	24,427	5	16	12,380	44	11,599
158 Petroleum, refining.....	4	23,332,426	3,011,007	1,695,020	9,857,910	8,768,489	2	149	801,071	2,951	1,768,768
159 Photographic apparatus.....	3	279,275	12,000	41,334	48,090	177,842	2	30	22,846	175	75,110
160 Photographic materials.....	4	70,667	1,000	9,707	18,787	41,173	1	18	21,261	50	20,340
161 Photography.....	166	790,122	41,085	141,002	182,577	425,458	176	13	14,637	332	130,212
162 Photolithographing and photoengraving.....	3	15,196			9,700	5,496	4			16	7,300
163 Pickles, preserves, and sauces.....	22	847,891	79,520	152,850	137,965	477,556	28	77	79,510	418	142,733
164 Pipes, tobacco.....	3	3,650	1,300	600	950	800	4			9	2,081
165 Plastering and stucco work.....	34	284,923	44,845	40,901	86,156	113,021	38	16	14,974	118	63,942
166 Plumbers' supplies.....	6	192,440	8,000	26,100	51,222	107,118	4	14	24,812	166	85,523
167 Plumbing, and gas and steam fitting.....	689	2,995,498	326,920	489,035	322,186	1,857,357	763	142	95,231	3,363	1,882,553
168 Pocketbooks.....	3	344,499	24,120	72,000	20,250	223,129	3	18	48,283	614	197,099
169 Pottery, terra cotta, and fire-clay products.....	81	15,324,966	2,415,663	5,009,945	3,118,988	4,780,370	67	464	634,238	8,117	3,841,404
170 Printing and publishing, book and job.....	183	1,929,935	145,955	213,777	1,072,638	497,564	206	165	152,230	1,447	624,079
171 Printing and publishing, newspapers and periodicals.....	261	4,210,257	440,915	468,162	2,331,640	969,540	240	354	844,461	2,077	1,162,033
172 Refrigerators.....	6	82,150	27,500	19,000	7,050	28,600	7	6	2,370	49	29,349
173 Roofing and roofing materials.....	86	1,132,831	101,461	180,130	152,330	698,410	87	91	98,139	580	328,798
174 Rubber and elastic goods.....	37	6,078,155	195,376	584,060	1,199,374	4,099,845	7	254	378,013	2,609	1,150,503
175 Saddlery and harness.....	292	1,272,900	158,260	170,245	154,456	789,939	321	55	53,542	965	455,064
176 Sausage.....	9	87,250	28,850	33,350	16,900	13,150	9			33	20,430
177 Saws.....	4	571,283	71,296	58,800	188,427	252,780	2	24	24,234	140	67,221
178 Scales and balances.....	7	490,922	11,700	13,300	73,320	392,602	5	20	20,120	69	88,470
179 Sewing machine repairing.....	12	6,011			2,158	3,853	13			3	1,525
180 Sewing machines and attachments.....	4	4,317,606	425,000	1,013,676	964,956	1,914,034		132	182,981	4,701	2,809,523
181 Ship and boat building, wooden.....	64	1,670,969	178,054	210,227	616,894	665,794	60	69	75,859	1,416	778,108
182 Shipbuilding, iron and steel.....	4	2,015,363	557,000	189,500	414,486	854,427	1	54	82,168	1,458	1,014,106
183 Shirts.....	39	903,994	88,972	205,100	181,718	494,204	49	66	54,596	3,072	940,896
184 Shoddy.....	4	538,985	49,290	98,953	128,761	261,942	15	15	30,100	156	56,027
185 Silk and silk goods.....	180	29,268,792	733,867	2,968,084	7,297,856	18,288,485	197	959	1,144,512	24,157	9,232,532
186 Silversmithing.....	7	1,103,886	13,426	400,917	312,923	376,565	4	45	63,801	613	353,218
187 Silverware.....	7	655,077			109,604	545,473	12	63	59,666	317	170,117
188 Slaughtering and meat packing, whole- sale.....	22	1,033,847	110,000	253,000	182,421	488,426	30	82	72,226	352	186,737
189 Slaughtering, wholesale, not including meat packing.....	19	554,542	25,533	44,200	20,600	464,209	30	18	21,854	206	145,088
190 Smelting and refining, not from the ore.....	8	2,161,964	140,830	261,666	1,585,400	174,068	8	10	19,498	201	76,828
191 Soap and candles.....	17	1,724,137	192,150	253,420	296,234	977,333	16	177	213,795	540	207,612

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 in- cluding 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.										
17	\$6,200					\$1,895	\$385	\$512	\$908		\$13,247	\$12,542	\$705	\$26,265	117
336	174,299	112	\$30,418	3	\$624	109,404	3,896	2,013	103,495		262,167	254,048	8,119	795,669	118
44	20,519					4,202	2,298	109	1,795		19,145	17,928	1,217	65,363	119
42	18,276	44	9,305	11	1,950	4,811	2,328	308	2,175		50,254	49,342	912	112,899	120
4,101	2,038,955	39	9,900	38	8,342	507,753	31,817	36,667	428,137	\$11,132	9,532,507	9,424,541	107,966	13,747,155	121
995	411,821					123,650	13,031	9,238	101,378		936,750	651,268	235,482	1,767,548	122
382	193,964	778	210,801	316	38,905	174,979	600	23,537	145,822		1,313,111	1,291,243	21,868	2,168,570	123
70	30,086	1	192			633,516	9,180	1,727	622,409	200	126,707	114,207	12,500	884,802	124
1,715	1,358,715	2	1,030	6	1,200	6,783,772	5,520	112,564	6,615,688		2,782,420	2,581,748	200,672	14,386,456	125
37	16,321	6	1,140			12,500	850	933	10,692	25	63,456	62,976	480	241,777	126
19	10,560	12	3,124			2,335	1,230	20	1,085		14,271	13,655	616	37,660	127
35	13,037	2	572	2	400	12,421	9,663	313	2,095	850	25,926	24,483	1,413	101,614	128
64	29,202	1	300	8	1,383	15,039	11,632	532	2,734	151	92,060	91,185	875	192,487	129
704	305,186			2	300	51,237	7,498	10,330	33,409		998,161	997,266	895	1,859,014	130
1,988	1,057,780	5	1,650	5	1,250	186,678	26,904	24,427	130,247	5,100	2,902,997	2,873,270	29,727	5,107,217	131
25	17,400					3,210	1,848	110	452	800	40,851	40,711	140	89,450	132
1,330	727,695			7	1,890	191,783	16,823	10,848	128,627	85,495	819,142	788,740	30,402	2,203,757	133
4,140	2,394,307			5	615	455,153	11,381	8,101	124,615	\$11,056	3,245,515	3,232,519	12,996	7,351,011	134
157	63,184	54	14,644	6	860	18,062	4,814	2,551	9,454	1,240	258,551	256,148	2,203	463,407	135
39	20,690	99	81,395	17	3,375	7,464	1,756	836	3,562	1,260	57,882	57,030	852	172,240	136
21	11,288	676	205,701	9	1,137	91,805	63,918	4,239	22,492	1,156	761,373	755,673	5,700	1,477,305	137
422	221,786	2	602	12	2,562	62,831	12,143	5,865	44,788	40	364,214	355,378	8,836	1,067,642	138
76	34,821	10	2,916	13	2,360	2,269	1,240	265	764		62,829	61,589	1,240	130,782	139
143	123,508	5	1,020	1	84	7,967	4,505	431	2,631	400	28,840	26,723	2,117	226,312	140
223	139,377					29,481	5,283	2,484	15,898	5,816	316,273	310,370	5,903	677,861	141
13	7,700	4	1,715	3	732	6,453	1,618	219	4,621		54,884	54,562	822	90,827	142
596	330,883	135	32,476	9	2,030	62,804	1,511	3,021	58,269		364,737	355,166	9,571	879,521	143
433	201,583	1	350			129,577	360	2,577	126,390	250	316,262	311,123	5,139	772,485	144
299	153,867	5	1,206	25	3,377	56,393	5,885	1,399	48,709	400	246,771	241,736	5,035	559,693	145
133	73,475	4	1,150			107,702	1,230	3,519	102,953		1,851,179	1,841,719	9,460	2,341,900	146
848	457,796	2	840	18	6,590	132,894		18,557	119,337		1,735,377	1,692,305	42,672	2,811,583	147
7	3,270			1	160	5,518	3,124	65	2,073	256	22,782	22,347	485	56,725	148
2,611	1,538,256	3	870	8	1,415	122,536	66,289	7,011	47,231	2,005	978,842	974,469	4,378	3,618,539	149
558	299,972	68	17,814			191,449	8,521	10,564	158,200	14,071	2,519,447	2,463,087	56,360	3,460,362	150
1,030	517,783	152	34,031	8	1,596	242,793	16,606	16,356	190,139	19,692	1,715,312	1,593,828	211,484	3,195,302	151
245	116,657	48	11,510	13	3,170	86,152	4,105	4,071	77,976		745,444	731,015	14,429	1,168,352	152
192	108,298	4	518			12,171	8,750	673	2,514	234	109,849	103,720	629	310,094	153
516	252,859	78	19,379	15	3,966	96,910	16,000	4,214	76,696		1,001,474	988,807	15,667	1,507,746	154
76	41,370	1	8,877	1	101	181,007	5,907	1,731	173,369		169,367	165,982	8,385	579,843	155
1,777	687,216			5	695	142,953	16,776	4,894	48,271	73,012	676,698	646,965	29,733	1,953,473	156
18	6,420	25	4,979	1	200	40,615	2,929	111	34,575	3,000	66,092	65,482	610	142,032	157
2,930	1,764,363			21	4,400	551,211	4,807	71,484	467,169	7,751	26,710,213	25,935,969	774,241	20,649,460	158
146	67,262	14	5,451	15	2,997	33,873	800	411	31,262	1,400	72,102	69,964	2,138	221,923	159
26	15,541	23	4,549	1	250	15,368	4,570	260	10,533		153,536	151,072	2,511	337,217	160
197	92,235	132	37,621	3	866	96,957	43,085	1,909	50,898	1,065	286,987	283,191	3,796	793,827	161
14	6,838	1	812	1	150	1,587	900	35	652		3,520	3,160	860	21,500	162
283	105,789	182	36,432	3	512	111,489	4,574	2,849	104,516		873,262	862,355	10,907	1,329,852	163
5	1,456	2	400	2	225	239	24	23	192		923	863	60	4,112	164
118	63,942					11,940	2,482	1,587	7,671	200	112,937	108,756	4,181	272,204	165
166	85,523					15,963	5,383	1,570	9,004		161,339	151,119	10,220	324,221	166
3,324	1,874,808	5	1,716	84	6,084	226,551	96,835	13,704	92,184	23,828	3,345,388	3,312,531	82,857	7,205,076	167
343	151,180	211	33,919	60	12,000	34,337	100	2,572	31,665		454,241	452,390	1,854	852,324	168
7,007	3,521,820	917	283,232	193	36,302	792,475	14,371	55,198	690,482	32,424	2,384,059	1,673,918	710,111	8,940,723	169
995	510,499	379	100,541	73	13,089	110,700	39,922	6,027	60,325	4,426	695,122	673,429	21,693	2,038,966	170
1,775	1,082,939	201	64,633	101	14,461	289,011	56,443	18,142	170,806	43,620	892,690	851,495	41,195	3,731,068	171
49	29,349					4,917	535	506	3,876		40,944	40,124	820	109,540	172
575	327,570	4	1,048	1	175	147,303	14,231	4,875	125,997	2,500	1,033,257	1,023,498	9,759	1,885,963	173
2,153	1,020,604	382	104,464	74	16,435	409,202	13,492	26,594	359,481	4,035	5,690,000	5,564,427	131,679	8,458,274	174
854	425,651	88	26,902	28	2,511	119,799	40,790	7,063	71,766	180	811,487	797,601	13,886	1,879,240	175
33	20,430					5,559	660	890	1,009	3,000	115,106	113,402	1,704	169,061	176
137	66,390	3	831			14,974	620	3,338	11,016		58,591	55,072	3,519	235,352	177
64	37,410	3	760	2	300	11,245	2,178	1,160	7,907		27,840	25,136	2,704	124,944	178
3	1,525					2,663	2,260	15	383		2,756	2,701	55	14,470	179
4,431	2,724,924	270	84,599			108,801	6,990	27,817	74,494		2,717,907	2,638,821	79,083	6,643,348	180
1,416	778,103					116,935	39,040	6,144	60,564	11,187	716,592	704,928	11,664	1,953,041	181
1,429	1,0														

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	Sporting goods	5	\$105,662	\$2,000	\$6,000	\$22,834	\$74,828	2	9	\$13,060	101	\$32,249
193	Springs, steel, car and carriage	3	156,572	25,000	53,000	48,000	30,572	4	9	11,750	56	33,671
194	Stamped ware	28	1,617,545	87,496	179,325	648,816	731,908	20	84	86,794	1,629	560,395
195	Stationery goods, not elsewhere specified.	3	46,582			13,332	33,250	1	5	6,500	41	13,310
196	Steam fittings and heating apparatus	18	536,500	18,000	45,938	56,194	416,368	8	78	92,858	190	89,812
197	Steam packing	4	41,500		5,000	13,000	28,500	1	9	9,840	58	23,900
198	Stereotyping and electrotyping	3	14,875			9,600	5,275	7			11	8,078
199	Surgical appliances	10	868,750	35,800	164,569	137,438	530,948	10	57	87,613	417	134,385
200	Taxidermy	6	15,753	5,010	2,540	480	7,775	6			10	3,220
201	Tinsmithing, coppersmithing, and sheet-iron working.	231	1,346,684	137,710	223,814	310,647	669,513	278	66	53,492	1,050	553,887
202	Tobacco, chewing, smoking, and snuff.	12	6,692,041	485,947	1,433,059	1,028,406	3,744,629	6	204	197,814	1,955	527,195
203	Tobacco, cigars and cigarettes	486	1,311,122	177,665	220,165	70,213	843,079	508	38	30,574	1,640	705,158
204	Tools, not elsewhere specified	28	1,134,339	73,808	159,693	353,368	547,470	34	72	87,758	1,026	526,492
205	Toys and games	11	81,227	8,900	15,000	27,880	29,447	14	3	2,700	103	28,626
206	Trunks and valises	18	676,544	27,700	40,575	145,667	462,602	21	36	49,569	741	331,842
207	Typewriters and supplies	5	1,015,450	55,944	124,787	238,838	595,920	5	91	60,283	649	339,928
208	Umbrellas and canes	4	83,562	10,000	15,000	20,952	37,610	3	7	5,280	140	40,419
209	Upholstering materials	8	223,358	25,700	20,600	50,530	117,528	9	10	9,010	145	58,212
210	Varnish	21	3,949,265	300,548	673,981	864,641	2,610,145	11	251	372,559	221	158,085
211	Vinegar and cider	29	79,535	6,957	19,033	22,450	81,095	33			23	8,558
212	Washing machines and clothes wringers.	3	12,750	1,000	2,000	6,110	8,640	4			4	2,330
213	Watch and clock materials	3	185,165	20,100	20,150	50,315	94,600	2	4	10,000	45	80,250
214	Watch cases	5	1,371,137	23,000	193,000	320,984	829,153	2	38	49,420	637	305,268
215	Watch, clock, and jewelry repairing.	293	426,218	39,350	67,000	88,559	230,609	311	4	2,400	230	130,702
216	Watches	3	910,692	76,051	155,125	336,410	848,006	1	14	35,026	525	261,135
217	Window shades	11	196,689	19,500	51,500	34,150	91,539	12	35	47,150	128	66,922
218	Wire	3	1,105,304	42,500	73,194	153,113	836,497	1	15	29,316	176	121,710
219	Wirework, including wire rope and cable.	19	736,384	44,850	63,200	201,648	431,686	11	46	48,647	670	300,183
220	Wood, turned and carved	50	472,579	43,606	104,900	109,749	214,324	62	11	9,484	294	131,041
221	Woodenware, not elsewhere specified	3	11,170	1,500	2,050	5,600	2,020	4			5	1,612
222	Woolen goods	13	4,549,798	248,502	703,322	874,970	2,723,004	1	48	85,619	2,942	1,018,232
223	Wool scouring	3	23,776			18,476	5,300		4	3,278	24	12,065
224	Worsted goods	11	12,030,721	171,902	1,608,247	2,643,417	7,657,155	13	112	197,984	3,910	1,037,197
225	All other industries ¹	88	41,007,900	8,746,640	4,726,650	6,050,723	26,483,837	65	656	908,451	7,663	3,129,519

¹ Embraces axle grease, 2; bags, other than paper, 1; bags, paper, 1; blacking, 1; bluing, 2; boots and shoes, rubber, 2; brass, 1; brass and copper, rolled, 2; bronze castings, 2; carriages and sleds, children's, 1; cars, steam railroad, not including operations of railroad companies, 2; cars, street railroad, not including operations of railroad companies, 1; charcoal, 2; chocolate and cocoa products, 2; cloth, sponging and refinishing, 1; clothing, horse, 1; cordage and twine, 1; crucibles, 2; emery wheels, 1; fish, canning and preserving, 1; flags and banners, 1; foundry supplies, 1; galvanizing, 1; graphite and graphite refining, 2; house furnishing goods, not elsewhere specified, 2; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, pipe, wrought, 1; jewelry and instrument cases, 1;

TABLE 8.—MANUFACTURES IN CITIES

BAYONNE.

		225	\$26,583,058	\$3,819,989	\$2,617,876	\$10,160,849	\$9,954,844	236	251	\$414,099	5,083	\$2,856,776
1	All industries											
2	Bicycle and tricycle repairing	5	5,615			690	4,925	7			3	516
3	Blacksmithing and wheelwrighting	9	23,760	5,200	10,710	3,875	8,975	9			12	7,322
4	Boots and shoes, custom work and repairing.	40	16,374	1,229	3,170	4,045	7,930	40			4	2,072
5	Bread and other bakery products	15	39,050	3,700	15,200	11,800	8,350	16	3	1,300	46	22,948
6	Carpentering	19	41,650	5,900	12,100	6,000	17,650	22			94	67,045
7	Chemicals	3	2,100,571	476,726	875,617	346,476	401,752		29	81,314	289	172,766
8	Clothing, men's, custom work and repairing.	10	13,010	2,350	5,450	1,425	3,785	10			11	5,437
9	Clothing, men's, factory product	7	7,225	550	1,100	1,350	4,225	4			90	36,164
10	Clothing, women's, dressmaking	7	9,400	2,000	5,000	690	1,710	7			18	4,071
11	Masonry, brick and stone	5	45,110	6,750	15,000	6,000	17,300	5	1	600	33	20,557
12	Millinery, custom work	8	11,875	1,100	4,500	1,100	5,175	8			9	1,891
13	Painting, house, sign, etc	17	23,074	3,300	7,275	2,838	9,661	18			64	44,289
14	Paving and paving materials	6	26,950	4,700	6,500	3,800	11,950	6			70	26,819
15	Petroleum, refining	3	22,923,812	2,885,787	1,514,002	9,512,435	8,411,588		140	277,847	2,843	1,686,871
16	Photography	4	6,275	750	2,300	2,400	825	4			2	650
17	Plumbing, and gas and steam fitting	16	72,998	6,703	14,945	8,850	42,500	18	2	700	82	48,175
18	Printing and publishing, newspapers and periodicals.	4	19,514		350	14,191	4,973	6	3	1,496	11	6,604
19	Saddlery and harness	3	2,928			578	2,350	3			3	1,800
20	Ship and boat building, wooden	3	77,490	14,100	25,200	18,900	19,200	2	3	4,188	23	8,292
21	Shirts	4	10,855			9,850	1,505	6			113	42,072
22	Tobacco, cigars and cigarettes	4	1,035			635	400	5			1	520
23	Watch, clock, and jewelry repairing	5	8,175			2,700	5,475	5			1	208
24	All other industries ¹	32	1,696,402	429,144	98,937	200,661	967,640	35	65	96,659	1,261	651,687

¹ Embraces bookbinding and blank book making, 1; bottling, 2; brooms and brushes, 1; carriages and wagons, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 1; confectionery, 2; copper, smelting and refining, 1; cutlery and edge tools, 1; electrical construction and repairs, 1; foundry and machine shop products, 2; furniture, cabinetmaking, repairing, and upholstery, 1; hardware, 1; hats and caps, not including fur hats and wool hats, 1; instruments, professional and scientific, 1; looking-glass and picture frames, 1;

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 in- cluding 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.										
30	\$18,165	58	\$17,267	13	\$1,817	\$10,050	\$4,284	\$334	\$5,432		\$177,772	\$175,843	\$1,929	\$267,512	192
56	83,671					1,912		843	1,269		53,102	50,172	2,930	121,228	193
1,149	464,265	361	77,896	119	18,231	107,470	7,783	9,962	70,275	\$19,450	709,057	747,086	21,971	1,748,132	194
29	10,960	7	1,850	5	500	5,746	1,800	18	4,308		31,321	30,436	885	67,512	195
165	86,617	22	2,687	3	503	82,445	2,653	1,330	63,912	14,500	553,716	552,561	6,155	968,967	196
46	21,200	12	2,700			5,672	3,780	342	1,550		46,490	40,090	6,400	123,500	197
11	8,078					1,613	872	10	736		5,796	5,316	480	27,845	198
139	62,588	203	57,721	75	14,076	248,529	1,605	2,199	244,725		571,850	562,750	9,100	1,200,435	199
9	8,020	1	200			721	269	134	275	43	5,952	5,907	45	16,095	200
1,000	542,935	39	8,942	11	2,010	97,886	32,492	7,636	46,974	10,231	955,773	940,981	14,792	2,113,398	201
797	811,899	1,054	194,660	104	20,636	2,713,031	2,100	17,830	2,692,842	250	2,424,103	2,385,039	39,069	7,788,379	202
826	448,233	736	241,043	79	15,832	419,729	55,005	7,166	357,538		1,017,886	1,010,443	7,443	2,617,535	203
1,013	523,408	4	1,254	9	1,830	68,610	5,656	5,125	50,111	7,718	589,080	558,089	30,991	1,490,015	204
48	16,830	35	8,966	20	2,880	4,339	1,725	276	2,338		46,154	45,145	1,009	148,404	205
704	821,499	30	9,225	7	1,118	60,244	24,109	2,827	33,263	45	717,593	711,528	6,035	1,350,951	206
592	326,902	10	5,272	47	7,749	90,785	5,568	1,490	81,813	1,864	231,759	227,831	3,928	744,680	207
135	39,133	4	1,156	1	80	3,432	1,800	757	3,775		36,720	35,474	1,246	107,809	208
69	36,642	76	21,570			8,701	2,620	1,230	4,801		103,623	103,593	5,730	804,728	209
217	157,173	2	612	2	300	197,238	7,645	15,564	174,019		1,306,244	1,293,972	12,272	2,753,562	210
23	8,553					2,138	300	441	1,357		33,914	32,489	1,425	68,899	211
4	2,380					638	253	30	350		1,303	1,253	55	5,860	212
85	26,250	10	4,000			1,638	50	754	729		50,322	49,468	854	108,572	213
515	255,900	107	44,868	15	4,500	84,635	920	4,120	20,495		730,871	724,956	5,915	1,258,001	214
218	128,025	5	1,350	7	1,327	62,133	41,538	2,033	10,689	7,873	131,271	127,063	3,608	588,491	215
259	190,255	210	68,106	26	2,774	95,473		1,775	93,698		194,259	191,933	2,326	551,444	216
109	60,573	19	6,319			19,179	2,120	1,454	15,355	250	418,446	415,910	2,536	746,525	217
169	119,860	7	1,850			37,191	500	1,918	34,773		2,899,391	2,879,980	19,411	3,975,095	218
560	275,448	106	24,060	4	675	51,943	13,720	3,873	34,050	800	607,886	592,452	15,434	1,102,043	219
259	126,019	2	564	33	4,458	25,180	6,195	2,534	14,506	1,945	134,045	124,417	9,628	395,120	220
5	1,612					1,209	500	113	596		4,601	4,251	350	12,175	221
1,690	635,439	1,065	301,580	187	26,213	461,513	16,380	30,021	415,112		2,700,889	2,626,766	74,123	4,755,393	222
17	8,565	7	3,500			2,831	2,200	81	550		3,695	2,328	1,367	32,555	223
1,247	513,670	2,207	520,486	456	63,041	527,527	7,400	16,611	459,165	44,351	4,517,694	4,480,919	66,775	6,823,721	224
5,284	2,552,756	1,940	485,185	444	91,578	1,584,840	47,118	96,302	1,437,442	3,478	58,145,432	57,578,149	567,283	69,752,072	225

jute and jute goods, 2; lapidary work, 2; lard, refined, 2; lead, smelting and refining, 2; malt, 1; matches, 2; mats and matting, 1; needles and pins, 1; oakum, 2; oil, castor, 1; oil, lard, 1; oil, linseed, 1; oilcloth, enameled, 2; oleomargarine, 1; paper patterns, 1; pencils, lead, 2; pens, steel, 1; phonographs and graphophones, 2; plated and britannia ware, 2; printing materials, 2; pulp goods, 2; pumps, not including steam pumps, 1; regula and society banners and emblems, 1; registers, cash, 1; rules, ivory and wood, 2; safes and vaults, 1; show cases, 1; starch, 1; sugar and molasses, refining, 1; wood, preserving, 1; wool hats, 2; wool pulling, 1; zinc, smelting and refining, 2.

BY SPECIFIED INDUSTRIES: 1900.

BAYONNE.

4,890	\$2,812,448	117	\$30,640	76	\$13,688	\$805,493	\$34,851	\$82,146	\$622,095	\$60,338	\$34,094,479	\$38,051,109	\$1,043,370	\$39,852,248	1
1	260			2	256	630	462		158	10	2,441	2,350	91	7,335	2
12	7,322					597	252	200	145		9,886	9,503	383	27,100	3
4	2,072					4,418	3,308	122	738	250	11,509	11,019	490	34,055	4
43	22,398	3	550			7,161	4,128	224	2,809		82,231	79,688	2,643	144,635	5
94	67,015					22,794	371	299	473	21,651	103,869	103,754	115	237,593	6
289	172,766					82,615	2,244	5,721	68,590	5,700	609,008	538,480	70,528	1,356,196	7
9	4,837	2	600			1,613	996	110	507		6,678	6,528	145	20,860	8
49	24,444	41	11,720			758	600	35	123		4,670	4,325	345	45,500	9
1	624	16	3,382	1	65	785	600	60	125		9,039	8,903	131	17,318	10
33	20,567					1,003	150	361	242	250	18,267	13,247	20	42,150	11
64	44,289	9	1,891			1,527	1,110	30	387		6,915	6,800	115	15,300	12
70	26,819					2,170	699	174	1,297		22,251	22,123	125	85,525	13
2,822	1,630,971					570	25	265	80	200	25,974	25,964	10	64,552	14
1	300	1	350	21	4,400	481,430	4,307	69,213	399,668	7,751	26,212,238	25,456,883	755,355	28,861,111	15
						582	435	52	95		2,882	2,802	80	8,100	16
81	47,925			1	250	3,149	1,359	304	1,186	300	67,464	66,245	1,219	149,717	17
10	6,500			1	104	1,347	488	20	613	226	1,401	1,315	86	17,633	18
3	1,300					590	520		70		1,731	1,681	50	6,124	19
23	8,292					1,107	300	165	702		17,275	17,000	275	42,000	20
72	30,966	41	11,106			1,305	1,128		177		4,378	3,553	815	61,370	21
1	520					705	288		477		1,272	1,232	40	4,282	22
1,208	642,241	4	1,041	49	8,405	187,570	9,856	4,791	142,923	30,000	6,876,425	6,666,259	210,166	8,097,142	23
															24

lumber, planing mill products, including sash, doors, and blinds, 2; mattresses and spring beds, 1; mineral and soda waters, 2; paints, 1; printing and publishing, book and job, 2; slaughtering and meat packing, wholesale, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; toys and games, 1; typewriters and supplies, 1.

TABLE 8.—MANUFACTURES IN CITIES

CAMDEN.

	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 -----	817	\$16,430,611	\$1,427,045	\$2,372,518	\$4,166,668	\$8,464,380	844	786	\$715,598	8,941	\$3,824,434
2	Bicycle and tricycle repairing -----	11	12,167	600	1,000	4,040	6,527	14			7	3,073
3	Blacksmithing and wheelwrighting -----	21	26,330	5,100	4,800	6,725	9,705	19	1	1,248	47	22,169
4	Boots and shoes, custom work and repairing -----	52	16,536	3,000	4,950	5,350	3,236	52			15	5,804
5	Boots and shoes, factory product -----	23	317,553	17,750	41,992	99,888	157,923	20	29	23,069	429	154,961
6	Bottling -----	14	65,537	1,250	1,950	15,640	46,697	14	7	4,120	34	14,860
7	Bread and other bakery products -----	61	119,511	13,800	23,525	30,990	51,196	62	17	7,130	101	45,613
8	Carpentering -----	45	70,797	4,400	11,940	9,120	45,337	50			141	84,602
9	Carpets, rag -----	3	3,100	400	600	850	1,250	3			5	1,790
10	Carriages and wagons -----	11	92,756	5,700	13,000	14,280	59,776	12	9	9,398	126	63,175
11	Cars and general shop construction and repairs by steam railroad companies -----	3	258,648	6,075	121,840	43,152	82,581		31	22,628	397	229,736
12	Chemicals -----	9	731,166	100,000	96,200	294,629	240,337	7	37	31,328	142	82,864
13	Clothing, men's, custom work and repairing -----	26	23,025	2,750	1,500	3,540	15,235	29	2	800	45	18,568
14	Clothing, women's, dressmaking -----	69	12,199	1,875	1,200	6,179	2,945	73	1	416	72	22,186
15	Confectionery -----	19	23,784	2,700	3,116	11,895	6,073	21	7	3,036	23	9,118
16	Cooperage -----	4	8,920	1,440	1,400	355	725	4			9	3,253
17	Flouring and grist mill products -----	4	157,050	11,200	32,800	21,050	92,000	5	7	6,416	32	17,250
18	Foundry and machine shop products -----	10	1,565,379	151,700	125,500	226,874	1,061,305	10	58	60,509	1,042	542,066
19	Furniture, cabinetmaking, repairing, and upholstering -----	19	9,602	250	200	3,437	5,715	19	1	250	20	9,365
20	Ice, manufactured -----	3	821,847	84,900	124,690	139,080	23,177	1	3	2,384	17	9,244
21	Leather, tanned, curried, and finished -----	3	838,067	73,000	75,700	59,300	630,067		28	40,340	452	187,764
22	Lock and gun smithing -----	6	4,005	250	100	1,630	2,025	7			3	1,812
23	Looking-glass and picture frames -----	3	979			275	704	3	1	300	3	777
24	Lumber, planing mill products, including sash, doors, and blinds -----	4	251,035	7,500	32,500	35,035	176,000	5	18	19,760	115	60,936
25	Marble and stone work -----	4	28,410	7,300	1,750	2,300	17,060	4	1	380	31	12,076
26	Masonry, brick and stone -----	16	119,555	7,950	850	3,105	107,650	22	4	2,475	140	81,025
27	Millinery, custom work -----	18	10,855	1,150	3,000	200	6,505	19	1	56	15	4,015
28	Mineral and soda waters -----	3	5,600			4,500	1,000	3			5	2,840
29	Musical instruments and materials, not specified -----	3	7,375	700	1,900	2,800	1,975	3			7	8,000
30	Oilcloth, floor -----	4	1,479,800	155,000	421,348	490,503	412,949	2	24	37,112	430	210,318
31	Painting, house, sign, etc -----	38	44,285	2,730	2,755	10,140	28,660	40	1	800	117	72,433
32	Paints -----	3	431,216	25,000	50,000	55,575	300,641	2	8	10,130	51	25,233
33	Paper goods, not elsewhere specified -----	4	90,581	8,300	12,050	38,040	32,191	5	5	5,180	68	22,758
34	Paper hanging -----	24	41,192	2,700	2,400	2,274	33,818	24	2	1,342	71	39,787
35	Patent medicines and compounds -----	6	109,599	2,100	10,100	10,425	87,274	4	16	19,366	10	4,911
36	Paving and paving materials -----	4	73,400	1,500	2,400	27,200	42,300	6	3	3,000	130	46,452
37	Photography -----	7	7,250			4,375	2,875	8			7	2,843
38	Pickles, preserves, and sauces -----	3	622,284	60,000	105,000	106,500	350,784	2	62	67,572	263	87,638
39	Plastering and stucco work -----	7	4,690	2,800	275	320	1,295	8			21	17,298
40	Plumbing, and gas and steam fitting -----	32	61,118	6,100	7,600	8,055	39,363	34	3	1,544	118	67,441
41	Printing and publishing, book and job -----	14	68,857	4,415	7,900	45,275	10,767	16	5	2,866	87	13,696
42	Printing and publishing, newspapers and periodicals -----	16	192,220	10,000	25,975	113,458	42,737	15	19	18,498	104	43,180
43	Roofing and roofing materials -----	5	43,906	2,500	2,400	8,951	30,055	4	5	4,135	27	8,216
44	Saddlery and harness -----	4	35,050	2,800	2,600	1,650	28,000	5			15	5,181
45	Ship and boat building, wooden -----	9	219,712	21,500	9,450	60,991	137,771	10	12	8,594	266	177,218
46	Slaughtering and meatpacking, wholesale -----	3	43,150	6,000	10,000	7,150	20,000	5	1	780	25	15,143
47	Soap and candles -----	3	438,120	22,000	35,500	16,000	359,620		20	19,014	38	15,814
48	Tinsmithing, coppersmithing, and sheet-iron working -----	25	89,699	8,735	20,500	8,950	51,514	27	3	2,805	82	47,316
49	Tobacco, cigars and cigarettes -----	24	28,839	4,875	6,100	2,390	15,474	26	4	980	49	18,532
50	Watch, clock, and jewelry repairing -----	12	13,465	2,300	2,300	1,900	6,965	14	1	400	7	3,316
51	Worsted goods -----	6	2,693,062	54,000	301,790	638,054	1,699,218	7	13	23,204	958	241,416
52	All other industries ¹ -----	98	4,507,628	558,950	606,072	1,467,273	1,875,333	99	266	252,733	2,572	939,547

Embraces awnings, tents, and sails, 2; bags, paper, 1; baskets, and ratan and willow ware, 1; bookbinding and blank book making, 1; boxes, cigar, 1; brass, 1; brick and tile, 2; brooms and brushes, 2; carpets and rugs, other than rag, 1; carriages and sleds, children's, 1; clothing, horse, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 1; cotton goods, 1; dyeing and cleaning, 2; dyeing and finishing textiles, 2; dye stuffs and extracts, 1; electrical apparatus and supplies, 2; electrical construction and repairs, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 1; fireworks, 1; flavoring extracts, 2; food preparations, 1; fur hats, 1; furnishing goods, men's, 1; furniture, factory product, 2; gas, illuminating and heating, 2; glass, 1; gold and silver, leaf and foil, 1; hairwork, 1; hardware, 2; hosiery and knit goods, 1; ink, printing, 1; instruments, professional and scientific, 2; kaolin and other earth grinding, 1; kindling wood, 2; lime and cement, 2; liquors, malt, 2; lumber and timber products, 2; matches, 1; models and patterns, 2; monuments and

EAST ORANGE.

1	All industries	167	\$2,311,585	\$151,909	\$328,536	\$478,406	\$1,352,734	191	161	\$197,660	1,354	\$724,495
2	Bicycle and tricycle repairing	7	9,485	2,500	1,000	2,725	3,260	7	—	—	10	5,520
3	Blacksmithing and wheelwrighting	7	29,078	5,200	5,300	2,390	16,188	8	—	—	18	13,330
4	Boots and shoes, custom work and repairing	23	8,175	1,000	1,000	1,785	4,390	25	—	—	7	3,425
5	Bread and other bakery products	7	45,434	700	2,100	13,130	24,504	12	3	970	58	34,150
6	Carpentering	20	92,030	9,850	16,695	13,485	58,100	29	1	1,200	177	110,034

BY SPECIFIED INDUSTRIES: 1900—Continued.

CAMDEN.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
6,546	\$3,289,453	2,115	\$493,605	280	\$41,376	\$1,487,751	\$114,274	\$58,317	\$909,243	\$405,917	\$11,499,151	\$11,194,586	\$304,565	\$20,451,874	1
7	3,073					1,673	871	28	574	200	6,722	6,491	231	17,579	2
47	22,169					2,955	2,114	204	637		17,716	16,383	1,333	69,271	3
15	5,804					3,517	3,040	146	381		18,133	17,636	497	50,332	4
274	118,878	146	34,566	9	1,517	21,388	2,412	489	13,474	5,013	365,241	361,951	3,290	609,455	5
32	14,600			2	260	8,378	3,417	70	5,391		71,068	70,605	463	117,699	6
92	43,563	8	1,913	1	137	7,796	4,247	814	2,735		164,390	159,072	5,318	309,226	7
141	81,602					47,339	1,727	194	1,634	43,784	191,881	191,724	137	399,779	8
3	1,290	2	500			108	84	16	8		2,405	2,395	10	7,400	9
126	68,175					13,420	5,065	439	7,616	400	71,090	69,117	1,973	218,990	10
395	229,139	2	597			103,591		1,350	23	102,218	230,800	220,146	10,654	586,755	11
142	82,864					15,735	2,626	2,465	10,644		184,331	157,635	26,696	443,058	12
31	15,922	13	2,542	1	104	4,563	2,842	114	607	1,000	30,618	30,098	520	75,100	13
12	7,482	60	14,704			3,615	3,015	50	544		22,307	21,753	551	81,927	14
17	8,036	6	1,082			2,573	1,895	92	586		60,805	60,079	786	97,944	15
9	3,253					281	120	30	125		12,384	12,384		19,834	16
32	17,250					5,403	800	688	4,415		395,152	391,952	3,200	462,454	17
1,041	541,910			1	156	148,576	927	3,323	138,896	435	778,943	714,202	64,681	1,924,401	18
19	9,226	1	189			1,591	1,370	9	212		13,609	13,428	181	38,179	19
17	9,244					7,823		640	7,133		15,499	3,266	12,233	53,318	20
443	185,861			9	1,900	67,039	3,000	1,207	62,832		1,175,425	1,169,220	6,205	1,516,935	21
2	1,000	1	312			558	508	4	46		2,339	2,274	115	8,968	22
3	777					289	274		15		2,047	2,017	30	5,316	23
115	60,936					18,768	8,150	1,568	9,050		216,670	216,440	230	371,800	24
31	12,076					9,362		198	1,164	8,000	14,464	14,164	300	46,548	25
140	81,025					93,120	179	134	2,257	90,500	212,565	212,298	267	457,302	26
5	2,840	15	4,015			1,783	1,387	78	318		14,267	14,040	227	31,310	27
7	8,000					790	265	320	205		5,997	5,801	106	19,040	28
						432	84	57	291		2,737	2,392	345	15,135	29
428	210,026			2	292	61,844		5,507	55,837		989,976	970,976	19,000	1,638,556	30
117	72,433					3,301	2,060	120	1,056	65	49,361	49,192	169	175,881	31
51	25,238					26,214	144	1,000	15,070	10,000	635,778	628,258	7,520	698,308	32
31	13,858	31	7,900	6	1,500	9,162	2,740	230	6,192		43,554	42,276	1,308	108,239	33
71	39,787					8,975	2,869	99	1,007		47,232	46,959	273	119,160	34
7	4,183	8	728			19,319	3,048	115	16,156		13,225	12,166	1,059	46,241	35
129	46,820			1	132	4,353	1,060	148	3,150		37,753	37,253	500	111,845	36
3	1,468	4	1,375			1,602	1,118	4	480		5,055	4,913	142	15,615	37
176	61,851	87	25,787			92,372	30	1,583	90,759		638,616	679,991	8,625	985,958	38
21	17,298					237	43	46	143		8,943	8,943		32,742	39
117	67,285			1	156	6,160	2,400	329	2,945	426	105,240	101,505	785	222,603	40
35	13,384			2	312	3,544	1,218	212	1,664	450	19,195	18,226	969	58,252	41
95	41,949	1	200	8	1,031	40,541	3,952	427	5,353	30,809	33,872	31,567	2,305	163,204	42
27	8,216					4,675	676	108	3,891		40,622	40,297	415	80,616	43
15	5,181					567	216	181	220		10,175	10,090	85	27,254	44
266	177,218					21,452	11,920	373	9,154		142,773	139,513	3,265	409,500	45
25	15,148					2,235		460	1,775		422,653	420,911	1,742	456,418	46
27	13,038	10	2,620	1	156	14,504	270	327	13,467		96,517	94,681	1,836	181,735	47
81	47,199			1	117	8,910	2,155	530	2,211	4,014	89,232	88,452	780	190,556	48
28	10,605	19	7,660	2	267	9,076	1,785	193	7,098		25,846	25,572	271	59,505	49
6	3,408			1	208	1,081	612	106	313		3,255	3,142	113	15,250	50
232	102,568	566	120,698	160	18,150	201,940	4,300	3,690	149,599	44,351	1,406,369	1,388,827	17,542	2,090,991	51
1,860	658,299	1,140	266,267	72	14,981	358,206	21,674	22,280	250,000	64,252	2,284,154	2,183,848	95,806	4,510,387	52

tombstones, 1; oleomargarine, 1; optical goods, 2; paper and wood pulp, 1; paper hangings, 1; pens, steel, 1; perfumery and cosmetics, 1; photolithography and photoengraving, 1; printing materials, 1; refrigerators, 2; rubber and elastic goods, 2; saws, 1; sewing machine repairing, 1; sewing machines and attachments, 1; shipbuilding, iron and steel, 1; show cases, 1; slaughtering, wholesale, not including meat packing, 1; smelting and refining, not from the ore, 1; stamped ware, 1; starch, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; steam packing, 2; surgical appliances, 1; toys and games, 1; trunks and valises, 1; upholstering materials, 2; varnish, 1; washing machines and clothes wringers, 1; window shades, 1; wood, turned and carved, 1; woodenware, not elsewhere specified, 1; wool scouring, 1.

EAST ORANGE.

1,166	\$669,299	187	\$55,146	1	\$50	\$350,162	\$28,939	\$9,358	\$300,011	\$11,854	\$1,583,485	\$1,566,278	\$17,157	\$3,463,141	1
10	5,520					1,876	1,399	55	422		10,863	10,214	149	27,765	2
18	13,880					1,881	1,080	146	685		12,011	11,670	441	44,915	3
7	8,425					2,954	2,560	63	831		7,805	7,648	217	30,099	4
52	32,236	6	1,914			6,180	4,200	170	1,790		81,327	79,244	2,083	153,256	5
177	110,034					6,672	1,178	655	2,879	1,960	234,055	233,651	1,004	413,948	6

TABLE 8.—MANUFACTURES IN CITIES

EAST ORANGE—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.
7	Carriages and wagons -----	3	\$36,900	\$13,500	\$3,000	\$2,800	\$18,100	4	2	\$900	37	\$24,140
8	Clothing, men's, custom work and re- pairing.	13	17,402	625	600	1,995	14,182	14			20	13,161
9	Clothing, women's, dressmaking -----	20	26,445	3,500	3,000	4,840	15,105	20			51	15,923
10	Furniture, cabinetmaking, repairing, and upholstering.	9	11,035	800	8,500	1,360	5,975	9			7	3,947
11	Masonry, brick and stone -----	5	29,845	8,800	2,150	3,510	20,385	6			62	43,954
12	Painting, house, sign, etc -----	9	71,985	7,200	11,400	4,085	49,300	9	5	6,050	135	63,375
13	Plumbing, and gas and steam fitting --	11	76,475	17,000	18,200	6,225	40,050	16	4	3,886	110	59,442
14	Saddlery and harness -----	4	4,895			920	3,975	5			4	2,015
15	Watch, clock, and jewelry repairing----	5	4,525			1,435	8,090	5			4	2,426
16	All other industries ¹ -----	24	1,847,226	86,234	266,591	413,271	1,081,130	22	146	185,154	654	329,658

¹ Embraces awnings, tents, and sails, 1; confectionery, 1; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 2; electrical apparatus and supplies, 1; electrical construction and repairs, 2; foundry and machine shop products, 1; fur hats, 2; instruments, professional and scientific, 1; ironwork, architectural and ornamental, 1; lumber, planing mill products, including sash, doors, and blinds, 1; mattresses and spring beds, 1; millinery, custom work, 1;

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1 All industries.....	419	\$15,665,545	\$1,561,044	\$2,835,401	\$3,520,742	\$7,748,358	444	564	\$731,152	10,497	\$6,024,497
2 Bicycle and tricycle repairing.....	10	12,890	800	1,950	3,315	6,825	11			8	3,749
3 Blacksmithing and wheelwrighting.....	22	36,902	5,952	10,200	6,075	14,675	24			36	22,405
4 Boots and shoes, custom work and repairing.....	46	18,887	4,850	5,050	3,695	5,292	46			15	6,758
5 Bottling.....	3	13,000	1,500	5,850	2,100	4,050	3			4	1,825
6 Bread and other bakery products.....	85	134,875	16,700	64,400	16,060	37,715	89	1	300	95	44,685
7 Carpentering.....	26	100,760	11,650	18,075	8,335	62,700	29	2	238	108	122,625
8 Carriages and wagons.....	10	510,980	47,900	118,240	159,600	215,240	10	25	43,700	192	138,668
9 Chemicals.....	3	671,455	25,000	150,000	123,719	372,736	3	3	4,165	55	28,620
10 Clothing, men's, custom work and repairing.....	23	24,235	1,500	500	2,235	20,000	25			44	22,511
11 Clothing, women's, dressmaking.....	13	18,485	3,650	8,700	1,195	4,890	15			20	7,848
12 Confectionery.....	8	70,455	21,000	23,000	15,700	10,755	9	2	288	23	10,435
13 Electrical construction and repairs.....	3	3,075			1,825	1,250	4			6	2,955
14 Foundry and machine shop products.....	16	4,292,150	517,723	448,445	942,991	2,382,991	12	211	297,023	1,960	1,153,312
15 Furniture, cabinetmaking, repairing, and upholstering.....	7	16,635	1,000	2,000	1,885	11,800	7			11	6,412
16 Lumber, planing mill products, including sash, doors, and blinds.....	6	37,800	3,600	9,100	9,600	15,500	7	1	300	48	24,390
17 Masonry, brick and stone.....	14	86,700	7,400	14,550	10,825	54,425	16	2	1,450	209	143,538
18 Millinery, custom work.....	15	28,827	4,900	15,700	500	7,727	19	1	600	15	3,955
19 Painting, house, sign, etc.....	17	41,792	5,700	5,550	3,677	26,865	24	1	624	105	65,080
20 Photography.....	8	419,743	11,150	74,187	44,135	290,276	7	3	7,875	73	28,614
21 Plumbing, and gas and steam fitting.....	22	99,855	5,800	9,100	10,300	74,655	24	10	4,728	137	75,676
22 Printing and publishing, book and job.....	5	291,350	15,750	36,250	187,800	51,550	6	15	17,885	195	98,150
23 Printing and publishing, newspapers and periodicals.....	6	77,970	5,500	1,000	47,070	24,400	10	15	15,144	55	31,081
24 Roofing and roofing materials.....	3	151,995	30,000	24,900	30,020	67,075	2	9	10,311	51	20,580
25 Saddlery and harness.....	7	25,095	1,400	1,600	2,235	19,860	9	1	800	8	4,644
26 Shirts.....	3	30,000	2,400	15,400	6,500	5,700	3	1	320	156	45,728
27 Tinsmithing, coppersmithing, and sheet-iron working.....	6	22,350	1,200	2,500	7,600	11,050	8	1	334	22	8,896
28 Tobacco, cigars and cigarettes.....	7	12,235	4,000	2,000	660	5,575	7			7	3,384
29 Watch, clock, and jewelry repairing.....	11	4,435			2,990	1,445	11			6	4,216
30 All other industries ¹	64	8,380,609	803,019	1,787,654	1,868,600	3,941,336	54	260	325,067	6,753	3,893,767

¹ Embraces awnings, tents, and sails, 2; axle grease, 1; bookbinding and blank book making, 1; boot and shoe uppers, 1; boxes, wooden packing, 1; brass castings and brass finishing, 1; bridges, 1; carpets and rugs, other than rag, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 2; dyeing and cleaning, 2; electrical apparatus and supplies, 1; fertilizers, 1; files, 1; flavoring extracts, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hat and cap materials, 1; hosiery and knit goods, 1; ice, manufactured, 1; ironwork, architectural and ornamental, 1; jewelry, 1; leather, tanned, curried, and finished, 2; liquors, malt, 2; lock and gun smithing, 2; looking-glass and picture frames, 2; marble and

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1 All industries.....	399	\$3,331,015	\$885,595	\$1,057,447	\$1,967,094	\$4,420,879	432	420	\$510,166	6,443	\$3,076,235
2 Awnings, tents, and sails.....	3	6,900			1,300	5,600	3			9	4,152
3 Bicycle and tricycle repairing.....	6	9,550			1,950	7,600	6			5	2,264
4 Blacksmithing and wheelwrighting.....	14	64,400	25,700	9,500	9,700	19,500	15	1	1,200	36	23,232
5 Boots and shoes, custom work and repairing.....	29	18,145			2,095	16,050	29			16	7,268
6 Bottling.....	9	91,100	1,800	5,000	17,300	67,000	10	2	4,000	15	8,040
7 Bread and other bakery products.....	25	274,800	26,800	141,000	24,500	82,500	27	42	27,880	147	89,964
8 Carpentering.....	9	62,250	6,500	18,000	6,750	31,000	12			151	106,464
9 Clothing, men's, custom work and repairing.....	25	59,540	2,000	5,000	3,690	48,850	26	1	400	45	25,470
10 Clothing, women's, dressmaking.....	6	28,005	3,000	3,000	3,505	18,500	7			69	15,852
11 Clothing, women's, factory product.....	3	42,764			5,650	37,114	5	10	7,600	84	29,812

BY SPECIFIED INDUSTRIES: 1900—Continued.

EAST ORANGE—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 in- cluding 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.										
37	\$24,140					\$2,246	\$1,200	\$326	\$720		\$18,625	\$18,035	\$540	\$57,740	7
19	12,711	1	\$450			4,857	2,964	110	1,147	\$686	17,730	17,430	300	47,931	8
5	8,292	45	12,581	1	\$50	4,280	3,455	163	662		30,115	29,790	325	75,593	9
7	8,947					5,749	1,083	111	555	4,000	8,775	8,685	90	29,314	10
62	43,951					1,079	180	89	660	150	144,125	143,970	155	207,373	11
133	62,775	2	600			5,203	1,678	225	3,300		33,824	33,364	460	135,835	12
110	59,442					4,205	1,530	545	2,130		138,132	137,812	320	250,705	13
4	2,015					1,168	1,008	20	140		3,143	3,098	45	10,780	14
4	2,426					1,200	1,050	35	115		1,938	1,878	60	11,205	15
521	290,052	133	39,601			300,652	4,374	6,645	234,525	5,108	841,407	830,439	10,968	1,967,192	16

mineral and soda waters, 1; monuments and tombstones, 1; paving and paving materials, 1; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; tobacco, cigars and cigarettes, 1; varnish, 1.

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9,580	\$5,776,698	856	\$234,398	61	\$13,401	\$1,351,411	\$78,031	\$38,911	\$986,875	\$217,591	\$9,882,821	\$9,064,107	\$218,714	\$20,546,468	1
8	3,749					2,601	1,555	62	984		8,763	8,712	51	21,061	2
36	22,405					2,897	2,000	162	585	150	22,428	21,451	977	70,192	3
15	6,768					4,702	3,982	151	569		14,817	14,805	452	44,535	4
4	1,825					1,131	48	110	973		47,783	47,776	7	53,940	5
80	41,161	9	2,300	6	1,224	13,373	5,089	1,030	7,254		168,762	163,122	5,640	288,447	6
192	122,443			1	182	41,494	630	597	4,127	36,140	220,513	219,693	820	436,629	7
191	138,368	1	300			37,736	597	4,191	32,828	120	190,240	181,623	8,617	478,855	8
55	28,620					3,086	75	631	2,330		81,026	71,511	12,515	123,587	9
38	20,329	6	2,182			5,781	3,492	95	1,089	1,105	35,974	35,508	466	89,524	10
3	2,027	17	5,821			1,202	578	198	428		4,070	3,800	210	23,570	11
11	7,131	12	3,804			5,458	1,920	703	2,835		26,898	25,746	1,152	53,308	12
6	2,955					389	236		153		2,735	2,540	195	8,605	13
1,941	1,149,256	19	4,056			451,042	11,650	12,425	378,418	48,549	2,092,693	2,041,786	50,907	4,444,034	14
10	6,106	1	216			2,842	2,405	72	364		9,089	8,999	90	26,162	15
48	24,390					1,278	40	413	825		43,024	41,990	1,031	85,900	16
209	143,538					9,911	240	490	5,691	3,500	145,024	144,874	150	847,769	17
105	65,080	15	3,955			2,232	1,680	33	510		13,511	13,344	167	36,092	18
40	15,864	33	12,750			4,426	2,306	274	1,816		31,493	31,431	67	144,695	19
186	75,468			1	208	30,022	1,050	503	28,461		57,233	56,598	635	152,588	20
182	81,502	63	16,643			7,061	3,693	533	2,838		103,470	102,160	1,304	250,078	21
52	30,145	2	728	1	208	18,096	1,422	1,007	15,667		92,844	90,290	2,551	312,766	22
51	20,580					15,627	1,773	399	11,035	2,400	19,134	17,977	1,167	114,797	23
8	4,644					5,088	174	476	4,438		192,448	191,402	1,016	258,330	24
7	4,320	140	40,728	9	680	1,580	1,116	60	404		7,889	7,739	150	24,013	25
13	7,880	8	1,246	1	260	1,118		218	900		837	147	690	55,500	26
7	3,381					1,168	721	52	395		10,532	10,331	201	30,961	27
6	4,210					3,321	780	67	2,474		5,695	5,495	110	17,764	28
6,181	3,742,964	530	140,164	42	10,039	1,911	1,514	35	212	150	2,029	1,944	85	12,875	29
						674,835	27,255	43,871	478,229	125,480	6,228,952	6,101,687	127,265	12,529,921	30

stone work, 2; mattresses and spring beds, 2; millinery and lace goods, 1; mineral and soda waters, 1; models and patterns, 1; monuments and tombstones, 1; oil, lard, 1; oil, not elsewhere specified, 2; optical goods, 1; paints, 2; paper and wood pulp, 1; paper hanging, 1; paving and paving materials, 2; plastering and stucco work, 1; rubber and elastic goods, 1; sausage, 1; sewing machines and attachments, 1; ship and boat building, wooden, 1; shipbuilding, iron and steel, 1; silversmithing, 1; sporting goods, 1; tools, not elsewhere specified, 1; vinegar and cider, 1; window shades, 1; wood, turned and curved, 1.

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4,098	\$2,665,920	1,377	\$331,755	368	\$78,560	\$878,470	\$158,295	\$39,236	\$655,036	\$25,903	\$5,724,626	\$5,612,488	\$112,138	\$12,092,872	1
6	3,320	8	832			692	612		80		3,840	3,810	30	12,400	2
5	2,264					1,208	1,130		78		5,145	5,065	90	15,250	3
39	23,232					1,705	784	510	411		17,185	16,235	950	61,425	4
16	7,263					3,381	3,048		333		11,820	11,425	395	42,300	5
15	8,040					19,042	2,172	175	16,695		137,038	136,439	599	200,450	6
140	88,884	4	700	3	380	12,795	9,138	2,010	1,597		301,084	295,234	5,850	524,900	7
151	106,464					2,844	1,208	525	611		157,035	156,460	675	397,300	8
42	25,086			3	384	7,020	6,375	75	670		46,965	46,620	445	111,270	9
2	1,600	61	13,432			2,071	1,486	100	485		22,060	21,925	135	55,550	10
6	3,120	78	26,692	6	820	6,952	1,890	12	5,550		65,990	65,650	340	135,000	11

TABLE 8.—MANUFACTURES IN CITIES

HOBOKEN—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.
12	Confectionery	8	\$55,000	\$7,000	\$10,500	\$9,900	\$28,500	10	10	\$6,120	41	\$17,940
13	Cooperage	5	64,800	15,500	19,500	800	29,000	7			28	18,800
14	Cork, cutting	3	88,500	3,000	7,000	19,500	69,000	2	13	10,100	137	39,800
15	Dyeing and cleaning	3	9,964	2,000	4,000	1,050	2,914	3	1	302	7	2,871
16	Fancy articles, not elsewhere specified	3	195,000	6,000	16,500	40,500	132,000	6	25	47,000	186	67,594
17	Foundry and machine shop products	15	1,238,745	74,000	107,500	370,153	687,092	14	55	79,703	913	561,585
18	Furniture, cabinetmaking, repairing, and upholstering.	6	8,300	1,000	1,000	300	6,000	6			7	3,830
19	Hats and caps, not including fur hats and wool hats.	4	84,400	5,000	25,000	16,400	38,000	6	4	2,600	207	40,145
20	Ironwork, architectural and ornamental.	3	120,600	32,600	22,700	20,100	45,200	2	3	5,200	116	59,952
21	Lock and gun smithing	7	7,250			1,950	5,300	7			7	3,180
22	Looking-glass and picture frames	4	8,200			500	7,700	4			10	4,960
23	Lumber, planing mill products, including sash, doors, and blinds.	3	122,443	48,500	13,250	28,283	37,410	3	3	4,900	46	29,685
24	Marble and stone work	5	140,900	26,500	5,600	44,300	64,500	9	2	2,000	84	63,352
25	Masonry, brick and stone	5	198,000	3,000	8,000	2,000	185,000	6			79	73,400
26	Mattresses and spring beds	3	10,575	1,000	3,000	275	6,800	3			8	3,160
27	Millinery, custom work	5	27,225	15,000	5,000	225	7,000	6			10	3,408
28	Mineral and soda waters	11	82,800	13,000	33,000	11,300	25,500	12	2	1,800	43	24,868
29	Painting, house, sign, etc	12	48,425	3,500	8,000	3,375	33,550	12	3	2,700	65	45,064
30	Paper and wood pulp	3	195,500	14,500	15,000	131,000	35,000	4	8	7,300	106	54,560
31	Photography	8	16,847			11,460	5,387	7	2	2,250	33	13,232
32	Plumbing, and gas and steam fitting	14	53,600	1,200	3,000	5,400	44,000	18	3	2,800	80	58,712
33	Printing and publishing, book and job	10	26,740			18,000	8,740	13			20	11,669
34	Printing and publishing, newspapers and periodicals.	3	87,800	2,700	2,000	48,400	34,700	1	26	16,350	62	43,800
35	Roofing and roofing materials	8	36,200	3,500	7,000	3,700	22,000	11			59	29,608
36	Saddlery and harness	4	8,100			1,100	7,000	4			3	2,050
37	Silk and silk goods	3	239,417	30,250	36,541	45,500	127,126	9	4	7,500	244	80,328
38	Tinsmithing, coppersmithing, and sheet-iron working.	6	45,600	4,000	8,000	7,500	26,100	5	2	1,800	50	24,376
39	Tobacco, cigars and cigarettes	26	54,799	2,650	5,800	2,900	43,419	32			44	22,852
40	Watch, clock, and jewelry repairing	14	31,900	500	800	4,950	25,650	14			11	6,968
41	All other industries ¹	56	4,365,031	508,895	508,256	1,039,833	2,308,047	56	198	268,661	3,160	1,351,468

¹ Embraces babbitt metal and solder, 1; baking and yeast powders, 2; boot and shoe cut stock, 1; boot and shoe findings, 1; carriages and wagons, 2; chemicals, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; druggists' preparations, not including prescriptions, 1; dyeing and finishing textiles, 1; electrical construction and repairs, 2; fireworks, 2; food preparations, 1; furniture, factory product, 2; glue, 1; hairwork, 1; hat and cap materials, 1; hosiery and knit goods, 2; ink, printing, 1; instruments, professional and scientific, 1; leather, tanned, curried, and finished, 1; lime and cement, 1;

JERSEY CITY.

1	All industries	965	\$80,327,678	\$5,743,192	\$7,865,798	\$28,767,810	\$37,950,878	962	1,676	\$2,095,778	19,499	\$9,126,042
2	Bicycle and tricycle repairing	9	17,020	5,000	3,135	2,210	6,675	9			9	3,461
3	Blacksmithing and wheelwrighting	33	65,630	15,550	19,180	11,950	18,950	38			48	26,166
4	Boots and shoes, custom work and repairing	56	16,414	1,470	3,850	5,021	6,073	56			20	8,017
5	Bottling	12	56,513	5,400	7,250	4,605	39,258	14			22	12,792
6	Boxes, fancy and paper	4	223,768	28,000	68,000	55,492	72,276	3	19	18,288	403	104,625
7	Brass castings and brass finishing	8	959,888	49,506	369,299	186,256	354,822	7	17	15,786	149	83,915
8	Bread and other bakery products	70	285,655	54,500	111,600	41,155	78,400	70	7	8,920	234	141,199
9	Carpentering	37	481,097	35,430	43,400	60,705	291,562	43	10	12,268	770	441,071
10	Carriages and wagons	19	246,600	53,150	51,450	44,800	97,200	21	3	2,446	170	101,095
11	Cars and general shop construction and repairs by steam railroad companies	3	1,408,447	303,836	607,270	187,554	309,787		86	64,799	2,272	1,212,107
12	Chemicals	9	967,193	162,321	149,068	225,743	430,061	7	26	40,644	267	141,720
13	China decorating	4	8,400	1,800	1,000	4,300	1,800	3			44	20,604
14	Clothing, men's, custom work and repairing	34	46,251	3,500	8,500	4,630	29,621	34	4	4,080	61	38,731
15	Clothing, women's, dressmaking	31	43,835	4,500	6,700	5,325	27,310	35	5	2,350	128	26,300
16	Clothing, women's, factory product	5	9,150	1,350	2,600	3,500	1,700	8	1	624	102	18,178
17	Confectionery	21	32,185	3,500	8,500	8,250	11,935	24	5	1,260	42	16,600
18	Cooperage	8	265,457	36,500	55,640	42,341	128,967	7	15	25,028	285	122,009
19	Dyeing and cleaning	9	22,795	6,700	12,100	2,495	1,500	10	2	2,800	17	8,885
20	Electrical apparatus and supplies	5	499,903	17,200	37,900	84,325	360,477	1	80	56,195	308	107,910
21	Electrical construction and repairs	5	21,500	1,500	3,500	4,900	11,600	5	1	986	15	9,020
22	Fancy articles, not elsewhere specified	3	20,410	1,000	500	10,010	8,900	6	4	2,756	26	9,265
23	Flavoring extracts	3	1,300			450	850	2	2	400	1	780
24	Food preparations	8	580,562	30,400	109,384	72,905	367,873	7	52	35,254	219	90,506
25	Foundry and machine shop products	30	2,980,004	251,538	171,945	783,544	1,738,037	21	130	157,744	1,029	575,212
26	Furniture, cabinetmaking, repairing, and upholstering	9	23,940	6,000	9,750	4,140	4,050	9			13	10,051
27	Gas and lamp fixtures	3	65,251	4,000	17,000	23,405	20,846	4			42	19,092
28	Gold and silver, leaf and foil	6	9,465	900	1,650	4,615	2,800	6	4	2,940	39	20,428
29	Hairwork	3	2,330			1,130	1,200	3	1	624	19	4,984
30	Ironwork, architectural and ornamental	6	261,368	13,700	10,877	19,363	217,426	6	30	29,087	184	181,594
31	Lime and cement	3	23,810			2,900	20,910	2	7	7,900	10	5,080

BY SPECIFIED INDUSTRIES: 1900—Continued.

HOBOKEN—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 in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Aver- age num- ber.	Wages.	Aver- age num- ber.	Wages.	Aver- age num- ber.	Wages.										
24	\$12,980	17	\$4,960			\$4,990	\$3,960	\$425	\$605		\$31,120	\$30,435	\$685	\$81,600	12
28	18,800					2,792	156	575	2,061		52,845	52,825	20	98,750	13
45	18,800	92	21,000			5,650	2,500	150	3,000		130,515	128,720	1,825	208,000	14
4	1,886	3	985			1,232	120	75	532	\$505	2,066	1,923	137	10,843	15
158	61,000	28	6,594			7,645	6,165	350	1,130		246,557	245,117	1,440	422,000	16
913	561,585					115,761	19,875	8,401	87,485		662,243	644,118	18,125	1,591,304	17
7	3,830					707	612		95		4,540	4,500	40	15,200	18
44	19,600	162	20,395	1	\$150	3,685	2,560	500	625		95,805	94,595	1,210	160,500	19
116	59,952					7,317	96	880	6,341		185,090	179,617	5,473	278,075	20
5	2,780			2	400	1,233	1,148		85		4,315	4,145	170	16,600	21
10	4,960					1,769	1,664		105		4,995	4,910	85	18,900	22
44	29,373			2	312	8,721		1,344	2,380		61,145	60,605	540	113,000	23
84	68,352					7,625	1,880	1,135	5,110		63,240	62,110	1,130	174,500	24
79	73,400					16,900	300	200	11,400	5,000	98,800	98,800		216,000	25
6	2,896	1	144	1	120	480	240	75	165		5,500	5,460	40	12,900	26
		10	3,408			1,625	1,190	200	235		9,415	9,290	125	21,950	27
43	24,868					1,929	762	645	522		28,012	27,302	710	83,750	28
65	45,064					3,663	3,026	165	472		24,381	24,196	185	96,175	29
95	51,390	11	3,200			11,750	4,400	800	0,550		82,400	51,900	30,500	161,000	30
21	10,052	11	3,048	1	182	4,119	3,204	75	840		53,481	53,231	250	80,830	31
79	58,562			1	150	4,104	3,648	52	404		41,692	40,902	790	147,500	32
20	11,669					2,249	1,881	10	365		13,341	12,823	518	44,799	33
62	43,800					4,258	1,900	548	1,810		29,351	27,321	2,030	118,275	34
55	28,560	4	1,048			5,657	4,977	125	555		33,200	32,550	650	86,750	35
3	2,050					1,200	1,110		90		4,225	4,165	60	12,400	36
92	40,400	92	30,568	60	9,860	19,196		1,316	2,825	15,055	95,556	93,464	2,092	221,920	37
50	24,876					1,409	764	275	370		17,750	17,540	210	63,800	38
39	21,925	5	927			12,091	2,921	80	9,093		33,729	33,569	160	96,619	39
11	6,968					2,499	2,248	15	236		10,200	10,080	170	37,950	40
2,077	1,091,294	795	193,822	288	66,852	563,998	58,092	17,413	483,150	6,843	2,830,925	2,797,566	33,359	5,934,537	41

Lithographing and engraving, 1; millinery and lace goods, 2; mirrors, 1; mucilage and paste, 1; musical instruments, pianos and materials, 1; paints, 1; paper hangings, 1; paper patterns, 1; patent medicines and compounds, 2; pencils, lead, 1; pickles, preserves, and sauces, 1; plastering and stuccowork, 1; pocketbooks, 1; ship and boat building, wooden, 2; shipbuilding, iron and steel, 2; shirts, 1; soap and candles, 1; steam fittings and heating apparatus, 1; surgical appliances, 1; tools, not elsewhere specified, 1; toys and games, 1; varnish, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1.

JERSEY CITY.

14,996	\$3,066,109	4,139	\$995,646	364	\$34,287	\$6,528,570	\$427,120	\$258,104	\$5,509,434	\$333,906	\$52,254,465	\$51,495,525	\$758,940	\$77,225,116	1
9	3,461					873	459	96	318		11,808	11,088	220	25,014	2
47	26,016			1	150	5,597	4,080	490	1,027		32,177	30,487	1,740	104,085	3
20	8,017					6,940	6,167	56	492	225	22,718	21,979	739	67,370	4
22	12,792					7,296	2,700	947	3,619		66,917	66,467	450	103,899	5
85	84,425	323	70,200			15,533		1,788	18,795		109,635	107,583	2,032	233,024	6
147	83,615			2	800	24,600	2,700	1,926	19,474	500	718,897	706,894	12,003	830,728	7
219	138,667	15	5,532			37,760	22,805	3,737	11,218		881,804	869,731	12,073	748,497	8
770	441,071					129,270	3,138	1,713	45,561	78,858	705,884	700,510	5,374	1,394,809	9
167	100,627			8	463	11,837	1,923	2,621	5,843	2,000	123,432	119,606	3,826	324,431	10
2,267	1,210,547	5	1,560			46,574		8,577	87,997		1,289,401	1,260,278	29,123	2,612,831	11
266	141,564	1	156			112,090	4,129	8,814	96,897	2,750	1,682,746	1,619,243	63,503	2,079,357	12
16	10,148	28	10,456			1,979	1,056	77	846		8,988	8,126	802	36,800	13
58	87,481	1	800	2	450	12,429	8,193	159	2,752	1,325	87,561	86,836	725	182,080	14
		128	26,800			8,224	6,792	32	1,400		36,145	36,130	15	101,640	15
		101	17,978	1	200	1,147	454	46	647		1,764	1,270	494	81,890	16
30	13,654	12	2,946			15,955	11,846	303	3,806		71,243	69,916	1,327	154,923	17
263	121,609			2	400	24,492	1,800	4,412	18,280		292,230	290,297	1,933	570,383	18
11	7,335	6	1,550			2,721	928	451	1,842		3,470	2,845	625	24,465	19
208	80,902	60	17,608	45	9,400	47,812	5,800	651	40,861		277,463	273,013	4,445	546,458	20
15	9,020					8,008	1,440	248	1,320		18,220	17,935	235	39,280	21
18	7,265	8	2,000			1,113	480	33	600		19,087	18,952	115	30,250	22
1	780					897	594		163		3,350	3,235	65	7,700	23
121	64,035	84	24,663	14	1,868	123,464	1,800	3,012	118,622		879,651	872,533	7,013	721,050	24
998	564,252	80	10,752	1	208	132,184	10,506	9,199	106,479		725,879	694,605	30,774	1,812,626	25
13	10,051					2,501	938	293	1,265		11,133	10,718	420	31,507	26
42	19,092					1,534	108	765	661		39,106	38,109	997	74,220	27
19	13,620	20	6,803			1,677	576	56	1,045		25,857	25,657	200	58,267	28
4	1,664	15	8,270			654	554		100		7,405	7,235	170	16,550	29
184	131,594					24,650	5,300	3,709	13,241	2,400	208,624	205,879	2,745	463,321	30
10	5,080					4,837	1,500	45	3,232		24,879	24,731	148	48,384	31

TABLE 8.—MANUFACTURES IN CITIES

JERSEY CITY—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.
32	Liquors, malt.....	4	\$2,332,000	\$66,000	\$608,000	\$444,500	\$1,213,500	1	19	\$56,100	123	\$108,700
33	Lock and gun smithing.....	3	1,450			1,050	400	3				
34	Lumber, planing mill products, includ- ing sash, doors, and blinds.....	9	1,384,603	170,000	138,492	382,208	748,903	6	45	60,725	514	253,442
35	Masonry, brick and stone.....	10	142,350	19,600	13,320	8,130	101,300	15	4	8,900	221	149,279
36	Millinery and lace goods.....	7	29,375	2,825	6,900	9,675	9,975	10	1	665	69	28,812
37	Millinery, custom work.....	7	23,870	1,200	8,000	1,170	13,500	8	1	780	14	5,392
38	Mineral and soda waters.....	17	111,165	11,800	24,200	38,015	37,150	20	3	1,508	69	38,078
39	Models and patterns.....	5	5,950			2,900	3,050	5			11	6,282
40	Monuments and tombstones.....	6	38,600	5,600	4,100	2,100	26,800	8	4	3,544	25	22,594
41	Musical instruments and materials, not specified.....	8	498,800	13,000	82,000	139,000	264,800	3	20	19,911	324	180,733
42	Painting, house, sign, etc.....	31	74,420	8,300	9,320	9,463	47,337	35	3	876	183	117,606
43	Paints.....	3	823,560	23,000	43,483	23,556	233,506	2	11	17,074	54	26,540
44	Paper and wood pulp.....	4	353,260	29,000	65,000	132,000	127,200	4	9	21,400	127	67,707
45	Patent medicines and compounds.....	4	62,072	9,000	8,223	8,533	36,316	2	7	7,990	22	11,174
46	Paving and paving materials.....	5	110,903	8,000	13,907	20,914	68,082	5	12	11,000	182	66,415
47	Photography.....	8	15,570	800	2,250	5,375	7,145	7	1	1,200	12	6,176
48	Pickles, preserves, and sauces.....	4	45,967	9,600	6,800	6,412	23,155	7	10	8,116	32	13,400
49	Plumbing, and gas and steam fitting.....	40	212,088	13,450	19,500	19,075	159,763	45	13	11,499	217	129,172
50	Pottery, terra cotta, and fire-clay prod- ucts.....	3	275,158	89,000	27,400	35,548	173,210	2	6	19,950	86	51,232
51	Printing and publishing, book and job.....	18	454,023	16,700	58,900	260,178	118,245	20	27	29,004	442	175,166
52	Printing and publishing, newspapers and periodicals.....	6	245,591	15,500	39,100	133,261	57,733	4	18	31,597	140	115,266
53	Roofing and roofing materials.....	9	229,762	16,361	31,917	17,871	163,613	2	24	26,774	92	80,868
54	Rubber and elastic goods.....	5	628,666	23,276	34,500	146,146	374,744	1	25	43,310	213	106,044
55	Saddlery and harness.....	13	46,030	14,200	12,500	2,690	16,700	13	3	2,190	10	5,822
56	Scales and balances.....	3	87,900	11,700	13,300	22,050	40,850	3	10	11,100	34	17,260
57	Ship and boat building, wooden.....	5	151,400		10,000	64,200	77,200	4	7	12,200	212	116,693
58	Silk and silk goods.....	6	673,321	31,954	52,400	144,677	444,790	7	20	23,600	873	349,117
59	Slaughtering, wholesale, not including meat packing.....	12	374,042	11,133	11,000	4,900	347,009	17	13	16,090	149	109,898
60	Soap and candles.....	6	1,202,677	162,750	215,220	245,294	579,418	8	149	186,244	482	180,868
61	Tinsmithing, coppersmithing, and sheet-iron working.....	30	467,240	41,100	49,100	175,035	202,005	33	16	16,503	294	146,748
62	Tobacco, chewing, smoking, and snuff.....	3	5,352,694	323,135	998,273	620,434	3,404,852		65	56,885	1,456	349,588
63	Tobacco, cigars and cigarettes.....	78	133,373	17,350	30,800	10,992	74,236	81	1	1,000	105	49,785
64	Toys and games.....	3	26,427	3,400	5,500	2,265	15,262	2	1	900	39	8,508
65	Watch, clock, and jewelry repairing.....	14	45,265	3,000	5,000	5,115	32,150	16	1	1,200	12	7,006
66	Window shades.....	7	129,439	17,500	43,500	16,100	52,339	6	27	40,450	81	43,736
67	Wood, turned and carved.....	5	80,301	4,600	8,700	34,740	32,761	8	3	2,840	43	21,465
68	All other industries ¹	113	54,408,114	3,405,107	3,223,831	23,724,213	23,964,958	88	586	808,921	5,602	2,495,553

¹Embraces artificial feathers and flowers, 1; awnings, tents, and sails, 2; axle grease, 1; bags, other than paper, 1; baking and yeast powders, 1; belting and hose, rubber, 2; billiard tables and materials, 1; bookbinding and blank book making, 2; boot and shoe findings, 2; brooms and brushes, 2; carpets, rag, 2; cars, steam railroad, not including operations of railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; chocolate and cocoa products, 1; cleansing and polishing preparations, 2; clothing, men's, factory product, 1; cork, cutting, 1; cotton goods, 2; cotton small wares, 1; crucibles, 1; druggists' preparations, not including prescriptions, 2; drug grinding, 1; dyeing and finishing textiles, 2; fireworks, 2; flags and banners, 1; flouring and grist mill products, 1; fruits and vegetables, canning and preserving, 1; fur goods, 2; fur hats, 1; furnishing goods, men's, 2; furniture, factory product, 1; galvanizing, 1; gas, illuminating and heating, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 1; gold and silver, reducing and refining, not from the ore, 1; grease and tallow, 1; hand knit goods, 1; hats and caps, not including fur hats and wool hats, 1; hosiery and knit goods, 1; ink, printing, 1; ink,

NEWARK.

1	All industries.....	3,339	\$103,191,403	\$8,571,924	\$15,560,685	\$22,153,722	\$56,900,072	3,635	4,509	\$5,634,869	49,550	\$23,999,442
2	Awnings, tents, and sails.....	5	20,325	3,200	6,300	1,000	9,825	5	2	5,000	82	15,566
3	Belting and hose, leather.....	3	14,200			2,871	11,329	4	1	780	8	5,181
4	Bicycle and tricycle repairing.....	45	30,991	2,300	2,250	10,756	15,685	51			39	17,766
5	Bicycles and tricycles.....	3	30,812	9,000	6,000	24,350	41,462		17	19,372	51	21,142
6	Billiard tables and materials.....	4	21,765			1,150	20,615	3	7	8,900	6	8,725
7	Blacksmithing and wheelwrighting.....	101	163,300	39,950	45,800	18,898	58,652	109	5	1,500	145	92,148
8	Bookbinding and blank book making.....	10	69,923			33,667	36,356	10	5	2,987	150	50,826
9	Boot and shoe findings.....	6	136,205	5,400	5,700	30,900	94,205	5	14	15,450	122	46,718
10	Boots and shoes, custom work and repairing.....	209	52,418	11,825	11,950	13,418	15,220	214			79	27,878
11	Boots and shoes, factory product.....	13	1,048,238	3,300	20,500	178,499	845,939	11	131	150,391	1,479	634,297
12	Bottling.....	59	356,023	96,500	86,800	42,333	130,895	77	21	15,100	108	47,302
13	Boxes, cigar.....	3	56,155	4,800	13,100	11,068	27,187	4	1	600	36	14,430
14	Boxes, fancy and paper.....	9	132,499	3,500	6,200	43,948	78,851	9	10	8,505	357	90,176
15	Boxes, wooden packing.....	7	222,176	21,000	38,000	45,843	117,333	7	10	12,711	223	85,861
16	Brass castings and brass finishing.....	12	476,277	84,682	101,763	107,305	182,527	13	7	5,419	130	71,862
17	Bread and other bakery products.....	179	1,339,724	226,050	414,050	349,624	350,000	185	146	106,941	803	433,892
18	Brooms and brushes.....	10	146,755			11,630	135,125	13	27	27,285	184	54,506
19	Buttons.....	23	431,763	3,700	24,000	180,914	273,089	31	49	46,195	1,033	367,304
20	Carpentering.....	175	1,272,616	261,825	153,405	75,013	782,873	208	46	44,917	1,431	1,024,913
21	Carpets, rag.....	5	3,117	500	600	730	1,237	5			3	786

BY SPECIFIED INDUSTRIES: 1900—Continued.

JERSEY CITY—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding 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.										
123	\$103,700					\$813,825	\$175	\$15,800	\$797,850		\$244,090	\$232,450	\$11,640	\$1,294,550	32
514	253,442					425	400		25		465	320	145	2,375	33
						68,379	5,124	10,603	52,652		747,067	742,164	4,903	1,390,377	34
221	149,279					60,712	652	639	1,561	\$57,860	309,313	308,403	825	595,559	35
14	11,590	54	\$16,572	1	\$150	1,987	744	208	1,035		19,617	19,392	225	65,103	36
		14	5,392			2,964	2,220	323	416		18,355	18,195	160	40,256	37
67	37,620	1	302	1	156	7,093	2,364	1,141	3,588		51,239	49,858	1,381	148,291	38
10	6,198			1	84	888	790		93		2,133	1,733	400	15,637	39
25	22,594					836	849	102	385		24,012	23,946	66	65,734	40
287	122,053	28	6,600	9	2,080	22,693	400	1,465	20,828		95,237	92,987	2,250	259,554	41
						8,419	5,666	295	2,358	100	65,070	64,598	472	250,647	42
183	117,606					38,403		1,754	36,649		223,484	219,016	3,568	341,797	43
40	22,980	14	3,550			26,983	1,500	4,520	17,663	3,300	157,865	124,848	33,517	314,990	44
105	62,631	18	4,140	4	936	50,637	720	690	49,127		38,016	37,862	654	146,883	45
21	10,654	1	520			2,694	550	821	1,323		72,095	71,770	825	164,637	46
182	66,415					3,643	1,968	71	1,604		9,686	9,551	135	35,086	47
8	4,776	4	1,400			7,365	324	403	6,638		49,653	49,396	257	101,259	48
21	10,592	11	2,808			34,143	8,150	592	17,001	8,400	269,800	267,153	2,647	610,740	49
213	128,264	2	492	2	416	50,426		2,251	21,784	26,391	178,042	168,428	9,614	806,405	50
84	50,566					22,195	7,755	1,690	12,110	640	206,977	202,781	4,246	488,795	51
233	121,108	164	46,045	45	8,013	11,690	2,040	1,597	7,453	600	48,170	41,406	1,764	249,014	52
129	110,511	8	4,099	8	656	21,039	1,850	1,510	17,679		265,502	264,011	1,491	476,266	53
92	80,868					86,140	3,255	2,492	80,393		882,566	867,403	15,158	1,173,848	54
209	104,900	4	1,144			3,074	2,110	510	454		23,692	23,482	230	51,925	55
10	6,822					6,381		984	5,397		11,023	9,906	1,117	59,688	56
31	16,500	3	760			19,624	9,950	1,074	8,500	5,100	70,204	66,554	3,650	259,000	57
212	116,693					164,720	2,215	1,394	96,498	124,613	604,079	594,269	9,810	1,274,550	58
375	170,462	490	176,455	8	2,300	46,227	33,024	420	12,783		5,891,830	5,388,980	2,850	5,708,763	59
149	109,893					337,298	2,600	10,948	323,750		1,081,443	1,061,801	29,642	2,045,839	60
335	150,618	105	22,275	42	7,980	20,983	8,492	2,635	9,341	515	211,505	207,318	4,187	475,868	61
267	139,860	27	6,888			1,895,990	1,100	11,540	1,883,350		1,851,211	1,817,333	33,878	5,799,668	62
453	176,760	913	153,823	92	19,000	38,063	10,595	1,261	26,207		96,010	94,692	1,318	236,874	63
92	45,826	9	3,424	4	535	2,313	700	153	1,460		9,015	8,810	205	27,021	64
13	3,680	19	4,018	7	810	5,896	4,224	204	618	850	23,430	23,115	315	56,975	65
						15,303	1,280	1,235	12,538	250	340,820	339,150	1,070	591,594	66
12	7,006					10,424	872	502	7,145	1,905	31,720	29,455	2,265	71,562	67
60	39,800	12	3,936			1,809,802	188,202	122,031	1,484,245	15,324	31,148,670	30,761,121	387,549	38,451,812	68
39	20,831			4	604										
4,133	2,160,322	1,399	328,008	70	7,223										

writing, 1; instruments, professional and scientific, 2; iron and steel, 2; kindling wood, 2; lamps and reflectors, 2; leather, tanned, curried, and finished, 2; liquors, various, 1; looking-glass and picture frames, 2; lumber and timber products, 1; mantels, slate, marble, and marbleized, 2; marble and stone work, 2; mattresses and spring beds, 1; oakum, 2; oil, castor, 1; paper goods, not elsewhere specified, 1; paper hanging, 2; pencils, lead, 1; perfumery and cosmetics, 2; photographic apparatus, 1; plastering and stucco work, 2; plated and britannia ware, 1; pocketbooks, 1; refrigerators, 1; sausage, 1; shirts, 1; slaughtering and meat packing, wholesale, 1; springs, steel, car and carriage, 1; stamped ware, 2; steam packing, 1; stereotyping and electrotyping, 1; sugar and molasses, refining, 1; taxidermy, 2; trunks and valises, 2; umbrellas and canes, 1; upholstering materials, 2; varnish, 1; watches, 1; woodenware, not elsewhere specified, 1; wool hats, 1; wool pulling, 1; zinc, smelting and refining, 1.

NEWARK.

37,094	\$20,518,560	11,133	\$3,258,135	1,823	\$222,747	\$10,050,907	\$958,213	\$454,109	\$8,023,599	\$614,986	\$67,105,944	\$65,663,142	\$1,442,802	\$126,954,049	1
14	8,146	18	7,420			1,890	1,080	815	495		23,856	23,771	85	55,553	2
8	5,181					1,720	1,012	78	630		23,107	22,817	290	40,742	3
36	17,410			8	356	7,948	5,943	265	1,320	420	30,401	29,614	787	86,435	4
42	18,612	9	2,500			14,185	800	430	12,155	800	56,192	54,608	1,584	131,897	5
5	3,650			1	75	3,576	2,520	800	256		96,144	96,129	15	139,266	6
139	90,849			6	1,299	17,641	12,576	1,334	3,067	661	68,144	63,854	4,290	282,823	7
75	34,327	68	15,493	7	1,006	6,566	4,418	358	1,745	45	39,415	38,579	836	133,138	8
66	30,845	66	15,873			9,263	2,121	740	5,536	866	119,914	118,597	1,317	233,209	9
76	27,338			4	585	25,471	21,794	398	2,031	1,248	59,861	57,711	1,650	261,686	10
978	505,574	393	109,853	108	18,870	250,972	14,276	3,130	226,359	7,208	1,355,853	1,348,562	6,851	2,530,048	11
102	45,869	6	1,433			23,135	11,411	2,368	15,356		290,743	289,377	1,366	527,404	12
13	7,548	23	6,882			1,023		198	830		19,413	18,594	819	40,041	13
76	28,467	278	61,149	4	560	26,108	6,078	406	19,624		142,860	139,291	3,069	300,980	14
135	69,789	77	13,750	11	1,822	19,267	2,721	1,244	15,302		208,308	200,917	2,391	361,558	15
118	68,802			12	3,000	9,088	1,876	2,786	4,476		234,424	229,018	5,406	375,962	16
713	411,709	75	13,840	15	2,843	143,917	56,817	8,396	78,704		1,498,293	1,468,784	39,449	2,540,245	17
113	41,969	65	11,719	6	818	40,904	9,274	116	81,514		242,600	241,149	1,451	476,552	18
476	223,158	492	127,176	65	14,970	28,889	15,742	1,264	11,883		861,647	853,413	8,234	912,489	19
1,478	1,024,075	1	468	2	370	306,042	14,163	8,973	25,148	257,758	1,759,639	1,754,601	5,038	3,596,388	20
1	516	2	270			502	376	86	90		1,972	1,883	89	6,475	21

TABLE 8.—MANUFACTURES IN CITIES

NEWARK—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.
22	Carriage and wagon materials.....	11	\$311,436	\$10,000	\$11,010	\$74,591	\$215,835	11	26	\$31,051	270	\$128,143
23	Carriages and wagons.....	49	890,625	188,400	193,175	72,003	442,047	57	30	28,612	434	259,056
24	Cars and general shop construction and repairs by street railroad companies.	5	367,175	100,000	100,000	48,800	118,375	8	8	5,776	219	140,084
25	Chemicals.....	9	7,212,378	282,928	571,415	1,174,555	5,183,480	7	161	252,431	1,063	508,056
26	Cleansing and polishing preparations.....	4	7,366			205	7,161	2	1	850	3	1,472
27	Clothing, men's, custom work and re- pairing.....	177	745,446	137,150	97,750	35,809	474,737	185	48	39,118	523	257,191
28	Clothing, men's, factory product.....	46	299,625	40,300	62,500	20,338	176,487	59	21	32,036	1,118	414,314
29	Clothing, men's, factory product, but- tonholes.....	5	5,563	2,200	2,000	1,303	60	8			9	2,639
30	Clothing, women's, dressmaking.....	207	159,899	26,780	40,250	22,308	70,561	224	1	150	314	121,019
31	Clothing, women's, factory product.....	24	931,955	55,700	135,219	76,721	664,315	27	103	88,016	1,330	410,053
32	Coffee and spice, roasting and grinding.....	3	74,185	6,000	6,500	8,385	53,300	5	10	6,755	26	11,567
33	Confectionery.....	29	210,201	29,950	28,760	51,204	100,287	40	34	13,900	114	53,618
34	Cooperage.....	7	99,280	21,300	14,200	10,005	58,775	7	4	3,808	52	29,860
35	Cork, cutting.....	3	9,080	750	1,100	2,230	5,000	3	1	960	16	4,620
36	Corsets.....	9	586,666	15,000	100,000	71,474	350,192	18	62	60,721	1,323	421,307
37	Cutlery and edge tools.....	14	591,834	78,900	92,363	137,349	288,222	11	90	103,285	737	309,454
38	Dyeing and cleaning.....	10	93,395	19,500	18,300	8,010	47,585	12	8	3,000	21	8,560
39	Dye stuffs and extracts.....	6	142,217	5,000	11,000	30,860	95,367	3	17	18,533	38	14,355
40	Electrical apparatus and supplies.....	12	1,463,136	80,722	120,608	304,825	1,066,981	8	91	89,878	475	263,815
41	Electrical construction and repairs.....	16	73,634			13,570	60,064	17	15	13,506	106	57,882
42	Electroplating.....	10	40,580	5,000	10,000	11,075	14,505	14	2	1,716	69	26,900
43	Enameling and enameled goods.....	8	43,527	2,650	6,527	21,820	12,530	7	4	2,756	25	12,118
44	Engraving and diesinking.....	10	42,320			29,310	13,010	16	1	260	60	34,932
45	Engraving, steel, including plate print- ing.....	3	48,105	1,400	1,800	30,800	14,105	5	5	5,568	62	40,860
46	Fancy articles, not elsewhere specified.....	15	782,606	49,400	102,100	218,099	413,001	11	179	170,322	685	283,195
47	Fertilizers.....	3	1,940,316	200,404	186,757	289,212	1,268,943	2	61	116,582	347	171,418
48	Files.....	3	17,250			7,850	9,900	5	3	2,600	39	19,766
49	Flavoring extracts.....	5	54,470	4,000	5,300	2,420	42,750	6			30	8,718
50	Flouring and grist mill products.....	4	89,670	12,000	23,000	14,500	40,170	3	9	7,000	18	9,400
51	Food preparations.....	8	432,121	2,000	35,000	83,692	311,429	7	16	19,208	47	25,514
52	Foundry and machine shop products.....	93	5,434,470	589,722	659,938	1,457,822	2,726,988	78	268	377,338	3,031	1,568,900
53	Fur goods.....	8	91,445	15,500	20,924	4,361	50,660	9	11	6,590	26	15,186
54	Fur hats.....	31	1,272,429	158,600	234,160	249,363	630,237	27	95	111,242	2,273	1,155,251
55	Furniture, cabinetmaking, repairing, and upholstering.....	57	108,065	10,250	14,200	15,775	67,780	67	6	3,260	121	53,648
56	Furniture, factory product.....	7	102,585	9,400	30,500	12,333	50,352	11	8	3,872	123	75,517
57	Gas and lamp fixtures.....	7	41,319			6,654	34,665	7	6	4,280	67	23,073
58	Glass, cutting, staining, and ornament- ing.....	13	80,615	12,300	13,300	10,565	39,450	23	2	1,850	84	47,374
59	Gold and silver, reducing and refining, not from the ore.....	11	626,525	16,500	16,000	58,025	436,000	15	24	25,264	40	26,352
60	Grease and tallow.....	3	47,050	3,850	7,150	2,650	33,000	3	3	3,952	9	6,322
61	Hairwork.....	6	11,400			2,050	9,350	6	1	1,300	23	6,344
62	Hand knit goods.....	6	7,463			2,905	4,558	6			8	2,450
63	Hardware.....	19	795,785	52,000	78,150	259,864	405,771	16	48	57,220	792	321,373
64	Hardware, saddlery.....	19	562,585	63,500	97,500	116,992	284,593	24	37	38,719	467	220,542
65	Hat and cap materials.....	13	90,235	14,000	15,000	24,380	36,855	12	11	12,190	115	33,701
66	Hats and caps, not including fur hats and wool hats.....	26	415,585	44,100	71,948	62,303	237,234	31	37	39,506	629	238,195
67	Ice, manufactured.....	4	865,675	54,750	84,500	190,675	35,750	4	10	14,386	62	29,010
68	Instruments, professional and scientific.....	4	88,250			19,500	68,750	4	15	6,616	28	12,795
69	Iron and steel.....	3	1,499,614	225,000	284,939	252,066	737,609	25	25	43,584	634	346,548
70	Iron and steel, forgings.....	3	148,526	5,462	3,004	42,704	97,356	2	6	12,254	95	65,964
71	Ironwork, architectural and orna- mental.....	10	115,450	25,800	14,950	21,900	52,800	14	8	7,850	100	61,668
72	Ivory and bone work.....	5	85,790			25,013	60,777	6	15	13,442	137	49,254
73	Japanning.....	5	12,825	3,600	4,700	1,400	3,125	4	4		16	6,942
74	Jewelry.....	98	5,512,552	67,250	154,700	662,724	4,727,878	165	321	395,083	2,768	1,555,869
75	Kindling wood.....	3	5,135	3,000	500	875	760	3	3		5	2,034
76	Lamps and reflectors.....	3	29,150			14,600	14,550	1	11	9,038	81	37,480
77	Lasts.....	3	63,122		25,000	27,631	10,491	8	4	6,516	44	20,519
78	Leather goods.....	9	35,893	5,000	2,800	13,240	14,853	8	7	3,665	57	20,261
79	Leather, tanned, curried, and finished.....	61	8,086,652	896,350	1,021,121	614,369	5,554,812	58	221	388,382	3,283	1,661,400
80	Lime and cement.....	4	308,585	23,700	73,800	78,515	132,570	4	9	8,773	98	49,679
81	Liquors, malt.....	16	12,175,804	1,023,872	3,161,492	1,851,180	6,139,260	6	204	489,598	970	774,589
82	Liquors, vinous.....	3	1,060	150	300	100	510	3			1	360
83	Lock and gun smithing.....	21	13,214			5,638	7,676	23			23	11,930
84	Looking-glass and picture frames.....	16	66,188	6,500	8,500	6,799	44,389	16	9	4,470	40	16,461
85	Lumber, planing mill products, includ- ing sash, doors, and blinds.....	13	236,709	14,000	30,200	87,072	105,437	10	29	30,734	200	97,806
86	Marble and stone work.....	20	554,198	89,000	26,100	87,827	351,271	21	27	37,224	439	279,495
87	Masonry, brick and stone.....	64	662,632	46,870	68,530	121,470	425,762	79	23	25,285	1,286	645,860
88	Mattresses and spring beds.....	9	39,492	4,000	5,000	3,547	18,945	13	5	3,900	46	20,543
89	Millinery, custom work.....	53	157,797	23,400	14,100	8,485	111,722	60	31	16,290	237	83,984
90	Mineral and soda waters.....	20	300,950	29,900	40,000	160,940	70,110	24	7	4,854	109	60,302
91	Models and patterns.....	10	30,595			9,065	21,530	13	2	935	59	30,310

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEWARK—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.										
266	\$126,717	4	\$1,426			\$36,492	\$9,629	\$2,229	\$24,634		\$258,891	\$250,479	\$7,912	\$499,397	22
434	259,056					48,017	9,246	5,842	24,893	\$8,066	297,760	291,412	6,348	805,045	23
219	140,084					3,066	495	2,006	565		185,828	184,371	1,457	369,784	24
830	416,144	233	86,912			194,905	1,080	19,267	174,558		1,461,273	1,386,839	74,434	3,118,095	25
3	1,472					795	505		290		4,150	4,021	129	8,130	26
386	223,496	123	31,599	14	\$2,006	196,728	56,368	3,936	29,024	107,350	694,807	690,423	4,384	1,518,470	27
550	275,234	545	136,668	23	2,412	135,516	24,286	3,631	13,109	94,520	286,340	279,307	7,033	1,040,004	28
3	1,134	6	1,505			495	306	34	155		1,800	1,268	32	9,116	29
67	34,510	243	85,652	4	857	80,872	25,669	838	3,662	703	128,082	125,393	2,689	435,110	30
70	39,467	1,219	865,174	41	5,412	111,428	14,416	3,866	86,728	6,418	716,471	709,654	6,817	1,642,554	31
23	11,240			3	327	4,577	1,680	315	2,582		118,209	112,301	903	154,468	32
81	43,739	30	9,427	3	482	83,567	11,296	1,933	19,328	1,000	240,078	237,237	2,811	445,293	33
52	29,860					1,116	114	395	607		72,848	72,649	199	122,111	34
7	2,676	2	600	7	1,844	934	216	18	700		10,440	10,215	225	20,826	35
135	96,093	1,154	320,164	34	5,050	39,181	9,590	2,764	26,837		576,641	570,785	5,856	1,298,754	36
701	300,404	25	7,836	11	1,214	39,165	6,444	2,826	29,895		237,177	222,908	14,269	784,540	37
18	7,481	3	1,085			8,062	4,410	798	2,854		63,322	61,925	1,397	102,195	38
28	12,906	10	1,449			12,503	2,965	521	9,017		111,821	107,979	3,842	222,622	39
385	236,104	80	26,246	10	1,468	183,370	14,400	1,377	167,593		421,795	410,470	11,325	1,169,056	40
106	57,882					10,036	6,068	385	8,507	75	74,343	73,081	1,262	189,216	41
67	26,476	1	325	1	99	3,480	2,009	189	1,282		16,157	13,810	2,347	67,567	42
16	9,032	9	3,086			1,485	1,064	54	367		8,851	8,108	743	32,101	43
55	34,182			5	750	6,949	3,814	43	3,092		3,935	3,304	631	74,029	44
60	40,160	2	700			2,863	2,472	77	314		1,640	990	650	54,250	45
361	216,246	291	62,118	33	4,831	92,782	4,841	2,541	84,650	750	430,913	425,305	5,608	1,079,931	46
314	162,692	30	7,894	3	332	203,281	8,992	9,783	181,556		802,153	770,852	31,301	1,426,285	47
38	19,628			1	138	1,591	1,292	51	248		4,322	3,603	659	40,300	48
8	4,968	22	3,750			2,463	252	117	2,094		35,596	35,481	115	58,132	49
18	9,460					4,447	1,540	800	2,107		275,072	270,880	4,192	353,933	50
46	25,364			1	150	10,506	5,069	57	4,780		71,162	69,043	2,119	156,012	51
2,873	1,530,981	106	29,476	52	8,443	274,641	47,856	20,102	205,168	1,515	2,218,197	2,103,809	114,888	5,536,893	52
14	9,786	12	5,400			8,690	2,794	708	5,188		32,080	31,764	325	81,447	53
1,597	932,093	664	220,424	12	2,784	136,510	15,266	7,782	106,192	7,270	1,741,327	1,687,831	53,493	3,453,619	54
92	50,764	23	6,508	6	1,376	15,994	9,510	777	5,337	370	118,109	116,701	1,408	233,935	55
120	74,365	2	1,000	1	182	9,323	3,138	633	2,552	3,000	52,386	49,506	2,880	197,775	56
47	18,397	18	4,440	2	236	10,666	3,104	78	7,484		48,156	46,794	1,362	104,863	57
84	47,374					4,912	2,611	379	1,872	50	79,894	79,014	9,880	179,824	58
39	26,152			1	200	14,949	5,672	2,827	6,438	12	2,092,107	2,085,422	6,685	2,251,298	59
9	6,322					2,936		106	2,830		45,770	44,735	1,035	66,900	60
1	260	22	6,584			3,175	2,132	11	1,032		7,814	7,769	45	27,900	61
2	1,000	6	1,450			4,865	478	6	31	4,350	9,496	9,481	15	20,671	62
693	304,694	24	6,212	75	10,467	50,893	11,461	3,429	32,700	3,300	419,952	436,251	13,701	1,013,409	63
440	213,171	15	4,433	12	2,938	30,807	5,054	2,050	23,603	100	203,028	191,812	11,216	599,011	64
52	21,838	58	11,258	5	610	6,892	3,189	597	3,081	25	453,675	447,258	6,417	933,890	65
329	149,369	800	88,826			46,516	7,572	1,734	37,210		430,498	418,709	11,789	933,755	66
62	29,010					19,756		2,464	17,292		31,275	9,503	21,772	112,414	67
28	12,795					2,964	1,180	15	1,769		7,334	6,771	563	66,278	68
629	345,548			5	1,000	56,220		5,461	50,759		486,139	344,701	141,438	1,169,744	69
95	65,964					6,449	2,146	519	3,784		42,819	35,075	7,144	139,238	70
100	61,668					11,308	2,439	411	4,958	3,500	186,042	183,324	2,718	316,796	71
99	41,606	29	6,420	9	1,228	4,286	3,304	92	890		87,303	85,828	1,475	180,168	72
14	6,654	1	192	1	96	768	108	127	533		7,083	6,408	675	25,100	73
1,959	1,271,918	773	276,760	36	7,191	419,829	58,496	15,341	345,919	73	3,823,460	3,798,940	24,620	7,364,247	74
5	2,034					758	185	103	470		8,738	3,618	120	7,500	75
75	36,232	3	624	3	624	2,902	2,196	99	607		22,334	21,734	600	85,400	76
44	20,519					4,202	2,298	109	1,795		19,145	17,928	1,217	65,363	77
30	14,756	19	4,105	8	1,400	3,049	2,088	176	785		25,004	25,372	632	70,281	78
3,229	1,648,050	82	8,239	22	5,111	401,929	28,023	30,153	382,621	11,132	7,391,634	7,298,488	93,046	10,857,192	79
98	49,679					15,744	400	597	10,988		119,716	108,148	11,568	221,147	80
966	773,189	2	1,000	2	400	3,750,450	2,760	61,463	3,686,227		1,654,283	1,551,072	103,211	8,236,468	81
1	360					147	70	5	72		400	400		2,210	82
22	11,070	1	260			6,889	5,042	49	1,448	350	11,837	11,338	499	43,427	83
34	15,503			6	958	7,731	5,378	403	1,799	151	62,724	62,170	554	112,607	84
196	96,556	4	1,250			14,192	4,404	1,079	3,609	100	246,481	242,246	4,235	431,343	85
433	277,695			6	1,800	50,429	8,494	2,230	34,234	5,421	358,375	351,850	6,525	824,357	86
1,286	615,360					96,114	5,244	2,428	36,014	52,428	951,193	944,820	6,373	2,035,545	87
35	16,901	11	3,642			3,079	3,551	816	2,972	1,240	73,894	73,239	595	119,292	88
16	8,068	215	75,128	6	788	29,162	18,169	1,337	8,678	978	270,469	269,199	1,270	489,245	89
109	60,302					21,931	2,856	1,134	17,901	40	106,945	104,683	2,232	252,830	90
54	35,290	5	1,020			3,804	2,619	75	1,210		12,693	11,809	884	78,751	91

TABLE 8.—MANUFACTURES IN CITIES

NEWARK—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.		Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIES OF 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.
92	Monuments and tombstones	10	\$17,100	\$10,300	\$8,850	\$2,690	\$25,260	12			22	\$11,810
93	Mucilage and paste	4	9,950		600	3,950	5,400	3	5	\$2,080	8	2,400
94	Oil, not elsewhere specified	5	321,551	11,720	64,426	61,492	183,913		35	61,534	44	24,246
95	Painting, house, sign, etc.	155	315,138	43,355	47,925	36,636	187,242	184	23	14,703	555	\$28,241
96	Paints	6	963,845	41,000	130,400	237,800	554,645	3	62	87,037	237	140,075
97	Paper hanging	5	8,075	1,000	3,000	490	3,585	5			18	10,946
98	Patent medicines and compounds	6	20,500	300	625	2,735	16,900	2	6	5,000	20	8,786
99	Paving and paving materials	7	156,730	10,000	13,125	33,974	99,631	5	8	9,190	89	44,511
100	Perfumery and cosmetics	5	19,852			1,752	18,100	1	14	11,330	34	7,209
101	Photography	26	41,111	3,000	5,200	21,657	11,254	28	4	1,520	29	17,129
102	Pickles, preserves, and sauces	7	33,770	3,500	5,500	4,953	19,817	9			35	16,846
103	Plastering and stuccowork	7	47,330	12,300	13,800	8,405	12,825	8	4	3,750	22	10,360
104	Plumbers' supplies	5	92,440	6,000	6,100	33,222	47,113	4	12	13,812	47	28,523
105	Plumbing, and gas and steam fitting	145	590,845	46,450	80,850	86,505	377,040	172	60	37,778	815	436,062
106	Pottery, terra cotta, and fire-clay products.	4	35,000	17,000	8,400	8,700	6,500	3	5	2,872	16	6,684
107	Printing and publishing, book and job.	54	624,712	25,200	55,163	321,713	222,636	62	104	89,403	493	203,880
108	Printing and publishing, newspapers and periodicals.	10	1,164,835	125,000	36,679	776,775	226,381	12	75	99,456	403	255,410
109	Roofing and roofing materials	14	174,105	20,500	32,250	13,740	107,615	15	14	15,868	130	62,807
110	Rubber and elastic goods	5	213,444			54,027	159,417	1	7	10,928	100	99,385
111	Saddlery and harness	46	708,176	73,700	58,150	106,388	469,938	57	48	49,122	719	336,584
112	Scales and balances	4	403,022			51,270	351,752	2	10	9,020	35	21,210
113	Sewing machine repairing	8	4,681			1,878	2,803	9			2	1,410
114	Shirts	7	64,610	3,572		7,346	53,692	4	11	13,750	158	47,660
115	Silversmithing	6	1,063,236	12,826	395,917	282,928	371,565	4	43	50,677	590	946,718
116	Silverware	6	540,077			79,604	460,478	8	54	50,666	253	129,617
117	Slaughtering and meat packing, wholesale.	8	321,477	22,700	70,000	61,566	167,211	12	36	29,208	169	89,473
118	Smelting and refining, not from the ore.	4	3,505	1,250	1,600	305	350	4			3	950
119	Sporting goods	4	94,963	2,000	6,000	15,000	71,963	2	9	13,000	99	31,163
120	Stamped ware	15	865,686	56,636	113,000	339,638	359,199	16	40	44,915	950	846,704
121	Steam fittings and heating apparatus	3	82,458			14,774	67,684	2	10	19,196	34	15,325
122	Surgical appliances	3	3,275			625	2,650	3			5	2,548
123	Tinsmithing, coppersmithing, and sheet-iron working.	26	173,279	15,350	39,764	45,853	77,312	29	16	17,670	181	95,210
124	Tobacco, cigars and cigarettes	113	560,900	76,575	57,865	16,622	409,838	123	22	22,032	679	298,867
125	Tools, not elsewhere specified	18	647,833	43,472	97,992	177,891	323,478	23	33	43,910	631	318,659
126	Trunks and valises	14	500,044	23,700	30,475	122,967	322,092	18	23	29,369	467	243,762
127	Upholstering materials	3	149,550	20,000	10,000	44,150	75,400	4	3	4,060	37	22,000
128	Varnish	17	3,506,876	225,548	570,874	333,633	2,461,821	7	215	320,407	185	136,685
129	Watch cases	5	1,371,137	23,000	193,000	320,984	829,153	2	38	49,420	637	305,268
130	Watch, clock, and jewelry repairing	54	54,321	5,250	10,650	14,754	23,667	66			53	35,887
131	Wirework, including wire rope and cable.	4	63,670			28,400	35,270	3	12	3,248	80	36,047
132	Wood, turned and carved	15	171,560	8,750	39,000	24,270	99,540	20	5	8,912	104	42,991
133	All other industries	95	22,833,630	1,944,632	4,149,938	7,851,603	8,937,457	75	397	532,054	5,689	2,514,805

¹ Embraces artificial feathers and flowers, 2; babbitt metal and solder, 1; baskets, and rattan and willow ware, 2; boot and shoe cut stock, 2; boot and shoe uppers, 2; brassware, 2; bronze castings, 2; cheese, butter, and condensed milk, factory product, 2; china decorating, 1; chocolate and cocoa products, 1; cloth, sponging and refinishing, 1; coffins, burial cases, and undertakers' goods, 2; copper, smelting and refining, 1; cotton goods, 2; cotton small wares, 1; drug grinding, 1; felt goods, 1; furnishing goods, men's, 1; furs, dressed, 2; gas, illuminating and heating, 1; gas machines and meters, 2; hosiery and knit goods, 1; ink, printing, 1; ink, writing, 2; iron and steel, bolts, nuts, washers, and rivets, 2; jewelry and instrument cases, 1; kaolin and other earth grinding, 1; lapidary work, 1; lard, refined, 1; lead, smelting and refining, 1; lithographing and engraving, 1; lumber and timber products, 2; malt, 1; mantels, slate, marble, and

NEW BRUNSWICK.

1 All industries	193	\$5,023,086	\$345,280	\$815,624	\$1,584,808	\$3,282,374	201	218	\$260,992	3,726	\$1,256,034
2 Bicycle and tricycle repairing	5	3,150			1,225	1,925	5			3	1,150
3 Blacksmithing and wheelwrighting	14	21,260	8,410	4,430	4,130	9,290	17		100	19	9,871
4 Boots and shoes, custom work and repairing.	15	16,375	4,100	4,060	2,370	5,845	16	1		7	2,070
5 Bread and other bakery products	11	40,820	3,200	8,925	11,070	17,625	11	1	884	42	23,176
6 Carpentering	6	25,150	2,200	4,000	4,700	14,250	7			33	22,965
7 Carriages and wagons	4	12,900	1,200	3,400	2,000	6,300	6			7	3,420
8 Clothing, men's, custom work and repairing.	15	45,030	6,800	7,800	1,405	29,025	20	1	400	48	21,455
9 Clothing, women's, dressmaking	7	7,275	650	3,050	885	2,690	7			7	1,624
10 Confectionery	3	8,050			2,000	6,050	4			5	1,560
11 Foundry and machine shop products	10	503,829	14,350	53,131	134,186	302,162	3	24	30,328	327	146,529
12 Furniture, cabinetmaking, repairing, and upholstering.	4	19,900	2,500	8,500	1,850	7,550	4	2	936	6	4,100
13 Millinery, custom work	8	42,100	6,500	13,500	950	21,150	9	2	1,296	32	8,002
14 Monuments and tombstones	5	20,515	665	600	1,200	18,050	5			3	2,316
15 Painting, house, sign, etc.	9	9,760	1,550	1,100	1,390	5,720	12			17	8,740
16 Plumbing, and gas and steam fitting	10	39,725	5,200	7,000	5,075	22,450	11	2	1,100	35	18,784

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEWARK—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 in- cluding 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.										
22	\$11,810					\$1,930	\$620	\$425	\$844	\$41	\$31,593	\$31,293	\$300	\$64,058	92
3	2,400					561	812	29	220		20,687	20,440	247	31,950	93
44	24,246					34,289	1,050	1,536	31,653		423,802	421,637	2,165	587,680	94
552	327,832			3	\$112	40,475	20,281	1,800	17,229	1,165	210,960	210,142	818	815,822	95
220	185,399	17	\$4,076			42,050	3,250	4,084	34,716		822,655	790,605	32,050	1,241,893	96
18	10,946					777	540	69	168		6,195	6,150	45	23,733	97
11	5,727	9	3,059			29,449	1,340	72	28,037		14,922	14,882	40	70,907	98
89	44,511					5,041	1,134	316	3,466	125	85,402	82,102	3,300	100,546	99
11	8,010	23	4,199			32,527	2,114	107	30,806		49,182	48,782	400	102,163	100
25	16,001	4	1,128			12,226	9,158	180	2,888		25,223	24,843	385	89,928	101
26	14,583	7	1,847	2	416	3,336	895	224	2,217		50,183	49,948	235	30,088	102
22	10,360					2,840	1,068	297	1,275	200	15,338	15,508	1,815	46,381	103
47	28,523					15,007	5,383	1,240	8,384		40,364	37,619	2,745	126,321	104
806	493,229	1	812	8	1,521	68,207	27,769	2,371	25,686	7,481	753,885	746,944	7,491	1,692,646	105
14	6,396			2	288	1,062	30	351	681		3,999	2,488	1,516	16,425	106
360	169,658	119	30,632	14	3,095	37,570	15,346	997	20,920	807	185,168	179,316	5,837	674,321	107
376	276,790	26	8,470	1	160	85,417	12,522	3,842	66,373	2,680	399,620	393,218	6,402	1,183,331	108
130	62,807					26,438	2,892	904	22,642		159,728	158,298	1,430	301,461	109
40	25,239	60	14,146			26,760	5,046	1,551	20,163		242,204	239,021	3,183	360,605	110
613	308,621	79	25,602	27	2,361	80,236	14,172	3,865	62,199		523,167	518,677	9,490	1,184,178	111
33	20,910			2	300	4,864	2,178	176	2,510		10,817	15,230	1,587	65,261	112
2	1,410					1,627	1,404	15	208		1,785	1,750	35	10,634	113
17	10,575	141	37,085			5,345	2,520	390	2,435		41,035	39,710	1,825	121,933	114
508	334,989	71	9,970	11	1,759	12,512	2,250	2,449	7,813		544,519	532,898	11,621	1,378,217	115
209	110,575	41	16,860	8	2,682	47,831	8,058	277	39,501		237,800	235,100	2,700	623,719	116
167	89,213			2	260	37,809	7,485	2,382	27,942		2,865,204	2,852,318	12,886	3,093,396	117
3	950					251	120	33	98		18,150	17,775	375	22,825	118
23	12,085	58	17,267	13	1,817	9,384	8,884	284	5,216		176,284	174,578	1,708	263,768	119
593	277,283	241	51,416	116	18,000	31,377	4,230	4,486	22,661		390,071	375,378	14,693	969,595	120
34	15,325					2,473	1,188	142	1,143		68,246	67,810	436	124,550	121
4	2,028	1	520			1,007	664	31	312		1,137	1,142	45	8,480	122
173	93,858	2	288	6	1,064	24,747	5,382	921	14,194	4,250	185,459	182,965	2,494	387,721	123
284	156,042	376	139,429	19	3,396	152,720	15,513	2,437	134,770		378,984	377,062	1,872	1,049,174	124
619	315,705	4	1,254	8	1,700	51,881	5,056	3,198	35,909	7,718	379,018	363,818	15,195	905,800	125
433	234,835	27	7,809	7	1,118	48,540	15,109	2,459	30,927	45	479,388	477,148	2,240	904,501	126
36	21,750	1	250			6,048	2,260	898	2,890		102,504	98,514	3,990	161,638	127
181	135,773	2	612	2	300	143,851	7,545	14,371	121,935		1,121,978	1,111,433	10,540	2,401,849	128
515	255,900	107	44,868	15	4,500	34,535	920	4,120	29,495		730,371	724,956	5,915	1,258,601	129
54	35,085	1	250	3	552	18,376	9,166	313	3,684	5,213	24,080	23,820	760	139,497	130
76	35,272	3	700	1	75	10,306	4,236	470	5,600		51,824	49,944	1,880	113,685	131
74	33,773	1	364	29	3,854	5,879	2,931	740	1,708		30,412	28,064	2,348	111,432	132
3,602	1,938,912	1,771	524,534	316	51,359	983,187	33,882	117,775	779,015	2,515	16,978,910	16,665,941	812,969	25,041,736	133

marbleized, 1; millinery and lace goods, 2; musical instruments and materials, not specified, 2; oil, linseed, 1; oilcloth, enameled, 1; optical goods, 1; paper and wood pulp, 1; paper goods, not elsewhere specified, 1; paper hangings, 1; phonographs and graphophones, 1; photographic materials, 1; photolithographing and photoengraving, 2; pipes, tobacco, 1; plated and britannia ware, 1; refrigerators, 1; rules, ivory and wood, 1; sausage, 2; saws, 2; sewing machines and attachments, 2; shoddy, 1; slaughtering, wholesale, not including meat packing, 2; soap and candles, 2; springs, steel, car and carriage, 1; stationery goods, not elsewhere specified, 1; stereotyping and electrotyping, 2; taxidermy, 1; tobacco, chewing, smoking, and snuff, 1; typewriters and supplies, 2; umbrellas and canes, 2; watch and clock materials, 2; watches, 1; window shades, 1; wire, 1; wood, preserving, 1; wool hats, 1; zinc, smelting and refining, 1.

NEW BRUNSWICK.

2,095	\$860,870	1,442	\$363,542	189	\$31,622	\$661,944	\$25,069	\$32,858	\$593,014	\$11,003	\$2,929,882	\$2,869,765	\$60,117	\$5,812,757	1
3	1,150					694	486		208		2,615	2,425	190	6,810	2
18	9,515			1	366	2,194	709	87	538	1,000	14,261	13,588	673	38,918	3
7	2,670					1,083	612	112	284	125	5,569	5,394	175	15,716	4
33	22,314	3	662	1	200	8,682	2,285	288	1,109		64,804	62,014	2,790	111,174	5
33	22,965					4,188	218	245	825	2,900	39,339	39,474	365	78,994	6
7	3,420					628	292	58	260	18	9,340	9,235	105	17,980	7
45	21,034	8	421			8,603	1,947	239	1,417		27,371	27,597	374	70,010	8
		7	1,634			576	326	142	98	15	1,900	1,825	75	7,875	9
8	1,040	1	260	1	260	1,102	1,020		82		4,886	4,871	115	13,805	10
317	141,329	9	3,900	1	300	41,699	3,365	1,666	29,818	6,850	143,567	133,626	9,941	411,567	11
6	4,100					381	171	125	85		4,528	4,423	105	13,700	12
		32	8,902			2,276	1,360	175	741		24,652	24,420	232	48,200	13
3	2,316					532	355	68	109		7,253	7,230	23	16,000	14
17	8,740					456	284	44	128		7,245	7,225	20	23,425	15
34	18,610			1	174	2,193	846	205	1,122	20	35,565	35,065	500	71,960	16

TABLE 8.—MANUFACTURES IN CITIES

NEW BRUNSWICK—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.		Num- ber.	Salaries.	Total.	
											Average num- ber.	Wages.
17	Printing and publishing, book and job.	5	\$26,100	\$1,500	\$3,500	\$17,300	\$3,800	6			18	\$8,550
18	Printing and publishing, newspapers and periodicals.	8	66,950	3,000	7,000	44,950	12,000	1	10	\$7,748	27	17,166
19	Saddlery and harness	4	4,225	1,000	1,000	575	1,650	4			3	1,565
20	Tobacco, cigars and cigarettes	13	70,505	1,750	2,000	13,250	53,505	15	2	3,160	383	131,623
21	Watch, clock, and jewelry repairing	6	9,850			2,200	7,650	6			10	6,279
22	All other industries¹	36	5,034,617	285,705	682,628	1,832,597	2,738,687	32	173	215,040	2,694	814,589

¹ Embraces bluing, 1; boots and shoes, factory product, 2; boots and shoes, rubber, 1; bottling, 2; boxes, fancy and paper, 1; buttons, 1; carpets, rag, 1; clothing, women's, factory product, 1; dyeing and cleaning, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; grease and tallow, 1; hairwork, 1; hand knit goods, 1; hosiery and knit goods, 2; liquors, malt, 1; lock and gun smithing, 1; lumber, planing mill products, including sash, doors, and

ORANGE.

1	All industries	284	\$1,937,457	\$149,943	\$221,967	\$313,971	\$1,251,576	322	77	\$79,758	2,712	\$1,428,284
2	Bicycle and tricycle repairing	5	3,300			1,625	1,675	5	1	780	6	1,775
3	Blacksmithing and wheelwrighting	11	15,655	2,650	2,000	1,680	9,325	12			14	8,748
4	Boots and shoes, custom work and repairing.	21	3,452			1,900	1,552	22			13	4,416
5	Bottling	3	13,400	500	800	8,350	3,750	3	1	720	5	2,892
6	Bread and other bakery products	17	64,450	14,600	16,500	15,690	17,660	17			69	36,152
7	Carpentering	33	91,244	10,975	11,660	10,732	57,877	39	2	1,400	202	116,784
8	Carriages and wagons	7	29,625	11,000	6,500	2,600	9,525	7	1	364	32	15,806
9	Clothing, men's, custom work and repairing.	11	8,775			1,215	2,560	11			11	4,922
10	Clothing, women's, dressmaking	19	5,870	1,000	500	1,845	2,525	19	1	600	31	7,308
11	Confectionery	3	5,300			3,100	2,200	3			7	2,215
12	Electrical construction and repairs	3	4,635	600	400	435	3,200	3			4	1,920
13	Fur hats	12	1,109,496	50,800	118,782	142,037	797,877	23	42	49,416	1,497	813,525
14	Furniture, cabinetmaking, repairing, and upholstering.	3	3,625			425	3,200	3			7	5,224
15	Glass, cutting, staining, and ornamenting.	4	3,585	250	200	385	2,750	4			6	3,716
16	Lumber, planing mill products, including sash, doors, and blinds.	5	72,621	17,800	10,500	10,100	34,221	6	2	1,980	52	20,540
17	Masonry, brick and stone	16	58,985	7,200	4,100	8,450	39,235	19	4	4,480	179	97,630
18	Millinery, custom work	4	7,420	1,500	1,000	20	4,900	6			4	1,090
19	Painting, house, sign, etc	19	20,128	500	850	3,825	14,953	22	1	260	90	42,419
20	Paving and paving materials	4	18,570			2,205	16,365	8			59	18,777
21	Photography	7	32,025	3,000	5,000	7,550	16,475	7			14	7,223
22	Plumbing, and gas and steam fitting	24	99,610	17,040	18,500	8,910	55,160	32	1	624	131	68,426
23	Printing and publishing, newspapers and periodicals.	5	42,445			28,850	13,595	3	3	8,000	60	31,354
24	Saddlery and harness	4	10,500			650	9,850	4			8	5,280
25	Tobacco, cigars and cigarettes	6	23,545	300	200	675	22,370	6	1	348	22	10,361
26	Watch, clock, and jewelry repairing	3	2,300	700	1,000	325	275	3			2	864
27	Wood, turned and carved	3	5,100			2,300	2,800	3			3	2,240
28	All other industries ¹	32	186,796	9,628	23,475	48,092	105,701	32	17	10,786	134	87,668

¹ Embraces awnings, tents, and sails, 2; bookbinding and blank book making, 2; boxes, fancy and paper, 2; boxes, wooden packing, 2; cars and general shop construction and repairs by street railroad companies, 1; dyeing and cleaning, 2; electrical apparatus and supplies, 1; flouring and grist mill products, 1; foundry and machine shop products, 2; lapidary work, 1; lock and gun smithing, 2; looking-glass and picture frames, 1; marble and stone work, 1; mattresses and spring

PASSAIC.

1	All industries	185	\$23,279,421	\$682,915	\$2,623,627	\$9,362,967	\$10,609,912	178	441	\$654,094	7,102	\$2,778,278
2	Bicycle and tricycle repairing	5	1,945	300	400	545	700	5			4	1,628
3	Blacksmithing and wheelwrighting	9	11,225	3,900	2,100	1,215	4,010	10			14	7,945
4	Boots and shoes, custom work and repairing.	19	2,106	200	600	778	528	20			4	1,860
5	Bottling	5	4,417	1,400	1,600	230	1,187	6			10	4,869
6	Bread and other bakery products	17	62,910	12,000	32,000	7,595	11,315	16			49	23,262
7	Carpentering	5	18,650	3,200	2,900	2,950	9,600	7			61	40,031
8	Clothing, men's, custom work and repairing.	16	5,315			1,605	3,710	16			19	8,913
9	Dyeing and finishing textiles	3	8,554,356	126,500	482,718	1,457,084	1,488,054		57	92,786	1,315	596,583
10	Foundry and machine shop products	6	122,642	13,200	12,000	30,743	66,699	7	4	7,920	64	36,471
11	Furniture, cabinetmaking, repairing, and upholstering.	3	2,700	550	1,100	700	350	4			6	2,928
12	Masonry, brick and stone	5	88,725	2,000	7,300	2,725	76,700	4	2	3,000	244	132,121
13	Millinery, custom work	6	14,065	2,000	7,000	355	4,650	6			13	4,073
14	Painting, house, sign, etc	9	8,249			2,725	5,524	11	2	2,000	54	37,022
15	Photography	4	6,525			3,800	2,725	5			5	1,824
16	Plumbing, and gas and steam fitting	10	27,832	1,000	2,700	5,875	18,257	14	1	1,000	54	32,963

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEW BRUNSWICK—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 in- cluding 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.										
15	\$7,950	2	\$450	1	\$150	\$1,707	\$575	\$150	\$982		\$9,031	\$8,531	\$500	\$25,778	17
19	14,484	6	2,402	2	280	2,661	900	475	1,286	-----	10,677	9,647	1,030	68,776	18
3	1,565					648	528	15	105	-----	2,786	2,716	70	7,250	19
52	40,822	302	83,161	29	7,640	89,581	2,855	145	86,581	-----	227,197	226,727	470	508,400	20
10	6,279					1,460	944	46	470	-----	3,014	2,920	94	15,500	21
1,465	580,567	1,077	261,760	152	22,262	500,697	4,931	28,573	467,018	\$75	2,283,082	2,240,812	42,270	4,250,969	22

blinds, 2; masonry, brick and stone, 1; musical instruments and materials, not specified, 1; needles and pins, 1; paints, 1; patent medicines and compounds, 1; photography, 2; pottery, terra cotta, and fire-clay products, 2; rubber and elastic goods, 1; ship and boat building, wooden, 1; shirts, 1; stamped ware, 1; surgical appliances, 1.

ORANGE.

2,287	\$1,284,986	391	\$135,477	34	\$7,821	\$232,632	\$50,799	\$6,462	\$111,085	\$61,286	\$2,259,185	\$2,201,833	\$57,302	\$4,694,335	1
5	1,515	1	260			1,656	1,346		310		3,912	3,827	85	11,112	2
14	8,748					1,469	1,259	125	85		7,134	6,613	521	34,272	3
13	4,416					1,871	1,604		67		7,648	7,488	160	22,564	4
5	2,892					2,636	336	50	2,250		8,120	7,910	180	19,000	5
60	82,892	9	3,260			10,988	4,844	554	5,690		151,471	148,789	2,682	251,186	6
202	118,784					49,812	1,790	647	4,500	42,875	154,352	153,240	1,112	388,051	7
32	16,806					2,718	1,672	215	781	150	14,209	13,970	299	42,198	8
10	4,638	1	384			2,844	2,089	25	230		7,755	7,660	105	21,993	9
8	1,820	81	7,808			1,428	1,341	50	37		5,875	5,685	190	26,184	10
		8	770	1	125	1,841	1,200	31	610		5,885	5,745	140	15,068	11
4	1,920					827	192	10	125		7,145	7,145		12,750	12
1,194	701,377	276	105,432	27	6,716	85,485	9,682	2,208	65,511	8,054	1,335,610	1,292,183	43,427	2,436,494	13
7	6,224					650	580	10	60		16,540	16,510	30	27,540	14
6	3,716					793	420	3	370		2,065	1,950	115	11,785	15
52	29,540					6,436	900	476	2,060	3,000	61,710	60,025	1,685	125,850	16
178	97,880			1	250	10,340	1,149	228	2,833	6,630	99,993	98,518	1,475	270,895	17
90	42,419	4	1,090			1,251	900	66	285		6,600	6,550	50	14,470	18
59	18,777					2,588	1,392	46	1,150		32,648	32,633	15	109,930	19
						2,770			1,070	1,700	55,202	55,202		89,468	20
10	5,722	3	1,416	1	85	4,743	1,786	132	2,825		7,765	7,600	165	30,200	21
130	68,218			1	208	8,309	4,238	486	8,585		112,831	111,899	932	239,630	22
57	30,504	8	850			5,709	2,316	210	1,706	1,477	14,813	14,015	798	76,786	23
8	5,289					1,173	960	8	205		23,745	23,660	85	44,499	24
18	9,636	3	600	1	125	4,726	982	33	3,711		13,008	12,963	45	36,328	25
2	864					253	120	63	70		1,480	1,350	80	6,400	26
8	2,240					798	558	30	210		2,353	2,095	253	7,133	27
125	78,249	57	14,107	2	312	19,018	7,043	756	10,819	400	99,256	96,588	2,668	267,499	28

beds, 1; mineral and soda waters, 2; monuments and tombstones, 1; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paper hanging, 1; patent medicines and compounds, 1; printing and publishing, book and job, 2; roofing and roofing materials, 1; tinsmithing, coppersmithing, and sheet-iron working, 1.

PASSAIC.

4,694	\$2,188,550	2,192	\$553,192	216	\$36,596	\$1,199,108	\$41,602	\$57,762	\$1,000,159	\$39,585	\$7,971,505	\$7,704,864	\$206,641	\$14,031,254	1
4	1,628					629	496	8	125		1,640	1,580	60	6,686	2
13	7,795			1	150	1,141	702	97	342		5,128	4,779	349	23,810	3
4	1,860					1,397	1,320	8	69		5,027	4,891	136	17,450	4
10	4,869					2,575	540	35	2,000		19,960	19,870	90	30,670	5
42	21,630	7	1,632			5,092	3,020	373	1,699		84,101	81,619	2,482	194,726	6
61	40,031					6,605	360	75	170		80,972	80,932	40	139,455	7
19	9,913					2,546	2,352	7	127		17,722	17,496	226	41,404	8
1,094	541,948	201	50,505	20	4,130	278,240		8,447	269,793		997,407	884,966	112,441	2,316,681	9
64	36,471					3,093	506	867	1,720		111,198	105,563	5,635	175,331	10
6	2,928					200	180	20			3,808	3,780	78	9,805	11
244	132,121					3,147	100	96	2,951		224,948	224,848	100	392,077	12
53	86,878	13	4,078			1,035	890	70	75		9,470	9,445	25	19,870	13
4	1,675			1	144	1,178	942	10	221		15,739	15,656	83	67,604	14
52	32,557			1	149	2,050	1,500		550		5,425	5,305	120	12,770	15
				2	406	2,730	1,959	128	643		72,269	71,794	475	132,040	16

TABLE 8.—MANUFACTURES IN CITIES

PASSAIC—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 num-ber.	Wages.
17	Printing and publishing, newspapers and periodicals.	6	\$158,796	\$20,000	\$34,000	\$84,088	\$20,758	4	12	\$9,661	90	\$25,896
18	Saddlery and harness	4	3,775			325	3,450	4			1	527
19	Tobacco, cigars and cigarettes	7	5,375	1,000	200	675	3,500	6			7	3,793
20	Watch, clock, and jewelry repairing.	5	5,845			2,300	3,545	6			3	1,586
21	Woolen goods	3	832,948		106,938	172,460	553,550		14	27,889	486	167,580
22	All other industries ¹	38	18,341,080	495,665	1,930,071	7,584,244	8,331,100	27	349	510,335	4,599	1,615,953

¹ Embraces belting and hose, rubber, 1; blacking, 1; bookbinding and blank book making, 1; carriages and wagons, 1; chemicals, 2; clothing, women's, dressmaking, 2; confectionery, 2; cotton goods, 1; electrical apparatus and supplies, 1; engraving and diesinking, 1; flouring and grist mill products, 1; food preparations, 1; gas, illuminating and heating, 1; instruments, professional and scientific, 1; liquors, vinous, 1; lock and gun smithing, 1; lumber, planing mill products, including sash, doors, and blinds, 1; mantels, slate, marble, and marbleized, 2; marble and stone work, 1; mattresses and spring beds, 1; millinery and

PATERSON.

1 All industries	995	\$48,510,481	\$2,777,882	\$6,019,607	\$11,519,306	\$23,194,186	1,074	1,242	\$1,617,999	80,190	\$12,812,538
2 Bicycle and tricycle repairing	14	26,489	4,400	3,000	4,615	14,474	15			7	4,096
3 Blacksmithing and wheelwrighting	40	96,855	38,950	25,800	12,730	19,375	44			52	34,791
4 Boots and shoes, custom work and repairing	75	29,263	8,200	7,390	5,250	8,423	79			24	10,516
5 Bottling	7	26,681	1,900	3,650	2,931	18,200	8	2	1,650	13	5,402
6 Boxes, fancy and paper	5	31,900	1,500	3,500	12,400	14,500	6	1	780	49	19,932
7 Bread and other bakery products	80	242,742	70,930	108,950	22,415	40,447	86			138	74,727
8 Card cutting and designing	14	56,000	600	500	32,075	22,825	17			78	33,117
9 Carpentering	40	290,720	61,800	30,900	33,765	161,755	43	16	18,978	552	371,276
10 Carriages and wagons	9	184,050	48,900	33,700	11,150	40,800	9	6	2,635	92	44,454
11 Clothing, men's, custom work and repairing	52	72,092	11,100	9,300	4,593	47,099	58	1	480	58	33,833
12 Clothing, women's, dressmaking	19	19,498	3,000	4,200	2,858	9,440	20			24	10,746
13 Confectionery	23	65,086	15,500	7,000	15,175	27,411	26	14	8,116	31	14,828
14 Dyeing and cleaning	3	1,335	200	100	770	265	3			1	150
15 Dyeing and finishing textiles	30	2,826,293	265,331	493,844	1,187,802	879,726	24	151	221,064	2,707	1,184,764
16 Foundry and machine shop products	37	6,668,425	615,007	1,562,025	1,810,455	2,680,938	31	169	234,295	3,854	1,844,745
17 Fur hats	3	10,800			5,800	5,000	3			7	3,404
18 Furniture, cabinetmaking, repairing, and upholstering	14	23,843	2,800	6,500	2,738	11,805	17	1	50	30	16,060
19 Ironwork, architectural and ornamental	5	30,275	7,100	5,200	10,875	7,100	8			26	13,148
20 Liquors, malt	6	5,685,849	100,000	558,595	1,038,742	3,988,512		35	76,486	245	167,575
21 Lock and gun smithing	7	6,205	1,400	1,500	2,020	685	7			1	453
22 Looking-glass and picture frames	4	2,960			510	2,450	4			3	1,292
23 Lumber, planing mill products, including sash, doors, and blinds	3	110,564	16,500	17,993	14,457	62,514	2	6	4,262	25	11,414
24 Masonry, brick and stone	15	96,560	27,900	8,725	7,630	52,305	16	3	2,780	178	117,712
25 Millinery, custom work	22	38,131	8,800	1,400	2,090	33,841	28	3	666	71	19,515
26 Mineral and soda waters	13	103,400	14,700	14,100	51,200	28,400	13	2	1,000	46	22,720
27 Monuments and tombstones	3	7,950	1,300	700	250	5,700	3			2	1,580
28 Painting, house, sign, etc	45	96,091	10,800	18,950	12,036	54,305	52	8	6,182	223	142,096
29 Paving and paving materials	6	93,450	8,700	3,250	33,350	53,150	7	15	11,820	222	110,199
30 Photography	15	23,100		330	12,900	9,870	16	1	364	14	6,460
31 Plumbing, and gas and steam fitting	45	188,991	19,000	28,650	23,974	117,370	49	8	6,460	247	134,669
32 Printing and publishing, book and job	12	45,799	7,350	4,050	26,585	7,861	13			29	11,756
33 Printing and publishing, newspapers and periodicals	10	386,556	70,450	81,300	145,590	80,216	2	29	35,527	151	96,089
34 Saddlery and harness	12	46,185	7,700	5,800	2,100	30,585	12	1	400	50	21,794
35 Shirts	8	533,100	55,000	120,000	50,100	303,000	8	17	16,118	962	398,139
36 Silk and silk goods	136	19,025,564	535,213	1,882,245	5,086,883	11,571,213	159	602	735,563	15,943	6,291,998
37 Slaughtering and meat packing, wholesale	3	399,800	54,300	91,500	75,500	178,500	4	11	15,464	75	41,562
38 Soap and candles	8	15,255			5,175	10,080	3	3	2,920	5	4,057
39 Tinsmithing, coppersmithing, and sheet-iron working	15	86,656	12,000	13,950	7,599	53,107	15	3	3,744	51	36,701
40 Tobacco, cigars and cigarettes	28	86,980	21,050	21,050	2,185	42,715	28	4	1,584	71	88,068
41 Watch, clock, and jewelry repairing	27	17,212	2,800	2,250	4,680	7,502	31			19	11,762
42 Wood, turned and carved	8	65,174	11,250	17,800	14,944	21,180	11			54	22,700
43 All other industries ¹	84	5,696,602	644,421	871,310	1,719,829	2,461,042	94	130	213,661	3,757	1,377,240

¹ Embraces awnings, tents, and sails, 1; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; belting and hose, leather, 2; bookbinding and blank book making, 1; boot and shoe cut stock, 1; boot and shoe uppers, 1; brass castings and brass finishing, 2; brassware, 2; brooms and brushes, 2; carpets and rugs, other than rag, 1; carpets, rag, 1; chemicals, 1; clothing, men's, factory product, 2; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 2; cotton goods, 2; cotton small wares, 1; dye stuffs and extracts, 1; electrical construction and repairs, 2; electroplating, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; files, 1; flouring and grist mill products, 1; fur goods, 1; furnishing goods, men's, 2; furniture, factory product, 1; gas and lamp fixtures, 1; glass, cutting, staining, and ornamenting, 1; glue, 1; hairwork, 2; hand stamps, 1; ice, manufactured, 1; iron and steel, 1; jute and jute

BY SPECIFIED INDUSTRIES: 1900—Continued.

PASSAIC—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 in- cluding 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.										
74	\$20,909	14	\$3,967	2	\$520	\$8,913	\$912	\$583	\$6,418	\$1,000	\$15,992	\$14,025	\$1,967	\$71,982	17
1	527					633	605	8	25		3,268	3,213	55	7,275	18
7	3,793					2,458	743	10	1,705		7,247	7,187	60	17,577	19
3	1,536					1,097	592		505		1,375	1,300	75	8,340	20
373	134,944	98	30,117	15	2,519	40,360	16,380	3,656	20,824		383,321	380,330	7,991	797,893	21
2,566	1,154,537	1,859	462,838	174	28,578	833,994	7,503	43,269	750,697	32,525	5,900,488	5,766,335	134,153	9,003,308	22

lace goods, 1; monuments and tombstones, 2; paper goods, not elsewhere specified, 1; printing and publishing, book and job, 1; roofing and roofing materials, 1; rubber and elastic goods, 1; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; wood, turned and carved, 1; worsted goods, 2.

PATERSON.

19,242	\$9,561,443	9,502	\$3,015,922	1,446	\$235,173	\$5,059,521	\$390,912	\$203,516	\$2,230,994	\$2,223,099	\$26,882,183	\$26,199,597	\$682,586	\$52,287,975	1
7	4,096					3,229	2,719	101	409		15,656	15,267	389	32,154	2
52	34,791					4,157	2,667	775	615	100	25,054	24,201	1,803	104,965	3
23	10,386			1	130	7,196	6,615	188	393		26,038	25,322	716	79,986	4
13	5,402					1,665	256	112	1,297		33,188	32,786	462	50,442	5
18	9,507	29	9,957	2	468	4,049	1,460	139	2,460		39,719	39,044	675	78,006	6
131	72,580	4	1,521	3	626	16,762	10,167	1,799	4,796		294,160	285,529	8,631	520,449	7
55	33,751	7	1,800	16	2,566	6,788	4,240	204	2,388		42,989	41,964	1,025	114,532	8
550	370,376	2	900			40,875	855	2,179	7,147	30,700	790,750	788,320	2,430	1,895,965	9
90	44,154			2	300	6,925	915	1,633	3,255	1,122	42,844	41,051	1,893	133,895	10
55	32,999	2	684	1	150	25,982	18,988	458	1,678	9,858	78,939	77,527	1,412	196,763	11
17	8,771	6	1,850	1	125	3,691	3,288	103	300		13,830	13,473	357	40,501	12
25	13,740	5	1,028	1	60	14,789	11,788	532	2,419		70,759	68,418	2,341	154,620	13
1	150					167	112	3	52		975	730	245	3,150	14
2,569	1,153,162	65	18,373	73	13,229	154,673	25,955	13,069	115,649		1,808,606	1,699,065	109,541	3,836,409	15
3,588	1,788,094	175	44,028	91	17,623	265,850	19,842	84,510	157,607	53,897	3,101,836	2,983,366	118,520	5,900,617	16
5	2,604	2	800			3,636	2,196	10	230		17,094	16,764	330	29,000	17
27	14,956	3	1,104			2,918	1,794	292	532	1,200	37,504	37,150	354	73,812	18
25	12,948			1	200	1,050	108	151	701		24,069	23,688	981	49,252	19
241	166,775			4	300	1,007,659		11,707	995,952		282,120	256,105	26,015	1,859,537	20
1	463					1,198	952	81	165		1,962	1,728	234	8,265	21
3	1,292					774	680	9	85		3,030	2,974	56	8,310	22
25	11,414					2,565	100	612	1,853		71,569	70,240	1,329	101,429	23
178	117,712					11,580	84	736	7,191	3,575	163,516	163,161	355	332,880	24
39	21,020	71	19,515	7	1,700	10,389	8,858	306	1,225		53,922	53,354	568	118,232	25
						3,673	1,470	517	1,686		41,919	40,754	1,165	111,134	26
2	1,580					173	42	80	50		2,232	2,200	32	6,450	27
223	142,096					9,606	7,421	663	1,472	50	99,995	99,654	341	332,291	28
222	110,199					34,397	502	220	21,215	62,400	138,760	135,800	2,900	371,592	29
11	5,640	8	820			7,001	6,196	91	714		16,661	16,410	254	55,000	30
242	133,994			6	675	13,301	6,934	702	3,015	2,650	253,660	251,949	1,711	487,617	31
25	10,669	3	962	1	125	6,821	2,486	182	1,153	3,000	11,147	10,055	1,092	43,465	32
92	77,498	49	17,637	10	954	20,315	2,415	2,481	14,814	605	52,203	48,613	3,590	252,225	33
46	20,494	4	1,300			3,725	2,567	350	808		31,311	30,811	500	79,834	34
252	162,446	681	229,312	29	6,881	19,520	500	3,920	10,600	4,500	432,981	425,544	7,437	942,000	35
7,668	3,732,942	7,443	2,415,004	832	144,052	2,946,066	215,478	79,208	601,988	2,049,332	14,105,821	13,944,257	161,564	26,006,156	36
75	41,562					30,965		1,500	29,465		1,042,952	1,037,242	5,710	1,370,486	37
5	4,057					1,577	408	85	1,134		59,230	58,705	525	70,419	38
54	36,701					7,177	1,254	499	4,224	1,200	83,803	83,192	611	163,894	39
63	36,532			8	1,594	16,953	3,610	535	12,811		65,588	65,075	513	146,086	40
18	11,402	1	300			3,922	2,299	121	302	1,200	6,897	6,744	153	46,595	41
54	22,700					2,406	298	474	1,634		18,132	16,653	1,479	57,252	42
2,452	1,084,738	947	249,027	358	43,475	283,392	23,327	42,176	215,480	2,410	3,376,999	3,164,762	212,237	6,517,869	43

goods, 2; leather goods, 2; linen goods, 2; lumber and timber products, 1; mantels, slate, marble, and marbled, 2; marble and stone work, 2; mattresses and spring beds, 1; millinery and lace goods, 1; mirrors, 1; musical instruments, pianos and materials, 2; oil, not elsewhere specified, 1; optical goods, 2; paper goods, not elsewhere specified, 2; paper hanging, 1; patent medicines and compounds, 1; pickles, preserves, and sauces, 1; plastering and stucco work, 1; regalia and society banners and emblems, 1; roofing and roofing materials, 2; ship and boat building, wooden, 1; steam fittings and heating apparatus, 1; surgical appliances, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; toys and games, 1; washing machines and clothes wringers, 1; wire, 1; wirework, including wire rope and cable, 2; wool scouring, 1.

TABLE 8.—MANUFACTURES IN CITIES

TRENTON.

	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	570	\$26,174,895	\$8,402,780	\$4,947,856	\$4,726,605	\$13,097,654	578	839	\$996,482	14,457	\$6,791,026
2	Bicycle and tricycle repairing	6	3,725	1,000	1,000	750	975	8			7	8,424
3	Blacksmithing and wheelwrighting	32	48,985	23,200	10,940	4,858	9,887	36			31	16,158
4	Bookbinding and blank book making	3	6,100			4,600	1,500	3	1	720	17	5,702
5	Boots and shoes, custom work and repairing.	61	14,925	2,100	3,500	6,085	3,240	61			22	8,159
6	Bottling	7	78,110	13,000	24,000	22,310	18,800	6	7	4,120	51	27,996
7	Boxes, wooden packing	6	13,791	3,800	1,300	2,920	5,771	6			28	11,115
8	Bread and other bakery products	45	266,184	54,150	113,820	46,190	52,024	50	21	13,260	229	99,789
9	Brick and tile	6	271,969	119,754	44,200	25,350	82,665	8	1	624	220	85,585
10	Carpentering	14	73,450	12,650	25,050	8,050	26,700	14			109	66,952
11	Carriages and wagons	9	101,529	10,000	30,000	10,289	51,240	8	7	6,580	106	64,470
12	China decorating	4	79,835	2,500	22,958	3,150	51,227	5	8	10,838	80	24,712
13	Clothing, men's, custom work and repairing.	22	91,600	10,600	12,500	2,575	65,925	26	8	5,222	105	44,989
14	Clothing, women's, dressmaking	19	3,730			2,730	1,000	19			83	16,200
15	Clothing, women's, factory product	3	14,860	2,000	5,000	4,800	3,060	4	1	280	49	13,040
16	Confectionery	11	74,826	9,200	16,800	17,845	30,981	10	31	10,656	52	19,819
17	Cooperage	4	6,125	750	2,600	1,175	1,600	5			14	4,075
18	Dyeing and cleaning	4	2,045			1,660	385	4			7	3,148
19	Flouring and grist mill products	5	193,000	89,000	63,500	49,000	41,500	3	9	5,023	21	10,320
20	Foundry and machine shop products	17	620,757	71,000	139,412	191,792	218,553	13	40	56,937	634	281,732
21	Furniture, cabinetmaking, repairing, and upholstering.	5	3,345	300	800	1,565	1,180	6			7	4,211
22	Furniture, factory product	4	94,649	11,630	17,592	16,848	48,579	1	16	13,377	95	40,983
23	Iron and steel	3	7,669,989	302,598	460,000	993,340	5,914,051	129	158	531	3,679	1,507,876
24	Kaolin and other earth grinding	3	162,500	43,500	33,000	32,000	54,000	17	17	123	74	34,350
25	Lamps and reflectors	3	563,471	95,707	95,578	98,237	273,889	8	35	58,103	253	104,046
26	Liquors, malt	3	455,540	47,500	197,040	111,000	100,000	18	25	348	58	33,199
27	Looking-glass and picture frames	5	5,950		300	575	5,075	6	2	800	5	3,000
28	Lumber, planing mill products, including sash, doors, and blinds.	3	97,800	13,000	16,000	15,000	53,800	4	5	5,360	80	60,932
29	Masonry, brick and stone	6	74,220	14,600	3,700	11,620	44,300	7	7	5,300	150	156,000
30	Millinery, custom work	11	32,522	1,000	3,000	435	28,087	13	8	2,410	38	11,714
31	Mineral and soda waters	3	15,200	1,000	2,000	8,900	3,300	8	5	3,100	9	4,300
32	Monuments and tombstones	4	18,275	1,200	1,000	575	15,500	3			10	7,216
33	Optical goods	3	5,980			1,230	4,750	4	4	3,400	1	215
34	Painting, house, sign, etc.	25	14,535	2,900	1,400	5,225	5,010	28			64	39,889
35	Paper hanging	14	57,675	14,000	11,000	1,425	31,250	15			50	28,140
36	Patent medicines and compounds	3	22,793			1,100	21,693	4			1	400
37	Photography	11	22,645	3,000	6,150	9,550	3,945	12	1	700	15	7,178
38	Plumbing, and gas and steam fitting	11	28,700	1,000	2,000	3,550	22,150	13	5	2,896	80	45,600
39	Pottery, terra cotta, and fire-clay products.	29	7,086,775	1,216,402	2,232,483	1,480,067	2,167,823	34	198	260,011	4,239	2,313,754
40	Printing and publishing, book and job.	10	155,838	53,600	28,400	61,900	11,938	11	6	4,016	75	38,401
41	Printing and publishing, newspapers and periodicals.	7	314,150	76,000	57,500	147,500	33,150	7	29	21,344	126	95,354
42	Roofing and roofing materials	11	66,885	14,600	22,488	8,436	21,361	13	4	2,611	56	34,891
43	Rubber and elastic goods	6	1,224,908	50,000	152,425	302,151	720,332		54	90,001	530	228,192
44	Saddlery and harness	7	21,171	3,000	5,000	310	12,861	7			11	5,887
45	Tinsmithing, coppersmithing, and sheet-iron working.	4	2,475			1,600	875	4			6	3,014
46	Tobacco, cigars and cigarettes	20	28,510	1,600	6,900	2,085	17,925	20	1	240	42	21,881
47	Watch, clock, and jewelry repairing	19	5,450			2,400	3,050	18			15	7,942
48	All other industries ¹	59	5,947,398	1,059,939	1,076,020	1,000,792	2,810,647	53	161	212,546	2,769	1,125,596

¹ Embraces agricultural implements, 1; awnings, tents, and sails, 1; belting and hose, leather, 1; belting and hose, rubber, 1; bicycles and tricycles, 1; boots and shoes, factory product, 1; boxes, cigar, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; brooms and brushes, 1; carpets, rag, 1; carriage and wagon materials, 2; chemicals, 1; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 2; electrical apparatus and supplies, 1; emery wheels, 1; fertilizers, 2; food preparations, 2; gas, illuminating and heating, 1; grease and tallow, 1; hand knit goods, 1; hand stamps, 2; hardware, 1; ice, manufactured, 1; iron and steel, forgings, 2; ironwork, architectural and ornamental, 1; lock and gun smithing, 2; marble and stone work, 1; mattresses and

WEST HOBOKEN.

1	All industries	177	\$4,042,373	\$145,550	\$601,275	\$671,015	\$2,624,538	191	173	\$152,147	3,028	\$1,248,244
2	Awnings, tents, and sails	3	475		50	250	175	4			1	210
3	Bicycle and tricycle repairing	4	5,900			1,350	4,550	4			3	1,118
4	Blacksmithing and wheelwrighting	4	8,000	2,500	4,450	600	450	4			4	1,852
5	Boots and shoes, custom work and repairing.	19	25,425	3,200	6,800	1,820	13,605	19			4	2,048
6	Bread and other bakery products	20	73,428	12,750	43,300	9,470	7,908	20	3	1,560	50	28,813
7	Carpentering	18	99,905	26,500	53,500	6,325	13,580	20			96	85,145
8	Carriages and wagons	3	11,620	3,700	3,500	1,750	2,670	3			8	3,570
9	Clothing, men's, custom work and repairing.	3	6,364	900	1,100	770	3,594	3			7	2,555
10	Masonry, brick and stone	6	39,650	10,200	16,900	4,125	8,425	8			76	45,099
11	Millinery and lace goods	8	19,650	3,900	8,000	4,650	3,100	3			23	10,707

BY SPECIFIED INDUSTRIES: 1900—Continued.

TRENTON.

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 in- cluding 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 num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
11,611	\$6,090,836	2,484	\$638,600	332	\$61,590	\$2,057,474	\$97,659	\$107,882	\$1,774,780	\$77,203	\$18,057,504	\$17,866,069	\$691,435	\$31,645,695	1
7	3,424					1,159	740	59	360		2,795	2,795		10,500	2
31	16,158					3,074	2,331	396	347		39,692	38,579	1,113	78,625	3
7	3,120	8	2,307	2	275	1,082	996	56	30		4,567	4,445	122	18,000	4
19	7,834			8	325	5,761	5,460	106	195		20,680	20,605	75	56,455	5
51	27,906					25,347	1,210	377	23,760		86,822	86,374	448	181,771	6
28	11,115					510	206	105	199		10,574	10,129	445	26,198	7
203	94,718	7	1,480	19	3,541	21,934	9,238	2,609	10,087		285,418	275,077	10,336	549,586	8
211	81,199			9	1,836	6,361	906	1,185	4,210		21,967	11,579	10,388	143,068	9
109	66,952					32,010	571	534	905	30,000	114,152	113,390	762	268,614	10
106	51,470					5,921	2,338	1,845	1,738		56,850	55,664	1,186	152,247	11
22	12,083	46	10,975	12	1,654	6,578	156	333	6,089		58,890	58,204	686	114,984	12
72	36,352	31	8,356	2	281	17,956	6,798	1,287	4,967	4,904	71,089	70,497	592	175,173	13
2	1,000	81	15,200			2,670	2,670				16,477	16,165	312	49,500	14
2	900	47	12,080			830	500	130	200		29,280	28,745	485	48,000	15
30	15,352	22	3,967			7,868	4,725	407	2,786		69,629	68,099	1,530	145,330	16
14	4,075					365	150	40	175		5,250	5,250		20,425	17
5	2,790	1	150	1	208	1,232	1,160	17	55		1,879	1,290	80	10,100	18
21	10,820					4,547	1,000	898	2,649		292,654	291,444	1,210	853,113	19
609	276,663	19	4,000	6	1,069	16,041	1,756	2,506	11,818	466	419,012	390,664	28,348	894,239	20
7	4,211					571	540	14	17		1,920	1,868	52	10,800	21
92	39,933	3	1,050			11,798	1,740	655	9,403		48,427	47,446	981	129,828	22
3,450	1,452,058	175	48,734	54	7,084	794,308		18,188	776,120		9,950,687	9,737,791	212,896	13,260,787	23
74	34,380					7,730		2,149	5,590		133,099	119,890	13,209	199,577	24
149	75,916	101	28,130			96,188	500	1,050	94,638		190,135	184,622	5,513	505,509	25
53	33,199					164,398		4,394	160,004		82,578	78,713	8,865	385,307	26
4	2,800			1	200	1,069	984	56	29		6,929	6,919	10	17,174	27
80	60,932					2,018	240	498	1,280		87,976	87,220	755	174,200	28
159	156,000					6,830		675	1,155	5,000	104,569	103,669	900	400,800	29
9	4,800	37	11,580	1	125	7,253	3,827	329	2,972	125	40,772	40,372	400	101,831	30
						4,482	170	207	4,106		16,133	14,898	235	33,260	31
10	7,216					897	624	68	205		30,225	30,200	25	44,736	32
1	215					1,805	1,100	30	675		5,490	5,390	100	14,500	33
61	30,889					2,092	1,428	182	482		18,865	18,815	50	90,750	34
49	27,790	1	350			2,796	1,962	414	420		25,670	25,575	95	74,425	35
1	400					449	182		317		510	509	1	3,320	36
10	5,718	5	1,460			4,677	2,316	133	1,228	1,000	5,638	5,411	227	82,720	37
30	45,600					3,783	2,664	404	720		57,640	57,191	449	157,047	38
3,284	2,054,930	887	264,628	118	24,196	386,769	6,800	28,469	344,707	5,783	1,196,291	909,183	287,108	4,785,142	39
63	36,072	10	2,000	2	329	7,127	2,834	898	8,896		31,422	29,047	2,375	109,744	40
117	93,106	6	1,800	3	358	12,517	1,158	1,377	9,982		57,008	52,498	4,510	254,116	41
56	34,891					5,576	1,167	321	4,088		66,652	66,176	476	126,900	42
488	217,713	14	4,176	28	6,803	45,705	1,000	6,110	33,595		956,900	925,421	31,479	1,689,893	43
10	5,737			1	150	2,018	1,490	43	485		12,052	11,971	81	20,180	44
6	3,014					742	618	34	90		5,078	5,038	40	10,840	45
34	19,820	2	1,000	6	1,061	12,826	2,178	207	10,446		27,272	27,227	45	72,407	46
15	7,942					4,966	4,916	25	25		5,357	5,357		31,670	47
1,727	897,383	978	215,168	64	13,045	305,834	14,305	28,062	233,542	29,925	3,286,088	3,223,648	62,440	5,604,369	48

spring beds, 2; models and patterns, 2; musical instruments and materials, not specified, 1; musical instruments, pianos and materials, 1; oilcloth, floor, 1; pickles, preserves, and sauces, 1; refrigerators, 1; saws, 1; sewing machine repairing, 1; ship and boat building, wooden, 1; shirts, 1; slaughtering and meat packing, wholesale, 2; surgical appliances, 1; umbrellas and canes, 1; watches, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1; woolen goods, 2; worsted goods, 1.

WEST HOBOKEN.

1,479	\$719,846	1,475	\$512,283	74	\$10,116	\$677,718	\$22,126	\$9,321	\$165,272	\$480,994	\$2,829,789	\$2,798,505	\$31,284	\$5,491,760	1
8	1,118	1	210			298	278	6	14		2,120	2,110	10	4,518	2
4	1,852					886	720		166		6,068	5,911	157	11,322	3
4	2,048					347	25		254		8,144	2,997	147	8,460	4
49	23,609			1	204	2,804	1,885	82	887		6,702	6,182	520	16,332	5
96	85,145					12,262	3,786	758	7,708		97,505	93,182	4,323	170,934	6
8	3,570					77,257	612	731	4,485	71,479	113,227	112,921	306	319,068	7
6	2,305					852	144	60	148		4,709	4,576	133	11,743	8
76	46,099	1	250			1,768	1,448	30	285		12,640	12,228	412	21,162	9
6	5,100	14	4,982	8	625	8,278	120	335	3,643	4,130	66,629	66,575	54	132,021	10
						1,840	276	128	742	700	6,595	6,342	253	25,209	11

TABLE 8.—MANUFACTURES IN CITIES

WEST HOBOKEN—Continued,

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND TOWNS.	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.
12	Millinery, custom work.....	4	\$4,246			\$750	\$3,496	5			6	\$1,065
13	Painting, house, sign, etc.....	18	50,135	\$9,800	\$23,500	4,655	12,180	22			47	25,822
14	Plumbing, and gas and steam fitting.....	9	31,130	6,200	9,300	4,670	10,960	9	1	\$520	31	14,968
15	Printing and publishing, book and job.....	3	4,415			3,100	1,315	3			2	1,710
16	Saddlery and harness.....	4	11,170	2,000	4,800	435	3,935	4				
17	Silk and silk goods.....	5	3,327,900	27,500	348,000	534,700	2,417,700	5	155	136,677	2,306	880,171
18	Tobacco, cigars and cigarettes.....	9	23,780	5,100	5,950	1,655	10,075	9			12	7,355
19	All other industries ¹	37	300,180	81,300	72,125	89,940	106,815	41	14	13,390	852	141,036

¹ Embraces artificial feathers and flowers, 2; brooms and brushes, 1; buttons, 1; carpets, rag, 1; chemicals, 1; clothing, women's, dressmaking, 1; cotton small wares, 1; dyeing and finishing textiles, 1; electrical construction and repairs, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; foundry and machine shop products, 1; fruits and vegetables, canning and preserving, 1; furniture, cabinetmaking, repairing, and upholstering, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 2; ironwork, architectural and ornamental, 1; lock and gun smithing, 1; lumber and timber products, 1; lumber, planing mill

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns	2,380	\$53,968,603	\$4,067,098	\$10,572,299	\$12,228,586	\$27,100,680	2,514	1,980	\$2,355,055	34,319	\$15,267,218
2	Bloomfield	150	3,354,149	180,370	396,495	696,441	2,080,843	162	148	224,014	1,840	899,298
3	Boonton	39	575,470	13,830	68,375	174,460	318,805	42	32	30,418	574	218,613
4	Bordentown	35	590,439	95,540	81,075	95,713	378,111	36	12	9,615	469	123,632
5	Boundbrook	47	716,323	17,303	95,203	272,935	330,832	44	24	34,794	523	190,005
6	Bridgeton	135	2,357,651	249,336	343,000	452,077	1,313,288	154	119	109,344	2,333	836,188
7	Burlington	88	1,471,543	101,900	226,968	446,254	695,431	96	105	142,106	1,461	640,453
8	Dover	56	951,695	98,825	224,956	292,920	334,994	56	61	45,389	1,367	657,548
9	Gloucester City	74	3,038,922	123,350	187,810	622,531	2,105,201	75	72	218,294	1,555	535,923
10	Guttenberg	43	802,807	39,400	101,900	80,100	31,407	48	8	7,244	125	85,070
11	Harrison	79	5,210,605	662,100	839,246	1,607,081	2,102,178	72	207	237,807	2,983	1,463,265
12	Irvington	60	305,503	35,875	99,600	68,496	161,532	67	15	16,145	331	139,485
13	Kearney	33	2,097,861	135,736	483,246	482,384	996,495	32	33	47,520	1,102	417,985
14	Lambertville	70	1,763,221	96,010	234,233	304,776	1,128,202	69	72	76,407	913	367,959
15	Millville	47	3,229,206	194,250	839,873	423,993	1,771,090	50	154	161,398	2,290	1,115,696
16	Montclair	197	1,037,352	164,400	215,000	228,151	429,801	207	30	20,550	1,092	619,079
17	Mt. Holly	61	460,559	40,350	95,159	146,171	178,879	67	28	21,180	493	167,178
18	North Plainfield	83	142,524	13,250	32,700	22,839	73,685	35	7	6,024	147	77,704
19	Perth Amboy	129	6,637,766	592,663	1,872,765	1,422,334	2,750,004	127	161	186,396	2,258	1,053,242
20	Phillipsburg	87	3,411,239	121,216	597,949	590,592	2,101,482	92	77	105,413	2,560	1,000,331
21	Plainfield	135	2,683,449	170,600	537,945	744,212	1,230,692	143	139	150,985	1,751	970,018
22	Rahway	100	915,208	53,000	182,435	189,547	485,226	111	42	36,184	778	407,490
23	Raritan	27	659,471	86,300	185,800	151,077	236,204	27	11	17,400	1,010	299,970
24	Salem	75	722,434	61,627	148,705	133,004	379,098	82	36	24,477	933	316,303
25	Somerville	88	1,130,976	74,700	163,100	296,885	626,291	97	58	64,853	402	235,050
26	South Amboy	44	282,770	15,100	161,525	40,405	65,740	47	13	10,485	238	113,344
27	South Orange	45	103,664	20,500	21,375	18,085	48,704	53	3	2,720	157	88,740
28	Union	159	5,618,279	309,886	1,326,194	954,236	3,027,963	163	92	164,086	1,662	841,247
29	Vineland	58	840,305	42,300	159,270	185,984	462,761	68	45	28,456	837	369,976
30	Washington	41	759,518	21,125	108,900	112,005	517,488	43	57	35,422	650	258,050
31	West Orange	64	1,373,039	167,593	345,866	489,423	370,157	70	74	68,804	1,034	499,319
32	Woodbury	81	1,123,715	123,663	195,611	433,425	327,016	79	45	41,625	451	258,457

BY SPECIFIED INDUSTRIES: 1900—Continued.

WEST HOBOKEN—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 in- cluding 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.										
		4	\$841	2	\$224	\$1,362	\$1,090		\$272		\$3,346	\$3,194	\$152	\$9,056	12
47	\$25,822					5,629	1,894	\$396	3,139	\$200	17,260	17,123	137	68,522	13
81	14,968					3,960	1,028	185	2,687	60	43,098	42,676	522	73,551	14
2	1,710					935	728	3	204		1,909	1,854	55	7,594	15
						966	600	64	302		10,459	10,376	88	15,407	16
939	394,330	1,316	473,361	51	12,480	527,884	3,910	4,830	116,637	402,507	2,136,699	2,117,267	19,432	3,961,054	17
12	7,355					4,536	768	65	8,703		10,658	10,355	303	28,898	18
196	105,815	139	32,639	17	2,582	26,858	2,814	1,530	20,596	1,918	287,021	282,736	4,285	606,949	19

products, including sash, doors, and blinds, 1; marble and stone work, 1; mineral and soda waters, 1; models and patterns, 1; paper hanging, 1; photography, 1; plastering and stucco work, 1; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; toys and games, 1; watch, clock, and jewelry repairing, 2; wood, turned and carved, 1.

TOWNS UNDER 20,000 IN POPULATION: 1900.

25,640	\$13,166,561	7,140	\$1,866,135	1,539	\$234,522	\$4,763,935	\$307,958	\$217,147	\$3,461,176	\$777,654	\$10,314,662	\$38,990,370	\$1,324,292	\$72,522,384	1
1,401	768,578	372	119,341	67	11,379	256,025	14,176	12,469	192,001	37,379	1,895,655	1,854,220	41,435	8,860,796	2
456	189,943	117	28,598	1	72	48,295	18,726	2,269	32,309		1,009,005	903,313	16,692	1,458,942	3
96	44,980	280	64,058	93	14,594	35,555	1,831	1,795	31,877	52	405,675	400,253	5,422	668,706	4
421	164,317	83	23,001	19	2,687	69,737	5,936	3,037	51,099	9,665	352,133	335,215	16,918	742,374	5
1,775	734,650	441	83,813	117	17,695	99,557	12,294	9,455	66,316	11,492	1,216,192	1,091,457	124,735	2,649,919	6
1,043	520,272	403	117,698	15	2,483	101,573	7,377	6,824	63,332	24,040	1,788,443	1,751,638	36,805	2,905,991	7
1,177	621,693	150	30,860	40	5,495	44,383	11,757	4,593	27,563	170	710,248	680,535	29,713	1,804,850	8
637	314,680	674	181,623	244	39,620	285,658	12,804	8,870	262,775	1,209	1,260,002	1,208,512	51,490	2,322,242	9
120	81,450	4	1,004	1	216	62,093	2,886	982	57,605	630	116,438	110,769	5,664	344,531	10
1,975	1,178,978	911	270,166	97	14,131	385,948	26,822	19,620	324,506	16,000	3,297,663	3,218,506	79,157	6,331,733	11
296	130,604	40	8,662	1	159	67,301	5,307	1,028	12,294	48,672	1,138,248	1,125,779	12,469	1,773,558	12
607	291,750	333	99,900	162	23,335	127,612	2,943	18,299	93,670	12,700	1,081,948	1,061,848	20,100	1,645,587	13
808	342,471	99	24,807	6	681	130,637	6,638	4,415	108,314	11,330	1,383,515	1,356,960	26,555	2,264,223	14
1,569	957,417	433	113,927	288	44,352	177,308	3,452	17,776	154,874	1,206	964,654	915,331	149,223	2,616,332	15
1,029	601,396	62	17,643	1	100	93,462	22,506	7,229	55,377	8,350	1,140,753	1,123,774	11,979	2,246,817	16
286	117,007	185	47,474	22	2,097	34,014	6,968	2,070	15,611	9,365	388,130	382,779	5,351	699,188	17
142	76,504	2	900	3	300	20,829	6,719	4,497	4,497	9,000	148,390	143,814	4,585	312,816	18
2,182	1,037,634	52	11,998	24	3,610	435,883	21,280	13,983	239,611	131,009	11,631,704	11,428,095	203,609	14,730,928	19
1,938	817,260	611	181,716	11	1,355	244,560	6,302	15,856	111,501	110,901	2,906,360	2,653,641	252,719	4,952,277	20
1,592	931,889	154	36,949	5	1,180	283,886	27,601	12,305	183,921	55,059	1,144,724	1,119,573	26,151	3,229,969	21
621	379,661	156	27,629	1	200	69,085	10,384	4,868	53,773	60	502,048	480,396	21,652	1,149,247	22
580	209,542	314	74,498	116	15,930	268,974	1,258	6,288	259,228	2,200	442,409	422,256	20,153	1,088,280	23
580	260,328	246	40,917	107	15,068	84,042	6,016	4,448	23,579		550,093	514,589	35,504	1,155,090	24
353	202,152	40	31,562	9	1,386	100,710	17,955	4,352	39,608	38,800	797,606	779,534	18,072	1,354,373	25
220	110,934	3	754	9	1,656	11,326	2,761	1,267	3,269	4,029	147,865	140,952	6,913	322,457	26
137	83,008	20	4,832			12,341	3,486	510	5,735	3,110	165,912	164,674	1,238	327,552	27
1,067	710,287	587	129,811	8	1,149	399,514	32,921	17,721	650,634	198,238	1,650,490	1,618,164	32,326	3,986,881	28
620	313,513	101	53,301	17	3,162	34,592	4,562	3,182	24,333	2,455	775,360	761,035	4,325	1,450,072	29
598	241,492	102	16,137	10	1,421	145,327	3,716	2,683	120,307	9,621	446,259	438,607	7,652	999,262	30
907	478,272	66	20,850	1	188	67,788	2,882	4,962	48,569	11,375	478,645	455,201	23,444	1,350,170	31
368	246,969	9	3,207	44	8,281	115,420	3,693	3,078	99,112	9,537	378,191	354,030	24,161	983,612	32