

# MAINE.

Table 1 shows the manufacturing and mechanical industries of the state of Maine 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	6,702	5,010	4,481	5,550	8,810	3,974	33.8	11.8	119.3	45.7	14.1
Capital	\$122,918,826	\$80,419,809	\$49,988,171	\$39,796,190	\$22,014,020	\$14,699,152	52.8	60.9	25.6	30.5	50.0
Salaried officials, clerks, etc., number	3,329	25,406	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	138.4				
Salaries	\$3,171,333	\$3,563,635	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	111.0				
Wage-earners, average number	74,816	70,374	52,954	49,180	34,619	28,020	6.3	32.9	7.7	42.1	23.6
Total wages	\$28,527,849	\$22,962,582	\$13,623,318	\$14,282,205	\$8,868,691	\$7,485,588	24.2	68.6	14.6	70.7	11.8
Men, 16 years and over	53,701	46,881	35,431	34,310	24,827	21,853	14.5	32.8	8.3	33.2	18.6
Wages	\$23,334,885	\$17,827,273	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	31.2				
Women, 16 years and over	18,913	21,051	13,777	13,448	9,792	6,167	110.2	52.8	2.4	37.3	58.8
Wages	\$4,835,171	\$4,891,069	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	11.1				
Children, under 16 years	2,202	2,442	3,746	1,422	( <sup>3</sup> )	( <sup>3</sup> )	19.8	134.8	163.4		
Wages	\$307,843	\$244,249	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	26.0				
Miscellaneous expenses	\$7,774,216	\$5,394,694	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	44.1				
Cost of materials used	\$68,863,408	\$51,520,589	\$51,120,708	\$49,379,757	\$21,553,066	\$13,553,144	33.7	0.8	8.5	129.1	59.0
Value of products, including custom work and repairing	\$127,361,485	\$95,689,500	\$79,829,798	\$79,497,521	\$38,193,254	\$24,661,057	33.1	19.9	0.4	108.1	54.9
Total population	694,466	661,086	648,936	626,915	628,279	583,169	5.0	1.9	8.5	10.2	7.7
Wage-earners engaged in manufactures	74,816	70,374	52,954	49,180	34,619	28,020	6.3	32.9	7.7	42.1	23.6
Per cent of total population	10.8	10.6	8.2	7.8	5.5	4.8					
Assessed value of real estate	\$268,434,909	\$233,946,082	\$178,856,242	\$134,580,157	\$86,717,716	\$64,336,119	14.7	31.6	29.2	55.2	34.8
Value of land and buildings invested in manufactures <sup>5</sup>	\$31,266,656	\$19,237,679	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	62.5				
Per cent of assessed value	11.6	8.2									

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

<sup>5</sup> As given for the year 1900 in Dana's supplement, "State and City," to the Commercial and Financial Chronicle, under date of April 13, 1901.

<sup>6</sup> Does not include value of rented property.

Table 1 shows that there has been a marked growth in the manufacturing and mechanical industries of Maine during the half century. The population during these years increased from 583,169 to 694,466, or 19.1 per cent, while the average number of wage-earners employed in manufacturing establishments increased from 28,020 to 74,816, or 167 per cent, embracing, in 1900, 10.8 per cent of the entire population, compared with 4.8 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 110,243, or 15.9 per cent of the total population of the state.

The decade from 1890 to 1900 shows an increase in the value of products of 33.1 per cent, which is greater than for any other decade since 1870. The increase in the value of products from 1870 to 1880, four-tenths of 1 per cent, was really much greater. The values for 1870 were expressed in a currency which was at a discount in gold, and should be reduced by about one-fifth for purposes of comparison with other census years. This also explains the decrease of 4.6 per cent shown in wages during the same decade.

The extensive waterpower of Maine has been an important element contributing to this growth in manufacturing.

The 1,620 lakes of the state, having a total area of 2,300 square miles, and located in many cases near the heads of rivers, are valuable reservoirs of manufacturing power. The total available waterpower has been estimated at between one and two million horsepower.<sup>1</sup> Excellent facilities for commerce are afforded by the rivers, harbors, and railroads. Of the principal rivers the Piscataqua, Sheepscott, and St. Croix admit vessels of 2,000 tons for a few miles, while the Kennebec is navigable for coast vessels to Augusta, and the Penobscot to Bangor.<sup>2</sup> Numerous bays and harbors along the coast have a depth of water sufficient to float the largest ships and afford shelter from storms throughout the year. There are 1,919 miles of railroad in the state, the Maine Central entering all but one of the 16 counties.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for a governmental establishment, 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.

<sup>1</sup> The Waterpower of Maine, by Walter Wells, pages 8, 28, and 29.

<sup>2</sup> Gazetteer of Maine, by G. J. Varney, page 11.

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	8,856	\$129,922,852	9,226	75,675	\$29,020,183	\$7,801,191	\$69,294,637	\$22,112,832	\$48,528,487	\$3,653,818	\$128,617,181
Hand trades <sup>1</sup>	2,895	4,662,344	3,187	6,692	3,105,667	553,868	4,995,882	72,437	4,733,711	189,234	11,686,966
Governmental establishment	1	6,082,965	-----	559	470,248	-----	205,012	-----	194,454	10,558	764,622
Eleemosynary and penal institutions	4	314,836	-----	5	2,750	668	83,550	21,000	61,015	6,544	101,497
Establishments with a product of less than \$500	1,649	600,225	1,725	295	19,286	26,307	137,658	15,169	122,489	-----	890,177
All other establishments	3,807	118,256,482	4,314	63,124	25,422,182	7,220,348	63,868,026	22,004,226	38,416,818	3,446,982	115,674,519

<sup>1</sup> Includes bicycle and tricycle repairing, 57; blacksmithing and wheelwrighting, 973; boots and shoes, custom work and repairing, 213; carpentering, 277; clothing, men's, custom work and repairing, 173; clothing, women's, dressmaking, 163; dyeing and cleaning, 11; furniture, cabinetmaking, repairing, and upholstering, 83; lock and gun smithing, 21; masonry, brick and stone, 91; millinery, custom work, 270; painting, house, sign, etc., 247; plastering and stuccowork, 11; plumbing, and gas and steam fitting, 112; taxidermy, 7; typewriter repairing, 1; watch, clock, and jewelry repairing, 180.

Of the 8,856 establishments of all classes, shown in this table, 4,544, or 54.4 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$12,077,143, or only 9.4 per cent of the total products of the state.

In addition to the 8,856 active establishments in the state during the census year, with a capital of \$129,922,852, shown in Table 2, there were 67 idle establishments, with a capital of \$859,049, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Brick and tile	11	\$39,543	Lumber and timber products	11	\$59,460
Cheese, butter, and condensed milk, factory product	3	53,482	Marble and stone work	3	18,525
Felt goods	1	60,000	Soap and candles	1	15,000
Fertilizers	2	189,960	Starch	1	5,000
Fish, canning and preserving	14	11,055	Woolen goods	4	185,000
Flouring and grist mill products	3	4,500	Worsted goods	1	81,000
Iron and steel	1	75,000	All other industries	10	15,924
Leather, tanned, curried, and finished	1	12,000			

TABLE 3.—COMPARATIVE SUMMARY OF TEN 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	1,691	\$86,947,527	49,809	\$15,656,100	\$5,142,412	\$41,087,252	\$78,609,654
	1890	1,580	56,706,127	39,651	12,431,794	3,524,024	30,968,565	54,681,124
Increase, 1890 to 1900		111	30,241,400	4,248	3,224,375	1,618,388	10,118,687	19,068,530
Per cent of increase		7.0	53.8	10.7	25.9	45.9	32.7	34.9
Per cent of total of all industries in state	1900	25.2	70.7	58.7	54.9	66.1	59.7	57.9
	1890	31.5	70.5	66.3	54.1	65.3	60.1	67.1
Cotton goods	1900	15	21,087,190	13,723	4,380,297	1,440,425	7,036,287	14,631,639
	1890	23	20,850,754	13,912	4,213,523	1,185,336	8,446,736	15,316,909
Fish, canning and preserving	1900	117	8,481,056	5,567	1,184,850	97,859	2,578,636	4,779,733
	1890	86	527,420	2,342	447,806	94,712	900,674	1,660,881
Flouring and grist mill products	1900	227	1,285,767	192	98,820	43,836	2,827,448	3,399,832
	1890	210	1,194,900	262	95,344	53,632	2,806,869	3,254,690
Foundry and machine shop products	1900	112	4,032,950	2,143	1,086,034	142,334	1,553,168	3,298,706
	1890	82	3,024,473	1,768	916,814	180,559	1,139,070	2,623,672
Leather, tanned, curried, and finished	1900	81	1,376,106	587	229,268	102,332	1,943,204	2,451,718
	1890	51	2,281,702	852	362,841	117,141	2,307,348	3,363,672
Lumber and timber products	1900	838	15,764,588	6,834	2,633,771	514,059	7,994,596	13,489,401
	1890	894	12,978,815	11,540	2,689,345	622,563	6,228,808	11,849,654
Paper and wood pulp	1900	85	17,478,160	4,851	2,162,972	1,394,967	7,118,945	13,223,275
	1890	17	4,273,825	1,509	669,057	822,308	1,678,287	3,231,651
Printing and publishing, newspapers and periodicals	1900	120	1,668,820	1,309	478,026	480,690	514,384	2,190,017
	1890	105	1,140,162	949	438,900	244,936	367,256	1,719,477
Ship and boat building, wooden	1900	115	1,815,820	1,339	749,567	65,463	1,377,769	2,491,765
	1890	85	1,027,756	1,450	777,994	109,032	1,423,175	2,318,565
Wool manufactures	1900	81	14,512,120	7,324	2,762,564	860,447	8,142,820	13,744,126
	1890	78	9,456,830	5,067	1,824,670	593,305	5,675,347	8,737,653

The 10 leading industries of the state in 1900, as shown in Table 3, embraced 1,691 establishments, or 25.2 per cent of the total number in the state; used a capital of \$86,947,527, or 70.7 per cent of the total; gave employment to 43,899 wage-earners, or 58.7 per cent of the total number; and paid \$15,656,169, or 54.9 per cent of the total wages. The value of their products was \$73,699,654, or 57.9 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 cotton goods is the most important industry in the state. The 15 establishments reported in 1900 gave employment to 13,723 wage-earners, or 18.3 per cent of the wage-earners in the state, and their products were valued at \$14,631,086, or 11.5 per cent of the total value of the products of the state. In 1890 there were 23 establishments, with 13,912 wage-earners, and products valued at \$15,316,909. The decrease in the value of products during the decade was \$685,823, or 4.5 per cent. The waterpower of Maine early attracted the attention of manufacturers of cotton goods. One of the pioneer mills of the state was established at Brunswick in 1809, another at Wilton in 1810, and a third at Gardiner in 1811.<sup>1</sup> Factories were erected at Saco in 1831, at Lewiston in 1844,<sup>2</sup> and at Biddeford in 1845, while in later years Augusta and Waterville secured large plants. Lewiston is, however, the chief center of the industry, while the twin cities of Biddeford and Saco rank next in importance. At present the cotton mills of Maine are all west of the Kennebec River. They are located, without exception, at the falls of large rivers, and are operated by waterpower.

The wool manufacture in all its branches, except hosiery and knit goods, ranks second among the industries of the state, with 81 establishments, 7,324 wage-earners, and products valued at \$13,744,126. In 1890 there were 78 establishments, with 5,067 wage-earners, and products valued at \$8,737,653. The increase in the value of products during the decade was \$5,006,473, or 57.8 per cent. Wool manufactures in Maine date back to a period some years prior to the introduction of cotton mills. In 1820 there were 6 small woolen mills in the state,<sup>3</sup> one of the earliest having been established in that year at Dexter, Penobscot county, by Amos and Jeremiah Abbott, who removed there from Andover, Mass.<sup>4</sup> They purchased the small wool-carding mills already built at Dexter, and a few years later built the present woolen mill. This was, it is claimed, the first firm in Maine to ship woolen cloth out of the state. Owing to the generally favorable conditions for its growth and development, the manufacture of woolen goods is now carried on in nearly every county in the state, water being used for power. The town of Sanford,

in the southwestern part of Maine, not far from the New Hampshire line, is the seat of an important branch of this industry, the manufacture of carriage robes, mohair plush, and horse blankets.

There were 838 establishments engaged in the manufacture of lumber and timber products in 1900, the industry third in rank, with 6,834 wage-earners, and products valued at \$13,489,401. In 1890 there were 894 establishments, with 11,540 wage-earners, and products valued at \$11,849,654. The increase in the value of products during the decade was \$1,639,747, or 13.8 per cent. Lumbering was begun at an early period in Maine, and has continued to be a leading industry. Owing to the scarcity of pine, which originally was the most important timber cut, spruce has now taken the leading place. Hard woods are cut in considerable quantities. The first sawmill in Maine was erected at South Berwick about 1634, and fifty years later the number in the state had increased to 24.<sup>5</sup> Many changes in methods have been introduced during the history of the industry. Dams and canals have been built, steamers have been placed on the lakes to facilitate log driving, and in one instance, at Northwest Carry, Moosehead Lake, a log sluice has been constructed, at large expense, to convey the logs overland from the west branch of the Penobscot River to Moosehead waters, the source of the Kennebec. The primitive mills have given place to great plants, many of them operated by steam power, particularly those located on tide waters. Maine's wealth of hard woods, already receiving attention, is destined to be much more appreciated. Birch is in great demand for spool wood, both for local manufacture and for shipment to Scotland, while beech is called for to be converted into orange shooks for Florida and the Mediterranean ports. General woodworking plants have been built in many parts of the state, especially at points accessible to the raw material.

There were 35 establishments engaged in the manufacture of paper and wood pulp in 1900, with 4,851 wage-earners, and products valued at \$13,223,275. In 1890 there were 17 establishments, with 1,509 wage-earners, and products valued at \$3,281,051. The increase in the value of products was \$9,942,224, or 303 per cent. Paper manufacturing has been carried on in Maine in a small way since 1735,<sup>6</sup> but it is only within recent years that it has attained importance. The early mills were located, first at Westbrook and later at Mechanic Falls, on the Little Androscoggin; at Gardiner and Skowhegan, on the Kennebec; and at Hampden and Belfast, in eastern Maine.<sup>7</sup> With the discovery of wood pulp as a material for paper manufacture, great changes were brought about. One of the pioneer pulp mills in the state was erected at Brunswick in 1870.

<sup>1</sup> Maine Historical Magazine, vol. 7, pages 41 and 120.

<sup>2</sup> The New England States, by W. T. Davis, vol. 1, page 154.

<sup>3</sup> Survey of Maine, 1820, by Moses Greenleaf, page 276.

<sup>4</sup> Report of the Maine Bureau of Industrial and Labor Statistics, 1895, page 104.

<sup>5</sup> Report of the Maine Bureau of Industrial and Labor Statistics, 1895, page 106.

<sup>6</sup> The New England States, vol. 1, page 307.

<sup>7</sup> Report of the Maine Bureau of Industrial and Labor Statistics, 1895, page 105.

Since that date numerous and costly plants have been built for the manufacture of ground wood, soda, and sulphite pulp. These mills are situated chiefly along the three principal rivers of the state, the Androscoggin, Kennebec, and Penobscot. Recently, immense plants have been constructed at Millinocket on the Penobscot waters, at Madison on the Kennebec River, and at Rumford Falls on the Androscoggin River. Spruce is used generally in the manufacture of wood pulp. A few mills use also small quantities of poplar, fir, pine, and hemlock, while 3 plants use poplar only.

There were 117 establishments engaged in the canning and preserving of fish in 1900, with 5,567 wage-earners, and products valued at \$4,779,733. In 1890, 35 establishments were reported, with 2,342 wage-earners, and products valued at \$1,660,881. The increase in the value of products during the decade was \$3,118,852, or 187.8 per cent. A leading branch of this industry is the canning of small herrings under the name of "sardines." Imports of "sardines" of this sort in 1872 suggested the use of Eastport herrings for the same purpose, and experiments were at once undertaken.<sup>1</sup> The Eastport product was found to be superior to the imported article, and an important industry was thus established in that city in 1875.<sup>2</sup> During the year 1 cannery was operated. In each of the four succeeding years, 1 factory was added to the number, so that, in 1879, 5 establishments were in operation.<sup>3</sup> From that time the industry grew rapidly until, in 1886, there were 45 factories in the state, of which number 32 bordered on Passamaquoddy Bay and its tributary waters, and 13 were located along the coast from Cutler westward.<sup>3</sup> At Eastport and Lubec the "sardine" industry, during the first ten years of its existence, increased to such an extent as to outrank in importance, in that locality, all other branches of business.

There were 227 establishments engaged in flour and grist milling in 1900, with 192 wage-earners, and products valued at \$3,399,832. In 1890, 210 establishments were reported, with 262 wage-earners, and products valued at \$3,254,690. The increase in the value of products during the decade was \$145,142, or 4.5 per cent. From the early settlement of the state, mills have been in use for grinding corn, wheat, and other grain. As the people for many years depended for a livelihood largely on the products of their farms—principally corn and grain—gristmills were a necessity. Small streams affording waterpower were abundant in every section of the state, and gristmills were erected in every considerable settlement. At first these mills were crude, the millstones being cut from the rock in which the country abounded, and serving only to grind the grain into meal; but, as time advanced, improved stones were introduced and much excellent flour was made for home consumption. For several years the state paid a small bounty on every bushel of wheat raised, and in this way greatly stimulated the growth of the cereal. With

very few exceptions, the early gristmills of Maine did custom grinding only, but later an extensive wholesale trade grew up in the larger cities, and mills of greater capacity were erected at these central points. As a result, corn meal, instead of whole corn, is now largely distributed to retailers throughout the state. Within a few years several large flouring plants, using the roller process, have been erected in Aroostook county; in these mills large quantities of native wheat are converted into flour. This has greatly stimulated the growth of wheat in the fertile valley of the Aroostook.

There were 112 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 2,143 wage-earners, and products valued at \$3,298,706. In 1890, 82 establishments were reported, with 1,768 wage-earners, and products valued at \$2,628,572. The increase in the value of products during the decade was \$670,134, or 25.5 per cent. The erection of lumber mills in Maine early led to the construction of foundries and machine shops for the manufacture of shafting, gears, and other mill machinery. As shipbuilding and cotton and woolen manufacture developed, these foundries and shops were also called upon to manufacture the additional ironwork and the special machinery required. But in recent years there has been a change in the custom of all kinds of large manufacturing plants, most of which now have their own machine shops with from one to a dozen employees. This has had a tendency to reduce the number and importance of the general foundry and machine shops. Portland, Bangor, and Lewiston are now the principal points where these are located. One of the early stove foundries in Maine was established at Hampden about the year 1835.

There were 115 establishments engaged in wooden ship and boat building in 1900, with 1,369 wage-earners, and products valued at \$2,491,765. In 1890, 85 establishments were reported, with 1,450 wage-earners, and products valued at \$2,818,565. The decrease in the value of products during the decade was \$326,800, or 11.6 per cent. As far back as 1608, the "Virginia" was built by the Popham colony near the mouth of the Kennebec;<sup>4</sup> and from that time to the present, shipbuilding has been one of the important occupations of this region. In early days, shipyards were established at many points on all the principal rivers and along the coast, and Maine became the leading shipbuilding state in the United States, building more than half of all the sea-going vessels of the nation.<sup>5</sup> Of late years there has been a decline in the industry, and the business is now carried on at but few points. Bath, on the Kennebec, is much the most important center, but ship and boat building is also carried on to a considerable extent at Phippsburg, Waldoboro, Thomaston, Rockland, Camden, Rockport, Belfast, Bucksport, Millbridge, and Machias. A notable feature of modern marine architecture is the greater size of the vessels in comparison with those of early days. Two and three-masted schooners

<sup>1</sup> Report of the Maine Bureau of Industrial and Labor Statistics, 1895, page 143.

<sup>2</sup> *Ibid.*, 1900, page 73.

<sup>3</sup> *Ibid.*

<sup>4</sup> History of Maine, by W. D. Williamson, vol. 1, page 202.

<sup>5</sup> Our Merchant Marine, 1872, by N. G. Hitchborn, page 15.

have quite largely given place to the large four, five, and six-masted vessels. Of late years the building of steel vessels, especially at the Bath Iron Works, the pioneer steel ship-building plant of the state, has become quite an important branch of the industry. Several Government cruisers, as well as merchant steamships, have been built at Bath.

There were 31 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 587 wage-earners, and products valued at \$2,451,713. In 1890, 51 establishments were reported, with 852 wage-earners, and products valued at \$3,363,672. The decrease in the value of products during the decade was \$911,959, or 27.1 per cent. The early tanneries of Maine were very small, only a few hides being purchased, for a considerable part of the year's output was custom work. Home slaughtered hides and skins were tanned for home use, the shoemaker afterward making his rounds from house to house among the farmers, to work up stocks of finished leather into a year's supply of footwear for the family. There were 200 tanneries in Maine in 1810, with an annual average of 275 hides and skins tanned, and an average product valued at \$1,156. In 1840, 395 tanneries were reported, while the total number of hands employed, 454, averaged less than 2 to an establishment. York county alone contained 101 tanneries, with but 102 hands employed. Between 1840 and 1860 several tanneries of considerable size were built,

and the industry received a further stimulus through the demands of 1861 and the time immediately following, so that during the next fifteen years many large sole-leather plants were established in the eastern part of the state. Hemlock bark has always been the principal material used for tanning purposes in the state, and it is to the increasing scarcity of this bark that the decline in the industry since 1870 must be attributed.

There were 120 establishments engaged in the printing and publishing of newspapers and periodicals in 1900, with 1,309 wage-earners, and products valued at \$2,190,017. In 1890, 105 establishments were reported, with 949 wage-earners, and products valued at \$1,719,477. The increase in the value of products during the decade was \$470,540, or 27.4 per cent. The first newspaper in Maine, the Falmouth Gazette and Weekly Advertiser, was founded at Falmouth, now Portland, January 1, 1785, and has continued, under various names, to the present time. Nearly every considerable town in the state now has its local newspaper.

#### URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Lewiston and Portland as returned at the censuses of 1890 and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, LEWISTON AND PORTLAND, 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	6,702	\$122,918,826	74,816	\$28,527,849	\$7,774,216	\$68,863,408	\$127,861,465
Per cent of increase.....	1890	5,010	80,419,809	70,374	22,962,582	5,394,694	51,520,589	95,659,500
		33.8	52.8	6.8	24.2	44.1	33.7	33.1
Lewiston.....	1900	282	10,984,871	7,159	2,500,080	596,854	4,103,801	8,551,354
Per cent of increase.....	1890	214	8,324,231	7,076	2,418,907	685,894	4,828,710	9,073,856
		31.8	32.0	1.2	3.7	16.1	15.0	15.4
Portland.....	1900	689	6,991,251	5,699	2,612,817	759,854	5,566,225	11,440,201
Per cent of increase.....	1890	662	6,887,557	5,338	2,413,893	585,149	6,286,438	11,371,457
		3.5	1.5	6.8	8.2	29.9	11.5	0.6
Total for 2 cities.....	1900	921	17,976,122	12,858	5,121,817	1,356,708	9,670,026	20,021,555
Per cent of increase.....	1890	876	15,211,788	12,414	4,832,800	1,221,043	11,115,148	20,445,343
		5.1	18.2	3.6	6.0	11.1	13.0	12.1
Per cent of 2 cities to total for state.....	1900	13.7	14.6	17.2	18.0	17.5	14.0	15.7
	1890	17.5	18.9	17.6	21.0	22.6	21.6	21.4

<sup>1</sup> Decrease.

It appears from Table 4 that the number of establishments in these 2 cities, taken together, increased during the decade from 876 to 921, or 5.1 per cent. The average number of wage-earners increased from 12,414 to 12,858, or 3.6 per cent, while the value of products decreased from \$20,445,343 to \$20,021,555, or 2.1 per cent. The percentage of increase in the number of establishments and in the average number of wage-earners was smaller in these 2 cities than in the state as a whole, while the decrease in the value of products stands in contrast to an increase in the state as a whole. In Portland, the leading manufacturing city of the state, the number of establishments decreased during the decade from 662 to 689, or 3.5 per

cent, while the average number of wage-earners increased from 5,338 to 5,699, or 6.8 per cent, and the value of products increased from \$11,371,457 to \$11,440,201, or six-tenths of 1 per cent. The number of establishments, number of wage-earners, and value of products for this city constituted 9.5, 7.6, and 9 per cent, respectively, of the totals for the entire state.

Table 5 presents the totals for the manufacturing industries of the 43 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.....	6,702	\$122,918,826	7,601	74,816	\$38,527,849	\$7,774,216	\$68,863,408	\$127,861,485	-----	100.0	694,466	-----	100.0
Total for urban manufactures.....	3,594	78,272,255	3,960	51,965	20,170,662	5,813,338	45,573,178	85,449,012	-----	67.1	289,951	-----	41.8
Auburn.....	147	8,372,694	159	2,908	1,262,010	257,089	4,144,815	6,326,851	3	5.0	12,951	5	1.9
Augusta.....	171	8,488,471	190	2,227	798,038	666,785	1,459,662	3,822,679	7	3.0	11,688	6	1.7
Bangor.....	315	2,743,645	360	2,669	1,291,941	260,703	2,740,287	5,172,733	5	4.1	21,850	8	3.1
Bath.....	142	8,256,726	154	2,249	1,191,092	179,255	2,126,388	4,036,815	6	3.2	10,477	7	1.5
Belfast.....	79	617,055	105	679	251,639	36,035	540,314	994,738	24	0.8	4,015	20	0.7
Biddeford.....	108	6,067,194	122	4,527	1,551,146	519,361	3,098,244	5,769,844	4	4.5	16,145	4	2.3
Brewer.....	44	785,924	47	864	170,268	72,121	540,326	859,779	26	0.7	4,835	18	0.7
Bridgton.....	43	738,503	54	376	132,539	37,577	493,036	662,391	80	0.5	1,522	41	0.2
Bristol.....	37	205,495	40	226	65,030	6,693	187,965	266,880	98	0.2	2,572	34	0.4
Brunswick.....	80	1,673,859	85	970	350,726	113,462	551,472	1,194,275	22	0.9	5,210	17	0.7
Bucksport.....	26	84,480	31	84	31,690	5,243	90,919	160,014	41	0.1	2,389	36	0.3
Calais.....	73	1,715,910	82	855	317,575	93,317	872,768	1,493,126	13	1.2	7,655	10	1.1
Camden.....	55	1,680,251	59	841	382,539	60,560	933,513	1,618,017	10	1.3	2,825	31	0.4
Caribou.....	38	204,125	43	125	43,010	8,289	200,245	341,294	85	0.3	4,758	19	0.7
Eastport.....	62	3,037,366	65	2,213	479,805	45,714	1,020,605	1,905,808	14	1.5	5,311	16	0.8
Ellsworth.....	32	696,999	92	452	185,292	24,941	482,746	803,853	23	0.6	4,297	21	0.6
Fairfield.....	32	788,971	32	414	134,660	14,840	330,415	552,083	31	0.4	2,233	37	0.3
Fort Fairfield.....	37	148,225	40	72	23,865	4,338	140,163	232,327	89	0.2	1,469	42	0.2
Gardiner.....	79	1,709,577	85	1,093	495,139	113,036	1,760,823	2,930,865	9	2.3	5,501	15	0.8
Gorham.....	26	73,505	31	94	12,533	3,712	60,442	90,468	42	0.1	2,540	35	0.4
Hallowell.....	38	1,029,678	43	642	314,614	127,595	634,957	1,247,687	21	1.0	2,714	32	0.4
Kennebunk.....	45	747,024	41	579	229,176	69,053	435,372	936,399	25	0.7	3,223	25	0.5
Kittery.....	8	8,627	8	9	3,471	314	7,062	16,129	48	(1)	2,372	30	0.4
Lewiston.....	282	10,984,871	285	7,159	2,500,030	590,854	4,103,801	8,531,354	2	6.7	23,761	2	3.4
Lisbon.....	42	2,480,636	34	998	364,776	141,628	1,038,110	1,320,291	15	1.4	3,603	23	0.5
North Berwick.....	21	312,279	31	229	71,066	23,307	206,280	343,041	31	0.3	1,743	40	0.2
Norway.....	40	368,301	49	430	166,027	23,328	540,371	824,300	27	0.6	2,902	29	0.4
Old Town.....	86	1,893,161	89	1,132	423,013	135,983	1,437,466	2,239,337	13	1.8	5,793	14	0.8
Orono.....	28	1,414,030	34	575	230,386	92,136	704,911	1,345,535	19	1.0	3,257	24	0.6
Paris.....	35	258,153	38	320	104,371	16,233	216,752	330,455	33	0.3	3,225	26	0.5
Pittsfield.....	35	1,174,353	38	589	209,714	35,240	535,447	1,020,253	23	0.8	2,203	33	0.3
Portland.....	639	6,991,251	679	5,699	2,612,317	759,854	5,686,225	11,440,201	1	9.0	50,145	1	7.2
Presque Isle.....	33	177,595	43	83	30,270	10,491	162,707	273,716	37	0.2	1,266	43	0.2
Richmond.....	24	194,926	26	169	43,363	7,664	148,212	225,304	40	0.2	2,049	39	0.3
Rockland.....	118	1,703,483	153	860	353,969	107,276	851,306	1,557,607	17	1.2	3,150	9	1.2
Saco.....	71	2,151,434	77	2,025	610,462	195,753	1,120,293	2,244,025	12	1.8	6,122	12	0.9
Sanford.....	67	3,246,015	66	1,893	693,385	240,060	1,891,762	3,254,390	8	2.6	6,073	13	0.9
Skowhegan.....	69	941,631	75	617	245,314	43,063	761,463	1,252,955	20	1.0	4,266	22	0.6
South Berwick.....	25	637,153	22	506	190,047	39,370	480,533	783,399	29	0.6	3,133	27	0.5
Thomaston.....	35	501,265	51	215	103,010	9,354	226,996	442,716	32	0.3	2,683	33	0.4
Waldoboro.....	41	153,633	52	195	74,002	5,933	161,731	313,072	36	0.3	3,145	28	0.5
Waterville.....	39	3,972,016	99	2,203	779,303	196,034	1,256,801	2,302,236	11	2.2	9,477	8	1.4
Westbrook.....	42	3,950,221	46	1,405	604,073	347,004	1,372,260	2,351,660	10	2.2	7,233	11	1.0
Total for state exclusive of urban manufactures.....	3,108	44,646,571	3,541	22,851	8,357,187	1,960,873	23,290,230	41,912,473	-----	32.0	404,515	-----	53.2
Per cent of urban manufactures to total for state.....	53.6	63.7	52.8	69.5	70.7	74.3	66.2	67.1	-----	-----	41.8	-----	-----

<sup>1</sup> Less than one-tenth of 1 per cent.

Of the 6,702 establishments in the state, 3,594, or 53.6 per cent, were located in these 43 cities and towns. They furnished employment to 51,965 wage-earners, or 69.5 per cent of the total number, and the value of their products, \$85,449,012, formed 67.1 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

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

Table 8 shows the totals for the cities of Bangor, Lewiston, and Portland by specified industries.

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

TABLE 6.—MANUFACTURES

COUNTIES 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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State.....	6,702	\$122,918,826	\$13,105,141	\$18,161,515	\$31,770,449	\$50,881,721	7,501	3,329	\$3,171,433	74,816	\$28,527,849
2 Androscoggin.....	600	18,857,529	1,292,998	3,299,611	5,580,986	8,683,934	610	505	521,188	11,977	4,521,549
3 Aroostook.....	376	2,950,691	237,810	415,953	636,578	1,060,350	414	82	49,141	1,539	562,447
4 Cumberland.....	1,019	15,831,213	1,870,743	2,244,100	3,958,137	7,758,233	1,124	770	710,248	9,909	4,252,332
5 Franklin.....	200	4,648,253	946,048	876,121	1,038,122	1,742,062	215	122	184,820	1,763	675,225
6 Hancock.....	352	2,344,748	855,235	274,115	406,433	1,308,925	396	116	74,018	2,413	1,005,132
7 Kennebec.....	569	14,567,283	1,323,740	2,546,925	4,404,850	6,291,763	623	316	351,656	7,909	3,126,617
8 Knox.....	368	4,943,062	807,580	635,981	874,714	2,324,787	443	115	97,249	3,009	1,315,757
9 Lincoln.....	176	781,927	85,817	150,186	237,489	310,435	201	16	12,429	784	262,093
10 Oxford.....	381	4,348,072	630,184	652,352	1,355,545	1,709,991	383	117	87,643	2,492	915,917
11 Penobscot.....	760	11,091,637	1,003,417	1,852,537	2,599,785	5,635,898	840	346	321,593	2,946	2,945,485
12 Piscataquis.....	154	3,480,822	1,066,840	391,610	684,300	1,338,572	166	43	45,066	1,368	533,631
13 Sagadahoc.....	204	4,997,388	617,601	694,506	1,401,610	2,280,578	217	180	146,584	2,810	1,399,315
14 Somerset.....	303	6,402,058	612,638	991,350	1,700,141	3,097,830	341	109	119,705	2,920	1,097,501
15 Waldo.....	277	1,268,936	99,756	159,288	391,812	618,631	370	41	29,577	1,279	440,520
16 Washington.....	425	11,772,892	1,267,147	1,038,993	2,467,606	7,009,146	479	243	194,635	6,753	1,664,214
17 York.....	588	14,632,315	900,095	1,637,817	3,984,791	8,109,612	661	253	275,881	10,971	3,806,759

TABLE 7.—MANUFACTURES BY

All industries.....	6,702	\$122,918,826	\$13,105,141	\$18,161,515	\$31,770,449	\$50,881,721	7,501	3,329	\$3,171,433	74,816	\$28,527,849
2 Agricultural implements.....	17	584,247	56,500	114,916	111,827	301,004	15	27	17,195	218	100,033
3 Awnings, tents, and sails.....	39	109,393	3,200	10,300	10,093	85,775	50	2	700	135	59,339
4 Baskets, and rattan and willow ware.....	5	9,580	1,175	700	1,705	7,000	27	2	500	208	10,773
5 Bicycle and tricycle repairing.....	67	60,965	2,110	4,310	23,965	90,080	66	1	72	45	18,230
6 Blacksmithing and wheelwrighting.....	973	856,204	87,816	215,637	194,135	353,617	1,053	4	2,214	450	203,938
7 Bookbinding and blank book making.....	9	33,408			14,728		9	6	8,000	58	24,070
8 Boot and shoe cut stock.....	5	37,249	900	1,000	8,500	27,449	5	17	7,400	36	5,367
9 Boots and shoes, custom work and repairing.....	213	73,435	4,865	10,650	31,032	27,333	216	1	390	85	56,040
10 Boots and shoes, factory product.....	45	5,148,278	195,255	540,950	663,326	3,808,717	41	345	345,556	6,432	2,064,672
11 Bottling.....	13	167,230	23,500	13,500	66,930	93,300	14	10	9,303	82	39,418
12 Boxes, fancy and paper.....	9	94,746	1,000	5,500	90,046	58,200	6	6	6,450	187	54,571
13 Boxes, wooden packing.....	28	444,449	56,577	100,200	116,742	179,930	29	20	13,188	404	156,363
14 Brass castings and brass finishing.....	6	119,714	7,800	13,781	33,343	65,230	7	6	4,134	50	28,751
15 Bread and other bakery products.....	106	490,861	49,850	62,750	89,160	289,101	122	83	61,150	492	213,034
16 Brick and tile.....	71	454,933	94,101	93,055	68,438	199,329	78	24	7,914	892	162,105
17 Bridges.....	3	15,500			12,000	8,500	5	2	1,600	40	20,600
18 Brooms and brushes.....	8	23,846	335	1,040	2,800	19,671	7	3	2,100	41	18,739
19 Carpentering.....	277	900,627	81,220	125,990	186,146	557,271	307	87	83,515	1,072	890,032
20 Carriage and wagon materials.....	4	35,671	850	2,800	7,545	25,476	6	1	1,032	14	6,171
21 Carriages and wagons.....	165	602,773	57,420	118,350	71,523	855,475	189	16	10,100	339	173,634
22 Cars and general shop construction and repairs by steam railroad companies.....	19	921,905	72,000	376,850	217,081	255,074		87	31,332	571	300,753
23 Charcoal.....	3	2,690	210	500	500	1,480	3			4	912
24 Cheese, butter, and condensed milk, factory product.....	61	429,510	16,951	117,260	81,654	213,645	39	39	16,646	162	70,233
25 Chemicals.....	5	550,426	2,335	47,396	467,459	33,236	3	7	2,733	12	4,928
26 Cleansing and polishing preparations.....	3	10,400	5,150	400	400	4,450	1	1	100	5	1,556
27 Clothing, men's, custom work and repairing.....	178	394,516	20,897	29,644	40,460	303,515	193	10	8,619	751	240,553
28 Clothing, men's, factory product.....	42	443,752	10,650	33,578	60,664	338,360	52	39	27,021	1,270	271,967
29 Clothing, women's, dressmaking.....	163	138,239	22,765	63,805	16,935	34,734	176	29	10,760	476	105,439
30 Clothing, women's, factory product.....	9	193,050			13,300	179,750	11	23	11,800	290	172,679
31 Coffins, burial cases, and undertakers' goods.....	10	80,435	4,650	7,000	6,325	62,460	15	1	200	53	26,654
32 Confectionery.....	56	174,855	3,800	9,900	55,685	100,470	64	46	30,500	240	75,893
33 Cooperage.....	76	138,548	11,430	22,280	25,937	78,841	82	5	5,200	158	67,449
34 Cotton goods.....	15	21,037,190	988,306	3,498,246	7,988,603	8,612,035	1	100	281,815	13,723	4,380,297
35 Cutlery and edge tools.....	11	123,667	18,100	16,525	23,300	65,742	10	7	6,208	63	21,149
36 Dyeing and cleaning.....	11	17,040	1,200	6,100	6,515	3,225	11	1	855	23	8,830
37 Electrical construction and repairs.....	8	17,875		600	5,875	11,400	10	1	200	15	8,300
38 Electroplating.....	4	2,375			1,775	600	5			1	325
39 Fertilizers.....	3	49,350	1,050	4,900	26,400	17,000	1	2	3,400	84	6,990
40 Fish, canning and preserving.....	117	8,481,036	137,855	740,815	2,045,117	5,558,269	135	177	139,497	5,567	1,181,850
41 Flavoring extracts.....	10	80,137	2,922	9,817	7,685	59,713	10	14	27,000	46	21,630
42 Flouring and grist mill products.....	227	1,235,767	125,492	265,164	277,261	567,850	237	18	11,560	192	93,820
43 Foundry and machine shop products.....	112	4,032,950	383,793	582,848	879,903	2,186,906	117	133	135,472	2,143	1,036,034
44 Fruits and vegetables, canning and preserving.....	59	865,825	42,345	132,433	230,923	459,559	99	102	50,854	904	203,509
45 Fur goods.....	5	27,015	100	200	3,165	23,550	7	5	1,725	26	12,393
46 Furniture, cabinetmaking, repairing, and upholstering.....	83	162,449	12,485	23,575	35,036	91,403	97	9	6,608	185	65,979
47 Furniture, factory product.....	14	421,836	57,500	62,621	53,650	248,065	12	39	36,271	334	127,051
48 Gas, illuminating and heating.....	9	1,426,118	143,161	178,500	193,901	193,901	47	47	29,063	61	37,953
49 Hairwork.....	3	3,075			150	2,925	3			4	1,200
50 Hand stamps.....	3	37,750	7,500	15,000	11,750	8,500	2	1	800	5	2,330
51 Hosiery and knit goods.....	3	9,000			4,400	4,600	6			37	7,425

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.										
53,701	\$23,884,885	18,913	\$4,835,171	2,202	\$307,843	\$7,774,216	\$791,726	\$793,736	\$5,287,813	\$301,441	\$68,863,408	\$66,716,940	\$2,146,468	\$127,861,485	1
7,249	3,155,853	4,499	1,325,407	229	40,284	1,066,185	69,962	161,409	775,723	59,061	10,784,566	10,504,346	280,220	19,162,297	2
1,464	516,979	68	14,468	7	1,000	115,376	15,381	19,265	78,949	1,781	2,967,642	2,945,221	22,421	4,378,336	3
7,397	3,551,209	2,565	683,522	107	17,601	1,400,306	852,368	108,631	788,545	150,762	9,465,228	9,178,628	286,605	18,947,126	4
1,528	633,229	218	40,411	22	1,586	310,878	6,130	25,015	278,681	1,052	2,188,114	2,080,322	107,792	3,975,607	5
2,081	934,123	256	68,000	76	11,009	90,964	19,283	11,173	54,608	6,000	1,386,758	1,361,337	25,421	3,211,549	6
5,395	2,546,181	2,243	540,766	271	89,750	1,302,106	75,867	88,317	777,141	361,281	7,258,870	7,057,855	201,015	15,055,860	7
2,492	1,200,110	494	118,562	23	2,085	244,760	35,853	27,228	170,714	10,965	2,714,598	2,483,539	231,059	5,212,923	8
622	226,686	108	27,657	54	7,740	22,800	3,865	4,795	11,902	2,238	504,319	492,589	11,730	1,119,100	9
1,989	812,294	477	97,980	26	3,673	207,930	13,241	33,430	161,259	10,755	2,447,877	2,321,507	126,370	4,098,474	10
5,962	2,717,397	912	223,844	42	4,144	824,410	30,220	66,895	593,851	73,344	8,160,462	7,888,695	271,767	14,217,201	11
1,078	453,011	283	80,300	2	200	106,600	11,594	13,863	76,074	5,150	1,389,707	1,347,284	42,423	2,419,787	12
2,594	1,350,880	193	46,183	23	2,252	278,561	13,932	17,598	194,644	52,387	3,032,093	2,929,619	102,474	5,474,089	13
2,332	926,962	571	166,706	26	4,136	310,853	22,975	31,965	252,258	3,655	3,306,075	3,195,185	110,890	5,834,804	14
883	350,101	387	89,212	9	1,207	66,912	8,660	6,488	41,000	10,755	850,478	837,432	22,046	1,717,828	15
4,104	1,830,653	1,791	242,949	858	92,612	252,355	17,542	43,165	189,698	1,950	3,947,958	3,871,362	76,596	7,069,209	16
6,696	2,649,072	3,848	1,079,114	427	78,564	1,173,160	35,253	184,499	842,367	161,051	8,449,663	8,222,024	227,639	16,472,205	17

SPECIFIED INDUSTRIES: 1900.

53,701	\$23,884,885	18,913	\$4,835,171	2,202	\$307,843	\$7,774,216	\$791,726	\$793,736	\$5,287,813	\$301,441	\$68,863,408	\$66,716,940	\$2,146,468	\$127,861,485	1
215	99,277	2	600			28,430	462	2,699	25,329		98,197	84,911	13,286	290,261	2
116	56,274	19	6,065	1	156	6,540	8,570	420	2,540		152,631	151,551	1,077	263,095	3
80	4,683	110	5,740	18	350	392	37	20	335		2,217	2,151	66	20,925	4
45	18,230					8,281	5,336	476	2,469		32,731	31,213	1,518	94,003	5
448	203,679			2	259	43,585	28,584	5,490	9,181	330	391,251	360,974	30,280	1,294,357	6
25	14,702	33	9,368			7,392	1,604	221	507	5,000	32,000	31,486	514	82,250	7
8	1,979	28	3,388			15,898	1,882	111	3,565	10,340	77,345	77,345	996	131,981	8
79	84,566	5	1,364	1	110	16,047	13,210	386	1,901	650	74,134	71,048	3,086	212,637	9
4,346	2,014,903	2,064	645,694	22	3,985	402,027	13,297	20,380	367,350	1,000	8,366,747	8,323,240	43,507	12,295,847	10
80	38,938	1	300	1	120	2,992	643	10,416	10,416		825,847	824,032	1,815	430,138	11
38	19,646	149	84,925			7,580	2,700	826	3,454	600	98,887	95,753	3,134	208,250	12
397	155,704	1	467	6	795	31,908	850	2,387	26,421	2,250	348,021	343,826	4,195	599,858	13
50	24,751					6,020	533	637	4,856		62,590	62,590	8,450	119,573	14
360	184,411	126	27,962	0	681	45,182	23,892	3,761	17,569	1,812	643,856	625,444	18,412	1,201,531	15
391	162,025			1	80	24,940	3,455	3,248	16,425		106,020	7,300	98,725	16	
40	20,000					1,317	311	36	970		31,753	30,845	908	60,657	17
25	15,451	15	3,138	1	150	3,784	620	268	1,296	1,600	68,311	67,734	577	113,290	18
1,666	888,557	6	1,535	6	1,535	183,376	11,157	5,793	60,124	100,502	1,429,496	1,424,296	5,200	3,056,220	19
14	6,171					2,889	188	188	2,008		13,772	12,842	930	30,163	20
337	173,084	1	350	1	200	25,209	6,072	4,318	11,896	2,983	274,772	266,155	8,617	719,859	21
571	300,755					35,435		6,715	28,720		487,604	476,758	10,846	857,136	22
4	912					46		16	80		1,200	1,200		2,670	23
141	64,707	21	5,676			23,065	1,648	2,291	15,278	3,848	1,407,050	1,394,778	12,272	1,727,684	24
12	4,928					2,991	500	263	2,228		16,758	14,068	2,690	31,993	25
5	1,856					433	348	48	37		2,714	2,678	36	9,750	26
145	85,061	605	155,972	1	125	53,317	27,431	3,187	12,159	11,040	365,856	353,861	6,995	877,292	27
253	83,923	1,007	186,902	10	1,142	75,749	6,120	2,797	20,695	46,297	633,471	675,761	7,710	1,395,836	28
9	4,970	464	190,219	3	250	26,528	24,095	660	1,614	100	119,290	115,585	3,705	353,828	29
7	3,800	283	68,879			7,410	3,292	243	3,875		154,455	153,458	997	287,749	30
51	25,960	2	694			3,137	1,350	525	1,262		76,539	74,777	762	135,805	31
99	44,928	140	30,782	1	183	44,285	12,797	1,897	29,451	150	261,427	256,992	4,435	512,743	32
154	56,999			4	450	21,518	2,363	472	2,203	16,480	114,092	111,578	2,519	260,973	33
6,197	2,342,275	6,700	1,864,335	766	123,687	1,440,425	3,600	242,290	783,375	406,220	7,036,287	6,859,102	177,185	14,631,086	34
68	21,149					4,976	899	967	3,110		29,882	26,242	3,640	78,476	35
16	6,815	7	2,015			3,402	2,269	130	1,003		5,642	4,792	850	35,133	36
15	3,300					1,328	879	99	850		11,690	11,391	299	27,112	37
1	325					430	892	10	28		770	525	245	4,550	38
34	6,980					2,120	220	220	1,900		22,190	21,940	250	40,002	39
2,895	833,157	1,746	245,302	926	106,391	97,859	3,777	11,555	82,322	175	2,578,636	2,512,716	65,920	4,779,733	40
11	6,226	85	15,404			16,283	1,154	492	14,637		86,688	86,335	353	168,621	41
192	93,820					48,836	11,475	9,700	22,661		2,827,443	2,804,852	22,591	3,399,832	42
2,120	1,030,673	23	5,361			142,334	10,107	26,522	105,645	60	1,563,168	1,483,396	69,772	3,298,706	43
487	144,568	316	49,355	101	9,616	48,119	4,936	5,444	32,239	500	792,102	751,454	10,648	1,335,671	44
13	8,524	13	4,415			3,275	1,640	190	1,445		35,035	34,255	780	66,200	45
115	60,380	18	6,374	2	225	15,932	10,576	937	4,389		181,368	128,650	2,818	307,368	46
322	124,237	11	2,664	1	150	35,463	4,000	2,463	24,000	5,000	284,216	282,779	1,437	580,737	47
61	37,958					60,139	581	14,237	45,902		73,394	66,443	6,951	235,055	48
5	2,330	4	1,200			581	496	35	50		2,182	2,152	30	6,400	49
4	1,300	31	6,000	2	125	6,389	200	58	1,581	4,600	10,810	10,700	110	29,075	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 House furnishing goods, not elsewhere specified.	5	\$4,645	\$370	\$950	\$1,825	\$1,500	5		8	\$2,715	
53 Ironwork, architectural and ornamental.	3	171,488	13,900	11,650	14,600	131,338	2	\$10,000	70	32,739	
54 Kindling wood.	4	53,072	600	7,600	26,039	18,833	4	2,250	65	21,373	
55 Leather, tanned, curried, and finished.	31	1,376,106	23,433	156,457	83,246	1,165,965	30	26,798	587	229,268	
56 Lime and cement.	20	1,942,007	485,338	681,615	143,225	631,929	32	26,296	582	248,371	
57 Lock and gun smithing.	21	20,475	2,000	4,000	7,530	6,595	27		7	3,146	
58 Looking-glass and picture frames.	18	73,295	400	3,000	4,890	65,005	22	3,768	72	39,738	
59 Lumber and timber products.	838	15,764,538	4,427,513	1,450,231	2,681,520	7,205,274	1,112	257,228,607	6,834	2,633,771	
60 Lumber, planing mill products, including sash, doors, and blinds.	70	1,351,555	88,745	180,845	308,411	773,554	81	42,878	742	351,733	
61 Marble and stone work.	78	2,759,910	746,615	256,255	636,931	1,120,109	92	67,318	2,246	1,090,915	
62 Masonry, brick and stone.	91	491,123	25,535	45,240	67,770	352,678	104	13,055	1,292	729,772	
63 Mattresses and spring beds.	8	19,323	360	1,750	4,450	12,773	11		36	10,296	
64 Millinery, custom work.	270	437,184	23,735	52,450	12,755	343,194	309	12,325	398	166,455	
65 Mineral and soda waters.	34	216,497	21,991	41,453	87,660	65,393	43	10,268	86	35,475	
66 Models and patterns.	5	5,775	50	100	3,200	2,425	6		6	2,915	
67 Monuments and tombstones.	102	450,845	33,270	40,655	61,349	265,571	132	20,617	303	176,548	
68 Oil, not elsewhere specified.	5	95,585	5,900	21,000	48,550	20,135	3	5,000	13	10,088	
69 Oilcloth, floor.	3	146,954	3,500	78,000	16,500	48,954	7	3,550	264	146,790	
70 Painting, house, sign, etc.	247	293,783	25,310	49,740	33,817	184,886	279	15,632	673	328,460	
71 Paper and wood pulp.	35	17,473,160	2,671,385	3,866,120	6,148,974	4,786,681	12	258,445,348	4,851	2,162,972	
72 Patent medicines and compounds.	29	455,752	3,400	7,895	19,036	425,421	26	22,857	130	40,761	
73 Paving and paving materials.	8	78,284	23,500	1,750	26,175	14,309	5	5,165	151	60,550	
74 Photography.	98	148,134	1,475	11,325	83,334	51,500	104	2,620	81	29,594	
75 Pickles, preserves, and sauces.	3	12,200	225	1,075	2,700	8,200	2	5,200	19	4,310	
76 Plastering and stucco work.	11	12,905		950	2,460	10,095	14	1,000	53	32,651	
77 Plumbing, and gas and steam fitting.	112	624,171	52,300	74,890	67,385	429,596	136	41	24,790	500	274,272
78 Pottery, terra cotta, and fire-clay products.	3	168,882	2,500	5,000	2,000	158,882	4	10,909	155	70,225	
79 Printing and publishing, book and job.	79	368,434	10,775	25,075	221,976	105,608	83	21	15,248	276	122,217
80 Printing and publishing, newspapers and periodicals.	120	1,668,820	36,225	113,550	716,944	802,101	101	219	182,039	1,300	473,029
81 Roofing and roofing materials.	9	363,176	164,028	23,300	53,900	121,948	6	9	6,340	167	72,735
82 Saddlery and harness.	160	275,285	17,375	49,065	35,155	173,690	173	2	782	163	72,518
83 Ship and boat building, wooden.	115	1,315,820	106,500	91,975	125,520	991,825	150	23,326	1,300	749,567	
84 Shirts.	6	101,054	1,000	13,000	13,209	73,845	7	9	6,250	233	80,350
85 Slaughtering and meat packing, wholesale.	3	34,800		3,100	3,100	31,700	5	4	1,215	14	7,220
86 Slaughtering, wholesale, not including meat packing.	8	97,880	8,400	34,750	2,430	52,300	7	2	1,625	24	10,630
87 Soap and candles.	8	21,833	5,125	8,550	2,760	5,448	9		6	2,519	
88 Sporting goods.	3	6,675	900	1,200	1,450	3,125	3		2	650	
89 Starch.	45	314,349	23,530	150,750	71,365	98,704	46	17	3,475	111	34,824
90 Taxidermy.	7	19,680	150	1,400	2,723	15,407	9		17	11,829	
91 Tinsmithing, coppersmithing, and sheet-iron working.	117	315,419	24,745	44,350	58,200	188,124	143	17	7,537	200	110,232
92 Tobacco, cigars and cigarettes.	54	134,076	2,450	3,700	8,281	119,645	59	10	5,630	132	86,161
93 Tools, not elsewhere specified.	5	78,600	1,300	5,500	40,800	31,000	7	2	1,200	47	22,600
94 Trunks and valises.	10	324,923	2,850	16,500	99,058	205,915	7	23	25,549	218	98,548
95 Vinegar and cider.	11	16,933	1,035	3,350	7,800	4,743	12	1	440	9	2,475
96 Watch, clock, and jewelry repairing.	180	159,298	6,575	15,425	65,391	71,907	139	7	3,660	109	49,933
97 Wood, turned and carved.	52	693,544	32,600	101,775	190,299	368,870	56	34	20,237	351	230,367
98 Woolen goods.	76	12,642,038	723,715	1,833,515	2,759,954	7,319,874	34	190	241,988	6,280	2,383,333
99 Worsteds.	3	1,486,635	17,500	110,031	250,489	1,108,665	3	27	20,782	875	305,363
100 All other industries <sup>1</sup> .	101	5,984,511	404,588	774,352	1,278,403	3,531,668	84	192	207,597	3,371	1,351,626

<sup>1</sup>Embraces artificial limbs, 1; babbitt metal and solder, 1; belting and hose, leather, 2; bicycles and tricycles, 1; blacking, 2; boot and shoe findings, 2; brassware, 1; carpets, rag, 1; carriages and sleds, children's, 1; cars and general shop construction and repairs by street railroad companies, 1; china decorating, 2; clocks, 1; coffee and spice, roasting and grinding, 2; cordage and twine, 2; cotton waste, 1; dyeing and finishing textiles, 1; dye stuffs and extracts, 1; electrical apparatus and supplies, 2; engraving and die-sinking, 1; engraving, wood, 1; explosives, 1; fancy articles, not elsewhere specified, 2; felt goods, 2; firearms, 1; fireworks, 1; food preparations, 2; fur hats, 1; furnishing goods, men's, 2; furs, dressed, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 1; gloves and mittens, 1; glue, 1; grease and tallow, 2; hand knit goods, 2; hats and caps, not including fur hats and wool hats, 1; hones and whetstones, 1; iron

TABLE 8.—MANUFACTURES IN CITIES

BANGOR.												
		815	\$2,743,648	\$131,500	\$244,735	\$589,675	\$1,777,738	860	176	\$142,561	2,669	\$1,291,941
1 All industries												
2 Awnings, tents, and sails.	8		16,303								19	10,160
3 Bicycle and tricycle repairing.	6		3,225			2,103	14,200	4			6	2,241
4 Blacksmithing and wheelwrighting.	26		32,475	1,300	5,200	10,100	15,875	30	2	774	28	14,402
5 Boots and shoes, custom work and repairing.	13		4,665			3,100	1,465	13			6	4,085
6 Boots and shoes, factory product.	4		180,100	4,000	40,000	40,000	96,100	5	14	19,500	418	162,200
7 Bottling.	7		35,275	3,500	2,500	2,375	26,900	10	3	1,268	15	9,550
8 Bread and other bakery products.	3		29,400									
9 Carpentering.	21		53,426	1,200	4,900	7,900	12,500	3	0	5,250	17	7,325
10 Carriages and wagons.	8		13,300	1,500	2,500	5,475	41,851	24	1	160	153	88,051
11 Cheese, butter, and condensed milk, factory product.	8		49,900	1,100	5,000	2,200	7,100	9			22	11,468
						9,800	25,000	2	8	1,036	15	7,400

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
6	\$2,865	2	\$350			\$879	\$152	\$27	\$200		\$6,298	\$6,252	\$41	\$14,075	52
70	32,789					1,789		589	1,200		156,285	154,765	1,520	210,800	53
48	16,866	12	4,147	5	\$860	2,617	200	272	2,145		23,679	21,782	1,797	62,976	54
584	238,761			8	507	102,332	871	10,958	90,808		1,943,201	1,930,242	12,062	2,451,713	55
582	248,871					97,878	10,892	13,448	69,846	\$3,722	646,239	449,248	190,991	1,226,972	56
7	8,146					2,380	1,701	185	464		5,895	4,787	658	22,060	57
62	35,616	10	4,122			6,256	8,954	530	1,772	50	79,447	79,118	394	158,340	58
6,775	2,621,110	54	11,674	5	987	514,059	45,620	98,237	344,776	25,626	7,994,696	7,991,030	3,566	18,489,401	59
788	851,078	1	215	3	500	69,839	13,807	8,562	44,974	2,496	767,908	748,957	18,951	1,414,604	60
2,246	1,090,915					97,237	12,637	12,793	68,026	3,781	172,400	151,065	21,344	1,898,040	61
1,292	729,772					37,786	3,748	1,864	14,769	17,405	765,117	757,326	7,791	1,993,508	62
21	8,820	5	1,386			1,133	760	103	1,772		19,334	19,079	255	53,776	63
1	600	397	105,895			60,747	41,276	3,162	14,809	1,500	698,661	692,361	6,170	1,007,635	64
77	32,615	4	1,730	5	730	14,004	2,711	1,476	9,817		167,490	165,691	1,799	285,187	65
6	2,915					715	591	102	102		4,618	4,448	375	12,920	66
303	170,548					110,756	4,764	2,996	9,624	94,072	228,670	224,321	4,349	609,998	67
33	10,988					1,704	124	680	1,000		17,290	15,050	1,840	41,600	68
260	145,500	4	1,200			7,515		1,800	5,715		302,050	280,250	12,800	567,000	69
672	828,360			1	100	30,310	15,074	1,645	8,376	6,215	261,611	256,245	5,366	836,957	70
4,660	2,082,923	291	80,049			1,394,967	199,251	122,071	1,067,754	6,891	7,118,945	6,385,344	789,601	13,223,275	71
40	19,869	87	20,379	3	516	113,099	5,810	510	106,449	300	124,629	123,649	980	390,867	72
151	60,550					1,789	490	506	380		11,828	10,619	1,209	107,954	73
47	21,257	34	8,297			20,786	18,959	785	5,567	475	69,042	66,139	2,918	210,243	74
4	1,310	15	3,000			513	965	48	100		39,691	39,421	270	54,450	75
58	32,654					1,334	1,103	13	218		15,395	15,323	72	60,070	76
499	278,896	1	376			35,351	18,105	3,751	12,925	570	729,256	724,342	4,914	1,288,882	77
155	70,225					30,779		2,164	34,615		57,716	32,847	24,869	222,260	78
209	102,325	63	19,526	4	396	30,258	11,198	1,791	10,450	6,819	133,485	126,290	7,195	415,370	79
661	331,651	615	137,137	30	4,238	480,600	27,923	9,463	390,423	62,376	514,384	490,179	24,205	2,190,017	80
167	72,785					11,043	438	916	9,689		51,488	42,671	8,817	155,432	81
161	72,118	2	400			18,349	11,854	1,996	4,499		214,859	210,893	3,966	426,368	82
1,369	749,567					65,468	6,936	4,705	18,051	35,771	1,377,769	1,370,751	7,018	2,401,765	83
41	20,200	242	60,150			10,585	2,479	661	7,445		122,982	120,721	2,261	247,650	84
14	7,220					5,717	802	127	4,788		134,338	133,855	483	156,286	85
23	10,380	1	300			1,102		534	563		322,093	322,100	593	397,606	86
6	2,519					732	84	307	341		12,342	11,913	429	21,460	87
2	650					305	75	55	175		1,505	1,505	80	5,916	88
111	34,324					9,176	300	2,216	6,660		858,716	850,190	8,526	555,576	89
16	11,145	1	184			4,113	1,192	189	2,730	52	7,336	7,183	203	48,891	90
203	108,952	5	1,190	1	150	26,884	15,912	2,158	8,088	726	187,124	182,291	4,833	474,377	91
142	78,117	37	7,624	3	420	37,053	6,492	711	29,535	375	98,643	97,624	1,019	284,317	92
47	22,600					4,391	750	441	3,200		40,190	34,845	5,345	80,600	93
194	94,097	24	4,451			31,628	7,770	1,437	22,421		183,622	178,700	4,922	441,402	94
9	2,475					888	65	129	194		6,348	6,009	279	15,014	95
100	47,223	7	2,324	2	386	30,619	10,532	978	5,395	7,714	62,755	60,112	2,643	261,755	96
726	278,520	107	14,725	18	2,122	32,420	4,491	4,714	17,997	5,213	332,898	323,331	9,567	853,298	97
4,230	1,778,171	1,941	584,122	109	21,030	659,319	4,794	54,166	599,911	448	6,342,079	6,639,415	203,264	11,633,232	98
364	154,958	420	181,809	91	18,596	190,380	500	1,117	188,763		1,102,807	1,062,489	39,868	1,779,692	99
2,344	1,239,922	491	139,169	36	5,635	271,894	16,196	29,733	216,973	8,942	2,662,719	2,574,330	88,889	5,426,521	100

and steel, 1; iron and steel, forgings, 1; kaolin and other earth grinding, 1; lugs, 2; leather goods, 2; lithographing and engraving, 2; matches, 1; musical instruments, pianos and materials, 1; oakum, 1; optical goods, 2; paints, 2; perfumery and cosmetics, 1; photographic materials, 1; photolithographing and photoengraving, 1; pipes, tobacco, 1; plated and britannia ware, 2; plumbers' supplies, 1; pumps, not including steam pumps, 2; refrigerators, 1; sand and emery paper and cloth, 1; sausage, 1; saws, 1; shipbuilding, iron and steel, 2; shoddy, 2; show cases, 1; silk and silk goods, 1; stencils and brands, 1; stereotyping and electrotyping, 1; surgical appliances, 1; toys and games, 1; typewriter repairing, 1; umbrellas and canes, 1; upholstering materials, 2; varnish, 1; washing machines and clothes wringers, 1; window shades, 2; wirework, including wire rope and cable, 1; woodenware, not elsewhere specified, 2; wool pulling, 1.

BY SPECIFIED INDUSTRIES: 1900.

BANGOR.

	\$1,170,538	427	\$120,928	3	\$425	\$260,708	\$59,941	\$18,103	\$140,072	\$39,587	\$2,740,287	\$2,698,230	\$42,057	\$5,172,733	1
11	7,850	8	2,250			1,031	475	116	440		21,242	21,095	147	41,050	2
6	2,241					882	735	10	137		1,640	1,530	110	8,200	3
23	14,402					2,868	2,272	130	466		22,562	21,109	1,453	65,930	4
6	4,085					1,453	1,198	7	248		5,781	5,700	81	18,090	5
833	135,300	85	26,400			40,859	446	1,675	37,738	1,000	708,964	706,519	2,445	967,888	6
15	9,550					2,859	1,450	186	1,273		68,465	68,275	190	102,850	7
17	7,325					1,805	1,405	130	270		35,501	34,704	797	63,150	8
153	38,054					7,538	1,689	217	1,512	4,120	105,759	105,517	242	227,731	9
22	11,463					1,376	804	292	170	200	9,971	9,631	340	30,579	10
15	7,400					1,686	600	208	798		159,939	158,639	1,300	196,103	11

TABLE 8.—MANUFACTURES IN CITIES

BANGOR—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 Clothing, men's, custom work and repairing.	17	\$15,050			\$3,225	\$11,825	17		58	\$17,177	
18 Clothing, men's, factory product.	4	39,350			3,850	35,500	6	5	76	28,000	
14 Clothing, women's, dressmaking.	26	9,475	\$2,000	\$2,000	2,655	3,320	27		54	12,462	
16 Clothing, women's, factory product.	3	8,500			1,500	7,000	5		18	5,200	
16 Coffins, burial cases, and undertakers' goods.	3	21,100			1,600	19,500	4	1	22	12,300	
17 Confectionery.	6	33,175			8,775	24,400	9	2	48	17,210	
19 Flouring and grist mill products.	3	32,300	5,000	10,000	8,500	8,800	3	1	5	2,250	
19 Foundry and machine shop products.	5	424,708	24,500	53,185	53,200	233,823	2	29	163	87,402	
20 Furniture, cabinetmaking, repairing, and upholstering.	5	7,700			900	6,800	6	2	15	6,683	
21 Lumber, planing mill products, including sash, doors, and blinds.	3	39,000	1,500	7,500	11,500	18,500	4		23	11,050	
22 Masonry, brick and stone.	9	202,280	2,900	900	19,980	178,500	14	5	510	282,225	
23 Millinery, custom work.	10	32,300	3,000	3,000	650	31,625	11		40	12,686	
24 Mineral and soda waters.	6	19,375	700	300	14,125	4,250	8	2	5	1,843	
25 Monuments and tombstones.	5	13,375		550	1,075	11,760	8	1	23	19,660	
26 Painting, house, sign, etc.	15	25,060			3,110	21,950	19	2	88	47,673	
27 Photography.	5	10,075			7,600	2,475	6		5	1,810	
28 Plumbing, and gas and steam fitting.	9	77,690			6,490	71,200	13	5	59	31,425	
29 Printing and publishing, book and job.	9	46,875		1,000	29,522	16,353	9	1	39	15,283	
30 Printing and publishing, newspapers and periodicals.	6	138,710			65,922	72,718	5	37	73	30,428	
31 Saddlery and harness.	7	11,175	100	400	1,675	9,100	7		13	6,372	
32 Ship and boatbuilding, wooden.	4	7,900	1,000	800	1,800	4,300	4		14	8,683	
33 Tobacco, cigars and cigarettes.	3	34,621	1,000	1,000	1,300	31,321	3	5	43	25,900	
34 Trunks and valises.	3	88,063	1,500	2,500	9,063	75,000	2	8	74	28,688	
35 Watch, clock, and jewelry repairing.	12	12,425			6,750	5,675	12		13	6,350	
36 All other industries <sup>1</sup> .	43	937,022	75,700	101,500	240,560	569,262	47	41	484	246,356	

<sup>1</sup> Embraces bookbinding and blank book making, 2; boxes, fancy and paper, 1; brass castings and brass finishing, 1; brick and tile, 1; brooms and brushes, 1; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; clocks, 1; cooperage, 2; dyeing and cleaning, 2; electrical construction and repairs, 1; electroplating, 2; fur goods, 1; gas, illuminating and heating, 1; hand stamps, 1; hosiery and knit goods, 1; leather, tanned, curried, and finished, 1; lock and gun smithing, 2; looking-glass and picture frames, 2; lumber and timber products, 2; marble and stone work, 1; mattresses and spring

LEWISTON.

		282	\$10,984,871	\$601,250	\$2,040,082	\$3,700,081	\$4,643,458	285	181	\$202,483	7,159	\$2,509,030
1 All industries												
2 Bicycle and tricycle repairing.	4	2,750				900	1,850	2			4	2,140
3 Blacksmithing and wheelwrighting.	10	13,900	1,500		3,150	2,675	6,675	11	1	240	12	5,730
4 Boots and shoes, custom work and repairing.	16	3,008			980	1,450	6,628	16			4	1,408
5 Bottling.	3	3,955				555	3,400	3			3	3,600
6 Bread and other bakery products.	11	19,050	4,000	1,000	4,000	10,050	10,050	13	7	2,388	19	7,984
7 Brick and tile.	5	23,942	5,800	1,700	3,700	17,742	4	1	210		21	10,915
8 Carpentering.	10	21,085	550	1,700	4,085	14,750	10	1	450		52	25,050
9 Carriages and wagons.	5	62,085	9,000	10,000	5,425	37,660	7	2	1,600		33	16,665
10 Clothing, men's, custom work and repairing.	12	33,330	11,000	5,500	3,280	14,050	15				53	19,738
11 Clothing, women's, dressmaking.	28	6,485			2,550	3,935	29				60	15,495
12 Clothing, women's, factory product.	3	14,900				800	14,600	3	3	900	31	7,316
13 Confectionery.	9	7,702		500		3,952	3,250	9	1	250	9	3,225
14 Cotton goods.	5	7,651,502	345,500	1,535,066	2,033,824	3,087,112	3,087,112	36	86	82,323	4,604	1,555,510
15 Flouring and grist mill products.	3	48,200	5,000	12,800	3,600	26,800	26,800	3	5	3,100	11	5,400
16 Foundry and machine shop products.	4	135,991	20,000	41,650	47,250	26,491	26,491	5	4	4,768	95	36,149
17 Furniture, cabinetmaking, repairing, and upholstering.	6	2,630		100		386		6			2	1,095
18 Lock and gun smithing.	3	4,400		325		1,675	2,400	3			1	620
19 Looking-glass and picture frames.	4	4,255				490	3,765	6			3	1,620
20 Lumber, planing mill products, including sash, doors, and blinds.	4	242,979	21,500	29,120	13,700	173,659	7	10	3,393		112	55,301
21 Masonry, brick and stone.	11	45,857	1,100	4,000	12,875	27,882	13	2	1,050		91	46,735
22 Millinery, custom work.	22	50,321	9,000	11,000	784	29,537	24	12	2,500		61	16,391
23 Monuments and tombstones.	3	41,475	7,500	10,975	8,661	14,339	3	1	520		43	18,070
24 Painting, house, sign, etc.	16	14,815	1,100	4,250	2,140	7,325	16				33	16,192
25 Patent medicines and compounds.	3	1,100				200	900	2			1	305
26 Photography.	8	14,235				6,335	7,340	9	2	900	10	4,530
27 Plumbing, and gas and steam fitting.	8	57,020	3,800	1,600	5,370	46,250	8	5	3,345		41	22,943
28 Printing and publishing, book and job.	7	26,227		200	13,950	7,077	7				18	8,574
29 Printing and publishing, newspapers and periodicals.	4	232,352	20,000	80,000	62,500	70,352	2	26	19,334		98	41,704
30 Saddlery and harness.	4	12,500	1,100	800	1,900	8,700	3				14	6,100
31 Tobacco, cigars and cigarettes.	10	16,004			1,920	14,084	12	1	500		30	14,447
32 Watch, clock, and jewelry repairing.	11	7,989	700	800	3,255	3,234	12				6	3,364
33 Woolen goods.	3	515,661	18,500	45,500	90,000	361,661		8	7,580		270	95,593
34 All other industries <sup>1</sup> .	27	1,641,760	114,600	237,416	695,334	593,910	22	53	62,132		1,304	439,061

<sup>1</sup> Embraces awnings, tents, and sails, 1; belting and hose, leather, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 1; brass castings and brass finishing, 1; brooms and brushes, 1; china decorating, 1; clothing, men's, factory product, 1; dyeing and cleaning, 1; dyeing and finishing textiles, 1; fancy articles, not elsewhere specified, 1; food preparations, 1; fur goods, 1; gas, illuminating and heating, 1; hand knit goods, 1; lumber and timber products, 2;

BY SPECIFIED INDUSTRIES: 1900—Continued.

BANGOR—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.										
10	\$5,680	47	\$11,422	1	\$125	\$5,848	\$2,110	\$92	\$601	\$8,040	\$29,971	\$29,409	\$502	\$60,689	12
18	8,808	58	19,192			2,863	1,356	210	1,297		78,788	78,813	475	126,300	13
		54	12,462			2,464	2,354	62	48		4,065	8,480	585	80,117	14
		18	5,200			820	660	65	95		15,707	15,650	57	26,080	15
21	12,000	1	800			1,825	900	225	200		89,820	89,595	225	62,925	16
23	11,510	25	5,700			8,477	1,740	150	1,587		58,918	57,383	1,530	101,600	17
5	2,250					1,320	800	145	875		158,180	156,880	1,250	177,400	18
168	87,402					19,628	1,900	3,922	14,406		115,932	111,534	4,398	290,300	19
11	5,669	4	1,014			1,407	1,128	29	280		6,955	6,780	176	20,460	20
23	11,050					1,895	955	406	584		11,560	10,610	950	27,800	21
510	282,225					11,065	575	160	4,205	6,125	298,508	292,088	6,470	688,270	22
5	1,843	40	12,686			5,092	3,675	901	1,116		54,104	53,725	379	82,557	23
28	19,080					2,224	1,005	126	1,095		7,469	7,183	286	28,525	24
88	47,673					1,399	1,180	156	113		9,918	9,781	187	39,109	25
						7,268	1,696	76	496	5,000	81,160	80,755	405	109,405	26
1	450	4	1,860			2,124	1,295	61	468	300	6,785	6,425	360	17,600	27
58	81,049	1	376			5,124	3,261	324	1,539		95,622	94,686	986	160,589	28
23	10,716	15	4,417	1	150	3,215	1,790	277	1,148		20,612	19,581	1,081	59,208	29
60	84,804	12	4,974	1	150	50,522	2,004	768	45,908	1,852	32,591	30,569	2,022	160,020	30
18	6,872					1,581	1,172	94	265		17,087	16,802	175	80,825	31
14	8,683					652	250	60	342		4,887	4,617	220	20,688	32
80	24,000	18	1,900			6,048	738	125	5,185		17,826	17,266	60	64,891	33
68	27,188	6	1,600			4,215	1,200	540	2,475		59,489	58,714	725	118,275	34
12	6,150	1	200			2,571	1,650	65	506	850	7,283	7,168	115	27,600	35
449	237,281	35	9,575			54,252	7,528	7,958	21,771	17,600	417,988	406,662	11,274	925,784	36

beds, 2; patent medicines and compounds, 1; pottery, terra cotta, and fire-clay products, 1; roofing and roofing materials, 1; saws, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; taxidermy, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; tools, not elsewhere specified, 1; window shades, 1; woolen goods, 1; wool pulling, 1.

LEWISTON.

8,837	\$1,580,907	3,164	\$898,725	158	\$20,398	\$596,854	\$45,111	\$110,412	\$395,780	\$45,551	\$4,108,801	\$8,957,673	\$146,128	\$8,581,354	1
4	2,140					446	348	5	93		1,687	1,687		5,872	2
12	5,780					1,826	1,384	82	960		6,088	5,543	545	22,533	3
4	1,408					1,295	1,038	11	216		8,219	8,005	214	10,895	4
8	8,690					1,970	470		1,500		11,065	10,980	85	20,886	5
16	7,624	1	110	2	250	4,849	2,272	215	2,862		86,558	84,977	1,581	64,687	6
21	10,915					2,352	1,000	284	1,118		8,876	384	7,992	26,460	7
52	25,050					2,855	497	18	1,175	700	76,268	76,268		112,417	8
33	16,685					2,325	500	425	1,400		38,421	32,676	745	64,850	9
15	8,809	38	10,920			4,303	2,059	200	1,444	600	25,802	25,393	409	64,860	10
		60	15,495			3,248	2,706	6	476	60	14,858	13,975	883	46,528	11
		31	7,816			1,944	921	28	1,000		38,590	38,500	90	50,000	12
8	2,925	1	300			2,176	1,380	76	720		12,345	11,538	812	25,302	13
1,885	796,852	2,585	738,608	138	25,055	381,561		89,870	205,266	42,425	2,192,679	2,111,795	80,884	4,638,115	14
11	5,400					1,601	120	381	1,100		128,600	126,090	2,510	155,742	15
95	36,149					8,785	442	1,216	2,077		87,112	84,887	2,725	88,993	16
2	1,095					582	428	3	156		2,024	1,957	67	6,700	17
1	620					558	412	41	105		720	585	185	3,500	18
2	1,370	1	250			850	565	10	275		4,084	4,084		8,770	19
112	55,901					13,840	3,477	2,958	8,005		85,356	82,055	3,301	197,625	20
91	46,785					4,163	1,028	345	2,790		55,851	55,776	75	120,740	21
		61	10,891			10,803	6,128	179	3,001	1,500	68,146	67,677	469	121,380	22
43	18,070					1,225		385	840		7,287	6,922	365	42,400	23
88	16,192					1,912	750	55	1,107		9,887	9,772	115	89,333	24
1	305					349	166		193		1,278	1,268	10	2,660	25
8	4,055	2	475			8,365	2,280	65	1,020		10,919	10,780	180	29,180	26
41	22,943					8,204	1,515	284	1,355	50	57,038	56,633	405	101,245	27
17	7,874	1	700			1,722	848	84	795		6,657	6,064	593	22,960	28
70	27,926	26	18,668	2	210	27,084	640	1,910	24,268	216	84,622	81,879	2,743	182,295	29
14	6,100					642	270	122	250		10,599	10,447	152	20,280	30
28	14,081	2	860			6,555	1,389	112	5,104		16,290	16,122	168	52,315	31
6	3,364					1,906	1,386	80	490		2,288	2,270	18	11,830	32
191	72,049	79	23,514			54,580		3,105	51,475		242,594	234,528	8,066	441,123	33
1,007	959,470	276	75,708	21	8,883	97,548	8,787	14,587	74,244		866,998	866,787	80,241	1,830,568	34

mineral and soda waters, 1; optical goods, 1; photographic materials, 1; pipes, tobacco, 1; plumbers' supplies, 1; roofing and roofing materials, 1; shirts, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; wood, turned and carved, 2.

TABLE 8.—MANUFACTURES IN CITIES

## PORTLAND.

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.....	689	\$6,991,251	\$508,028	\$756,747	\$1,381,830	\$4,351,151	679	611	\$519,425	5,699	\$2,612,817
2 Awnings, tents, and sails.....	7	4,660			1,510	3,150	9	1	200	18	5,960
3 Bicycle and tricycle repairing.....	4	3,550			1,500	2,050	4			8	2,900
4 Blacksmithing and wheelwrighting.....	48	88,245	4,850	7,325	7,675	18,395	57			65	32,138
5 Bookbinding and blank book making.....	4	21,015			10,980	10,035	4	6	3,000	37	15,504
6 Boots and shoes, custom work and repairing.....	38	18,355	1,750	1,850	6,617	4,188	86			17	8,429
7 Boots and shoes, factory product.....	3	87,298			18,071	69,227	2	6	3,610	180	86,960
8 Bread and other bakery products.....	23	233,810	14,800	26,800	40,460	151,750	25	51	34,546	212	97,332
9 Brick and tile.....	3	27,700	1,200	9,500	6,000	12,000	4			36	15,630
10 Carpentry.....	55	407,948	95,200	51,675	67,696	253,872	60	60	67,838	468	268,902
11 Carriages and wagons.....	9	82,438	7,000	12,500	4,525	68,408	11	5	3,120	57	32,275
12 Cars and general shop construction and repairs by street railroad companies.....	4	194,650	85,800	57,150	48,620	58,080		10	9,112	158	84,028
13 Clothing, men's, custom work and repairing.....	28	80,608		5,500	7,496	67,610	33	11	5,404	158	64,781
14 Clothing, men's, factory product.....	4	147,000			10,500	136,500	8	15	12,800	159	44,790
15 Clothing, women's, dressmaking.....	22	81,810	15,000	52,000	4,285	10,535	29	25	9,950	183	31,944
16 Clothing, women's, factory product.....	3	169,650			11,500	158,150	3	20	10,900	241	60,103
17 Confectionery.....	12	89,250	200	400	33,118	55,932	9	40	23,392	133	37,156
18 Dyeing and cleaning.....	3	10,500	1,200	5,300	2,300	1,200	2	1	365	11	5,013
19 Electrical construction and repairs.....	3	4,875			1,775	3,100	4			2	800
20 Fish, canning and preserving.....	5	10,230	2,000	3,000	1,440	3,850	5			14	6,180
21 Flavoring extracts.....	4	61,832	1,372	7,717	5,575	47,108	3	14	27,000	40	19,500
22 Flouring and grist mill products.....	4	34,600	3,800	8,000	16,000	6,800	3	1	1,000	6	3,280
23 Foundry and machine shop products.....	13	985,587	140,100	125,500	193,900	520,087	19	86	42,408	528	257,801
24 Fruits and vegetables, canning and preserving.....	3	122,935	600	2,025	35,008	85,302	4	3	3,681	55	20,544
25 Furniture, cabinetmaking, repairing, and upholstering.....	11	19,350		500	4,885	14,465	12	4	2,500	43	24,015
26 Furniture, factory product.....	4	171,365	500	19,121	20,500	131,244	4	18	20,266	144	49,299
27 Lock and gun smithing.....	6	3,105		75	1,900	1,190	7			2	1,026
28 Looking-glass and picture frames.....	6	23,950			1,650	22,400	7	8	3,768	37	19,916
29 Lumber, planing mill products, including sash, doors, and blinds.....	9	400,280	12,000	33,275	102,731	252,274	7	22	17,952	211	117,974
30 Marble and stone work.....	10	69,635	2,300	7,870	13,140	46,325	15	3	2,800	57	38,092
31 Masonry, brick and stone.....	12	37,920	7,900	2,250	4,820	22,950	15	3	1,900	141	94,035
32 Millinery, custom work.....	22	65,865	100	200	505	65,060	22	19	7,175	70	18,018
33 Oil, not elsewhere specified.....	3	12,685		4,000	3,550	5,135	3	1	1,000	3	1,370
34 Painting, house, sign, etc.....	32	54,030	1,500	700	5,737	46,093	85	1	780	123	66,922
35 Patent medicines and compounds.....	6	16,764			2,500	14,264	9	4	4,500	13	6,060
36 Paving and paving materials.....	3	7,556	3,000	1,000	900	2,650	2	5	2,125	19	6,300
37 Photography.....	10	20,600			10,376	10,225	11	2	720	16	5,137
38 Plastering and stucco work.....	3	12,125		850	2,225	9,550	11	1	1,000	54	31,069
39 Plumbing, and gas and steam fitting.....	20	113,931	6,375	1,500	9,700	96,356	21	13	10,357	130	68,233
40 Printing and publishing, book and job.....	22	188,330	7,500	15,000	107,285	59,045	22	20	14,384	159	78,727
41 Printing and publishing, newspapers and periodicals.....	19	337,323			120,016	217,307	9	56	40,515	268	127,777
42 Saddlery and harness.....	3	15,303		1,300	2,075	12,428	10			14	7,300
43 Ship and boat building, wooden.....	6	5,275		300	975	4,000	7			14	10,016
44 Shirts.....	3	1,228			625	603	3			4	1,000
45 Tinsmithing, coppersmithing, and sheet-iron working.....	18	76,458		1,500	14,450	60,508	21	6	4,296	66	41,040
46 Tobacco, cigars and cigarettes.....	5	5,450			950	4,500	6			15	8,750
47 Watch, clock, and jewelry repairing.....	22	20,584			10,475	10,059	21	3	2,260	30	15,236
48 Wood, turned and carved.....	3	17,935	8,000	2,000	3,250	4,085	3			2	700
49 All other industries.....	69	2,379,671	188,976	289,064	406,660	1,494,971	62	112	112,301	1,283	571,736

<sup>1</sup> Embraces agricultural implements, 1; babbitt metal and solder, 1; blacking, 1; boot and shoe cut stock, 1; boot and shoe findings, 1; bottling, 2; boxes, fancy and paper, 2; boxes, wooden packing, 1; brass castings and brass finishing, 1; bridges, 2; brooms and brushes, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by street railroad companies, 1; cleansing and polishing preparations, 1; coffee and spice, roasting and grinding, 1; cooperage, 2; cutlery and edge tools, 1; electrical apparatus and supplies, 2; electroplating, 2; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; fur goods, 1; fur hats, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; hairwork, 1; hand stamps, 2; hats and caps, not including fur hats and

BY SPECIFIED INDUSTRIES: 1900—Continued.

PORTLAND.

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.										
4,288	\$2,252,430	1,880	\$854,985	81	\$5,402	\$759,854	\$158,207	\$49,095	\$411,266	\$140,386	\$5,566,225	\$5,444,790	\$121,435	\$11,410,201	1
15	5,885	3	575			807	758	10	41		15,027	14,953	74	27,227	2
8	2,900					1,057	718	29	910		4,232	4,008	224	11,800	3
55	32,138					5,982	5,248	242	342		25,770	23,972	1,798	106,719	4
17	9,758	20	5,746			6,119	660	112	947	150	22,807	22,540	267	50,900	5
17	8,429					3,711	3,332	61	318	5,000	11,910	11,551	359	40,250	6
97	60,647	83	26,313			9,082	2,400	680	6,002		192,111	190,561	1,550	321,231	7
138	80,381	74	17,001			16,063	7,808	1,654	6,601		292,778	286,705	6,073	595,801	8
36	15,630					2,601	1,110	327	1,164		10,789	10,529	260	48,050	9
464	267,567			4	1,335	192,185	5,171	2,357	50,894	73,763	483,887	480,894	2,993	1,094,788	10
55	31,725	1	850	1	200	5,205	1,038	602	3,379	186	61,201	59,776	1,515	153,205	11
158	84,028					10,355		2,265	8,090		183,420	180,235	3,185	238,925	12
37	28,705	121	85,996			16,554	8,639	877	3,038	4,000	78,848	77,482	1,366	217,751	13
39	16,990	120	27,800			33,085	1,450	1,500	11,595	18,600	256,380	255,400	980	473,000	14
8	4,520	175	27,421			14,631	14,153	229	252		74,749	74,051	698	151,290	15
7	8,800	234	56,363			4,646	1,711	155	2,780		105,168	104,308	850	211,669	16
36	16,558	96	20,410	1	188	31,972	5,500	923	25,489		135,995	135,895		269,656	17
10	4,353	1	660			1,834	1,144	100	590		2,947	2,750	197	19,078	18
2	800					1,874	194	24	55		1,407	1,338	74	4,192	19
14	6,180					906	480	153	323		27,881	26,991	890	39,975	20
6	4,260	34	15,300			19,585	818	434	12,333		76,664	76,391	273	150,059	21
6	8,280					1,980	820	330	830		109,256	107,711	1,545	126,552	22
525	256,801	8	1,000			27,481	3,840	5,711	17,930		268,219	250,919	17,300	688,528	23
28	14,944	27	5,600			6,850	2,760	2,473	1,627		72,906	72,020	976	123,213	24
85	21,956	6	1,864	2	225	4,436	2,980	193	1,263		44,744	44,107	637	93,988	25
139	47,635	5	1,664			16,547	2,752	1,213	7,582	5,000	205,312	204,570	742	332,500	26
2	1,026					653	599	19	35		959	783	176	6,800	27
36	19,645	1	272			2,800	1,767	345	688		25,580	25,357	223	63,070	28
211	117,974					23,253	6,500	794	15,959		263,019	261,164	1,855	451,100	29
57	38,092					3,618	1,900	454	259	1,000	42,461	41,765	696	113,700	30
141	94,035					5,845	1,121	431	2,213	2,030	67,902	67,896	6	272,671	31
3	1,370	70	18,913			8,840	7,482	256	1,152		161,090	160,568	522	240,166	32
128	66,322					284	124	60	100		10,365	9,775	590	14,500	33
7	3,250	8	2,300	3	516	5,368	3,510	292	1,366	200	52,914	52,633	281	158,742	34
19	6,300					6,740	1,560	50	5,130		27,392	27,103	289	59,490	35
9	3,580	7	1,657			501	280	31	190		6,413	6,376	37	17,300	36
54	31,069					3,425	2,462	121	692	150	7,216	6,903	313	25,215	37
130	68,258					1,200	979	13	208		13,600	13,528	72	54,970	38
129	63,251	29	10,320	1	156	9,894	4,940	789	4,145	20	212,645	211,259	1,386	360,026	39
190	100,983	64	24,804	14	1,930	19,711	5,825	844	6,752	6,790	79,218	75,752	3,466	244,789	40
						64,312	8,712	1,832	43,999	9,769	59,140	55,069	4,071	359,421	41
14	7,200					1,758	1,460	60	238		10,908	10,711	197	29,045	42
14	10,016					643	590	13	40		1,750	1,740	10	22,350	43
65	40,696	4	1,000			279	279				1,665	1,645	20	4,400	44
		1	950			9,713	6,404	444	2,515	350	53,474	52,544	930	172,233	45
14	8,350	1	400			2,234	674	53	1,507		9,115	8,905	120	23,450	46
27	14,200	2	900	1	136	11,470	3,337	95	824	7,164	22,371	22,494	377	73,332	47
2	700					426	110	106	210		1,403	1,341	62	4,200	48
1,089	521,077	190	49,945	4	716	208,942	22,613	20,239	159,926	6,164	1,721,197	1,670,207	50,990	3,122,928	49

wool hats, 1; iron and steel, 1; ironwork, architectural and ornamental, 1; kindling wood, 1; lasts, 1; leather, tanned, curried, and finished, 1; lumber and timber products, 2; matches, 1; mattresses and spring beds, 1; mineral and soda waters, 1; models and patterns, 2; optical goods, 1; paints, 1; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; pickles, preserves, and sauces, 1; plated and britannia ware, 2; pottery, terra cotta, and fire-clay products, 1; refrigerators, 1; roofing and roofing materials, 2; sausage, 1; show cases, 1; soap and candles, 1; stencils and brands, 1; taxidermy, 1; trunks and valises, 2; typewriter repairing, 1; umbrellas and canes, 1; window shades, 1; wirework, including wire rope and cable, 1.

TABLE 9.—MANUFACTURES IN CITIES 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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 Total for cities and towns.....	2,358	\$57,552,485	\$5,270,405	\$8,205,349	\$15,033,760	\$29,042,971	2,686	1,860	\$1,874,812	36,438	\$13,756,874
2 Auburn.....	147	8,372,694	236,872	431,398	519,802	2,185,122	159	205	173,186	2,903	1,263,010
3 Augusta.....	171	8,438,474	110,035	426,760	1,406,965	1,484,724	130	102	117,290	2,227	798,638
4 Bath.....	142	8,256,726	338,399	865,951	688,690	1,863,686	164	89	87,551	2,249	1,191,092
5 Belfast.....	79	517,055	16,850	58,367	125,724	817,014	105	24	17,721	679	251,639
6 Biddeford.....	108	6,067,194	804,586	650,800	2,232,952	2,823,856	122	44	76,545	4,527	1,554,146
7 Brewer.....	44	785,924	83,450	166,100	111,110	375,264	47	25	22,540	364	170,288
8 Bridgton.....	43	733,593	83,787	171,630	176,744	806,342	54	12	9,469	376	132,539
9 Bristol.....	37	205,425	43,925	43,000	65,870	70,700	4	4	4,650	225	65,080
10 Brunswick.....	80	1,673,359	166,450	267,428	610,551	628,930	85	33	29,754	970	850,726
11 Bucksport.....	26	84,480	8,410	16,010	29,335	35,725	31			84	31,690
12 Calais.....	73	1,715,940	463,263	103,848	184,067	959,762	82	42	41,650	855	317,575
13 Camden.....	55	1,680,251	137,732	125,971	271,714	1,144,334	69	34	29,519	841	382,191
14 Caribou.....	38	203,125	12,700	30,600	61,200	95,025	43	8	5,255	125	43,010
15 Eastport.....	62	8,037,366	76,354	255,865	621,397	2,084,190	65	69	61,838	2,213	479,805
16 Ellsworth.....	82	696,999	157,375	50,480	129,990	359,204	92	24	14,412	452	185,292
17 Fairfield.....	32	783,971	104,050	74,100	354,575	256,246	82	19	16,464	414	134,600
18 Fort Fairfield.....	37	148,225	18,800	40,800	32,620	56,005	40	7	2,290	72	23,365
19 Gardiner.....	79	1,709,577	314,950	269,200	374,132	761,245	85	66	56,696	1,063	495,139
20 Gorham.....	26	73,608	7,303	24,742	18,716	22,747	31	1	414	84	12,538
21 Hallowell.....	38	1,029,678	121,825	128,350	147,254	632,249	48	34	48,760	642	314,614
22 Kennebunk.....	45	747,024	51,850	58,660	241,149	400,365	41	33	32,970	579	229,176
23 Kittery.....	8	8,627	1,085	765	2,055	4,722	8			9	3,471
24 Lisbon.....	42	2,480,686	181,731	431,394	744,407	1,172,544	34	37	59,935	938	364,775
25 North Berwick.....	21	312,279	31,450	25,000	42,330	213,499	31	5	6,500	229	71,006
26 Norway.....	40	868,801	3,705	21,976	75,010	267,511	49	14	13,040	430	166,027
27 Old Town.....	86	1,898,161	125,814	487,694	477,301	302,352	89	50	44,570	1,182	423,018
28 Orono.....	28	1,444,080	159,200	232,630	352,698	699,562	34	21	30,023	575	230,335
29 Paris.....	35	258,153	7,316	60,250	46,180	154,412	38	12	10,222	320	104,071
30 Pittsfield.....	35	1,174,353	56,568	234,153	276,357	603,270	38	17	21,031	589	209,714
31 Presque Isle.....	38	177,595	24,250	20,360	33,625	93,770	43	8	5,310	33	30,270
32 Richmond.....	24	194,926	6,500	34,925	76,565	76,936	26	10	6,344	169	43,838
33 Rockland.....	118	1,708,433	297,263	559,090	263,331	583,839	153	45	38,473	800	358,969
34 Saco.....	71	2,151,434	118,129	256,988	400,553	1,375,704	77	12	23,397	2,025	619,462
35 Sanford.....	67	8,246,015	130,265	272,500	672,795	2,270,455	66	85	84,645	1,363	638,335
36 Skowhegan.....	69	941,681	132,400	103,500	165,172	455,609	75	29	32,019	617	245,314
37 South Berwick.....	25	637,153	28,525	112,550	118,360	377,713	22	26	23,870	508	190,047
38 Thomaston.....	35	501,265	133,150	34,625	21,480	212,010	51	10	9,100	215	108,010
39 Waldoboro.....	41	158,033	22,327	18,575	44,834	72,297	52	6	5,439	135	74,052
40 Waterville.....	89	3,972,016	131,050	326,050	1,500,377	1,458,039	99	56	54,512	2,203	779,308
41 Westbrook.....	42	3,950,221	745,421	660,430	1,264,593	1,273,777	46	32	72,358	1,405	604,973

TOWNS UNDER 20,000 IN POPULATION: 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.										
24,866	\$10,879,016	10,380	\$2,695,487	1,242	\$182,421	\$4,195,927	\$410,468	\$385,122	\$2,781,803	\$619,084	\$83,162,865	\$32,158,816	\$1,004,049	\$80,254,724	1
1,985	957,686	880	298,140	43	6,184	257,089	20,209	25,317	200,503	11,000	4,144,815	4,110,398	84,417	6,326,851	2
1,242	587,828	910	196,484	75	14,876	666,785	29,506	25,765	355,258	256,256	1,459,062	1,418,883	40,779	3,822,679	3
2,147	1,167,749	99	22,961	3	882	179,255	12,289	11,801	106,306	48,909	2,126,888	2,074,324	52,064	4,036,815	4
892	173,595	281	77,272	6	832	86,035	6,389	2,495	19,854	7,297	540,314	524,964	15,850	964,788	5
2,404	954,745	1,927	567,815	196	32,086	519,861	12,418	89,810	264,121	153,017	3,098,244	3,050,019	48,225	5,769,844	6
328	100,890	36	9,378			72,121	8,398	6,329	84,559	22,840	540,326	527,709	12,617	889,779	7
303	109,367	73	28,172			87,677	2,201	2,555	32,066	125	409,096	394,072	15,024	662,391	8
168	62,520	31	7,835	27	4,675	6,598	275	1,128	3,190	1,000	187,966	184,912	3,058	266,880	9
516	227,317	392	118,771	62	9,648	118,462	8,385	11,809	97,518	750	551,472	589,040	12,432	1,194,275	10
78	30,823	6	861			5,248	1,095	1,280	2,918		90,919	90,379	540	160,014	11
697	289,403	156	27,912	2	200	98,317	4,538	15,859	77,570	350	372,768	363,780	8,988	1,498,126	12
639	333,339	202	48,852			60,660	4,504	4,925	50,131	1,000	938,518	913,868	19,650	1,618,017	13
111	40,660	11	2,050	3	300	4,898	8,289	2,124	4,523	100	200,245	196,281	3,964	341,294	14
1,218	354,732	697	92,571	298	32,502	48,714	5,857	5,201	37,481	175	1,020,605	992,192	28,413	1,905,808	15
874	159,041	78	26,251			24,941	4,275	3,670	16,246	750	482,746	475,571	7,175	808,858	16
884	125,916	29	8,594	1	150	14,840	2,279	2,247	10,314		330,415	312,364	18,051	552,083	17
68	21,805	9	1,560			4,898	1,305	882	2,711		140,168	137,568	2,595	232,827	18
891	449,019	202	46,120			119,036	28,900	11,373	77,763	1,000	1,760,828	1,710,747	50,081	2,930,865	19
31	11,823	3	715			3,712	1,392	1,812	1,008		50,442	48,826	1,616	90,468	20
526	285,261	116	29,853			127,595	1,995	3,966	30,394	91,240	684,957	627,002	7,955	1,247,687	21
482	191,360	185	35,907	12	1,909	69,058	6,808	2,671	59,579		485,372	476,568	8,809	936,899	22
9	3,471					314	95	16	203		7,662	7,585	127	16,129	23
702	287,808	278	73,978	18	2,994	141,628	1,073	15,172	125,383		1,038,116	985,118	52,998	1,820,291	24
152	57,008	77	14,003			23,307	592	2,521	20,194		206,280	200,882	5,398	343,041	25
272	122,089	158	43,938			28,928	5,003	2,867	16,558		540,371	534,098	6,273	824,900	26
937	389,050	213	35,519	32	2,549	182,988	16,822	11,580	99,369	5,712	1,467,466	1,416,867	50,599	2,239,887	27
557	226,764	18	4,072			92,186	157	7,776	79,775	4,478	704,991	643,250	61,741	1,345,535	28
305	101,681	6	1,750	9	1,240	16,238	1,477	2,047	12,714		216,752	213,969	2,788	386,455	29
415	154,628	162	53,862	12	1,824	85,240	2,293	3,757	79,190		535,447	520,303	15,144	1,020,258	30
77	28,260	9	1,760	2	250	10,491	2,086	1,244	7,161		162,707	161,150	1,557	273,716	31
75	24,673	75	17,425	19	1,770	7,664	723	645	5,746	550	148,212	144,193	4,019	225,804	32
652	320,374	187	36,800	21	1,795	107,276	21,890	12,277	69,209	8,960	851,806	739,125	112,681	1,557,607	33
1,339	467,818	591	132,469	95	19,175	195,758	7,084	21,440	167,184	150	1,120,293	1,070,349	49,944	2,244,025	34
1,011	435,596	766	238,643	116	24,146	240,060	8,173	7,338	229,304	250	1,891,762	1,811,671	80,091	3,254,890	35
473	209,399	135	34,570	9	1,845	43,068	14,106	4,505	23,044	1,418	761,463	748,287	13,226	1,252,955	36
922	142,156	184	47,891			89,370	994	3,229	85,188	9	480,583	474,206	6,267	788,899	37
206	107,060	9	1,550			9,854	1,868	1,450	6,536		220,996	194,311	32,685	442,716	38
174	70,252	21	3,750			5,983	1,674	1,308	2,553		161,731	158,545	3,186	313,072	39
1,285	555,564	787	201,715	181	22,029	196,034	10,016	26,536	157,057	2,375	1,256,801	1,236,588	20,213	2,602,236	40
1,024	490,251	851	114,727			347,064	154,810	27,922	100,832	4,000	1,372,266	1,278,897	93,369	2,851,660	41

# MARYLAND.

Table 1 shows the manufacturing and mechanical industries of the state of Maryland 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 establish-

ments, 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	1800	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	9,879	7,485	6,787	5,812	3,083	3,725	82.0	10.3	16.8	88.5	117.2
Capital	\$163,147,260	\$119,667,316	\$58,742,384	\$36,438,729	\$23,230,608	\$14,934,460	36.3	103.7	61.2	56.9	55.6
Salaried officials, clerks, etc., number	7,583	29,246	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	118.0				
Salaries	\$7,380,263	\$7,085,418	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	4.2				
Wage-earners, average number	108,325	97,808	74,945	44,800	28,408	30,212	10.8	30.5	67.1	57.9	16.0
Total wages	\$38,748,551	\$34,441,414	\$18,904,965	\$12,682,817	\$7,190,672	\$7,403,832	12.5	82.2	49.1	76.4	12.9
Men, 16 years and over	72,324	67,261	46,698	34,061	21,630	23,729	8.3	44.0	37.1	57.5	14.8
Wages	\$31,872,361	\$29,049,820	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	9.7				
Women, 16 years and over	20,617	26,432	21,700	8,278	6,773	7,483	12.0	21.8	162.1	22.2	19.5
Wages	\$6,112,187	\$5,009,548	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	22.0				
Children, under 16 years	5,884	4,115	6,547	2,521	( <sup>3</sup> )	( <sup>3</sup> )	43.0	137.1	159.7		
Wages	\$764,003	\$332,046	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	100.0				
Miscellaneous expenses	\$17,209,623	\$10,616,347	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	62.1				
Cost of materials used	\$144,397,680	\$92,059,390	\$66,937,846	\$46,897,032	\$25,494,007	\$17,690,836	56.9	37.5	42.7	84.0	44.1
Value of products, including custom work and repairing	\$242,552,900	\$171,842,693	\$106,780,563	\$76,593,618	\$41,735,157	\$33,043,802	41.1	60.9	39.4	83.5	26.3
Total population	1,188,044	1,042,390	934,943	780,894	687,049	583,034	14.0	11.5	19.7	13.7	17.8
Wage-earners engaged in manufactures	108,325	97,808	74,945	44,800	28,408	30,212	10.8	30.5	67.1	57.9	16.0
Per cent of total population	9.1	9.4	8.0	5.7	4.1	5.2					
Assessed value of real estate	\$616,719,782	\$411,900,246	\$368,442,913	\$286,910,332	\$65,341,438	\$139,026,610	49.7	11.8	28.4	339.1	153.0
Value of land and buildings invested in manufactures <sup>5</sup>	\$45,704,854	\$31,268,516	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	46.2				
Per cent of assessed value	7.4	7.6									

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

<sup>5</sup> As given in the Maryland Manual for 1900.

<sup>6</sup> Does not include value of rented property.

Although Maryland is not preeminently a manufacturing state, Table 1 shows that there has been a steady growth in its manufacturing and mechanical industries during the half century. The population during these years increased from 583,034 to 1,188,044, or 103.8 per cent, while the average number of wage-earners employed in manufacturing establishments increased from 30,212 to 108,325, or 258.5 per cent, embracing, in 1900, 9.1 per cent of the entire population, compared with 5.2 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900

this was 149,069, or 12.5 per cent of the total population of the state. The industries of the province of Maryland were localized largely in and near the city of Baltimore, which was founded in 1729, and the same localization is shown at the present census.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for a governmental establishment, 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.

## STATISTICS OF MANUFACTURES.

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	11,528	\$164,147,926	13,033	108,851	\$33,803,476	\$17,289,196	\$144,667,911	\$36,474,217	\$103,716,326	\$4,477,368	\$243,303,056
Hand trades <sup>1</sup>	4,549	9,020,693	4,920	11,275	5,125,026	2,231,748	9,645,423	101,225	9,418,526	125,672	22,529,232
Governmental establishment	1	169,100		13	4,089		8,468		7,763	700	13,632
Eleemosynary and penal institutions	6	280,978		270	43,402	17,142	111,131	30,152	75,273	5,706	215,293
Establishments with a product of less than \$500	1,642	550,593	1,910	243	11,884	62,431	150,637	13,963	136,498	176	521,121
All other establishments	5,330	154,126,567	6,203	97,050	33,023,525	14,977,875	134,752,257	36,328,877	91,078,266	4,345,114	220,023,758

<sup>1</sup> Includes bicycle and tricycle repairing, 70; blacksmithing and wheelwrighting, 877; boots and shoes, custom work and repairing, 719; carpentering, 393; clothing, men's, custom work and repairing, 408; clothing, women's, dressmaking, 583; dyeing and cleaning, 58; furniture, cabinetmaking, repairing, and upholstering, 136; lock and gun smithing, 59; masonry, brick and stone, 106; millinery, custom work, 235; painting, house, sign, etc., 308; paper hanging, 107; plastering and stuccowork, 46; plumbing, and gas and steam fitting, 245; sewing machine repairing, 11; watch, clock, and jewelry repairing, 188.

Of the 11,528 establishments of all classes, shown in this table, 6,191, or 53.7 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$23,050,353, or only 9.5 per cent of the total products of the state.

In addition to the 11,528 active establishments in the state during the census year, with a capital of \$164,147,926, shown in Table 2, there were 37 idle establishments, with a capital of \$1,226,058, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Ammunition	1	\$142,628	Lumber and timber products	10	\$8,975
Dye stuffs and extracts	1	10,965	Paper and wood pulp	2	58,000
Flouring and grist mill products	3	12,405	Pottery, terra cotta, and fire-clay products	2	139,000
Iron and steel	3	247,931	Sugar and molasses, refining	1	75,000
Leather, tanned, curried, and finished	1	8,750	Woolen goods	1	10,000
Liquors, distilled	3	110,000	All other industries	7	16,401
Liquors, malt	2	410,000			

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	2,015	\$62,283,110	46,930	\$15,688,680	\$3,368,420	\$64,628,191	\$103,471,334
	1890	1,505	51,200,510	48,810	13,315,103	3,844,759	43,905,463	72,713,247
Increase, 1890 to 1900		420	11,082,600	<sup>1</sup> 1,880	2,373,577	4,523,661	20,622,728	30,758,087
Per cent of increase		26.3	21.6	3.9	17.8	117.7	47.0	42.3
Per cent of total of all industries in state	1900	20.4	33.2	43.3	40.5	48.6	44.7	42.7
	1890	21.3	42.3	49.9	38.7	35.2	47.7	42.3
Clothing, men's, factory product	1900	139	8,458,116	9,725	3,179,069	1,502,530	10,241,708	17,327,325
	1890	125	9,732,643	12,700	3,766,670	406,166	8,123,073	15,032,924
Fertilizers	1900	40	7,003,376	1,016	457,692	354,344	3,643,846	5,481,905
	1890	53	6,935,914	1,051	492,682	459,109	3,984,173	6,268,025
Flouring and grist mill products	1900	407	3,428,996	641	229,395	225,357	6,781,805	8,035,343
	1890	335	3,007,730	625	240,063	236,007	5,778,873	6,904,833
Foundry and machine shop products	1900	113	6,381,676	4,695	2,251,777	456,175	3,322,658	3,443,547
	1890	81	4,669,891	3,352	1,665,907	241,148	1,875,503	4,925,672
Fruits and vegetables, canning and preserving	1900	271	4,459,660	7,505	1,379,131	371,108	3,786,513	11,996,245
	1890	197	2,739,008	13,048	1,416,386	161,496	4,416,352	7,193,109
Furniture, factory product	1900	42	1,584,984	1,869	822,540	155,614	1,212,226	2,976,491
	1890	33	1,296,331	1,376	532,129	77,592	1,053,759	2,110,955
Iron and steel	1900	9	2,892,690	2,138	1,029,763	508,298	6,888,916	3,739,405
	1890	10	3,717,674	1,247	371,993	46,077	2,217,173	2,569,203
Lumber and timber products	1900	367	2,622,923	1,964	476,776	63,004	1,390,357	2,659,032
	1890	217	1,469,395	1,552	335,909	54,928	840,941	1,600,472
Lumber, planing mill products, including sash, doors, and blinds	1900	52	3,259,501	1,237	523,262	141,244	2,310,655	3,533,033
	1890	45	1,990,133	1,174	661,361	181,296	2,065,755	3,332,563
Oysters, canning and preserving	1900	16	799,005	1,444	379,591	70,100	1,771,377	2,417,331
	1890	8	953,232	2,334	559,040	43,301	1,377,353	2,334,400
Paper and wood pulp	1900	21	2,720,877	937	326,474	105,571	1,780,910	2,538,540
	1890	17	919,766	472	171,209	157,569	652,604	1,001,945

<sup>1</sup> Decrease.

TABLE 3.—COMPARATIVE SUMMARY OF FOURTEEN 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.			
<b>Shipbuilding:</b>								
Total	1900 1890	47 84	\$4,446,028 1,315,282	2,615 1,048	\$1,517,705 620,488	\$141,555 92,677	\$1,798,564 737,457	\$4,161,525 1,737,074
Ship and boat building, wooden	1900 1890	48 1	623,495	676	331,373	30,649	301,010	862,034
Shipbuilding, iron and steel	1900 1890	4	3,822,588	1,939	1,185,832	110,916	1,497,554	3,299,491
<b>Slaughtering:</b>								
Total	1900 1890	82 17	1,548,488 993,081	597 389	276,413 182,568	109,017 76,159	7,109,079 3,969,563	8,046,359 4,670,690
Slaughtering and meat packing, wholesale	1900 1890	47 14	1,318,917 958,521	514 368	242,089 171,208	99,239 75,232	5,446,717 3,688,147	6,209,857 4,311,412
Slaughtering, wholesale, not including meat packing	1900 1890	35 3	229,571 34,560	83 21	84,324 11,360	9,778 927	1,662,362 301,416	1,836,502 859,278
<b>Textiles:</b>								
Total	1900 1890	22 32	9,351,313 7,819,324	6,286 4,921	1,526,685 1,219,583	473,178 378,667	4,053,682 3,890,186	7,155,722 6,218,181
Cotton goods	1900 1890	14 15	7,709,256 7,296,793	4,727 4,256	1,186,014 1,055,536	397,016 354,478	3,039,396 3,378,016	5,428,251 5,457,792
Hosiery and knit goods	1900 1890	4 8	311,503 149,656	682 289	110,456 44,566	21,981 9,747	347,250 87,315	514,093 180,823
Woolen goods	1900 1890	4 9	1,330,549 872,875	877 376	221,215 119,481	54,181 14,442	667,036 424,855	1,218,378 579,516
<b>Tobacco:</b>								
Total	1900 1890	387 391	3,325,477 3,600,221	4,311 3,026	1,306,427 1,029,120	3,691,315 1,291,967	3,535,800 2,532,688	9,890,928 6,074,591
Chewing, smoking, and snuff	1900 1890	5 6	1,805,611 2,203,619	2,002 1,173	564,272 335,135	3,233,312 928,023	2,496,107 1,534,205	7,054,159 3,216,247
Cigars and cigarettes	1900 1890	382 385	1,519,866 1,396,602	2,309 1,843	742,155 693,985	458,003 803,944	1,039,733 1,048,483	2,842,769 2,853,344

<sup>1</sup> Not separately reported in 1890.

The 15 leading industries of the state in 1900, as shown in Table 3, embraced 2,015 establishments, or 20.4 per cent of the total number in the state; used a capital of \$62,283,110, or 38.2 per cent of the total; gave employment to 46,930 wage-earners, or 43.3 per cent of the total number; and paid \$15,688,630, or 40.5 per cent of the total wages. The value of their products was \$103,471,334, or 42.7 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 factory manufacture of men's clothing is the most important industry in the state. The 139 establishments reported in 1900 gave employment to 9,725 wage-earners, or 9 per cent of the wage-earners employed in the state, and their products were valued at \$17,327,825, or 7.1 per cent of the total value of the products of the state. In 1890 there were 125 establishments, 12,700 wage-earners, and products valued at \$15,032,924. The increase in the value of products during the decade was \$2,294,901, or 15.3 per cent.

There were 271 establishments engaged in 1900 in the canning and preserving of fruits and vegetables, the industry second in rank, with 7,505 wage-earners, and products valued at \$11,996,245. In 1890 there were 197 establishments, with 13,048 wage-earners, and products valued at \$7,196,109. The increase in the value of products during the decade was \$4,800,136, or 66.7 per cent. The reduced number of employees is only apparent, the method of computation adopted at this census giving the average number for the entire year. The canning of fruits and vegetables is an

industry restricted to a few months in the year; and during this period the highest number of employees in the industry in Maryland reached 22,907.

There were 9 establishments engaged in 1900 in the manufacture of iron and steel, the industry third in rank, with 2,138 wage-earners, and products valued at \$8,739,405. In 1890 there were 10 establishments, with 1,247 wage-earners, and products valued at \$2,869,208. The increase in the value of products during the decade was \$5,870,197, or 204.6 per cent. Iron ore was smelted in Maryland on the lower Patuxent as early as 1649, and the industry was thoroughly established by 1717, small quantities of wrought iron being exported from the colony.<sup>1</sup> Small furnaces were built along a belt of ores in Prince George, Howard, Baltimore, Harford, and Cecil counties, and produced charcoal pig iron of a high grade. One of these plants, the Principio Furnaces, manufactured cannon, cannon balls, and hardware for the United States Government during the War of 1812.<sup>2</sup> From these older works developed rolling mills, such as the one at Mt. Savage, where were rolled the first heavy rails made in the United States, and establishments for making boiler and plate iron. One of these plants, located at Canton, devoted itself almost exclusively in 1861 to the manufacture of armor plates for the Government vessels, and made the armor for Ericsson's Monitor,<sup>3</sup> while other plants, such as the one built in 1870 at Cumberland to make iron rails,

<sup>1</sup> Manufactures of Maryland, Spencer, page 14.

<sup>2</sup> Maryland, Its Resources, Industries, and Institutions, by members of Johns Hopkins University and others, page 103.

<sup>3</sup> Ibid., page 107.

bolts, rivets, and fish plates, became manufacturers of steel. With the development of the Lake Superior ore district, the iron and steel interests moved westward, and many of these plants were closed. The revival of the industry in Maryland began in 1887 with the construction of a large iron and steel plant at Sparrow Point, a short distance southeast of the city of Baltimore. Its construction marked an epoch in the manufacture of iron and steel in the United States. The ores are imported largely from Cuba, though some from Mediterranean ports are used, while the coal and coke are brought chiefly from Pennsylvania and West Virginia. An extensive plant is being built, however, to produce the coke needed, the gas by-product of which will be used as an illuminant and for fuel. A large proportion of the steel rail production finds a market abroad, shipments being made to Asia, Africa, Australia, and even to London.

There were 113 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 4,695 wage-earners, and products valued at \$8,443,547. In 1890 there were 81 establishments, with 3,352 wage-earners, and products valued at \$4,925,672. The increase in the value of products during the decade was \$3,517,875, or 71.4 per cent.

There were 407 establishments engaged in the manufacture of flouring and grist mill products in 1900, with 541 wage-earners, and products valued at \$3,035,343. In 1890 there were 335 establishments, with 625 wage-earners, and products valued at \$6,904,888. The increase in the value of products during the decade was \$1,130,455, or 16.4 per cent. This industry is one of the oldest in the state, the mills in the early years of its history turning out more flour than the inhabitants required.

There were 5 establishments engaged in the manufacture of chewing and smoking tobacco and snuff in 1900, with 2,002 wage-earners, and products valued at \$7,054,159. In 1890 there were 6 establishments, with 1,178 wage-earners, and products valued at \$3,216,247. The increase in the value of products during the decade was \$3,837,912, or 119.3 per cent. There were 382 establishments engaged in the manufacture of cigars and cigarettes in 1900, with 2,309 wage-earners, and products valued at \$2,842,769. In 1890 there were 385 establishments, with 1,848 wage-earners, and products valued at \$2,858,344. The decrease in the value of products during the decade was \$15,575, or one-half of 1 per cent.

There were 47 establishments engaged in slaughtering and meat packing in 1900, with 514 wage-earners, and products valued at \$6,209,857. In 1890 there were 14 establishments, with 368 wage-earners, and products valued at \$4,311,412. The increase in the value of products during the decade was \$1,898,445, or 44 per cent. There were 35 establishments engaged in slaughtering, not including meat packing, in 1900, with 83 wage-earners, and products valued at \$1,836,502. In 1890 there were 3 establishments, with 21 wage-earners, and products valued at \$359,278. The increase in the value of products during the decade was \$1,477,224, or 411.2 per cent.

There were 40 establishments engaged in the manufacture of fertilizers in 1900, with 1,016 wage-earners, and products valued at \$5,481,905. In 1890 there were 53 establishments, with 1,051 wage-earners, and products valued at \$6,208,025. The decrease in the value of products during the decade was \$726,120, or 11.7 per cent. The increase of tobacco culture and other forms of agriculture made the importation of fertilizers a necessity, and in 1832 the first guano from Peru arrived at Baltimore.<sup>1</sup> Not long afterwards the manufacture of crushed bone was begun; this material was subsequently combined with phosphate rock from South Carolina, guano from the island of Navassa, in the West Indies, and kainit from Germany.<sup>2</sup>

There were 14 establishments engaged in the manufacture of cotton goods in 1900, with 4,727 wage-earners, and products valued at \$5,423,251. In 1890 there were 15 establishments, with 4,256 wage-earners, and products valued at \$5,457,792. The decrease in the value of products during the decade was \$34,541, or six-tenths of 1 per cent. Linsey-woolsey and osnaburgs were made in Maryland by household servants as early as 1649.<sup>3</sup> Cotton from the Southern states has been used for nearly eighty years in the factories of the state, and Baltimore cotton duck has become world-famous. This product was, to a certain extent, an outgrowth of Baltimore's importance as a shipbuilding center, and since 1822 it has not only overshadowed the other textile products of Maryland, but has made Baltimore the largest cotton duck manufacturing city in the United States. Woodberry is a flourishing community built up almost entirely by the cotton industry.

There were 4 establishments engaged in the manufacture of woolen goods in 1900, with 877 wage-earners, and products valued at \$1,218,378. In 1890 there were 9 establishments, with 376 wage-earners, and products valued at \$579,516. The increase in the value of products during the decade was \$638,862, or 110.2 per cent. There were 4 establishments engaged in the manufacture of hosiery and knit goods in 1900, with 632 wage-earners, and products valued at \$514,093. In 1890 there were 8 establishments, with 289 wage-earners, and products valued at \$180,823. The increase in the value of products during the decade was \$333,270, or 184.3 per cent.

There were 52 establishments engaged in the manufacture of planing mill products in 1900, with 1,287 wage-earners, and products valued at \$3,553,083. In 1890 there were 45 establishments, with 1,174 wage-earners, and products valued at \$3,332,563. The increase in the value of products during the decade was \$220,520, or 6.6 per cent.

There were 4 establishments engaged in iron and steel shipbuilding in 1900, with 1,939 wage-earners, and products valued at \$3,299,491. There were 43 establishments engaged in wooden ship and boat building in 1900, with 676 wage-earners, and products valued at \$862,034. The two branches of the shipbuilding industry were not shown

<sup>1</sup> Maryland, Its Resources, Industries, and Institutions, page 345.

<sup>2</sup> Manufactures of Maryland, page 11.

separately in 1890. In that year 34 establishments were reported for the entire industry, with 1,043 wage-earners, and products valued at \$1,737,674. The increase in the value of products during the decade was \$2,423,851, or 139.5 per cent. As early as 1675, boats and small sailing vessels were built in Miles River, on the eastern shore of Chesapeake Bay,<sup>1</sup> and in 1790, according to one authority, Maryland built as many vessels as any two of the states of New York, Connecticut, and Rhode Island, and more than the state of New Hampshire.<sup>2</sup> Many of these earlier vessels, known as "Baltimore clippers," attained importance during the second war with Great Britain, and became potent in widening the markets for Maryland flour in the West Indies and Brazil, and in directing the return coffee trade of Brazil. Small boat building was carried on in Allegany and Talbot counties, while large vessels were constructed at Baltimore.<sup>3</sup> In 1860, 23 establishments were reported, with a capital of \$348,600, and products valued at \$711,372. With the substitution of steam for sailing vessels, and the use of iron or steel instead of wood in their construction, the industry declined, particularly at Baltimore. Between 1885 and 1890 there was a decided revival, and the increase continued through the decade ending in 1900. The largest establishment in Baltimore city proper has built vessels for the United States Navy, and in 1890 it completed an oil-tank steamer, said to be the first of its kind constructed on this side of the Atlantic. At the Sparrow Point works, near the city, was built, as it is claimed, the first "tramp" steamer made entirely in the United States, while the floating steel dry dock constructed there for the Algiers naval station at New Orleans is one of the largest steel dry docks in the world. The same establishment is building two 10,000-ton steamers for the trans-Atlantic trade.

There were 42 establishments engaged in the manufacture of furniture in 1900, with 1,869 wage-earners, and products valued at \$2,976,494. In 1890 there were 33 establishments, with 1,376 wage-earners, and products

valued at \$2,110,955. The increase in the value of products during the decade was \$865,539, or 41 per cent.

There were 367 establishments engaged in the manufacture of lumber and timber products in 1900, with 1,964 wage-earners, and products valued at \$2,650,082. In 1890 there were 217 establishments, with 1,552 wage-earners, and products valued at \$1,600,472. The increase in the value of products during the decade was \$1,049,610, or 65.6 per cent.

There were 21 establishments engaged in the manufacture of paper and wood pulp in 1900, with 937 wage-earners, and products valued at \$2,589,540. In 1890 there were 17 establishments, 472 wage-earners, and products valued at \$1,001,945. The increase in the value of products during the decade was \$1,587,595, or 158.5 per cent.

There were 16 establishments engaged in the canning and preserving of oysters in 1900, with 1,444 wage-earners, and products valued at \$2,417,331. In 1890 there were 8 establishments, 2,834 wage-earners, and products valued at \$2,834,400. The decrease in the value of products during the decade was \$417,069, or 14.7 per cent. The first oyster-packing house was established in Baltimore early in the last century,<sup>4</sup> and the industry is now also carried on at Annapolis, Cambridge, Oxford, St. Michaels, and Crisfield, the last-named city being built literally upon oyster shells.

In addition to the 15 leading industries, shown in Table 3, attention may be called to the somewhat varied history of sugar refining in the state. Beginning at Baltimore, in 1784,<sup>5</sup> it advanced so steadily that in 1870 there were 4 refineries in the state, with products valued at \$7,007,857. Before 1890, however, the industry had disappeared, and in 1900 there was but 1 establishment in the state, and this was idle during the census year.

#### URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the city of Baltimore as returned at the censuses of 1880, 1890, and 1900, with the percentages of increase.

<sup>1</sup> Manufactures of Maryland, page 12.

<sup>2</sup> Ibid., page 29.

<sup>3</sup> Eighth Census of the United States, Manufactures, pages 220, 222, and 227.

<sup>4</sup> Maryland, Its Resources, Industries, and Institutions, page 303.

<sup>5</sup> Manufactures of Maryland, page 25.

## STATISTICS OF MANUFACTURES.

TABLE 4.—COMPARATIVE SUMMARY, BALTIMORE, 1880, 1890, AND 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.			PER CENT OF INCREASE.	
	1900	1890	1880	1890 to 1900	1880 to 1890
Number of establishments .....	6,359	5,265	3,683	20.8	43.0
Capital .....	\$117,062,459	\$92,723,677	\$38,586,773	26.2	140.3
Wage-earners, average number .....	78,738	76,489	66,338	2.9	35.8
Total wages .....	\$29,220,460	\$29,895,500	\$15,117,489	12.3	97.8
Miscellaneous expenses .....	\$14,512,809	\$3,771,869	( <sup>2</sup> )	65.4	-----
Cost of materials used .....	\$87,175,134	\$73,770,001	\$47,974,297	18.2	53.8
Value of products, including custom work and repairing .....	\$161,249,240	\$141,723,599	\$78,417,304	13.8	80.7

<sup>1</sup>Decrease.<sup>2</sup>Not given.

It appears from Table 4 that there has been an increase during the past decade in the manufactures of the city of Baltimore. The number of establishments increased from 5,265 to 6,359, or 20.8 per cent; the average number of wage-earners from 76,489 to 78,738, or 2.9 per cent; and the value of products from \$141,723,599 to \$161,249,240, or 13.8 per cent. The increase in each of these particulars was smaller in Baltimore than in the state as a whole.

The number of establishments, number of wage-earners, and value of products for this city constituted 64.4, 72.7, and 66.5 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 7 cities and towns withdrawn from the enumerators, and places them in comparison with the totals for the entire state and the state exclusive of these cities and towns.

TABLE 5.—URBAN MANUFACTURES.

	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 for state.....	9,879	\$163,147,260	11,123	108,825	\$38,748,551	\$17,209,623	\$144,997,680	\$242,552,990
Total for urban manufactures.....	7,032	124,050,416	7,897	84,886	31,234,344	14,936,893	93,119,041	171,243,012
Annapolis.....	91	188,195	94	244	101,608	9,797	170,043	303,086
Baltimore.....	6,359	117,002,459	7,163	78,733	29,220,460	14,512,809	87,175,134	161,249,210
Cumberland.....	142	2,946,748	151	1,992	815,503	218,955	2,006,710	3,520,422
Frederick.....	133	1,217,702	149	1,131	252,833	69,893	1,054,449	1,727,004
Hagerstown.....	203	1,375,281	223	1,373	502,807	92,302	1,454,929	2,405,507
Havre de Grace.....	38	831,464	43	674	332,348	16,491	913,676	1,372,420
Westminster.....	66	428,567	74	234	59,735	16,146	344,100	509,213
Total for state exclusive of urban manufactures.....	2,847	39,096,844	3,226	23,939	7,464,207	2,272,730	51,278,639	71,309,978
Per cent of urban manufactures to total for state.....	71.2	76.0	71.0	78.4	80.7	86.8	64.5	70.6

Of the 9,879 establishments in the state, 7,032, or 71.2 per cent, were located in these 7 cities and towns. They furnished employment to 84,886 wage-earners, or 78.4 per cent of the total number, and the value of their products, \$171,243,012, formed 70.6 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 city of Baltimore by specified industries.

Table 9 shows the totals for the cities and towns withdrawn from the enumerators, exclusive of the city of Baltimore.

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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
<b>The State</b> .....	9,879	\$163,147,260	\$14,069,288	\$31,635,566	\$29,203,714	\$38,238,692	11,123	7,585	\$7,380,263	103,325	\$38,748,551
Allegany.....	250	6,375,175	400,701	1,410,740	1,983,479	2,580,255	257	244	230,745	4,035	1,526,949
Anne Arundel.....	124	3,012,756	475,160	438,058	722,311	1,377,232	120	75	79,714	1,711	696,917
Baltimore.....	434	17,344,134	712,071	5,329,513	3,845,938	7,420,062	334	288	888,232	5,714	3,073,951
Baltimore city.....	6,359	117,092,459	10,235,463	21,231,486	17,883,603	67,700,902	7,163	6,267	6,190,269	73,738	29,220,460
Calvert.....	35	77,721	12,415	14,975	32,775	17,526	38	2	1,100	104	28,309
Caroline.....	118	395,577	49,958	54,210	132,578	158,851	132	23	9,714	688	129,666
Carroll.....	300	1,672,197	92,866	264,840	373,914	941,077	332	54	27,251	1,113	804,173
Cecil.....	150	1,631,081	117,549	298,297	442,587	822,048	169	75	74,755	1,160	411,014
Charles.....	40	103,730	45,410	13,005	36,220	9,095	42	1	320	50	14,235
Dorchester.....	182	807,345	92,931	90,313	232,030	392,008	155	48	16,391	913	146,977
Frederick.....	353	2,366,538	276,767	664,647	511,727	938,897	386	116	67,353	1,333	473,122
Garrett.....	110	1,216,655	456,503	79,330	336,753	344,010	148	26	16,228	443	153,616
Harford.....	295	2,001,749	335,801	245,423	486,271	933,249	330	43	31,478	1,937	695,072
Howard.....	82	1,196,441	107,527	249,669	312,757	620,473	91	27	34,557	967	211,425
Kent.....	77	505,151	50,235	36,050	138,752	230,064	36	10	5,500	387	92,796
Montgomery.....	181	273,805	28,550	72,085	72,510	100,660	144	4	1,950	199	33,261
Prince George.....	57	467,471	54,705	153,324	91,325	167,617	67	12	13,180	423	94,849
Queen Anne.....	75	227,692	20,652	48,600	69,260	89,090	37	2	2,400	136	49,209
St. Mary.....	3	80,162	10,222	4,950	13,400	61,590	9	6	2,000	33	10,486
Somerset.....	93	475,641	67,712	60,400	129,573	217,956	125	15	7,821	319	154,161
Talbot.....	114	604,621	44,447	91,934	179,118	289,372	127	33	29,511	611	158,612
Washington.....	376	3,107,123	191,249	431,648	704,538	1,729,693	420	133	105,591	2,592	766,318
Wicomico.....	165	1,503,231	192,170	190,750	341,168	559,143	213	61	32,200	1,363	341,369
Worcester.....	101	568,255	58,056	59,934	123,557	324,708	143	23	11,943	778	101,543

TABLE 7.—MANUFACTURES BY

1	All industries.....	9,879	\$163,147,260	\$14,069,288	\$31,635,566	\$29,203,714	\$38,238,692	11,123	7,585	\$7,380,263	103,325	\$38,748,551
2	Artificial feathers and flowers.....	6	33,065			3,045	30,020	10	5	6,520	237	36,190
3	Awnings, tents, and sails.....	32	78,690	400	1,400	8,890	68,000	41	8	2,860	114	53,000
4	Bags, other than paper.....	7	218,538	3,150	2,300	30,510	182,493	9	8	10,320	121	31,532
5	Baking and yeast powders.....	7	97,698			9,725	87,943	7	43	41,934	106	33,351
6	Baskets, and rattan and willow ware.....	30	31,729	10,300	16,400	12,034	42,995	31	7	4,400	134	31,396
7	Bicycle and tricycle repairing.....	70	64,665	4,550	2,930	18,725	38,460	77	4	2,700	73	23,954
8	Blacking.....	3	12,501			1,417	11,084	3	6	9,794	12	2,382
9	Blacksmithing and wheelwrighting.....	377	919,520	171,937	268,700	139,414	344,469	949	4	3,134	711	295,621
10	Bluing.....	3	390			255	635	3			5	1,000
11	Bookbinding and blank book making.....	22	112,395	7,925	20,800	48,370	35,300	25	15	10,039	190	70,977
12	Boot and shoe cut stock.....	3	31,875	400	3,000	2,475	26,000	3	7	3,800	11	4,720
13	Boot and shoe uppers.....	12	23,300	3,700	4,700	2,865	12,125	12			15	5,295
14	Boots and shoes, custom work and repairing.....	719	522,367	127,631	205,345	61,620	127,721	730	7	2,900	341	126,035
15	Boots and shoes, factory product.....	19	499,609	12,500	26,800	167,323	292,933	26	44	50,236	396	289,191
16	Bottling.....	29	370,393	71,900	125,700	35,733	137,470	30	33	30,330	160	71,768
17	Boxes, cigar.....	10	62,352	3,200	10,040	9,265	34,347	10	3	2,232	96	30,362
18	Boxes, fancy and paper.....	11	135,798	3,200	10,200	46,060	71,336	13	32	16,268	356	77,699
19	Boxes, wooden packing.....	26	668,018	62,350	39,541	110,414	405,213	36	30	25,922	1,211	363,001
20	Brass castings and brass finishing.....	7	95,038	10,950		29,079	44,619	6	11	9,332	96	36,534
21	Brassware.....	3	60,465		475	35,213	24,777	3	11	14,066	39	10,702
22	Bread and other bakery products.....	468	1,944,602	277,436	645,485	655,640	366,041	479	181	118,146	1,024	604,773
23	Brick and tile.....	45	3,932,300	1,536,110	1,002,355	1,001,091	403,244	50	57	52,399	1,601	453,143
24	Brooms and brushes.....	42	338,421	14,775	48,100	58,423	217,123	53	21	18,570	435	135,399
25	Carpentering.....	393	1,308,663	180,651	252,723	221,630	1,153,609	425	49	45,566	2,516	1,265,961
26	Carpets, rug.....	21	45,460	2,033	3,600	13,726	26,066	23	4	3,000	119	30,966
27	Carriage and wagon materials.....	6	188,254	21,400	32,324	32,924	101,606	7	16	18,320	145	44,448
28	Carriages and wagons.....	173	335,342	97,339	173,255	97,465	467,222	223	27	20,356	822	339,949
29	Cars and general shop construction and repairs by steam railroad companies.....	19	2,377,954	293,490	1,547,939	550,609	430,916		134	100,343	3,320	1,349,737
30	Cheese and butter, urban dairy products.....	4	1,300	430	1,070	195	55	4				
31	Cheese, butter, and condensed milk, factory product.....	84	234,058	12,541	47,770	113,440	55,307	91	18	7,312	113	33,998
32	Chemicals.....	7	1,306,272	551,000	239,132	505,465	510,625	3	33	51,424	475	246,451
33	China decorating.....	5	14,715	1,000	1,500	1,195	11,020	5	5	3,301	13	5,213
34	Clothing, men's, custom work and repairing.....	408	1,631,280	37,403	162,228	51,297	1,390,347	474	137	112,205	1,534	742,539
35	Clothing, men's, factory product.....	139	3,453,116	135,700	356,200	419,434	7,546,732	253	766	719,535	9,725	3,179,969
36	Clothing, men's, factory product, buttonholes.....	8	7,295	400	1,300	4,910	680	9			39	11,334
37	Clothing, women's, dressmaking.....	538	327,052	51,300	97,925	47,635	130,197	615	17	11,022	1,263	303,394
38	Clothing, women's, factory product.....	61	341,345	3,000	12,500	91,052	734,793	100	151	127,941	2,175	562,710
39	Coffee and spice, roasting and grinding.....	11	227,409	3,200	10,300	40,300	173,600	15	63	107,602	97	35,337
40	Confectionery.....	133	1,033,243	35,394	262,675	219,505	435,672	154	147	121,364	1,030	307,510
41	Cooperage.....	46	414,727	75,653	92,420	41,995	204,659	54	13	11,730	415	174,337
42	Corsets.....	4	50,630	10,000	20,000	4,620	16,010	4	14	3,328	37	3,370

MARYLAND.

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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.										
72,824	\$31,872,861	29,617	\$6,112,187	5,884	\$764,003	\$17,209,623	\$1,857,642	\$890,085	\$11,872,141	\$2,589,755	\$144,397,680	\$141,169,724	\$3,227,956	\$242,552,900	1
3,529	1,441,538	261	57,128	145	28,283	328,587	35,000	33,229	255,053	5,305	3,964,683	3,801,720	162,968	6,909,842	2
1,520	581,120	52	9,645	39	6,152	113,389	6,607	15,060	91,542	180	2,506,838	2,437,708	69,130	3,774,649	3
5,856	2,927,753	581	105,766	317	40,432	1,370,875	29,818	71,849	1,232,628	36,680	84,854,252	83,448,961	1,405,291	44,899,936	4
50,954	23,494,225	28,710	5,140,416	4,074	576,819	14,512,809	1,654,441	677,341	9,660,685	2,520,342	87,175,134	85,947,690	1,227,444	161,249,210	5
104	28,809					1,666	196	467	633	500	61,856	50,819	1,037	104,124	6
840	91,509	295	83,859	58	4,298	15,931	2,076	2,185	11,670		511,191	503,523	7,668	822,160	7
842	267,704	206	31,206	70	5,268	80,770	11,254	0,181	62,337	398	1,406,237	1,378,765	27,472	2,194,673	8
1,072	397,428	64	10,524	24	8,062	89,747	18,613	10,818	60,316		1,240,175	1,172,826	67,349	2,156,928	9
49	14,156			1	79	1,517	467	374	676		121,977	120,283	1,694	182,378	10
405	94,902	487	47,689	71	4,886	25,931	4,418	3,571	17,012	30	548,543	539,251	9,292	956,381	11
1,294	417,400	342	39,572	197	16,160	102,286	20,384	11,796	70,006	100	1,920,724	1,836,511	84,213	3,108,929	12
486	152,454	4	605	8	497	40,896	2,138	6,415	32,273	70	564,568	562,593	1,975	974,818	13
1,188	471,267	561	107,949	193	15,856	50,594	16,716	5,859	27,719	800	2,218,545	2,192,104	26,441	3,869,295	14
404	115,850	485	85,815	78	10,261	57,312	4,757	4,881	47,674		614,207	607,975	6,232	1,164,211	15
257	79,918	81	9,580	40	8,300	16,491	2,559	1,847	11,635	850	388,144	313,981	19,213	560,160	16
102	92,922	4	524	3	415	13,268	4,532	1,566	7,123	47	362,314	356,007	6,307	539,502	17
178	47,240	166	86,000	82	11,600	24,729	486	4,719	19,234		311,978	296,170	15,803	573,289	18
86	23,755	86	24,142	14	1,872	7,790	3,664	1,130	2,846	150	134,970	132,040	2,930	284,391	19
38	10,486					5,366	135	256	4,965	10	36,984	35,069	1,915	78,848	20
432	104,198	283	41,725	104	8,238	29,992	1,785	3,623	24,319	265	466,561	446,381	10,180	789,194	21
868	117,517	203	37,869	45	3,196	42,975	4,333	2,292	33,992	2,358	500,333	484,402	15,931	910,204	22
1,721	595,072	873	161,892	98	8,754	190,857	24,864	12,089	131,950	21,184	2,892,230	2,788,815	43,415	4,548,980	23
914	231,325	808	93,294	146	10,750	66,380	2,439	9,231	54,310	400	1,077,996	1,067,735	10,261	1,894,600	24
535	134,306	165	23,397	78	4,840	20,235	5,860	3,906	9,983	1,086	652,245	643,440	8,805	1,037,417	25

SPECIFIED INDUSTRIES: 1900.

72,824	\$31,872,861	29,617	\$6,112,187	5,884	\$764,003	\$17,209,623	\$1,857,642	\$890,085	\$11,872,141	\$2,589,755	\$144,397,680	\$141,169,724	\$3,227,956	\$242,552,900	1
12	3,800	158	24,740	67	7,650	6,063	2,490	13	3,560		26,890	26,808	24	114,520	2
88	45,576	29	7,262	2	168	7,863	6,327	222	1,904		112,471	111,838	633	227,033	3
30	11,750	90	19,712	1	120	14,216	3,286	2,379	3,551		864,381	869,334	547	454,095	4
58	25,567	53	8,287			25,772	7,102	878	17,792		219,409	215,095	4,314	845,278	5
110	28,996	22	2,000	2	400	12,249	3,131	323	1,295	7,500	76,166	75,555	611	154,719	6
65	22,848			8	1,106	12,114	9,236	338	2,229	311	46,572	45,606	876	135,778	7
3	1,270	3	750	0	962	1,087	840	58	189		15,084	14,841	243	30,682	8
693	293,680	18	1,941	18	1,941	54,656	35,244	6,501	11,813	1,098	372,163	350,755	21,398	1,321,263	9
4	850	1	150			406	329		77		3,227	3,219	8	7,320	10
88	48,994	94	20,233	14	1,750	12,656	6,233	829	3,394	2,200	36,282	35,218	1,066	178,376	11
10	4,600			1	120	1,370	650	320	400		71,660	71,410	250	99,506	12
15	5,295					1,508	1,295	56	193		25,247	25,117	130	40,080	13
925	123,174	8	2,380	8	481	81,062	57,008	6,055	8,211	9,788	253,076	248,436	4,640	884,112	14
597	220,030	285	67,264	14	1,000	38,480	3,168	1,351	28,961		676,359	671,035	5,321	1,129,158	15
159	71,593	1		1	175	52,302	3,196	2,810	45,672	624	508,306	504,784	3,522	774,747	16
38	17,149	50	12,623	8	588	1,910	290	301	1,819		57,329	56,594	735	107,864	17
79	25,431	220	43,792	67	7,476	24,975	9,155	909	13,853	1,058	126,473	124,170	2,303	296,018	18
962	827,093	33	3,405	216	32,603	64,493	11,385	4,709	48,449		1,104,752	1,102,659	2,093	1,847,528	19
95	36,344			1	240	10,042	2,630	823	6,589		140,582	135,391	4,691	243,333	20
80	9,552	2	488	7	662	4,109	1,059	70	2,980		51,321	49,861	1,460	116,547	21
1,341	557,099	220	37,684	63	9,990	152,708	49,303	18,195	85,270		2,969,846	2,288,055	81,791	4,140,692	22
1,484	450,918			17	2,225	51,366	2,763	10,692	37,911		155,934	152,051	113,883	844,335	23
362	119,345	55	13,965	18	2,589	17,762	7,009	1,489	8,714		329,976	328,168	1,808	613,973	24
2,810	1,264,906	6	1,055	6	1,055	668,406	23,926	12,182	61,282	556,014	2,687,834	2,675,579	12,255	5,527,710	25
100	27,824	18	2,986	1	156	7,424	3,889	270	3,465		81,989	80,498	1,496	104,934	26
187	41,843	5	2,000	3	600	12,545	565	1,790	10,190		103,469	101,820	1,640	199,821	27
805	337,765			17	2,184	44,896	24,296	5,627	13,301	1,672	377,296	368,598	8,698	1,086,473	28
3,616	1,343,957	4	780			55,163		8,252	46,911		2,567,486	2,539,017	28,469	4,573,229	29
						91	60	25	6		1,371	1,355	16	2,120	30
109	33,205	2	602	2	191	11,151	4,158	1,072	5,891	30	557,647	548,093	9,549	693,795	31
472	245,648	3	809			103,388	4,037	8,284	91,067		781,909	691,846	90,063	1,271,410	32
6	2,690	11	2,424	1	104	1,196	828	141	227		18,251	12,809	442	35,556	33
1,176	650,757	324	87,815	34	3,954	458,526	110,410	10,881	67,302	209,933	1,330,764	1,323,642	11,122	3,364,634	34
3,929	1,921,588	5,202	1,191,837	594	65,644	1,502,580	106,588	32,405	511,617	791,860	10,241,708	10,215,252	26,456	17,327,325	35
16	6,406	21	4,732	2	196	1,637	1,184	33	620		4,874	4,896	396	26,882	36
76	43,654	1,174	258,692	13	1,648	65,923	52,846	2,766	9,999	812	306,715	299,427	7,288	1,107,219	37
392	214,974	1,742	342,937	41	4,799	162,851	46,082	2,340	78,829	35,050	1,373,980	1,366,451	7,529	2,685,576	38
59	29,082	38	6,003			22,774	7,119	600	15,055		1,000,153	993,024	7,129	1,271,767	39
637	235,900	351	66,716	42	4,894	119,145	36,249	8,586	74,310		1,330,552	1,313,777	16,775	2,323,204	40
413	174,300			2	287	29,292	9,324	3,057	18,411	1,500	879,999	873,697	1,392	694,512	41
3	1,370	34	7,500			2,936	1,940	256	740		5,217	4,300	417	28,934	4

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.
43 Cotton goods	14	\$7,709,256	\$515,513	\$1,355,008	\$1,951,133	\$3,887,007	7	84	\$133,338	4,727	\$1,180,014
44 Cutlery and edge tools	3	16,200	2,200	4,100	2,700	7,200	3			15	7,164
45 Druggists' preparations, not including prescriptions.	11	401,776	13,000	45,000	174,775	169,000	15	220	256,044	441	123,574
46 Dyeing and cleaning	58	162,315	32,650	63,038	35,332	26,295	61	22	8,200	146	56,406
47 Electrical apparatus and supplies	6	236,710	3,000	51,125	54,717	122,808	1	25	26,925	155	54,303
48 Electrical construction and repairs	25	112,891	5,500		18,166	94,225	30	13	7,154	134	63,623
49 Electroplating	6	12,825			5,700	7,125	10	1	900	27	9,857
50 Enameling and enameled goods	4	1,497,214	148,192	191,394	334,779	762,849	2	74	60,547	1,136	316,417
51 Engraving and diesinking	8	9,668			5,513	4,150	9	3	1,200	14	6,900
52 Engraving, steel, including plate printing.	8	14,325			4,075	10,250	7	6	3,500	38	15,576
53 Fancy articles, not elsewhere specified	5	238,072	25,000	55,000	33,045	125,027	6	16	15,000	324	69,334
54 Fertilizers	40	7,003,376	713,011	965,287	1,108,917	4,216,131	37	212	245,528	1,016	457,632
55 Fish, canning and preserving	3	65,600	7,500	8,900	7,400	41,800	8	6	2,880	442	63,500
56 Flavoring extracts	12	33,544	1,650	4,000	3,007	29,887	15	10	2,900	25	6,803
57 Flouring and grist mill products	407	3,428,996	296,633	775,281	918,016	1,439,066	461	85	30,275	541	229,335
58 Food preparations	17	154,610	23,450	37,350	27,950	65,860	16	11	11,260	104	33,148
59 Foundry and machine shop products	113	6,331,676	618,701	857,454	1,138,832	3,616,689	124	317	349,283	4,695	2,251,777
60 Fruits and vegetables, canning and preserving.	271	4,459,660	378,143	480,566	633,234	3,017,697	344	281	213,080	7,505	1,379,181
61 Fur goods	11	67,677	3,333	6,500	1,594	56,250	14	6	3,700	48	23,500
62 Furnishing goods, men's	18	625,702	2,000	5,200	63,452	555,050	26	105	90,925	2,033	492,280
63 Furniture, cabinetmaking, repairing, and upholstering.	136	241,099	22,193	39,417	16,398	162,591	167	19	9,105	213	102,356
64 Furniture, factory product	42	1,534,934	89,515	180,208	176,972	1,139,289	55	141	118,433	1,869	822,540
65 Gas, illuminating and heating	11	18,554,361	1,018,185	744,980	1,824,934	14,966,262	34	84	84,757	237	186,380
66 Glass	7	581,086	49,618	144,576	66,559	320,333	4	31	38,976	742	339,518
67 Glass, cutting, staining, and ornamenting.	9	68,015	3,500	12,300	8,005	44,210	10	4	2,300	68	22,995
68 Gloves and mittens	3	50,541	100	500	5,494	44,507	5	8	6,175	89	14,276
69 Grease and tallow	5	48,203	4,250	4,016	8,015	31,927	7	6	3,300	24	11,540
70 Hand stamps	4	69,156			28,050	40,506	5	6	6,300	82	31,350
71 Hardware	10	107,640	15,300	22,200	12,104	58,036	18	3	2,318	65	21,161
72 Hats and caps, not including fur hats and wool hats.	20	1,124,599	60,500	242,000	164,323	657,776	32	67	92,888	1,117	335,635
73 Hosiery and knit goods	4	311,508	3,000	3,083	94,789	205,636	2	28	14,518	682	119,456
74 Ice, manufactured	18	649,692	93,191	100,100	421,425	84,976	6	19	14,535	133	74,633
75 Instruments, professional and scientific.	7	56,620	5,000	5,500	14,502	31,613	9	8	6,779	39	16,065
76 Iron and steel	9	2,392,630	39,000	1,286,966	930,609	586,115	55	55	77,147	2,133	1,020,763
77 Iron and steel, nails and spikes, cut and wrought, including wire nails.	3	48,500			19,500	29,000	4	5	4,800	37	17,050
78 Ironwork, architectural and ornamental.	10	431,661	60,600	57,300	51,700	312,061	12	15	20,308	232	477,620
79 Jewelry	9	170,121			11,721	158,400	9	4	2,930	76	43,254
80 Kaolin and other earth grinding	8	162,075	28,650	33,700	55,075	39,650	8	6	3,800	78	26,136
81 Kindling wood	3	7,750	250	750	6,250	500	3	2	900	60	10,950
82 Leather, tanned, curried, and finished.	22	1,038,725	60,980	172,720	148,295	706,730	23	18	17,429	455	156,182
83 Lime and cement	33	660,008	113,324	190,800	101,465	253,908	34	27	20,414	557	182,639
84 Liquors, distilled	25	2,326,272	185,935	690,024	315,310	1,185,003	19	43	74,216	186	95,172
85 Liquors, malt	16	13,357,323	589,246	9,952,309	1,484,133	1,831,585	9	161	262,916	752	484,318
86 Lithographing and engraving	6	490,413			197,321	293,094	16	35	22,540	281	127,301
87 Lock and gun smithing	59	64,418	11,562	13,400	10,580	28,376	59	2	1,002	62	27,077
88 Looking-glass and picture frames	32	316,195	56,775	53,000	29,422	176,993	37	43	39,156	300	110,333
89 Lumber and timber products	367	2,622,928	338,191	147,049	737,642	849,249	474	73	38,637	1,964	476,776
90 Lumber, planing mill products, including sash, doors, and blinds.	52	3,250,501	330,982	315,180	314,712	2,293,677	81	93	75,261	1,287	629,262
91 Mantels, slate, marble, and marbleized.	4	31,320	6,100	3,100	520	22,100	6	2	1,200	13	11,924
92 Marble and stone work	33	743,045	160,275	62,245	178,591	352,534	45	55	69,016	1,231	569,273
93 Masonry, brick and stone	106	755,631	132,180	119,800	33,475	470,226	115	35	41,736	1,237	314,531
94 Mattresses and spring beds	21	203,005	21,200	32,350	20,230	134,825	21	23	17,178	128	47,254
95 Millinery and lace goods	11	186,730	17,400	16,500	25,700	127,130	17	23	14,802	266	81,083
96 Millinery, custom work	235	630,327	98,919	151,750	14,705	414,953	230	147	45,940	643	178,100
97 Mineral and soda waters	36	254,340	19,684	26,740	76,121	131,895	35	15	13,938	155	55,134
98 Models and patterns	7	17,341	1,666	1,300	7,500	6,375	10			29	15,524
99 Monuments and tombstones	71	351,367	54,604	57,875	23,050	210,333	30	6	6,077	249	118,334
100 Musical instruments, organs and materials.	5	68,100	6,000	19,000	9,650	33,450	6	10	5,462	76	40,603
101 Musical instruments, pianos and materials.	4	1,184,650	91,342	166,000	76,635	850,673	4	31	41,930	447	222,743
102 Oil, not elsewhere specified	7	83,340	7,500	13,500	4,275	53,565	8	20	9,420	20	7,033
103 Optical goods	9	41,569			5,725	35,844	12	16	14,080	31	16,616
104 Oysters, canning and preserving	16	799,005	51,650	135,793	77,743	533,314	15	79	81,043	1,444	379,591
105 Painting, house, sign, etc.	308	372,123	63,177	85,233	36,140	187,513	339	27	18,016	986	435,792
106 Paints	13	290,222	18,000	28,000	78,760	165,462	21	26	25,900	110	45,273
107 Paper and wood pulp	21	2,726,377	127,142	715,396	1,147,920	730,419	11	35	58,793	937	326,474
108 Paper hanging	107	242,396	40,115	66,250	6,513	130,013	115	20	13,403	325	151,284
109 Paper patterns	3	510			50	460	4			1	300
110 Patent medicines and compounds	52	1,016,322	51,200	119,150	80,484	765,933	54	119	177,759	411	136,032
111 Paving and paving materials	26	444,305	33,206	57,250	165,344	133,505	25	15	25,216	473	169,752
112 Perfumery and cosmetics	12	86,339	4,300	2,300	18,935	60,354	10	16	14,440	91	23,545

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,446	\$509,356	2,165	\$510,001	1,116	\$166,657	\$397,016	\$3,155	\$34,517	\$354,844		\$3,089,996	\$2,984,814	\$55,082	\$5,423,251	43
14	7,060			1	104	842	516	134	192		4,138	3,488	650	16,022	44
154	64,175	286	59,269	1	130	187,864	20,010	4,764	119,000		689,191	694,054	5,187	1,811,844	45
88	39,228	52	16,380	6	798	38,543	9,238	1,830	10,780	\$11,700	18,422	14,186	4,296	179,693	46
187	50,967	18	2,736	5	600	28,156	1,510	588	22,563	8,500	112,464	110,986	2,078	269,811	47
181	63,396			3	232	11,805	6,188	229	5,893		167,191	165,963	1,828	850,635	48
21	8,889			6	968	11,604	1,420	10	174		5,444	4,046	1,898	28,088	49
981	274,714	205	41,703			29,540	300	6,470	22,770		769,472	738,738	90,784	1,890,493	50
14	6,900					2,169	1,814	105	750		11,409	11,028	386	85,870	51
27	18,175	11	2,400			1,951	1,252	20	679		8,698	8,574	124	42,400	52
118	40,003	192	27,831	14	2,000	81,688	9,651	1,795	20,242		184,842	182,858	1,984	960,817	53
1,010	455,576	6	2,116			354,844	84,846	35,054	284,444		\$,649,846	3,566,984	56,862	5,481,955	54
207	36,000	179	22,600	56	4,000	11,020	1,604	770	10,250		164,605	151,370	9,235	248,100	55
10	5,793	12	2,350	3	660	6,184	2,997	150	8,037		22,410	22,395	76	39,844	56
532	228,009	5	883	4	443	225,357	80,754	20,252	178,513	883	6,781,805	6,603,941	67,864	8,036,343	57
54	23,740	46	8,800	4	606	9,573	3,685	2,114	8,774		195,826	188,492	2,334	274,046	58
4,663	2,245,062	6	1,300	26	5,415	456,175	44,699	38,244	354,925	18,807	3,322,658	3,201,946	120,712	8,443,547	59
2,980	744,516	3,712	559,310	818	75,805	871,108	89,560	20,189	816,949	460	8,786,518	8,735,149	51,369	11,990,265	60
17	13,430	81	10,070			7,759	4,625	1,085	2,040		72,088	71,661	372	187,820	61
89	57,880	1,898	426,217	46	8,188	58,851	20,374	2,186	35,811		1,060,164	1,054,195	5,959	1,880,088	62
187	97,707	18	8,737	8	912	39,647	26,989	1,897	10,576	185	142,408	140,969	1,439	450,436	63
1,758	804,897	19	4,450	97	13,193	155,614	48,062	9,419	95,763	2,370	1,212,226	1,199,151	13,075	2,078,494	64
237	136,980					268,869	6,025	121,212	141,132		481,013	484,792	46,221	1,798,507	65
562	313,920	54	8,673	126	16,925	26,065		2,040	24,025		151,500	103,520	47,980	557,805	66
43	18,272	20	4,150	5	578	3,722	1,947	164	1,621		62,958	61,844	1,109	116,164	67
23	5,300	63	8,751	3	225	8,936	850	225	2,861		54,098	54,059	89	86,675	68
23	11,300			1	240	6,798	1,064	170	5,559		69,700	68,371	1,329	100,359	69
61	27,800	21	8,450			9,262	5,260	177	3,825		45,680	44,426	1,104	140,583	70
60	20,565	2	450	3	146	3,220	1,465	415	1,340		92,284	84,178	8,056	173,512	71
458	199,112	622	181,043	37	5,780	127,867	16,967	4,710	105,690		889,146	882,068	7,078	1,619,825	72
60	23,715	526	89,754	96	5,987	21,981	1,300	351	16,948	2,887	347,250	344,058	3,167	514,098	73
137	74,813			1	820	24,490	185	5,972	18,338		84,070	27,092	56,978	358,668	74
37	16,576	2	890			6,491	2,990	500	3,001		25,445	24,875	570	72,746	75
2,101	1,019,428	12	8,000	25	7,325	508,298	6,080	22,340	479,878		6,888,916	5,767,014	1,121,902	8,789,405	76
17	12,600	20	4,450			4,960	3,060	400	1,500		86,820	85,820	1,000	84,000	77
229	247,149			3	480	8,856	1,894	1,202	3,940	1,820	523,509	519,175	4,334	867,868	78
71	42,276	3	750	2	223	8,770	4,978	900	2,892		108,002	106,784	1,268	212,450	79
78	26,186					8,420	2,953	902	4,565		18,475	18,100	6,975	74,796	80
12	2,700	48	8,250			945	60	85	800		22,000	21,950	50	45,200	81
442	152,716	8	2,496	5	970	40,800	1,681	4,059	35,720		1,411,457	1,402,648	8,809	1,764,102	82
548	180,985			14	1,704	48,006	6,184	2,880	32,612	1,980	220,568	157,672	68,891	549,860	83
181	94,212			5	960	172,785	3,779	28,607	140,939		315,381	764,425	50,956	1,618,362	84
751	484,162			1	156	1,568,108	2,014	25,839	1,589,855		878,938	805,992	72,941	4,183,797	85
203	112,497	50	12,244	28	8,060	51,320	9,900	85,783	35,733	4,848	180,682	178,856	1,826	499,851	86
58	27,297	1	416	3	264	9,679	5,610	380	3,689		29,041	27,748	1,298	115,104	87
276	107,477	21	2,300	3	604	40,296	18,698	2,040	19,568		282,411	228,983	3,428	542,226	88
1,718	456,820	143	18,778	103	6,178	68,004	3,571	12,285	47,148		1,890,357	1,890,157	200	2,650,082	89
1,229	518,939			58	11,163	141,244	18,294	19,016	103,814	120	2,310,655	2,298,847	12,808	3,593,083	90
18	11,924					1,762	1,832	200	280		12,927	12,900	27	89,744	91
1,224	568,123	1	800	6	850	69,076	9,098	4,942	54,945	90	494,910	478,826	16,084	1,545,616	92
1,279	810,911			18	3,620	576,195	8,839	2,798	20,428	544,130	2,277,045	2,275,288	1,757	4,114,800	93
106	42,806	16	3,564	6	884	16,101	8,076	1,450	6,575		150,557	149,111	1,446	287,937	94
53	21,555	207	58,749	6	784	12,262	6,685	767	4,810		138,450	138,848	1,607	297,847	95
7	2,439	625	173,113	16	2,548	85,881	11,315	4,765	19,799	2	778,500	770,890	3,110	1,411,564	96
146	58,744	2	500	7	890	22,801	4,817	737	17,247		109,266	107,754	1,512	260,868	97
27	15,214			2	310	2,421	1,610		811		6,828	5,742	1,086	37,146	98
247	118,364			2	520	14,995	5,255	3,441	6,068	230	218,694	216,984	1,710	480,081	99
76	40,608					4,829	1,150	454	2,975	250	46,251	44,540	711	114,916	100
414	222,410			3	398	88,697	450	12,280	70,967		358,680	354,618	4,012	827,971	101
20	7,038					7,526	1,619	544	5,113	250	99,086	98,548	538	152,640	102
30	16,376	1	240			11,294	3,608	166	2,460		29,556	28,666	890	98,465	103
712	247,117	618	114,000	114	18,474	70,100	5,770	4,870	59,460		1,771,377	1,758,695	12,742	2,417,331	104
973	434,119			13	1,673	39,027	25,166	2,655	9,165	2,041	279,088	277,866	1,217	1,116,866	105
94	41,688	9	2,585	7	1,000	22,172	5,407	1,849	15,416		265,748	259,066	6,677	442,744	106
839	808,543	98	17,981			105,571	1,983	9,621	91,830	2,137	1,730,910	1,602,639	123,271	2,589,540	107
310	148,830	5	1,470	10	1,484	24,303	14,607	2,234	7,462		144,384	143,950	384	455,043	108
182	86,156	1	300			566	564		2		2	90	12	8,185	109
477	169,547	250	48,906	9	1,020	482,415	9,856	11,857	410,692	10	481,039	476,012	5,027	1,749,655	110
31	12,435	60	11,110	1	205	25,083	4,487	1,901	10,715	8,000	187,548	154,816	3,292	487,850	111
						40,916	5,452	1,676	33,888		98,710	98,259	451	228,304	112

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.
113 Photography	74	\$133,428	\$2,830	\$15,000	\$63,325	\$52,183	82	8	104	\$46,560	
114 Pickles, preserves, and sauces	25	129,146	15,016	25,765	40,528	47,837	80	16	77	22,989	
115 Plastering and stuccowork	46	91,350	23,050	16,025	3,880	48,395	49	4	187	114,981	
116 Plumbers' supplies	4	1,094,095	72,111	77,000	274,722	670,262	2	71	685	240,553	
117 Plumbing, and gas and steam fitting	245	795,307	113,186	153,110	82,790	446,221	264	47	820	407,845	
118 Pottery, terra cotta, and fire-clay products.	18	1,081,463	64,200	214,479	262,684	540,100	15	47	1,082	884,655	
119 Printing and publishing, book and job.	156	1,864,894	25,788	43,760	697,837	597,524	191	152	1,304	585,907	
120 Printing and publishing, newspapers and periodicals.	141	2,473,094	259,263	891,888	1,028,707	793,236	146	388	1,529	758,835	
121 Printing materials	4	12,000			9,500	2,500	5	2	21	7,285	
122 Pumps, not including steam pumps.	6	17,780	15	100	2,075	15,590	7	1	11	8,836	
123 Regalia and society banners and emblems.	6	50,215	500	900	18,305	30,510	6	14	67	20,605	
124 Roofing and roofing materials	17	401,449	234,779	13,788	33,779	114,103	14	13	203	73,054	
125 Saddlery and harness	150	834,152	67,067	110,170	64,887	602,028	170	60	541	171,402	
126 Sausage	5	18,966	5,566	8,850	1,900	2,650	5	5	31	5,802	
127 Sewing machine repairing	11	23,815	4,900	7,400	4,365	7,150	7	2	22	13,242	
128 Ship and boat building, wooden	43	623,435	197,750	54,525	150,994	220,166	58	25	676	331,873	
129 Shipbuilding, iron and steel	4	3,822,588	103,000	250,000	945,000	2,524,588	8	70	1,930	1,185,822	
130 Shirts	65	1,504,968	15,597	59,119	276,270	1,153,982	100	163	3,998	788,157	
131 Silverware	5	321,336	35,000	3,000	34,400	148,936	11	15	116	67,479	
132 Slaughtering and meat packing, wholesale.	47	1,318,917	100,009	301,500	188,660	728,748	72	63	514	242,089	
133 Slaughtering, wholesale, not including meat packing.	35	229,571	63,306	101,000	30,175	85,090	36	5	83	34,324	
134 Soap and candles	6	209,232	9,913	30,000	27,690	141,629	2	32	127	53,688	
135 Stamped ware	3	1,354,591	70,000	150,350	129,975	1,004,266	1	29	826	220,984	
136 Stencils and brands	3	8,725			5,250	3,475	3	1	6	2,386	
137 Tinsmithing, coppersmithing, and sheet-iron working.	319	3,218,696	195,265	491,431	643,820	1,888,180	363	152	2,852	1,039,605	
138 Tobacco, chewing, smoking, and snuff.	5	1,805,611	107,034	350,333	539,371	805,873	8	120	2,002	564,272	
139 Tobacco, cigars and cigarettes	382	1,519,866	171,694	238,010	76,413	1,033,749	436	155	2,309	742,155	
140 Tools, not elsewhere specified	6	51,185	1,000	6,500	7,235	36,450	6	2	37	9,736	
141 Toys and games	3	11,505			3,505	8,000	6	6	17	10,786	
142 Trunks and valises	13	53,693	4,833	3,000	5,010	41,250	17	7	56	22,109	
143 Umbrellas and canes	11	392,792	12,000	19,000	12,750	349,042	23	84	401	109,772	
144 Upholstering materials	6	673,409	14,833	50,250	21,635	586,901	12	27	698	209,860	
145 Varnish	3	48,604		9,000	9,456	30,148	8	9	32	5,488	
146 Vinegar and cider	10	58,522	4,855	14,848	13,855	24,964	20	2	10	14,615	
147 Watch, clock, and jewelry repairing	188	267,310	38,035	69,285	43,933	115,997	193	2	131	64,388	
148 Window shades	4	58,065	1,000	1,000	2,800	53,765	3	9	33	14,540	
149 Wirework, including wire rope and cable.	13	216,545	26,950	16,300	75,114	98,181	20	15	151	59,293	
150 Wood, turned and carved	9	54,025	3,225	26,000	15,425	0,375	10	7	93	28,452	
151 Woolen goods	4	1,330,549	23,630	169,177	171,663	961,079	6	25	877	221,215	
152 All other industries <sup>1</sup>	124	9,328,485	513,275	1,030,044	2,215,506	5,519,660	111	385	4,177	1,652,160	

<sup>1</sup> Embraces agricultural implements, 2; artificial limbs, 2; axle grease, 1; babbit metal and solder, 2; bags, paper, 2; belting and hose, linen, 2; bicycles and tricycles, 1; bridges, 1; battens, 2; card cutting and designing, 1; carriages and sleds, children's, 2; cars, steam railroad, not including operations of railroad companies, 1; charcoal, 1; cleansing and polishing preparations, 2; cloth, sponging and refinishing, 2; coffins, burial cases, and undertakers' goods, 1; copper, smelting and refining, 1; cordage and twine, 1; cordials and sirups, 1; cork, cutting, 1; cotton waste, 1; drug grinding, 2; dyeing and finishing textiles, 2; engraving, wood, 1; files, 2; firearms, 1; fire extinguishers, chemical, 1; fireworks, 2; galvanizing, 2; gas and lamp fixtures, 2; gas machines and meters, 2; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 1; hairwork, 2; hammocks, 1; hand knit goods, 2; horseshoes, factory product, 1; house furnishing goods, not elsewhere specified, 2; ink, printing, 1; ink, writing, 2; iron and steel, forgings, 1; japanning, 1; jewelry and instrument

TABLE 8.--MANUFACTURES IN BALTIMORE

	6,359	\$117,062,459	\$10,235,468	\$21,231,436	\$17,888,603	\$67,706,902	7,163	6,267	\$6,190,269	78,738	\$29,220,460
1 All industries	6,359	\$117,062,459	\$10,235,468	\$21,231,436	\$17,888,603	\$67,706,902	7,163	6,267	\$6,190,269	78,738	\$29,220,460
2 Artificial leathers and flowers	5	33,005			3,005	30,000	9	5	6,520	287	36,190
3 Awnings, tents, and sails	21	67,890			7,640	60,250	28	3	2,860	97	47,316
4 Bags, other than paper	6	217,603	3,000	1,900	30,610	182,093	8	8	10,820	120	31,382
5 Baking and yeast powders	7	97,668			9,725	87,943	7	43	41,934	100	33,854
6 Baskets, and rattan and willow ware	26	46,109	3,950	7,150	5,429	29,580	25	2	2,400	35	12,930
7 Bicycle and tricycle repairing	41	36,920	3,700	1,600	5,880	25,740	48	4	2,700	49	16,280
8 Blacking	8	12,501			1,417	11,084	3	6	9,794	12	2,932
9 Blacksmithing and wheelwrighting	206	233,313	91,340	92,536	32,044	72,393	231	3	2,824	352	133,142
10 Bluing	3	890			255	635	3	3		5	1,000
11 Bookbinding and blank book making	21	110,695	7,925	20,800	46,970	35,000	24	15	10,039	135	70,802
12 Boot and shoe cut stock	3	31,875	400	3,000	2,475	26,000	3	7	3,800	11	4,720
13 Boot and shoe uppers	12	23,390	3,700	4,700	2,565	12,125	12	7		15	5,295
14 Boots and shoes, custom work and repairing	612	473,714	120,201	135,270	52,407	115,836	620	7	2,900	318	118,395
15 Boots and shoes, factory product	18	468,880	12,500	26,800	153,786	275,794	26	27	45,986	846	269,659
16 Bottling	17	322,542	62,800	113,700	23,133	117,909	17	28	28,526	134	63,153
17 Boxes, cigar	6	57,062	6,850	9,200	7,565	33,447	6	3		39	27,932
18 Boxes, fancy and paper	11	135,796	3,200	10,200	46,060	71,336	13	32	16,238	356	77,699
19 Boxes, wooden packing	16	505,764	51,400	70,590	31,141	302,633	21	23	25,022	929	294,398
20 Brass castings and brass finishing	6	80,098	3,950	6,950	24,579	39,619	6	7	7,032	68	27,844
21 Bread and other bakery products	339	1,743,655	238,396	544,425	623,775	334,059	395	177	116,756	1,460	553,164

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
79	\$40,885	23	\$5,933	2	\$242	\$28,127	\$22,572	\$466	\$4,780	\$300	\$61,768	\$60,145	\$1,623	\$236,021
82	19,131	13	3,694	2	164	9,675	3,796	1,113	4,766		204,379	201,507	2,872	297,898
187	114,981					7,070	3,767	391	1,512	1,400	64,058	63,833	225	251,867
643	226,960	35	12,164	7	1,429	35,760	1,585	9,985	24,190		371,593	360,536	11,057	755,236
794	404,177			26	3,668	58,791	29,948	5,053	22,693	1,100	816,731	810,216	6,515	1,780,507
842	327,958	80	31,287	160	25,410	41,530	8,199	8,590	21,980	2,811	196,365	144,042	52,323	884,891
1,015	478,568	214	47,268	75	10,071	201,606	61,598	3,900	82,329	53,781	339,567	317,020	22,547	2,252,490
1,427	735,469	43	16,488	59	6,378	349,663	62,607	14,968	210,947	72,041	673,563	647,853	25,710	2,618,799
17	6,020	2	400	2	275	1,335	850	60	425		11,175	11,050	125	28,000
19	3,836					2,481	1,120	45	1,816		9,774	9,764	10	27,650
11	10,000	28	7,780	20	2,825	12,842	3,000	424	9,418		56,251	55,590	661	122,690
199	72,471			4	583	8,589	2,936	619	5,034		87,793	83,867	3,926	220,565
503	165,725	26	6,950	12	2,127	53,062	19,365	6,159	27,533	14	670,801	667,374	3,427	1,156,279
18	5,862					1,272	231	1,041	801		32,078	31,190	888	45,056
22	13,242					1,628	1,200	126	2,426		20,959	20,672	287	53,247
675	331,707			1	166	30,649	5,225	7,651	16,793	980	301,010	296,944	4,066	862,034
1,904	1,178,297			34	7,053	110,916	27,875	12,716	67,325	3,000	1,497,554	1,459,393	38,161	3,239,491
768	239,517	3,114	548,577	116	11,063	312,747	47,635	8,873	144,968	116,271	2,576,692	2,561,621	15,071	4,245,220
112	60,729			3	350	17,789	7,150	2,026	6,613	2,000	76,828	75,220	1,599	200,172
502	239,945	9	1,668	8	476	99,239	12,427	7,310	78,002	1,500	5,446,717	5,400,542	46,175	6,209,857
82	33,874	1	450			9,778	1,330	2,820	5,628		1,602,362	1,657,152	5,210	1,336,502
92	46,303	30	6,785	5	600	19,003	1,970	1,124	15,026	883	168,628	161,906	6,722	285,623
525	154,482	170	42,750	181	23,752	41,705	41,705	3,945	87,760		601,569	597,400	4,169	1,059,800
6	2,280			1	100	1,239	12	12	1,227		2,591	2,513	78	11,842
2,416	965,614	172	33,930	204	35,601	160,901	38,366	12,662	108,937	934	4,454,632	4,409,701	44,931	6,723,505
584	243,979	1,232	208,489	186	21,804	3,233,312	2,336	13,629	3,216,847		2,496,107	2,484,938	11,124	7,054,159
1,558	594,253	640	134,906	111	12,936	468,003	50,199	10,793	397,011		1,039,783	1,035,362	4,421	2,842,769
17	3,786					1,894	697	118	1,079		10,141	9,656	485	41,491
24	3,666	45	4,320	29	2,800	1,819	492	20	1,827		10,695	10,675	20	48,507
44	20,399	12	1,710	12	7,172	9,403	7,172	401	1,830		28,878	28,313	565	84,952
110	42,416	291	67,356			20,125	6,815	982	12,128	200	747,859	746,716	1,143	1,098,161
525	175,160	86	17,700	87	17,000	27,579	8,538	2,410	16,625		632,813	624,263	8,550	1,057,550
11	5,254					3,994	740	197	3,057		34,734	34,120	614	64,521
28	14,147	2	463			4,532	395	472	3,653	12	30,656	30,251	1,405	80,203
119	63,099	12	1,289	12	1,289	80,294	21,519	2,090	6,260	425	73,728	71,727	2,001	319,239
21	10,600	10	5,680	2	260	8,092	2,894	238	4,960		119,132	118,922	210	193,800
107	51,613	10	2,100	34	5,680	19,570	3,186	1,464	12,440	2,500	85,075	82,444	2,631	193,162
81	28,172			12	280	1,711	802	221	688		44,268	40,260	4,008	103,375
576	173,152	204	33,011	97	10,052	54,181	5,940	5,940	48,241		667,036	653,838	13,198	1,213,373
3,523	1,523,276	517	107,879	137	21,005	600,356	47,026	78,556	480,829	43,945	29,952,844	29,714,768	238,076	36,683,261

cases, 1; labels and tags, 2; lamps and reflectors, 1; lard, refined, 1; lead, bar, pipe, and sheet, 1; leather goods, 1; malt, 1; millstones, 1; mirrors, 2; muclage and paste, 2; musical instruments and materials, not specified, 2; needles and pins, 1; news and seines, 2; oakum, 1; paper hangings, 1; pens, gold, 1; petroleum, refining, 1; photographic materials, 1; photolithographing and photoengraving, 2; pipes, tobacco, 2; plated and britannia ware, 2; printing and publishing, music, 1; refrigerators, 1; rubber and elastic goods, 2; safes and vaults, 1; saws, 2; scales and balances, 1; show cases, 1; silk and silk goods, 2; silversmithing, 1; starch, 1; stationery goods, not elsewhere specified, 2; steam packing, 1; stereotyping and electrotyping, 2; sugar and molasses, refining, 2; surgical appliances, 2; tin and tinned plate, 2; tobacco, stemming and rehanding, 2; type founding, 1; washing machines and clothes wringers, 1; watch cases, 1; whips, 1; woodenware, not elsewhere specified, 1.

BY SPECIFIED INDUSTRIES: 1900.

50,954	\$23,494,225	23,710	\$5,149,416	4,074	\$576,819	\$14,512,809	\$1,654,441	\$677,341	\$9,660,685	\$2,520,342	\$87,175,134	\$85,947,690	\$1,227,444	\$161,249,240	1
12	3,800	158	24,740	67	7,650	5,863	2,430	18	3,420		26,725	26,701	24	114,020	2
66	89,886	29	7,262	2	168	7,089	5,755	179	1,155		99,403	98,842	561	108,058	3
29	11,550	90	19,712	1	120	14,210	3,286	2,378	8,561		363,970	363,423	547	452,970	4
53	25,567	53	8,237			25,772	7,102	878	17,792		219,409	215,095	4,314	345,278	5
84	12,580			1	350	11,163	3,089	207	397	7,500	49,434	49,338	101	99,802	6
44	15,506			5	774	3,652	6,787	196	1,393	276	32,065	31,681	434	86,310	7
3	1,270	3	750	6	962	1,037	840	58	189		15,084	14,811	243	30,632	8
340	181,809	12	1,333	28,438	1,833	28,438	19,177	3,144	5,519	598	132,442	125,367	7,075	549,294	9
4	350					406	329	77	3,219		3,227	3,219	8	7,320	10
88	48,994	93	20,058	14	1,750	12,451	6,103	829	3,319	2,200	36,026	35,005	1,021	172,126	11
10	4,600			1	120	1,370	650	320	400		71,660	71,410	250	99,500	12
16	5,295					1,508	1,259	56	193		25,247	25,117	130	40,030	13
302	115,534	8	2,380	8	481	75,174	52,369	5,698	7,439	9,668	224,500	221,039	3,461	741,308	14
568	205,034	266	63,255	12	1,640	85,828	7,268	1,230	27,280		635,464	630,737	4,727	1,065,507	15
133	62,978			1	175	50,082	2,856	2,203	44,349	624	424,076	420,993	3,083	639,932	16
88	15,144	48	12,200	8	588	1,740	180	279	1,281		54,649	53,949	700	98,764	17
79	26,431	220	48,792	57	7,476	24,975	9,155	909	13,853	1,058	126,473	124,170	2,303	296,013	18
760	285,668	9	1,305	160	27,425	57,435	10,668	4,241	42,526		954,440	952,611	1,829	1,559,298	19
66	27,344					6,542	2,630	323	3,589		121,332	118,691	2,691	203,333	20
1,200	509,194	201	34,296	59	9,674	142,776	44,582	16,230	81,964		2,198,091	2,123,756	74,335	3,811,524	21

TABLE 8.—MANUFACTURES IN BALTIMORE

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.
22 Brooms and brushes	87	\$245,982	\$9,700	\$24,200	\$27,788	\$184,844	47	17	\$10,850	859	\$112,682
23 Carpentering	819	1,666,882	164,266	227,018	201,119	1,073,629	844	46	43,353	2,227	1,159,109
24 Carpets, rag	18	89,216	1,633	2,250	12,438	22,905	18	4	3,000	118	23,596
25 Carriages and wagons	92	476,561	69,423	93,885	65,721	247,532	120	19	14,750	553	242,066
26 Cars and general shop construction and repairs by steam railroad companies.	6	2,236,388	258,700	1,257,033	881,955	338,700		98	72,974	2,438	1,267,920
27 Cheese and butter, urban dairy products.	4	1,800	480	1,070	195	55	4				
28 Chemicals	5	1,871,272	271,000	219,182	895,465	485,625	8	26	41,474	375	205,929
29 China decorating	4	8,715	1,000	1,500	1,195	5,020	5	2	1,200	7	1,024
80 Clothing, men's, custom work and repairs.	350	1,542,908	80,683	138,128	42,687	1,281,410	400	176	109,305	1,287	659,918
81 Clothing, men's, factory product	187	8,434,586	135,600	855,200	413,604	7,525,782	252	759	715,907	9,690	3,174,172
82 Clothing, men's, factory product, buttonholes.	8	7,295	400	1,300	4,915	680	9			39	11,884
83 Clothing, women's, dressmaking	570	323,757	51,175	97,825	46,580	123,177	601	17	11,022	1,240	300,696
34 Clothing, women's, factory product	58	828,620	3,000	12,500	79,452	783,668	96	150	127,641	1,879	605,475
35 Coffee and spice, roasting and grinding	11	227,400	3,200	10,800	40,300	173,600	15	63	107,602	97	85,087
36 Confectionery	118	936,401	79,934	238,700	205,570	413,097	128	147	121,364	991	297,055
37 Cooperage	30	395,321	73,883	87,470	39,110	195,358	41	14	10,780	340	158,617
38 Corsets	4	50,630	10,000	20,000	4,620	16,010	4	14	3,328	37	8,870
39 Cutlery and edge tools	8	16,200	2,200	4,100	2,700	7,200	8			15	7,161
40 Druggists' preparations, not including prescriptions.	10	389,275	10,000	40,000	174,275	165,000	14	224	253,330	439	122,709
41 Dyeing and cleaning	53	125,795	22,050	58,038	19,922	25,185	55	5	2,232	115	46,010
42 Electrical apparatus and supplies	5	149,303	3,000	23,000	33,935	89,368	1	16	15,616	64	29,603
43 Electrical construction and repairs	25	112,891	5,500		13,163	94,225	30	13	7,154	134	68,628
44 Electroplating	6	12,825			5,700	7,125	10	1	900	27	8,857
45 Enameling and enameled goods	4	1,437,214	148,192	191,394	334,779	762,849	2	74	60,547	1,136	310,117
46 Engraving and diesinking	7	9,368			5,218	4,150	8	3	1,200	14	6,900
47 Engraving, steel, including plate printing.	8	14,325			4,075	10,250	7	6	3,500	38	15,575
48 Fancy articles, not elsewhere specified.	5	233,072	25,000	55,000	33,045	125,027	6	16	15,060	324	60,334
49 Fertilizers	17	4,449,768	490,344	532,948	534,783	2,841,193	9	149	186,850	705	320,388
50 Flavoring extracts	12	38,544	1,650	4,000	3,007	28,887	15	10	2,900	25	8,303
51 Flouring and grist mill products	4	678,500	85,000	214,000	205,125	174,375	8	33	43,378	131	69,140
52 Food preparations	16	154,010	23,450	37,850	27,350	65,360	15	11	11,260	101	32,516
53 Foundry and machine shop products	74	4,971,434	427,150	732,698	877,513	2,934,075	33	237	270,711	3,375	1,805,271
54 Fruits and vegetables, canning and preserving.	23	2,862,467	263,816	237,524	351,213	2,009,914	82	143	172,326	4,300	905,897
55 Fur goods	11	67,677	8,333	6,500	1,594	56,250	14	6	3,700	43	23,500
56 Furnishing goods, men's	16	617,002	1,500	2,700	57,752	555,050	23	103	83,625	1,391	456,052
57 Furniture, cabinetmaking, repairing, and upholstering.	114	193,634	16,533	25,392	9,423	142,236	141	18	8,930	139	95,320
58 Furniture, factory product	30	1,417,373	83,375	145,736	147,501	1,040,766	48	129	111,959	1,627	745,364
59 Glass	3	218,559	92,072	80,633	11,192	94,053	4	6	4,200	236	139,334
60 Glass, cutting, staining, and ornamenting.	8	29,315	500	300	3,005	25,510	9	4	2,300	42	16,335
61 Grease and tallow	4	23,637	3,000	2,500	6,900	16,237	6			21	10,022
62 Hand stamps	3	69,000			23,500	40,500	4	6	6,900	82	31,250
63 Hardware	9	96,518	15,000	19,500	11,932	50,036	11	2	2,468	60	19,511
64 Hats and caps, not including fur hats and wool hats.	20	1,124,509	60,500	242,000	164,323	657,776	32	67	92,838	1,117	335,935
65 Ice, manufactured	5	342,238	66,367	53,000	214,500	7,371	2	4	4,860	63	44,191
66 Instruments, professional and scientific.	7	56,620	5,000	5,500	14,502	31,618	9	8	6,779	39	16,906
67 Iron and steel, nails and spikes, cut and wrought, including wire nails.	3	48,500			19,500	29,000	4	5	4,800	37	17,050
68 Ironwork, architectural and ornamental.	9	478,261	60,600	57,300	51,550	303,811	10	15	20,308	229	246,329
69 Jewelry	9	170,121			11,721	158,400	9	4	2,930	76	43,251
70 Leather, tanned, curried, and finished	10	140,950	28,500	24,950	7,950	84,500	18	6	6,100	142	58,716
71 Lime and cement	6	89,592	8,500	4,950	11,275	19,367	6	2	850	70	27,477
72 Liquors, distilled	7	1,033,875	99,000	412,875	168,000	354,000	2	24	23,636	83	49,708
73 Liquors, malt	12	9,689,037	478,246	6,930,307	1,000,629	1,284,905	7	120	186,973	538	351,062
74 Lithographing and engraving	6	490,415			197,321	293,094	16	35	22,540	231	127,361
75 Lock and gun smithing	67	62,238	10,962	12,400	10,330	28,576	57	2	1,092	62	27,977
76 Looking-glass and picture frames	27	304,302	56,775	50,500	23,407	170,620	31	43	39,156	296	109,078
77 Lumber, planing mill products, including sash, doors, and blinds.	21	1,823,534	245,113	160,909	123,019	1,299,493	37	55	45,890	703	340,206
78 Mantels, slate, marble, and marbleized	4	31,320	6,100	3,100	520	22,100	6	2	1,200	18	11,921
79 Marble and stone work	29	531,313	121,000	40,100	113,200	257,513	35	40	49,715	323	437,252
80 Masonry, brick and stone	95	740,551	130,330	115,350	81,920	462,401	106	33	39,400	1,230	732,509
81 Mattresses and spring beds	13	194,905	20,200	23,350	19,430	125,925	17	22	16,678	112	43,923
82 Millinery and lace goods	11	186,790	17,400	16,500	25,700	127,190	17	23	14,802	266	81,038
83 Millinery, custom work	127	509,442	66,934	108,000	10,734	323,724	152	123	42,338	622	162,724
84 Mineral and soda waters	24	218,449	16,524	21,500	59,675	120,750	21	15	13,938	135	48,316
85 Models and patterns	7	17,341	1,666	1,300	7,500	8,750	10			29	15,521
86 Monuments and tombstones	39	262,066	46,000	42,950	23,500	149,616	46	4	5,000	137	94,327
87 Musical instruments, organs and materials.	4	37,100	5,000	12,000	4,650	15,450	5	3	2,130	21	13,103
88 Musical instruments, pianos and materials.	4	1,134,650	91,342	166,000	76,035	350,673	4	31	41,930	447	222,743
89 Oil, not elsewhere specified	7	33,340	7,500	13,500	4,275	58,565	8	20	9,420	20	7,033
90 Optical goods	9	41,569			5,725	35,844	12	16	14,030	31	16,616
91 Oysters, canning and preserving	15	734,271	51,650	135,043	74,649	522,924	14	77	30,243	1,000	376,591

BY SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
286	\$96,928	55	\$13,065	18	\$2,589	\$14,637	\$7,547	\$1,260	\$5,830		\$265,192	\$268,870	\$1,822	\$499,885	22
2,221	1,168,054	8	624	6	1,055	648,631	23,016	11,167	57,468	\$561,890	2,874,609	2,862,936	11,073	4,997,636	23
96	26,704	16	2,736	1	156	7,138	8,598	3,226	8,314		76,087	74,666	1,421	164,362	24
589	240,757			14	1,909	93,488	20,402	8,619	8,645	622	211,779	206,156	5,623	690,850	25
2,487	1,267,740	1	180			83,551		2,220	86,881		2,150,514	2,133,694	16,920	3,529,959	26
						91	60	25	6		1,871	1,865	16	2,120	27
872	205,128	3	806			81,546	8,912	7,299	70,385		661,297	638,686	72,611	1,078,800	28
3	896	8	624	1	104	780	528	75	177		12,673	12,481	192	29,601	29
1,051	690,954	204	65,268	32	3,696	446,350	102,549	9,978	64,500	269,323	1,206,892	1,197,081	9,751	3,061,014	30
8,929	1,921,588	5,168	1,186,977	593	65,607	1,500,908	165,688	82,414	510,941	791,860	10,223,686	10,197,805	26,881	17,290,825	31
16	6,406	21	4,782	2	196	1,087	1,184	88	520		4,874	4,478	396	26,382	32
74	43,552	1,153	255,496	13	1,648	65,221	52,225	2,760	9,924	312	804,330	297,182	7,148	1,092,988	33
985	212,764	1,453	287,912	41	4,799	162,051	45,607	2,815	78,479	85,660	1,261,120	1,254,831	6,789	2,505,654	34
69	29,082	88	6,005			22,774	7,119	500	15,055		1,000,158	998,024	7,129	1,271,787	35
610	227,628	842	65,116	39	4,311	114,566	39,848	8,019	72,699		1,290,658	1,280,512	16,046	2,249,868	36
638	158,380			2	287	27,963	5,985	2,977	18,051	1,000	848,040	846,698	1,842	628,801	37
8	1,870	84	7,500			2,986	1,840	266	740		5,217	4,800	417	25,982	38
14	7,060			1	104	842	516	184	192		4,138	3,488	660	16,022	39
152	68,400	286	59,269	1	130	187,164	20,010	4,614	112,540		683,891	678,904	4,987	1,293,844	40
77	35,612	32	9,600	6	798	27,469	8,698	1,685	5,436	11,700	14,228	10,518	8,715	148,742	41
56	28,467	7	1,036	1	100	14,518	1,510	415	9,088	8,500	85,210	83,787	1,423	159,781	42
131	63,396			8	282	11,805	6,183	229	5,893		167,191	165,363	1,828	850,685	43
21	8,889			6	968	1,604	1,420	10	174		5,444	4,046	1,898	28,038	44
931	274,714	208	41,708			29,540	300	6,470	22,770		769,472	738,788	30,784	1,890,493	45
14	6,900					2,138	1,278	105	750		11,884	11,023	861	84,870	46
27	13,175	11	2,400			1,951	1,252	20	679		8,698	8,574	124	42,400	47
118	40,008	192	27,881	14	2,000	81,688	9,651	1,795	20,242		184,342	182,858	1,984	369,817	48
699	818,272	6	2,116			243,185	82,618	26,859	183,708		2,479,052	2,442,559	36,493	3,752,329	49
10	5,793	12	2,850	3	600	6,184	2,997	150	3,087		22,410	22,885	75	85,844	50
128	68,540	8	600			127,605	9,905	5,445	112,255		2,048,008	2,031,429	16,574	2,321,998	51
53	28,440	44	8,500	4	608	9,513	3,625	2,114	8,774		139,915	131,606	2,309	268,166	52
8,848	1,800,415	6	1,800	21	3,556	403,105	83,881	90,608	315,820	18,307	2,148,408	2,074,593	73,816	6,119,978	53
1,644	467,226	2,388	400,446	828	37,725	309,985	26,600	14,123	270,262		6,432,416	6,408,891	23,524	8,477,178	54
17	13,430	31	10,070			7,759	4,625	1,085	2,049		72,033	71,661	372	137,820	55
85	56,480	1,779	894,697	27	4,875	57,344	19,974	2,019	36,351		916,222	910,495	5,727	1,729,676	56
167	91,071	15	8,427	7	822	88,262	26,417	1,635	10,025	185	125,495	124,318	1,177	411,215	57
1,514	728,130	19	4,450	94	12,784	145,996	47,100	8,878	87,558	2,370	1,096,784	1,086,200	10,584	2,690,610	58
190	129,334			76	10,000	9,419	8,027	1,027	8,892		67,459	84,007	23,862	220,205	59
83	15,472	4	850	5	673	2,902	1,947	84	921		18,303	18,144	659	56,104	60
20	9,782			1	240	6,479	1,064	135	5,280		44,412	43,321	1,091	68,981	61
61	27,800	21	3,450			9,159	5,160	174	3,825		45,450	44,350	1,100	149,000	62
57	19,365			3	146	3,053	1,465	348	1,240		86,178	78,160	8,016	156,112	63
458	199,112	622	131,043	37	5,780	127,367	16,967	4,710	105,690		839,146	832,068	7,078	1,619,825	64
68	44,191					12,205	50	2,440	9,715		52,499	11,121	41,373	287,682	65
37	16,576	2	390			6,491	2,990	500	8,001		26,445	24,875	670	72,746	66
17	12,600	20	4,450			4,960	3,060	400	1,500		36,820	35,320	1,500	84,000	67
226	246,349			8	480	8,170	1,858	1,202	8,790	1,320	520,009	515,675	4,334	862,368	68
71	42,276	3	750	2	228	8,770	4,978	900	2,892		103,002	106,784	1,268	212,450	69
130	55,388	8	2,496	4	832	3,977	1,296	400	2,381		474,871	471,449	2,922	593,600	70
69	27,378			1	104	5,051	3,929	74	1,648		79,176	67,950	11,226	123,109	71
78	48,748			5	960	63,017	679	23,118	39,225		424,124	398,183	25,991	918,630	72
537	350,906			1	156	1,130,913	1,779	20,630	1,108,504		622,401	609,532	62,869	2,984,023	73
203	112,497	50	12,244	28	3,060	51,326	9,960	735	35,738	4,848	180,682	178,856	1,826	409,851	74
57	27,297	1	416	3	264	9,569	5,588	362	3,621		28,641	27,373	1,268	119,804	75
282	106,172	21	2,300	3	606	89,920	18,488	2,002	19,480		228,598	225,195	3,403	582,969	76
671	382,756			32	7,450	80,140	15,904	7,650	56,586		1,124,948	1,115,525	9,423	1,809,068	77
18	11,924					1,762	1,832	200	230		12,927	12,900	27	39,744	78
322	436,252	1	800	5	700	89,398	6,536	3,487	29,845	30	472,478	459,701	12,777	1,329,275	79
1,212	778,839			18	3,620	573,083	8,839	2,750	20,367	544,189	2,238,109	2,236,352	1,757	4,026,838	80
95	40,160	11	2,884	6	884	15,414	7,926	1,367	6,121		138,332	136,920	1,412	266,590	81
63	21,555	207	58,749	6	784	12,262	6,685	767	4,810		138,450	136,843	1,607	297,847	82
7	2,489	499	147,737	16	2,548	70,368	50,954	3,538	15,809	2	641,490	639,616	1,874	1,157,944	83
127	47,626	2	500	6	690	21,702	4,264	488	16,950		93,374	97,006	1,368	231,957	84
27	15,214			2	310	2,421	1,610		811		6,823	5,742	1,086	37,146	85
185	94,407			2	520	12,158	4,123	3,012	5,023		139,412	138,087	1,375	336,909	86
21	18,108					2,551	1,150	280	921	250	13,005	12,856	150	44,440	87
444	222,410			3	388	83,697	450	12,280	70,907		358,630	354,618	4,012	827,371	88
20	7,038					7,526	1,619	544	5,113	250	99,086	98,548	538	152,610	89
30	16,378	1	240			11,294	8,668	166	2,400		29,556	28,666	890	93,465	90
698	245,117	604	118,000	114	18,474	67,988	5,720	4,835	57,433		1,724,513	1,711,996	12,517	2,364,963	91

TABLE 8.—MANUFACTURES IN BALTIMORE

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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
92 Painting, house, sign, etc.....	272	\$356,170	\$61,732	\$82,598	\$32,786	\$179,144	295	27	\$18,016	909	\$411,119
93 Paints.....	12	290,177	18,000	28,000	78,730	165,447	20	26	25,900	110	45,274
94 Paper hanging.....	104	230,471	40,115	66,250	6,113	117,995	111	20	13,408	309	145,530
95 Paper patterns.....	3	610			50	460	4			1	300
96 Patent medicines and compounds.....	48	990,864	50,150	114,050	77,698	748,966	50	114	176,054	485	131,520
97 Paving and paving materials.....	21	402,165	33,166	55,900	154,244	158,855	20	15	25,216	884	139,254
98 Perfumery and cosmetics.....	10	75,714			18,710	57,004	8	16	14,440	90	23,243
99 Photography.....	47	105,848	2,220	13,500	49,525	40,103	53	7	2,058	88	41,890
100 Pickles, preserves, and sauces.....	23	123,846	14,866	24,765	37,923	47,787	28	15	10,250	74	22,569
101 Plastering and stucco work.....	37	90,168	23,050	10,025	3,718	47,365	88	4	3,346	170	109,421
102 Plumbers' supplies.....	8	1,065,095	72,111	60,000	267,722	665,262		68	68,204	662	234,673
103 Plumbing, and gas and steam fitting.....	218	730,208	111,356	143,510	73,090	403,252	235	42	63,048	755	331,924
104 Pottery, terra cotta, and fire-clay products.....	9	422,339	36,100	149,029	62,664	178,946	8	26	25,793	501	199,177
105 Printing and publishing, book and job.....	142	1,285,980	25,733	43,000	659,209	557,438	175	148	133,600	1,178	505,904
106 Printing and publishing, newspapers and periodicals.....	40	1,885,181	238,513	380,238	691,497	624,933	32	384	354,112	1,153	625,135
107 Printing materials.....	4	12,000			9,500	2,500	5	2	400	21	7,293
108 Pumps, not including steam pumps.....	3	16,100			950	15,150	4	1	168	8	8,160
109 Regalia and society banners and emblems.....	6	50,215	500	900	18,305	30,510	6	14	11,690	67	20,685
110 Roofing and roofing materials.....	8	32,492	8,025	7,000	3,250	19,217	9	5	2,910	55	27,052
111 Saddlery and harness.....	78	706,622	47,682	80,000	54,245	524,695	93	59	46,215	481	150,912
112 Sausage.....	4	16,760	4,566	7,850	1,800	2,550	4			10	4,662
113 Sewing machine repairing.....	11	23,815	4,900	7,400	4,365	7,150	7	2	3,500	22	13,212
114 Ship and boat building, wooden.....	14	469,015	186,100	33,875	110,000	138,940	10	17	16,716	413	233,522
115 Shipbuilding, iron and steel.....	3	1,219,583	100,000	60,000	345,000	724,583	8	42	49,031	982	521,254
116 Shirts.....	34	1,173,989	4,000	8,000	164,005	997,984	56	128	125,651	2,475	528,750
117 Silverware.....	5	221,336	35,000	3,000	34,400	148,936	11	15	15,710	116	67,479
118 Slaughtering and meat packing, wholesale.....	40	1,121,507	81,909	244,100	147,950	647,548	63	54	43,424	437	204,094
119 Slaughtering, wholesale, not including meat packing.....	33	223,446	62,806	99,500	30,050	81,090	34	8	1,300	71	29,804
120 Soap and candles.....	5	207,332	9,913	30,000	26,690	140,729		32	23,074	126	53,338
121 Stamped ware.....	3	1,354,591	70,000	150,850	123,975	1,004,266	1	20	33,740	326	220,984
122 Stencils and brands.....	3	8,725			5,250	3,475	3	1	600	6	2,386
123 Tinsmithing, coppersmithing, and sheet-iron working.....	218	2,609,793	163,055	353,481	430,205	1,613,052	243	133	80,940	2,227	733,635
124 Tobacco, chewing, smoking, and snuff.....	5	1,305,611	107,034	353,333	536,371	805,373	8	120	259,624	2,002	564,272
125 Tobacco, cigars and cigarettes.....	316	1,365,496	168,094	219,540	65,570	921,692	360	150	104,141	2,023	664,578
126 Tools, not elsewhere specified.....	5	32,685	500	1,500	4,235	26,450	5	1	200	10	6,036
127 Trunks and valises.....	13	53,593	4,333	3,000	5,010	41,250	17	7	3,300	56	22,109
128 Umbrellas and canes.....	10	390,592	12,000	19,000	12,550	347,042	13	33	60,510	393	109,172
129 Upholstering materials.....	4	661,209	13,333	48,150	17,125	582,601	8	27	24,985	686	206,660
130 Varnish.....	3	48,604		9,000	9,456	30,148	3	9	7,264	12	5,438
131 Vinegar and cider.....	4	50,563	4,450	13,013	9,178	23,927	6	2	2,436	27	13,373
132 Watch, clock, and jewelry repairing.....	130	214,960	33,050	57,000	28,585	96,325	133	2	1,230	96	53,233
133 Window shades.....	4	58,065	1,000	1,000	2,300	53,765	3	9	9,890	33	14,540
134 Wirework, including wire rope and cable.....	12	216,840	26,900	16,200	75,094	98,146	20	15	14,225	150	59,130
135 Wood, turned and carved.....	7	29,950	2,500	17,000	6,325	4,125	8	4	2,512	23	8,952
136 All other industries <sup>1</sup> .....	120	32,021,998	3,133,043	3,252,237	4,316,510	20,770,208	106	468	522,453	6,723	2,128,221

<sup>1</sup> Embraces agricultural implements, 1; artificial limbs, 2; axle grease, 1; babbitt metal and solder, 2; bags, paper, 2; belting and hose, linen, 2; brassware, 2; brick and tile, 1; bridges, 1; buttons, 2; card cutting and designing, 1; carriage and wagon materials, 2; carriages and sleds, children's, 2; cheese, butter, and condensed milk, factory product, 2; cleansing and polishing preparations, 2; cloth, sponging and refinishing, 2; coffins, burial cases, and undertakers' goods, 1; cordage and twine, 1; cordials and syrups, 1; cork, cutting, 1; cotton goods, 2; cotton waste, 1; drug grinding, 2; dyeing and finishing textiles, 1; engraving, wood, 1; files, 2; firearms, 1; fire extinguishers, chemical, 1; fireworks, 2; galvanizing, 2; gas and lamp fixtures, 2; gas, illuminating and heating, 2; gas machines and meters, 2; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 1; hairwork, 2; hammocks, 1; hand knit goods, 2; horseshoes, factory product, 1; housefurnishing goods, not elsewhere specified, 1; ink, printing, 1; ink, writing, 1; iron and steel, forgings, 1; japanning, 1; jewelry

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns.....	678	\$6,987,957	\$524,918	\$1,371,488	\$1,678,317	\$3,413,234	734	408	\$270,753	6,148	\$2,063,834
2	Annapolis.....	91	188,195	23,485	51,019	77,897	35,344	94	12	7,120	244	101,604
3	Cumberland.....	142	2,946,748	263,134	725,217	644,255	1,309,142	151	176	131,085	1,992	815,503
4	Frederick.....	133	1,217,702	101,135	248,203	294,004	574,360	149	77	51,968	1,131	252,383
5	Hagerstown.....	203	1,375,281	85,664	169,489	355,304	764,324	223	96	52,279	1,373	502,307
6	Havre de Grace.....	38	331,464	17,500	111,850	215,115	486,999	43	21	17,150	674	332,313
7	Westminster.....	66	428,567	29,050	65,710	91,742	242,065	74	26	11,151	234	59,735

BY 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 10 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.										
896	\$109,416			13	\$1,073	\$37,729	\$21,194	\$2,593	\$8,901	\$2,041	\$258,415	\$257,414	\$1,001	\$1,016,680	92
94	41,688	9	\$2,585	7	1,000	22,148	5,895	1,349	15,401		265,238	258,566	6,672	441,744	93
294	142,576	5	1,470	10	1,481	23,010	13,071	2,177	7,162		128,490	128,171	319	427,043	94
		1	300			566	564		2		102	90	12	8,185	95
179	85,060	247	48,450	9	1,020	427,288	9,374	11,797	405,907	10	467,915	462,908	4,917	1,707,336	96
353	139,047			1	205	16,025	4,392	1,793	9,840		146,956	144,789	2,167	409,802	97
30	12,135	60	11,110			37,669	5,452	1,569	30,648		98,065	97,675	301	220,446	98
70	36,785	17	4,353	1	152	23,019	19,088	345	8,416	200	47,583	46,502	1,081	187,127	99
60	18,771	13	3,691	1	101	9,511	3,652	1,103	4,756		203,234	200,662	2,572	291,898	100
170	109,421					7,050	3,747	391	1,612	1,400	61,781	61,556	225	237,010	101
620	220,460	35	12,161	7	1,429	33,743	985	9,805	22,953		337,793	329,036	8,757	709,236	102
733	378,538	80	31,287	23	3,391	53,919	26,503	4,790	21,626	1,100	722,023	715,808	6,125	1,620,222	103
339	137,725			82	10,165	26,284	4,107	3,728	16,378	2,011	100,191	77,935	22,256	446,706	104
949	458,139	165	38,685	64	9,069	196,111	68,096	3,395	80,836	53,784	690,446	670,006	20,440	2,087,687	105
1,122	612,646	21	10,506	15	1,983	317,436	42,178	12,298	191,184	71,870	487,131	466,449	20,682	2,160,520	106
17	6,690	2	400	2	275	1,335	850	60	425		11,175	11,050	125	28,000	107
8	8,166					2,393	1,018	35	1,910		8,981	8,975	6	25,000	108
19	10,000	28	7,780	20	2,825	12,812	3,000	424	9,418		56,251	55,590	661	122,690	109
55	27,052					1,519	494	124	901		71,487	71,392	95	137,860	110
450	148,492	21	6,460	10	2,000	45,808	14,999	5,195	25,600	14	617,736	615,334	2,402	1,024,877	111
10	4,662					817		191	626		29,548	28,680	868	40,976	112
22	13,212					1,028	1,200	126	302		20,959	20,672	287	63,247	113
413	239,592					25,445	3,990	6,987	14,468		164,437	160,926	3,511	595,852	114
982	521,224					66,907	27,875	1,471	31,561	3,000	537,480	523,986	13,500	1,468,901	115
602	181,099	1,833	344,050	40	3,001	300,606	40,528	2,872	136,828	114,438	2,362,502	2,353,314	9,188	8,686,075	116
112	66,729	1	400	3	350	17,789	7,150	2,026	6,613	2,000	76,828	75,229	1,599	200,172	117
428	202,574	6	1,044	3	476	90,707	12,352	6,558	70,357	1,500	4,655,006	4,620,631	34,375	5,808,334	118
70	29,354	1	450			8,779	1,330	2,725	4,724		1,602,562	1,597,502	5,050	1,758,127	119
91	46,003	30	6,785	5	600	18,967	1,970	1,098	15,016	888	165,753	159,108	6,645	279,887	120
525	154,482	170	42,750	131	23,752	41,705		3,945	87,760		601,569	597,400	4,169	1,059,800	121
5	2,286					1,239	1,020	12	207		2,591	2,518	78	11,812	122
1,897	678,990	130	28,890	200	80,725	141,765	32,209	10,375	98,291	890	3,618,298	3,578,981	39,227	5,420,980	123
581	243,979	1,232	298,489	186	21,804	3,233,312	2,836	13,629	3,216,847		2,490,107	2,484,983	11,124	7,054,159	124
1,327	523,042	615	130,704	31	10,832	396,133	45,869	10,216	340,048		922,724	919,221	3,503	2,622,296	125
10	6,036					1,429	697	78	654		7,126	6,753	373	23,491	126
44	20,399			12	1,710	9,403	7,172	401	1,830		28,878	28,313	565	84,052	127
110	42,416	288	66,756			20,047	6,775	982	12,090	200	745,024	743,881	1,143	1,092,761	128
513	171,360	86	17,700	87	17,000	27,294	8,528	2,391	16,377		670,000	668,800	7,200	1,044,150	129
11	6,254	1	294			3,994	740	197	34,734		34,120	34,120	614	64,621	130
25	13,505	2	468			4,392	300	440	3,052		31,619	30,440	1,179	68,321	131
87	52,265			9	968	22,829	10,775	1,585	4,269	200	54,369	53,101	1,268	246,260	132
21	10,600	10	3,080	2	260	8,092	2,394	298	4,900		119,182	118,922	210	193,300	133
106	51,400	10	2,100	34	5,680	19,566	3,186	1,450	12,430	2,500	84,755	82,124	2,631	195,649	134
22	8,822			1	130	1,296	802	101	398		16,718	15,710	1,008	42,675	135
3,975	1,540,391	1,808	437,924	910	149,906	960,632	49,455	210,574	697,781	2,822	7,609,028	7,593,647	225,381	18,429,540	136

and instrument cases, 1; labels and tags, 2; lard, refined, 1; lead, bar, pipe, and sheet, 1; leather goods, 1; lumber and timber products, 1; malt, 1; millstones, 1; mirrors, 2; mucilage and paste, 2; musical instruments and materials, not specified, 2; needles and pins, 1; nets and seines, 2; oakum, 1; paper and wood pulp, 1; pens, gold, 1; photographic materials, 1; photolithography and photoengraving, 2; pipes, tobacco, 2; plated and britannia ware, 2; printing and publishing, music, 1; refrigerators, 1; rubber and elastic goods, 2; safes and vaults, 1; saws, 2; scales and balances, 1; show cases, 1; silversmithing, 1; starch, 1; stationery goods, not elsewhere specified, 1; steam packing, 1; stereotyping and electrotyping, 2; surgical appliances, 2; tin andterne plate, 2; toys and games, 2; type founding, 1; washing machines and clothes wringers, 1; watch cases, 1; woolen goods, 1.

TOWNS UNDER 20,000 IN POPULATION: 1900.

4,212	\$1,746,742	1,559	\$286,485	877	\$30,057	\$124,084	\$71,854	\$35,956	\$202,659	\$23,605	\$5,943,907	\$5,825,229	\$118,678	\$9,093,772	1
212	95,569	27	5,545	5	494	9,797	5,130	2,156	2,331	180	170,043	166,298	3,745	893,086	2
1,890	775,754	153	33,687	39	6,032	218,955	21,222	17,431	175,747	4,605	2,066,710	1,954,747	51,963	3,526,422	3
651	206,938	314	34,133	163	11,262	69,893	15,904	6,937	46,952	100	1,054,449	1,035,181	19,268	1,727,094	4
929	335,135	899	159,831	85	7,341	92,802	20,689	6,663	47,130	18,820	1,454,929	1,434,049	20,880	2,465,507	5
458	233,025	144	44,546	72	4,778	16,491	5,277	1,278	9,636	300	913,676	906,688	6,988	1,372,420	6
159	50,241	62	8,744	13	760	16,146	3,632	1,441	10,878	200	344,100	328,266	15,834	509,243	7

# MASSACHUSETTS.

Table 1 shows the manufacturing and mechanical industries of the state of Massachusetts 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 manufactur-

ing 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	29,180	26,928	14,352	13,212	8,176	8,852	8.4	87.6	8.6	61.6	17.6
Capital	\$328,264,287	\$630,032,341	\$303,806,185	\$231,677,862	\$132,792,327	\$88,940,292	30.7	107.4	31.1	74.5	49.8
Salaries of officials, clerks, etc., number	27,860	27,912	(*)	(*)	(*)	(*)	26.5				
Salaries	\$31,257,630	\$33,826,172	(*)	(*)	(*)	(*)	17.6				
Wage-earners, average number	497,448	447,270	352,255	279,880	217,421	177,461	11.2	27.0	26.1	28.5	22.5
Total wages	\$223,240,442	\$205,844,337	\$128,315,862	\$118,051,886	\$56,960,918	\$41,954,786	10.9	60.4	8.7	107.3	35.8
Men, 16 years and over	341,788	305,151	228,834	179,032	146,268	107,784	12.0	33.4	27.8	22.4	35.7
Wages	\$180,155,824	\$163,726,542	(*)	(*)	(*)	(*)	10.0				
Women, 16 years and over	143,109	133,452	105,976	86,229	71,158	69,677	7.2	25.9	22.9	21.2	2.1
Wages	\$45,630,890	\$40,647,480	(*)	(*)	(*)	(*)	12.3				
Children, under 16 years	12,556	8,667	17,445	14,119	(*)	(*)	44.9	50.3	23.6		
Wages	\$2,453,728	\$1,470,315	(*)	(*)	(*)	(*)	66.9				
Miscellaneous expenses	\$73,209,015	\$63,083,782	(*)	(*)	(*)	(*)	16.1				
Cost of materials used	\$552,717,955	\$473,199,484	\$386,972,655	\$334,413,982	\$135,053,721	\$85,856,771	16.8	22.3	15.7	147.6	57.3
Value of products, including custom work and repairing	\$1,035,193,989	\$888,160,403	\$631,135,234	\$553,912,568	\$255,545,922	\$167,743,904	16.6	40.7	13.9	116.8	62.0
Total population	2,805,346	2,238,943	1,783,085	1,457,351	1,281,036	994,514	25.3	25.6	22.4	18.4	23.8
Wage-earners engaged in manufactures	497,448	447,270	352,255	279,880	217,421	177,461	11.2	27.0	26.1	28.5	22.5
Per cent of total population	17.7	20.0	19.8	19.2	17.7	17.8					
Assessed value of real estate	\$2,247,094,547	\$1,600,137,807	\$1,111,160,072	\$901,037,841	\$475,413,165	\$349,129,932	40.4	44.0	23.3	89.5	36.2
Value of land and buildings invested in manufactures <sup>6</sup>	\$173,694,674	\$124,833,215	(*)	(*)	(*)	(*)	30.1				
Per cent of assessed value	7.7	7.8									

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

<sup>5</sup> As given in the Report of the Tax Commissioner for 1899, page 13.

<sup>6</sup> Does not include value of rented property.

Table 1 shows that there has been a considerable growth in the manufacturing and mechanical industries of Massachusetts during the half century. The population during these years increased from 994,514 to 2,805,346, or 182.1 per cent, while the average number of wage-earners employed in manufacturing establishments increased from 177,461 to 497,448, or 180.3 per cent, embracing, in 1900, 17.7 per cent of the entire population, compared with 17.8 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 623,080, or 22.2 per cent of the total population of the state. Both the greatest percentage of increase in the value of products, 116.8, and the greatest absolute increase, \$298,366,646, are shown for the decade ending with 1870. The land area of Massachusetts is 8,040 square miles, only 4 states being smaller, namely, Rhode Island, Delaware, Connecticut, and New Jersey, and yet in 1900, as in 1890, Massachusetts ranked fourth among the United States in value of manufactured products. The development of manufacturing in Massachusetts is not due to special advantages based upon the possession of raw material. The coal, iron, cotton, wool, lumber, hides, and nearly all the other materials which

are used in the great manufacturing industries are brought from without, and after transformation into finished products are, in the main, consumed in markets outside the borders of the state.

The principal advantage which the state possesses is its waterpower, and although changes in the methods of developing power have perhaps rendered this less essential than formerly, it is still an important factor. The power of the Connecticut River at Holyoke, and at Turners Falls, in the town of Montague, utilized by means of immense dams of the most permanent construction, and by a system of canals, affords in each place a succession of mill sites along the entire water frontage. The Deerfield, Millers, Chicopee, and Westfield rivers, tributaries of the Connecticut, are all noteworthy power-producing streams. At Lowell and Lawrence, upon the Merrimac, the possession of similar advantages led to the selection of these places for the installation of the factory system in the manufacture of textiles. At Fall River, the power furnished from Watuppa Pond has been an essential element in the development of that cotton manufacturing center; while upon the Blackstone River and many lesser streams throughout the state, the existence of sites naturally adapted to the erection of mills was influential in the expansion of the

woolen and cotton industries in the early part of the century, thus laying the foundation of numerous thriving industrial communities.

Transportation facilities have kept pace with industrial development. Boston, the metropolis, is connected with the West by two railway systems, and these communicate, either directly or by branches, with all of the leading industrial centers. One general system, with its various divisions, communicates with the South by way of New York, uniting important manufacturing cities and towns, while a network of main and branch lines connects the northern and eastern factory centers of the state with each other, with the seaboard, and with the railway systems leading south and west. By water transportation, also, coal and supplies of materials are brought into Boston and other seaboard cities, and thence distributed to points of consumption.

The energies of the inhabitants of Massachusetts have always been directed largely into industrial channels. The records of the Patent Office show that a very large proportion of the machines which have had so great a part in transforming industrial conditions since the introduction of the factory system, are the inventions of Massachusetts men. In colonial days much was done through public action to foster and develop local manufactures, and the impetus thus given has had its effect throughout the industrial history of the state. The Massachusetts Charitable Mechanics' Association, incorporated in 1806, was influential for many years in promoting invention and improved craftsmanship by periodic exhibitions and in other ways. The state contains two technical educational institutions of the highest class, the Massachusetts Institute of Technology, at Boston, and the Worcester Polytechnic Institute, at Worcester. The importance of both these institutions has been very great. Their trained graduates have taken positions of responsibility in local industrial affairs, but their influence is by no means confined to the state. Both institutions have received liberal grants from the state, as well as gifts from individuals, and in return free scholarships have been established extending, on certain conditions, the privileges of these institutions to worthy graduates of the public schools. The importance of manual training in an industrial commonwealth is recognized in the public school system itself, the law providing that drawing and manual training may be regularly included in the courses of instruction. This provision is generally observed in the larger towns and cities, especially in those of industrial prominence. There is also the State Normal Art School, in which the principles of design receive prominent attention, and at Lowell, Fall River,

and New Bedford there are well-equipped schools, especially devoted to technical instruction in connection with the textile industry, and receiving appropriations from the state, in addition to private bequests and donations.

The early records contain numerous allusions to bounties or other aid granted to those who would undertake the establishment of useful, productive enterprises. The exportation of machinery from England to its colonies was forbidden by law, and in 1786 Massachusetts granted financial aid to Thomas Somers, an Englishman, and to Robert and Alexander Barr, Scotchmen—all of whom were acquainted with the progress of English invention—enabling them to construct spinning machinery, which was used experimentally at East Bridgewater, under the patronage of Col. Hugh Orr, of Bridgewater. An early and imperfect form of the Arkwright machines, brought into the country by Somers, became the property of Massachusetts.<sup>1</sup>

As early as October 28, 1767, the sentiment of the citizens of Boston in favor of home industries found expression at a meeting held in Faneuil Hall, at which it was voted that on and after December 31, 1767, no one should purchase from abroad any of certain articles, among them cordage, men's and women's hats, ready-made wearing apparel, gloves, gold, silver, or thread lace of all sorts; broadcloth that cost above 10 shillings per yard; silk or cotton velvet, or silk of all kinds, for garments; or gauze, lawns, or cambrics.<sup>2</sup> In 1780 an association for making cloth was formed at Worcester; in April of that year the first piece of corduroy made in Worcester was taken from the loom.<sup>3</sup> Similar associations for the industrial development of the province were soon formed elsewhere. The attention of the people was in this way directed into industrial channels, and busy industrial communities were founded, which were destined, under the influence of the factory system, to become important manufacturing towns and cities.

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.

<sup>1</sup> Report of the Massachusetts Bureau of Statistics of Labor, 1885, page 172. Statistics of Manufactures, Massachusetts, 1898, page 219.

<sup>2</sup> Boston Town Records, 1758-1769, page 220 ff.

<sup>3</sup> Lincoln's History of Worcester, page 268.

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	31,982	\$840,281,127	84,791	499,746	\$229,348,215	\$78,850,112	\$551,251,766	\$156,053,236	\$379,866,948	\$18,831,582	\$1,038,196,393
Hand trades <sup>1</sup>	15,358	81,693,758	16,753	52,155	29,100,619	9,641,098	43,169,209	592,472	41,731,898	811,839	106,342,917
Governmental establishments	8	13,609,723	1	1,438	1,001,358	15,706	938,163	800	902,613	34,750	1,628,640
Educational, eleemosynary, and penal institutions	21	511,124	1	100	52,094	25,298	398,757	31,606	853,059	6,092	614,398
Establishments with a product of less than \$500	2,778	2,895,993	2,865	700	49,821	100,093	201,891	12,603	189,288	17,948,901	754,366
All other establishments	18,822	791,570,529	15,172	445,293	199,189,823	63,567,917	509,518,746	155,412,755	896,187,090	17,948,901	928,856,042

<sup>1</sup> Includes bicycle and tricycle repairing, 553; blacksmithing and wheelwrighting, 1,996; boots and shoes, custom work and repairing, 1,718; carpentering, 2,103; clothing, men's, custom work and repairing, 1,527; clothing, women's, dressmaking, 1,335; dyeing and cleaning, 85; furniture, cabinetmaking, repairing, and upholstering, 500; lock and gun smithing, 151; masonry, brick and stone, 759; millinery, custom work, 874; painting, house, sign, etc., 1,743; paper hanging, 98; plastering and stuccowork, 108; plumbing, and gas and steam fitting, 1,072; sewing machine repairing, 20; taxidermy, 15; typewriter repairing, 7; watch, clock, and jewelry repairing, 694.

Of the 31,982 establishments of all classes shown in this table, 18,131, or 56.7 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$107,097,313, or only 10.3 per cent of the total value of the products of the state.

In addition to the 31,982 active establishments in the state during the census year, with a capital of \$840,281,127, shown in Table 2, there were 148 idle establishments, with a capital of \$5,583,033, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Ammunition	1	\$249,500	Liquors, malt	1	\$21,500
Bookbinding and blank book making	3	14,850	Lumber and timber products	5	24,096
Boots and shoes, factory product	11	152,460	Lumber, planing mill products, including sash, doors, and blinds	4	49,720
Brick and tile	6	70,100	Marble and stone work	4	20,130
Bridges	1	75,000	Masonry, brick and stone	8	20,800
Carpentering	13	19,795	Mineral and soda waters	1	60,000
Carrriages and wagons	3	19,836	Paper and wood pulp	3	784,908
Electrical apparatus and supplies	3	327,500	Pottery, terra cotta, and fire-clay products	2	98,800
Flouring and grist mill products	4	21,825	Silk and silk goods	2	19,000
Foundry and machine shop products	6	47,100	Tinsmithing, copper-smithing, and sheet-iron working	3	16,113
Horseshoes, factory product	2	993,747	Wood, turned and carved	1	30,000
Hosiery and knit goods	2	80,000	Woolen goods	16	1,086,157
Iron and steel	1	510,000	Worsted goods	2	388,643
Iron and steel, forgings	2	94,510	All other industries	86	66,728
Iron and steel, nails and spikes, cut and wrought, including wire nails	1	38,715			
Liquors, distilled	1	281,500			

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY-ONE 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	5,570	\$578,812,222	332,232	\$143,868,269	\$43,505,464	\$381,356,715	\$672,470,907
	1890	5,699	438,298,314	295,011	126,925,067	40,931,268	327,053,169	675,226,750
Increase, 1890 to 1900		1,129	140,513,908	37,221	16,943,202	2,574,196	54,303,546	97,244,157
Per cent of increase		12.3	32.1	12.6	13.3	6.3	16.6	16.9
Per cent of total of all industries in state	1900	19.1	70.3	66.8	63.0	59.4	69.0	65.0
	1890	21.2	69.6	66.0	61.7	64.9	69.1	64.8
Boot and shoe cut stock	1900	270	5,475,277	4,890	1,699,807	390,223	14,272,487	13,285,922
	1890	288	4,774,754	4,208	1,661,846	368,541	12,338,630	15,923,650
Boots and shoes, factory product	1900	640	37,577,680	58,645	27,745,820	4,826,896	75,751,904	117,115,243
	1890	1,057	44,567,702	67,374	32,379,899	5,568,233	63,928,182	116,387,900
Boots and shoes, rubber	1900	6	13,157,321	5,250	2,456,305	1,081,132	8,837,688	16,490,015
	1890	5	8,878,775	4,932	2,089,502	452,250	6,400,882	9,792,024
Carrriages and wagons	1900	388	5,594,939	3,164	1,709,164	340,351	2,583,363	6,118,121
	1890	430	5,495,873	4,131	2,502,754	370,769	7,007,947	7,007,869
Clothing:								
	Total	1900	318	5,410,165	6,776	2,505,280	1,696,105	7,806,902
1890		265	11,846,787	8,608	3,810,997	2,633,241	12,790,368	28,106,164
Clothing, men's, factory product	1900	194	3,793,174	3,333	1,422,278	1,434,508	5,011,759	9,830,954
	1890	221	11,254,626	7,283	2,874,880	2,521,168	11,865,905	21,242,647
Clothing, women's, factory product	1900	119	1,616,991	3,443	1,083,002	261,597	2,795,143	5,201,650
	1890	44	592,161	1,325	486,117	112,078	924,463	1,863,517

<sup>1</sup> Decrease.

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY-ONE LEADING INDUSTRIES—Con. inued.

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.			
Confectionery	1900	219	\$2,212,380	2,942	\$1,046,114	\$417,846	\$4,083,068	\$7,014,532
	1890	218	1,560,049	1,994	728,666	278,433	3,164,741	5,291,844
Cordage and twine	1900	19	7,697,434	3,303	1,100,990	418,861	6,527,318	9,635,571
	1890	32	8,168,593	3,351	1,097,903	372,447	7,088,142	10,510,530
Electrical apparatus and supplies	1900	54	8,250,612	5,202	2,714,449	454,008	5,250,293	10,490,361
	1890	26	5,582,175	2,581	1,294,523	388,810	2,488,390	5,762,509
Foundry and machine shop products	1900	825	62,498,980	32,234	17,862,854	3,535,269	21,857,406	56,290,159
	1890	711	36,621,187	23,379	13,533,763	3,040,866	14,447,803	38,906,630
Furniture, factory product	1900	120	10,987,220	6,092	2,925,831	1,105,730	4,557,565	11,244,503
	1890	136	3,457,794	3,410	1,999,256	341,571	2,663,447	6,166,522
Iron and steel	1900	8	13,738,593	6,125	3,403,827	1,001,756	7,542,888	13,491,159
	1890	15	8,890,555	5,210	2,469,075	179,970	6,951,018	11,201,149
Jewelry	1900	138	4,917,105	5,696	2,780,993	278,510	4,390,447	10,315,334
	1890	106	4,276,610	3,503	1,819,821	405,526	1,863,444	5,507,415
Leather, tanned, curried, and finished	1900	119	15,317,940	7,010	3,379,693	662,553	19,793,757	26,067,714
	1890	194	11,611,393	7,725	4,215,725	849,589	19,962,738	27,771,815
Liquors, malt	1900	40	18,136,623	1,651	1,340,412	4,731,540	2,843,050	11,255,613
	1890	26	6,003,344	818	613,070	1,320,173	2,064,079	8,856,438
Lumber:								
Total	1900	696	10,373,208	5,202	2,559,154	678,520	7,210,172	12,818,511
	1890	652	9,845,375	6,519	3,221,921	645,229	7,024,008	13,923,708
Lumber and timber products	1900	553	6,253,171	2,768	1,215,088	297,759	3,574,418	6,526,230
	1890	483	5,135,800	3,000	1,042,508	321,091	2,719,117	5,211,607
Lumber, planing mill products, including sash, doors, and blinds	1900	143	4,120,037	2,434	1,344,066	280,761	3,635,754	6,292,231
	1890	164	4,709,515	3,519	2,179,413	324,138	4,304,591	8,112,101
Paper and wood pulp	1900	93	25,692,922	9,001	3,933,400	1,693,505	11,918,802	22,141,461
	1890	85	22,467,036	7,817	3,420,459	1,832,763	12,210,458	21,524,173
Printing and publishing:								
Total	1900	931	19,325,956	10,859	6,675,723	5,508,817	6,822,951	28,994,580
	1890	813	12,206,449	8,482	5,012,310	4,090,183	4,339,098	18,918,942
Book and job	1900	585	8,333,693	5,427	2,906,519	2,206,995	2,901,286	12,199,580
	1890	404	4,674,622	3,008	1,923,606	1,020,004	1,936,768	6,899,236
Newspapers and periodicals	1900	306	10,392,258	5,432	3,769,204	3,301,822	3,921,665	16,765,100
	1890	409	7,531,827	4,374	3,088,704	3,070,134	2,902,340	12,019,706
Rubber and elastic goods	1900	70	11,818,650	5,044	2,401,954	652,939	3,554,422	13,885,059
	1890	50	6,836,190	3,472	1,367,634	594,527	5,311,330	8,518,012
Slaughtering:								
Total	1900	22	11,314,075	2,748	1,313,077	591,102	28,040,069	31,633,433
	1890	24	7,187,735	1,779	826,409	497,382	16,372,177	20,221,045
Slaughtering and meat packing, wholesale	1900	11	9,016,672	2,337	1,113,943	464,526	24,603,698	27,505,693
	1890	14	6,599,248	1,548	665,513	470,515	13,135,256	16,632,851
Slaughtering, wholesale, not including meat packing	1900	11	2,297,403	411	204,134	126,576	3,436,371	4,127,735
	1890	10	583,487	231	160,306	26,867	3,136,921	3,528,794
Sugar and molasses, refining	1900	7	13,974,045	502	352,059	411,754	19,170,246	19,626,332
	1890	4	1,862,275	204	115,629	3,768,036	12,842,736	16,875,638
Textiles:								
Total	1900	512	274,332,129	149,346	63,946,858	13,122,047	114,039,362	214,600,930
	1890	582	216,157,663	125,514	43,243,995	12,992,734	108,636,492	130,552,533
Carpets and rugs, other than rag	1900	8	9,400,329	4,480	1,720,289	427,241	3,089,045	6,966,237
	1890	7	8,676,924	5,109	1,816,039	367,164	4,731,873	7,275,009
Cotton goods, including cotton small wares	1900	177	156,289,451	92,515	32,478,697	7,275,111	54,389,045	111,125,175
	1890	137	123,838,337	75,544	25,113,365	6,675,285	56,586,233	100,202,332
Dyeing and finishing textiles	1900	37	15,206,200	4,678	2,031,015	366,829	3,110,910	3,863,290
	1890	33	11,996,154	4,270	1,809,787	369,669	2,801,364	6,496,215
Felt goods	1900	7	1,333,640	404	180,795	67,612	953,203	1,526,330
	1890	7	731,978	326	120,633	29,836	637,923	918,390
Hosiery and knit goods	1900	54	6,233,672	6,667	2,091,253	523,103	2,910,640	6,620,237
	1890	74	4,407,940	4,562	1,392,630	315,736	2,552,705	5,032,037
Shoddy	1900	29	709,294	307	127,715	50,027	635,123	933,139
	1890	29	902,350	406	152,613	62,687	1,170,868	1,614,459
Silk and silk goods	1900	20	5,649,733	3,110	1,110,324	332,745	3,323,663	5,957,532
	1890	20	3,363,296	2,993	1,033,234	484,390	3,251,393	5,557,569
Wool hats	1900	4	402,032	541	273,129	97,319	537,902	1,103,003
	1890	7	1,043,590	1,017	433,351	79,247	329,263	1,700,436
Woolen goods	1900	131	33,196,903	17,717	6,323,051	1,745,199	13,273,424	30,833,104
	1890	165	34,911,137	19,452	7,117,046	2,613,073	21,815,199	35,771,161
Worsted goods	1900	46	45,790,300	13,867	7,055,535	1,631,361	25,315,707	40,557,333
	1890	33	21,204,909	11,335	4,239,647	1,491,042	14,259,116	21,933,775

The 21 leading industries of the state in 1900, as shown in Table 3, embraced 5,570 establishments, or 19.1 per cent of the total number in the state; used a capital of \$578,812,222, or 70.8 per cent of the total; gave employment to 332,232 wage-earners, or 66.8 per cent of the total number; and paid \$143,868,269, or 63 per cent of the total wages. The value of their products was \$672,470,907, or 65 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 512 establishments reported in 1900 gave employment to 149,346 wage-earners, or 30 per cent of the wage-earners employed in the state, and the products were valued at \$214,600,980, or 20.7 per cent of the total value of the products of the state. In 1890 there were 562 establishments, 125,514 wage-earners, and products valued at \$186,552,533. The increase in the value of products during the decade was \$28,048,447, or 15 per cent. In the manufacture of textiles Massachusetts has long ranked first among the United States. In 1900 its textile products exceeded in value those of Pennsylvania, the state ranking second, by \$55,818,893, or 35.2 per cent. The subdivisions of the textile industry, mentioned in the order of the value of products, are: Cotton goods, including cotton small wares; worsted goods; woolen goods; dyeing and finishing textiles; carpets and rugs, other than rag; hosiery and knit goods; silk and silk goods; felt goods; wool hats; and shoddy.

There were 177 establishments engaged in the manufacture of cotton goods, including cotton small wares, in 1900, with 92,515 wage-earners, and products valued at \$111,125,175. In 1890 there were 187 establishments, 75,544 wage-earners, and products valued at \$100,202,882. The increase in the value of products during the decade was \$10,922,293, or 10.9 per cent.

The total number of spindles in the cotton industry of the state in 1900 was 7,784,687, as against 5,824,518 in 1890, an increase of 1,960,169, or 33.7 per cent. This was 40.6 per cent of the total increase in the United States. The looms in 1900 aggregated 179,582, as compared with 133,227 in 1890, an increase of 34.8 per cent. In 1900 Massachusetts had 41 per cent of all spindles and 39.8 per cent of all looms employed in the cotton factories of the United States. The state was first in rank among the United States in the manufacture of cotton goods, having held that position since the beginning of the industry in this country. In 1900 the value of the products of its cotton mills was 33.2 per cent of the value of all the cotton goods manufactured in the United States; the corresponding percentage for South Carolina, the state second in rank, was 8.9.

The production of the finer kinds of cotton goods shows a gratifying increase. Fancy woven fabrics increased from 59,061,558 square yards in 1890 to 137,064,111 square yards in 1900, or 132.1 per cent, while in the United States exclusive of Massachusetts the increase was only 47.5 per cent. Of the 268,852,716 square yards of napped fabrics made in the United States in 1900, Massachusetts produced

137,199,384 square yards, or 51 per cent. Although the increase in the state in ticks, denims, and stripes was slight—from 61,192,423 to 63,794,395 square yards, or 4.3 per cent—the increase in the United States exclusive of Massachusetts was only 2 per cent. The increase in the production of cotton duck in the state was from 6,174,332 to 17,903,957 square yards, or 190 per cent. Of twills and sateens made in the United States in 1900, Massachusetts produced 86,668,240 square yards, or 36.7 per cent. The manufacture of ginghams decreased in the state, and only slightly increased in the United States. The production of print cloths increased from 610,200,536 square yards in 1890 to 927,405,189 square yards in 1900, or 52 per cent, and this quantity was 58.6 per cent of all the print cloths made in the United States. In corduroy, cotton velvet, and plushes, and mosquito and other nettings, not reported in 1890, the quantity produced in Massachusetts reached in 1900 an aggregate of nearly four million square yards.

The power loom, which revolutionized the cotton industry in the United States, was first constructed by Francis C. Lowell, of Boston, and Paul Moody, of Amesbury.<sup>1</sup> The fact that the power loom was in successful operation in Great Britain was known in the United States, but it was difficult to obtain any reliable knowledge of its construction, because of the jealousy of the manufacturers. Exportations of machinery were also carefully restricted. Mr. Lowell went to Edinburg in 1811 and then to Manchester, obtaining sufficient information to enable him, upon his return to Massachusetts in 1813, to secure the construction of the power loom, which has accomplished so much for the cotton manufacture of the United States. It was first put into operation at Waltham in 1814.<sup>2</sup> In England a patent for a power loom had been granted in 1785 to Edmund Cartwright, but it can not be said that power-loom weaving was successfully established until 1804, for not until that year was the necessary auxiliary machinery constructed, or the practical skill necessary for the business acquired.

The first cotton mill in the United States was built at Beverly, in 1788. In 1806 or 1807 an old woolen mill at Byfield was transformed into a cotton mill, with English machinery, and the manufacture of warp yarn and wicking was begun. Later, the manufacture of tickings, coarse ginghams, and sheetings was established, all being woven on hand looms. At about the same date Seth Bemis, of Watertown, began the production of cotton duck.<sup>3</sup> Between 1806 and 1814, 50 companies were incorporated in Massachusetts, principally for producing cotton and woolen goods, and in 1815 there were 57 cotton mills in the state, with 46,650 spindles.<sup>3</sup> In 1813 Dexter Wheeler and others established the manufacture of cotton cloth, and in 1820 the company was incorporated as the Fall River Manufactory. In 1813 also the Troy Cotton and Woolen Manufactory was established, and on February 13, 1813,

<sup>1</sup> Statistics of Manufactures, Massachusetts, 1898, page 221 ff.

<sup>2</sup> Cotton Manufacture in the United States, by Samuel Batchelder, page 61 ff.

<sup>3</sup> Census of Providence, by Stone.

the Boston Manufacturing Company was incorporated by special act of legislature. This corporation erected at Waltham a large mill containing 1,700 spindles in which all processes of manufacture were carried on under one roof, the first instance of the kind in the United States. In 1824 the Hamilton Company was organized at Lowell. This company was the first to apply the power loom to the manufacture of twilled and fancy goods and was the first to manufacture cotton drills. Its print works went into operation in 1828, but print works had been erected in Lowell six years earlier.<sup>1</sup>

The production of sail duck and other grades of linen fabrics was introduced early, but subsequent to 1810 the introduction of cotton goods superseded that of linen to a considerable extent. In 1835 Smith, Dove & Co. began the manufacture of yarn, thread, and twine at Andover. In 1846 Henry H. Stevens, of Webster, began the production of linen goods, receiving, three years later, the gold medal of the American Institute for the best piece of American linen spun by machinery and woven on the power loom. In 1852 the American Linen Manufacturing Company of Fall River was established, and was the first and only regularly equipped manufactory of linen, on a large scale, from long-line flax.<sup>2</sup>

There were 45 establishments engaged in the manufacture of worsted goods in 1900, with 18,867 wage-earners, and products valued at \$40,557,863. In 1890 there were 33 establishments, 11,835 wage-earners, and products valued at \$21,933,775. The increase in the value of products during the decade was \$18,623,588, or 84.9 per cent.

In 1900 Massachusetts led all the other states in the manufacture of worsted goods, and for the first time the value of the products of the worsted mills exceeded that of the products of the woolen mills. The increase in the manufacture of worsted goods in the United States, for the decade ending with 1900, was so great that the total value of products was \$1,884,186 more than the total value of products of the woolen mills, although in 1890 the value of the products of the woolen mills exceeded that of the worsted mills by \$54,383,325. This shows the growing importance of the worsted industry. In Massachusetts the increase in the value of products during the decade was the phenomenal one of 84.9 per cent; in the United States as a whole it was 51.9 per cent, and, exclusive of Massachusetts, only 39.3 per cent. The absolute increase in Massachusetts during the decade ending in 1890 was \$11,467,759, and for the decade ending in 1900 it was \$18,623,588. The capital has more than doubled since 1890, increasing from \$21,204,909 to \$45,790,300, or 115.9 per cent. In 1900 it was 34.6 per cent of the total capital in the United States invested in this manufacture, compared with 31.1 per cent in 1890. In 1900, 70,078,969 square yards of cloth were made in its worsted mills, which was an increase from 43,579,321 square yards in 1890, or 60.8 per cent. The quantity produced in 1900 was 29.5 per cent of the products of all

the worsted mills of the United States in that year. Of worsted coatings, etc., for men's wear, the state in 1900 manufactured 21,180,544 square yards, or 42.2 per cent of all such goods made in the United States; of linings, Italian cloths, etc., 6,302,534 square yards, or 90.3 per cent of all made in the United States; and of worsted dress goods, 13,026,286 square yards, or 23.9 per cent of all made in the United States.

In the test of machinery the state makes a still better showing. The increase in the number of spindles in the worsted mills in the United States during the last decade was 81.6 per cent; in Massachusetts the increase was from 204,510 in 1890 to 429,526 in 1900, or 110 per cent. The increase in the number of looms in the United States was 38.5 per cent, while in Massachusetts it was from 6,488 to 9,584, or 47.7 per cent. In 1900 the state had 31.3 per cent of all the spindles and 36.3 per cent of all the looms employed in the worsted mills of the United States; in 1890 the corresponding percentages were 27.1 and 34.1, respectively. The state was first in 1900 in number of combing machines and second in carding machinery. Of the average number of wage-earners employed in worsted mills of the United States, Massachusetts had 33.1 per cent in 1900, compared with 27.6 per cent in 1890.

For many years the worsted manufacture was restricted, in Europe as well as in the United States, to goods intended for women's wear. About 1860 French and English manufacturers began to apply the process to goods for men's wear. The first American whose attention was attracted to the manufacture was E. R. Mudge, of Boston, one of the United States commissioners to the Paris Exposition of 1857, and also a director and the selling agent of the Washington mills at Lawrence. The French worsteds exhibited at the exposition were made of short-stapled merino wools. Upon his return to the United States, Mr. Mudge found that the Ohio merino wools were well adapted to the new manufacture, and at once sent to France for combing machines to be placed in the Washington mills. Within a few months the worsted goods of this mill, the first of the kind to be made in the United States, were on the market and selling as French-made goods. In 1867 American wool manufacturers, as a class, realized that they had a new field for their efforts. Other New England mills followed the example of those of Massachusetts.<sup>3</sup> In 1869 light-weight suitings for men's wear, made in the United States, were first put on the market in quantity, but it was not until late in 1870 or early in 1871 that heavy-weights were manufactured here.<sup>4</sup> The tendency since 1870 has been steadily in favor of the increase of the worsted manufacture, and in no other state, during the past decade, has this increase been so great as in Massachusetts.

There were 131 establishments engaged in the manufacture of woolen goods in 1900, with 17,717 wage-earners, and products valued at \$30,888,104. In 1890 there were

<sup>1</sup> Statistics of Manufactures, Massachusetts, 1898, page 221.

<sup>2</sup> *Ibid.*, page 229.

<sup>3</sup> The New England States, edited by William T. Davis, Vol. I, pages 241 and 242.

<sup>4</sup> Eleventh Census of the United States, Manufacturing Industries, Part III, page 57.

165 establishments, 19,452 wage-earners, and products valued at \$35,771,161. The decrease in the value of products during the decade was \$4,883,057, or 13.7 per cent.

Massachusetts was first in 1900 and also in 1890 in the manufacture of woolen goods. The rise of the manufacture of worsted goods has been accompanied by a decline in that of woolen goods in Massachusetts, as in the United States at large; but in all important particulars, the proportion of the industry carried on in that state in 1900 was greater than in 1890. The state in 1900 made 26.1 per cent in value of all the goods made in the woolen mills of the United States, compared with 26.8 per cent in 1890. In capital invested in woolen mills the state in 1900 had 26.7 per cent of that in the United States, compared with 26.7 per cent in 1890; and in number of wage-earners, 25.7 per cent in 1900, compared with 25 per cent in 1890. The quantity of worsted goods made in woolen mills has increased since 1890. Massachusetts woolen mills in 1900 manufactured 824,613 square yards of worsted coatings, or 22.8 per cent of the quantity made in these mills in the United States, compared with 20.3 per cent in 1890. Of worsted dress goods, 1,086,359 square yards were made in 1900, or 33.6 per cent of the quantity manufactured in the United States, while at the census of 1890 none of this variety of goods was returned as made in the woolen mills of Massachusetts.

The first attempt at woolen goods manufacture was at Rowley, in Essex county, in 1643. Various other mills followed, notably at Watertown, in 1662; at Dedham, in 1681; at Pittsfield, in 1767; at Stockbridge, in 1788; and at Newbury, in 1794. This last was the first incorporated woolen mill built in Massachusetts. The wool-card machinery devised by Amos Whittemore as early as 1797 transformed the woolen industry. The inventions of John Goulding and others also revolutionized methods in the carding department. The first cloth mill of considerable size in the United States was erected at Pittsfield, in 1812, by L. Pomeroy.<sup>1</sup> In February, 1812, in view of the approaching state of war, the legislature sent a resolution to the Senate of the United States, expressing its confidence in the ability of the citizens of Massachusetts to supply by contract all the blankets and clothing that might be needed in any contingency, and representing that these could be furnished "mostly if not altogether" from factories within the state.<sup>2</sup> Spinning jennies operated by hand are said to have been in operation at Pittsfield in 1806, and by waterpower at Uxbridge in 1814 or 1815. An early form of power loom for broadcloth, built at Williamsburg, Mass., went into operation at Pittsfield about 1826.<sup>3</sup> "Not a yard of fancy wool fabrics," says Samuel Lawrence, "had ever been woven by the power loom in any country, till done by William Crompton, at the Middlesex Mills, Lowell, in 1840."<sup>4</sup>

<sup>1</sup>Statistics of Manufactures, Massachusetts, 1898, pages 224 and 225.

<sup>2</sup>Legislative Resolves, State of Massachusetts, 1810-1812, page 333.

<sup>3</sup>Bulletin of National Association of Wool Manufacturers, 1901, pages 256 and 278.

There were 37 establishments engaged in the dyeing and finishing of textiles in 1900, with 4,678 wage-earners, and the work done was valued at \$8,868,290. In 1890 there were 33 establishments and 4,270 wage-earners, and the work done was valued at \$6,496,215. During the decade the increase in value of work done was \$2,372,075, or 36.5 per cent.

There were 8 establishments engaged in the manufacture of carpets and rugs, other than rag, in 1900, with 4,480 wage-earners, and products valued at \$6,966,237. In 1890 there were 7 establishments, 5,109 wage-earners, and products valued at \$7,275,009. The decrease in the value of products during the decade was \$308,772, or 4.2 per cent.

Erastus B. Bigelow, of Massachusetts, early devised a power loom for weaving knotted counterpanes, and another for making coach lace. Later he made a written contract to furnish a company at Lowell with power looms for ingrain carpeting, before he had even made a model or a drawing of the machine. Afterwards Mr. Bigelow introduced the Brussels carpet loom. Carpet weaving in a small way was begun at Worcester in 1804; and the Lowell Manufacturing Company was incorporated in 1828, running about seventy carpet looms in addition to its cotton looms. Later, this company, under the Bigelow patents, was the first to manufacture carpeting successfully by power looms. In 1848 Mr. Bigelow and others organized the Bigelow Carpet Company at Clinton, making 5-frame Brussels, Wilton, and tapestry carpets.<sup>5</sup>

There were 54 establishments engaged in the manufacture of hosiery and knit goods in 1900, with 6,667 wage-earners, and products valued at \$6,620,257. In 1890 there were 74 establishments, 4,562 wage-earners, and products valued at \$5,082,087. The increase in the value of products during the decade was \$1,538,170, or 30.3 per cent. The only stocking factory in the United States in 1831 was that of the Newburyport Hose Manufacturing Company, although early patents to Massachusetts citizens for stocking looms and knitting machines are recorded. In 1837 William and Nathan Appleton, Benjamin R. Nichols, and associates began the manufacture of knit hose and shirts at Lowell.<sup>6</sup>

There were 20 establishments engaged in the manufacture of silk and silk goods in 1900, with 3,110 wage-earners, and products valued at \$5,957,532. In 1890 there were 20 establishments, 2,993 wage-earners, and products valued at \$5,557,569. The increase in the value of products during the decade was \$399,963, or 7.2 per cent. Jonathan H. Cobb, of Dedham, was a pioneer in the silk industry of the United States. In 1790 sewing silk was made in Worcester county and elsewhere in the state, and the manufacture of lace of various grades, especially coach lace, was thriving at Ipswich, in Essex county, and at other places.<sup>7</sup>

There were 7 establishments engaged in the manufacture

<sup>4</sup>Bulletin of National Association of Wool Manufacturers, 1901, pages 278 and 279.

<sup>5</sup>Statistics of Manufactures, Massachusetts, 1898, page 227.

<sup>6</sup>Ibid., page 225.

<sup>7</sup>Ibid., page 227.

of felt goods in 1900, with 464 wage-earners, and products valued at \$1,526,830. In 1890 there were 7 establishments, 326 wage-earners, and products valued at \$918,890. The increase in the value of products during the decade was \$607,940, or 66.2 per cent.

There were 4 establishments engaged in the manufacture of wool hats in 1900, with 541 wage-earners, and products valued at \$1,103,003. In 1890 there were 7 establishments, 1,017 wage-earners, and products valued at \$1,700,486. The decrease in the value of products during the decade was \$597,483, or 35.1 per cent.

There were 29 establishments engaged in the manufacture of shoddy in 1900, with 307 wage-earners, and products valued at \$988,189. In 1890 there were 29 establishments, 406 wage-earners, and products valued at \$1,614,459. The decrease in the value of products during the decade was \$626,270, or 38.8 per cent.

The factory manufacture of boots and shoes ranks second among the industries of the state, with 640 establishments, 58,645 wage-earners, and products valued at \$117,115,243. In 1890 there were 1,057 establishments, 67,374 wage-earners, and products valued at \$116,387,900. The increase in the value of products during the decade was \$727,343, or six-tenths of 1 per cent. Allied to the factory manufacture of boots and shoes is the manufacture of boot and shoe cut stock, with 270 establishments, 4,390 wage-earners, and products valued at \$18,238,922. In 1890 there were 288 establishments, 4,208 wage-earners, and products valued at \$15,923,650. The increase in the value of products during the decade was \$2,315,272, or 14.5 per cent.

Massachusetts ranked first in the United States in 1900 in the factory manufacture of boots and shoes—a rank it has held for many years. In this manufacture, as in that of cotton goods, the state has been unapproached. In 1900 it manufactured 44.9 per cent of the total value of the factory boot and shoe products of the United States, while the state second in rank—New York—turned out 9.8 per cent of these products. The first 3 cities in the United States, ranked by the value of their boot and shoe products, are Brockton, Lynn, and Haverhill, all in Massachusetts, while other Massachusetts cities are well up in the list. Brockton's value of products in 1900 exceeded that of the city fourth in rank—Cincinnati, Ohio—by \$11,055,973, or 125.8 per cent. There were employed in the state in 1900, 41 per cent of the average number of wage-earners in the factory manufacture of boots and shoes in the United States, and their wages amounted to 46.9 per cent of the total wages. Of these wage-earners 66.5 per cent were men; 31.8 per cent women; and only 1.7 per cent children, while the percentages for the whole industry in the United States were 63.8, 33, and 3.2, respectively.

The consumption of shoes has increased largely throughout the United States since the industry was established in Massachusetts. Rival factories have sprung up all over the Union, but Massachusetts continues to be the great center of the industry. From the earliest years Lynn has been a center of the boot and shoe manufacture. The first

shoemakers there were Philip Kertland and Edmund Bridges, who came to the colony in 1635,<sup>1</sup> and the business increased thereafter with the growth of the town in population, and was given great impetus after 1750, when John Adam Dagr, a Welshman, succeeded in producing shoes at Lynn equal to the best made in England.<sup>2</sup> Leather heels were introduced in place of wood about 1800, the use of morocco leather having been begun by Ebenezer Breed seventeen years earlier.<sup>3</sup> Many of the towns in eastern Middlesex, Essex, and Norfolk counties became more or less interested in shoemaking. It was not uncommon for farmers and others actively engaged in other employment during the summer to devote the winter to shoemaking, and before the introduction of machinery under the modern factory system, hundreds of women were employed in binding shoes at their homes.

The entire shoe was formerly made by one artisan. A small group of men, working together in a little one-story shop connected with or adjacent to the dwelling, was a characteristic sight in many eastern Massachusetts towns in the first half of the century. Piecework was the custom, and it still prevails. In early times workmen were paid 15, 20, 25, or 30 cents per pair, according to the kind of shoe, and even higher prices for extra quality work. The average workman by twelve hours' labor could earn about a dollar. Women closers and binders working by hand could average about twenty cents a day. Men living in towns adjacent to Lynn would walk to their employers' place of business for stock, and in about a week return the finished shoes, frequently receiving their wages in store orders. The wages earned continually fluctuated, being always subject to individual bargains with employers.<sup>4</sup>

In 1818 Joseph Walker, of Massachusetts, invented shoe pegs to be used as a substitute for hand sewing in the boot and shoe industry. In 1851 A. C. Gallahue produced a shoe-pegging machine—afterwards improved by E. Townsend and B. F. Sturtevant, of Boston<sup>5</sup>—and still later nailing and cable-screw machines. Finally the McKay sole-sewing machine, attributed to McKay, but representing, in its perfected form, the combined ideas of several other Massachusetts inventors, was a transforming factor in the boot and shoe industry. This was adopted in 1861. The introduction of machinery was practically complete by 1865. The industry is now conducted in large, well lighted, thoroughly ventilated factories, equipped with a number of ingenious inventions, each shoe being the result of the successive operations of numerous workmen. The cities especially devoted to the industry are Lynn, Brockton, and Haverhill, although there are important establishments elsewhere.

There were 825 establishments engaged in 1900 in the manufacture of foundry and machine shop products, the industry third in rank, with 32,234 wage-earners, and prod-

<sup>1</sup> History of Lynn, by A. Lewis and J. R. Newhall, page 88.

<sup>2</sup> Ibid., page 90.

<sup>3</sup> Ibid., page 91.

<sup>4</sup> Report of the Massachusetts Bureau of Statistics of Labor, 1885, page 183.

<sup>5</sup> Progress of the World, by M. R. Gately, page 333.

ucts valued at \$56,290,159. In 1890 there were 711 establishments, 23,379 wage-earners, and products valued at \$38,906,680. The increase in the value of products during the decade was \$17,383,479, or 44.7 per cent.

Certain towns in Bristol and Plymouth counties early became extensively engaged in the manufacture of iron castings, hollow ware, and cooking and heating apparatus. In 1646 the Colony Court granted a monopoly for fourteen years "for the making of engines for mills, to go by water, \* \* \* and for the making of scythes and other edged tools" to Joseph Jenks, an ingenious worker in metals, who is said to have come to Massachusetts with Winthrop.<sup>1</sup> Of Jenks, Lewis, the historian of Lynn, remarks: "Joseph Jenks deserves to be held in perpetual remembrance in American history as being the first founder who worked in brass and iron on the Western Continent."<sup>2</sup> Wire-drawing and the manufacture of wool cards were industries to which the Massachusetts colonists gave early attention. Hugh Orr is said to have made, in 1748, the first musket ever made in America,<sup>3</sup> and his son established the manufacturing of plate shovels, afterwards a distinctive Massachusetts industry. Nail making in Plymouth county was an important branch of the metal industry before the close of the Eighteenth century. Jacob Perkins, of Newburyport, invented a nail-making machine which he patented in 1795. In Worcester county the development of the manufacture of hardware, tools, machinery, etc., began at an early date, and culminated in the extensive metal industries of the modern city of Worcester. The extension of the textile, boot and shoe, and other important industries, under the era of machinery, has stimulated the expansion of skilled metal working, including the production of artisans' tools, and of machinery of all kinds.

There were 22 establishments engaged in the slaughtering industry in 1900, with 2,748 wage-earners, and products valued at \$31,633,483. In 1890 there were 24 establishments, 1,779 wage-earners, and products valued at \$20,221,645. The increase in the value of products during the decade was \$11,411,838, or 56.4 per cent.

There were 981 establishments engaged in printing and publishing in 1900, with 10,859 wage-earners, and products valued at \$28,964,680. In 1890 there were 813 establishments, 8,482 wage-earners, and products valued at \$18,918,942. The increase in the value of products during the decade was \$10,045,738, or 53.1 per cent.

The first printing done in the American colonies was at Cambridge by one Daye, who in January, 1639, printed the Freeman's Oath. The press used was brought from England in 1638 by Rev. Mr. Glover. Daye issued in 1640 the Bay Psalm Book, the first book published in the colonies. In 1649 he was succeeded by Samuel Green, and a new press was sent from England in 1655 for the printing of Eliot's Indian Bible. It was in Cambridge and

Boston that all the printing in the colonies was done for nearly forty years. In 1672 the first copyright was granted to John Ussher, of Boston, for a revised edition of the laws of the colony. Previous to 1664 the General Court had restricted the privilege of printing to Cambridge; but in 1674, this restriction having been removed, John Foster established the first press set up in Boston. In 1681 he was succeeded by a Mr. Sewall, and on September 25, 1690, Richard Pierce published the first newspaper in America, which was, however, suppressed by the General Court. In April, 1704, appeared the Boston News-Letter, published by John Campbell, and this was the first successful newspaper in America. It was followed, December 21, 1719, by the Boston Gazette.<sup>4</sup> Much fine work is done in printing and publishing throughout Massachusetts, and many notable books and magazines are the products of the various presses of the state. The increase in the value of products during the decade is a notable one.

There were 119 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 7,010 wage-earners, and products valued at \$26,067,714. In 1890 there were 194 establishments, 7,725 wage-earners, and products valued at \$27,771,815. The decrease in the value of products during the decade was \$1,704,101, or 6.1 per cent—due to the transfer of the production of certain kinds of leather to the West, where tan bark is abundant.

There were 93 establishments engaged in the manufacture of paper and wood pulp in 1900, with 9,061 wage-earners, and products valued at \$22,141,461. In 1890 there were 85 establishments, 7,817 wage-earners, and products valued at \$21,524,173. The increase in the value of products during the decade was \$617,288, or 2.9 per cent.

Massachusetts has long been first in the manufacture of fine writing papers. In 1900 the value of such product was \$11,298,628, or 71.1 per cent of that produced in all the mills of the United States. In book paper it was also first, with a value of \$5,501,788, or 22.1 per cent of the total for the United States. Much of the history of paper making in the United States is the history of the industry in Massachusetts. Although the state can not claim that the first paper mill in the United States was established within its borders, the manufacture of paper began there very early. On September 13, 1728, the General Court passed a grant for the encouragement of a paper mill established on the Neponset River at Milton, 7 miles from Boston. Benjamin Faneuil, the father of Peter, of Faneuil Hall fame, was interested in it. The grant gave the company the sole right to manufacture paper in the province for ten years, but the production of certain quantities and kinds of paper was required. Paper was then made by hand, and the people were, by advertisement, requested to save their rags. This establishment had to be closed a number of years because of a lack of good workmen, but in 1760 the mill was again started, the new proprietor hav-

<sup>1</sup> Massachusetts Bay Records, Vol. II, page 149; Vol. III, page 65.

<sup>2</sup> History of Lynn, page 208.

<sup>3</sup> History of American Manufactures, by J. L. Bishop, Vol. I, page 487.

<sup>4</sup> Eighth Census of the United States, Manufactures, Introduction, pages cxxxiv and cxxxv.

ing secured the services of a British soldier named Hazleton, who was a practical paper maker. Before 1776 there were 4 mills at Milton, out of 7 accounted for in all New England.

The Fourdrinier machine, an English improvement of a French inventor's idea, did not come into existence until 1804, and was not used in the United States until about 1825, when a machine imported from England was placed in a mill at Springfield. Four years later there were 6 of these machines in the state, and in 1850 automatic machinery was used in all but 2 paper mills of the United States. In 1840 Massachusetts had the largest production of any state, the value being \$1,659,930. In 1845 it was \$1,750,273 and in 1855, \$4,141,847.<sup>1</sup> In the latter year there were 20 mills in the single town of Lee.

In 1802 the first paper mill in Berkshire county, the "Old Berkshire," went into operation at Dalton, which is now one of the great fine-paper making centers of the United States. It was built by Wiswell, Crane, and Willard, and among the present-day owners of the new mill, built in 1872 on the site of the old one, are the grandsons of Zenas Crane. Zenas Crane sold his interest in the "Old Berkshire Mill," and in 1810 bought in the "Old Red Mill." This was burned in 1879, but rebuilt of stone and named the "Pioneer Mill." It is still in the possession and active management of the Crane family. The "Government Mill," at Pittsfield, near the Dalton line, is devoted wholly to the manufacture of paper needed by the United States Government for national bank bills, United States bonds, certificates, and treasury notes. Still another mill in this section makes ladies' fine stationery. Others produce writing paper of the first quality, and one of them makes parchment and bond paper for general use. The introduction of silk threads into the fiber of bank-bill paper, to prevent counterfeiting, was the ingenious invention of Zenas Marshall Crane in 1849.<sup>2</sup>

The first mill in South Lee, where at one time more paper was made than in any other town in the United States, was established in 1806 by Samuel Church. About the same time a mill was erected on the north side of the Chicopee River. This, about 1825, became the property of David Ames, who introduced improved machinery, and became the largest manufacturer of paper in the United States.<sup>3</sup> The first paper made in the United States of wood pulp is said to have been manufactured by Elzur Smith, of Lee, subsequent to 1854.<sup>4</sup>

Four-fifths of all the loft-dried paper manufactured in the United States from 1860 to 1897 was made within 15 miles of Springfield, in which city a mill was operated by David Ames in 1800, on the foundation of one owned by Samuel Babcock in 1786. To David Ames' son, John, the trade is indebted for a cylinder machine, for which he secured a patent May 14, 1822. Although superseded in

the United States by the use of the Fourdrinier machine, it marked a great advance in paper making. John Ames also invented other paper machinery, and originated the idea of running a continuous sheet through the size, instead of dipping each sheet. These inventions were put into practical operation in the mill at Chicopee Falls. It is claimed that in 1828 the Ames mills produced one-half of the paper consumed in the United States.<sup>5</sup> The first white paper made, to any extent, from straw in the United States was produced in the Ames factory at Springfield, about 1840.<sup>6</sup>

The modern paper mills, with their heavy machinery, were found to require more power than the smaller streams possessed, and this led to their establishment on the Connecticut River at and near Holyoke, where there is a fall of about seventy feet in a distance of less than two miles. The first canal in the United States was built here in 1790 on the South Hadley side, where, in 1830, a paper mill was established. The second mill was founded at Holyoke in 1853. This was the beginning of the large mills. Establishment followed establishment, until now, grouped around one of the best waterpowers in the United States, are over a score of factories, making hundreds of tons of high-grade paper daily.<sup>7</sup> The use of wood pulp in paper making has extensively superseded other materials, except in special grades. The process of mechanical grinding, upon which the pulp industry was founded, was introduced in the United States at Stockbridge, Mass., in 1807.

There were 7 establishments engaged in the refining of sugar and molasses in 1900, with 592 wage-earners, and products valued at \$19,626,882. In 1890 there were 4 establishments, 204 wage-earners, and products valued at \$16,875,538. The increase in the value of products during the decade was \$2,751,344, or 16.3 per cent.

There were 313 establishments engaged in the factory manufacture of clothing in 1900, with 6,776 wage-earners, and products valued at \$15,032,604. In 1890 there were 265 establishments, 8,608 wage-earners, and products valued at \$23,106,164. The decrease in the value of products during the decade was \$8,073,560, or 34.9 per cent.

There were 70 establishments engaged in the manufacture of rubber and elastic goods in 1900, with 5,044 wage-earners, and products valued at \$13,885,050. In 1890 there were 50 establishments, 3,472 wage-earners, and products valued at \$8,518,612. The increase in the value of products during the decade was \$5,366,447, or 63 per cent. Allied to this industry is the manufacture of rubber boots and shoes, with 6 establishments, 5,250 wage-earners, and products valued at \$16,490,015. In 1890 there were 5 establishments, 4,932 wage-earners, and products valued at \$9,792,024. The increase in the value of products during the decade was \$6,697,991, or 68.4 per cent.

Massachusetts ranked first in 1900 in the manufacture of

<sup>1</sup> Eighth Census of the United States, Manufactures, Introduction, pages cxxvi and cxxvii.

<sup>2</sup> The New England States, Vol. I, page 318 ff.

<sup>3</sup> Eighth Census of the United States, Manufactures, Introduction, page cxxv.

<sup>4</sup> The New England States, Vol. I, page 314.

<sup>5</sup> The New England States, Vol. I, page 308 ff.

<sup>6</sup> Eighth Census of the United States, Manufactures, Introduction, page cxxviii.

<sup>7</sup> The New England States, Vol. I, pages 312 and 313.

rubber boots and shoes. In 1890 it was also first; and the manufacture of rubber boots and shoes in the other states was then included under "all other states" to avoid disclosing the operations of individual establishments, the establishments in each numbering less than 3. The state's supremacy in the manufacture of rubber and elastic goods is also unquestioned. In 1900, as in 1890, it ranked first. In both industries in 1900 the percentage of increase was marked, showing not only an increased consumption of rubber boots and shoes, but a remarkable increase in the variety of uses to which rubber and elastic goods are put, thus verifying Mr. Goodyear's most sanguine predictions.

The manufacture of india-rubber goods was first undertaken in the United States at Roxbury, Mass., in 1833, by John Haskins, Edwin M. Chaffee, and Luke Baldwin. They had learned the art of dissolving rubber gum and soon afterward sold their interests to the Roxbury India Rubber Company. Among the products of this company was india-rubber cloth for carriage tops and these attracted the attention of Nathaniel Hayward, the proprietor of a Boston livery stable. The rubber not being thoroughly vulcanized became sticky in hot and extremely rigid in cold weather, and investors in the manufacture suffered financial losses. Mr. Hayward at once abandoned his livery business and began experimenting with processes for making this rubber wholly merchantable. In 1836, at Woburn, he found that when the rubber goods he was making were exposed to the fumes of sulphur, they not only became bleached, which was his desire, but were so hardened that they could not be made soft with moderate warmth. This was the real foundation of the Goodyear patent for vulcanization. Had Mr. Hayward subjected his rubber, mixed with sulphur, to intense heat, he would have found the whole secret, but as it was he only rubbed powdered sulphur on the exterior of the goods, so that the vulcanization was not complete. In 1837 the industry was prostrate again. In 1838 Charles Goodyear met Mr. Hayward, and both inventors experimented further, without success until Goodyear, accidentally dropping a bit of the rubber on a hot stove, found that it charred and became absolutely vulcanized. A patent was granted to him in 1844, and this was the foundation of the rubber goods industry. But Mr. Hayward claimed priority of invention in the rubber shoe industry as it is now known. The names of other Massachusetts inventors are closely associated with the rubber goods industry, among them that of Edwin M. Chaffee, of Roxbury, who, in 1835, invented the "Monster" calender, which was later bought by Goodyear for old iron. For many years after that, however, it saw useful service. This was the first rubber machinery of importance made in the United States, an improvement on the English calender, and the forerunner of the calenders used in every rubber factory to-day.<sup>1</sup>

There were 8 establishments engaged in the manufacture of iron and steel in 1900, with 6,125 wage-earners, and products valued at \$13,491,159. In 1890 there were 15

establishments, 5,210 wage-earners, and products valued at \$11,201,149. The increase in the value of products during the decade was \$2,290,010, or 20.4 per cent.

In colonial days the manufacture of iron received much attention, being stimulated by the existence of native ore beds. The General Court from time to time, in the early years, extended its encouragement by way of special grants and exclusive privileges, toward the establishment of effective operations of iron works in eastern Massachusetts, notably in the vicinity of Lynn, and later the first forge in America was set up at Raynham by James and Henry Leonard, who "were the first adventurers from England to this country who were skilled in the forge-iron manufacture."<sup>2</sup> The first rolling and slitting mill in New England was erected at Middleboro. There were extensive iron deposits in the western part of the state, and operations upon these were begun at an early date. Iron works in Berkshire county, in the vicinity of Pittsfield, were long engaged in the production of a superior brand of forge iron. But the manufacture of iron from such natural deposits of ore as were found in the state eventually proved impracticable.

There were 696 establishments engaged in the manufacture of lumber in 1900, with 5,202 wage-earners, and products valued at \$12,818,511. In 1890 there were 652 establishments, 6,519 wage-earners, and products valued at \$13,323,708. The decrease in the value of products during the decade was \$505,197, or 3.8 per cent—due to the decline in the branch of the industry which comprises planing mill products, including sash, doors, and blinds.

There were 40 establishments engaged in the manufacture of malt liquors in 1900, with 1,651 wage-earners, and products valued at \$11,255,618. In 1890 there were 26 establishments, 818 wage-earners, and products valued at \$5,355,438. The increase in the value of products during the decade was \$5,900,175, or 110.2 per cent.

There were 120 establishments engaged in the factory manufacture of furniture in 1900, with 6,092 wage-earners, and products valued at \$11,244,503. In 1890 there were 136 establishments, 3,410 wage-earners, and products valued at \$6,166,522. The increase in the value of products during the decade was \$5,077,981, or 82.3 per cent.

There were 54 establishments engaged in the manufacture of electrical apparatus and supplies in 1900, with 5,202 wage-earners, and products valued at \$10,490,361. In 1890 there were 26 establishments, 2,581 wage-earners, and products valued at \$5,762,599. The increase in the value of products during the decade was \$4,727,762, or 82 per cent.

There were 138 establishments engaged in the manufacture of jewelry in 1900, with 5,696 wage-earners, and products valued at \$10,315,334. In 1890 there were 106 establishments, 3,503 wage-earners, and products valued at \$5,507,415. The increase in the value of products during the decade was \$4,807,919, or 87.3 per cent.

Massachusetts ranked third in 1900 among the United

<sup>1</sup> The New England States, Vol. I, page 339 ff.

<sup>2</sup> Description of Raynham, 1793, by Rev. Dr. Fobes.

States in the manufacture of jewelry, being preceded by Rhode Island and New York; it missed second place in value of products by only a few thousand dollars. Attleboro and North Attleboro have long been centers of this manufacture. Most of the imitation jewelry of the United States is now produced in these places, and in Providence, R. I. The industry at Attleboro began about 1805. The products of the early establishments were chiefly silver spoons, gold beads, and finger rings; afterwards some of them branched out into the manufacture of cheap gold jewelry, silver and other alloys being largely used, with a fraction of gold, while large articles were plated by the hammering process. The industry is based upon a discovery by Nehemiah Dodge, of Providence, R. I., who was the first manufacturer of rolled-plate jewelry, and began business in 1794. His plan was to place a sheet of gold on a copper base, hammer it down on an anvil, and draw it out still thinner with hand rolls. This knowledge soon became public property, and the manufacture spread rapidly to Attleboro, in Massachusetts, only a few miles across the state line. During the years since Mr. Dodge's discovery, numerous new ideas have been grafted on the original stock. Thomas H. Lowe came from Birmingham, England, in 1846, and introduced the manufacture of rolled-plate jewelry by sweating the thin plate of gold on the substratum of base metal, before it was rolled out. This was simpler, better, and more economical, and still further cheapened the price to consumers. The invention by Levi Burdon of the use of seamless wire also changed styles and elevated qualities. By this process, wire, drawn to any degree of fineness desired, is covered with gold. There is no seam to open up and disclose the true character of the material. Metal ornaments and jewelers' findings have also grown into a large industry, and it is said that a single manufacturer can show a thousand different samples.<sup>1</sup>

There were 19 establishments engaged in the manufacture of cordage and twine in 1900, with 3,303 wage-earners, and products valued at \$9,635,571. In 1890 there were 32 establishments, 3,351 wage-earners, and products

<sup>1</sup>The New England States, Vol. IV, page 2511 ff.

valued at \$10,510,530. The decrease in the value of products during the decade was \$874,959, or 8.3 per cent.

There were 249 establishments engaged in the manufacture of confectionery in 1900, with 2,942 wage-earners, and products valued at \$7,014,532. In 1890 there were 218 establishments, 1,994 wage-earners, and products valued at \$5,291,844. The increase in the value of products during the decade was \$1,722,688, or 32.6 per cent.

There were 388 establishments engaged in the manufacture of carriages and wagons in 1900, with 3,164 wage-earners, and products valued at \$6,118,121. In 1890 there were 430 establishments, 4,131 wage-earners, and products valued at \$7,607,869. The decrease in the value of products during the decade was \$1,489,748, or 19.6 per cent.

In addition to the industries shown in Table 3, there are other industries of importance in the state, some of which can not be shown separately because the establishments number less than 3 and the publication of the figures would disclose the operations of individual establishments. One of these is the manufacture of watches by machinery, which was first suggested in 1850, by A. L. Dennison and Edward Howard, of Boston, whose factory erected in that year was the precursor of the extensive establishment at Waltham, one of the leading enterprises of the state.<sup>2</sup> The effect upon watch making of this successful application of the principles of machine construction, in improving the products, lessening their cost, and extending their use, is well known.

The manufacture of palm-leaf straw hats in the United States was begun in Massachusetts in 1826, and the straw-goods industry in certain towns of Franklin and Worcester counties originated in this way.

#### URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Boston, Brockton, Cambridge, Chelsea, Fall River, Fitchburg, Gloucester, Haverhill, Holyoke, Lawrence, Lowell, Lynn, Malden, New Bedford, Newton, Salem, Somerville, Springfield, Taunton, and Worcester, as returned at the censuses of 1890 and 1900, with the percentages of increase.

<sup>2</sup>Progress of the World, page 333.

TABLE 4.—COMPARATIVE SUMMARY, BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, FALL RIVER, FITCHBURG, GLOUCESTER, HAVERHILL, HOLYOKE, LAWRENCE, LOWELL, LYNN, MALDEN, NEW BEDFORD, NEWTON, SALEM, SOMERVILLE, SPRINGFIELD, TAUNTON, AND WORCESTER, 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	29,180	\$823,264,287	497,448	\$228,240,442	\$73,209,015	\$552,717,955	\$1,035,198,989
Per cent of increase.....	1890	26,923	630,032,341	447,270	205,844,337	63,083,782	478,199,494	888,160,403
		8.4	30.7	11.2	10.9	16.1	16.8	16.6
Boston.....	1900	7,247	143,811,376	72,142	39,184,191	23,652,792	99,557,019	206,081,707
Per cent of increase.....	1890	7,912	118,198,539	78,476	43,908,437	21,543,956	105,602,569	210,936,616
		18.8	21.2	8.1	10.8	9.8	15.7	12.3
Brockton.....	1900	428	10,193,688	10,986	6,166,462	1,180,168	15,980,653	26,384,881
Per cent of increase.....	1890	537	7,772,452	10,317	5,746,324	1,136,445	11,211,411	21,070,099
		20.3	31.2	6.5	7.8	4.6	42.5	25.2
Cambridge.....	1900	782	26,662,751	12,986	6,785,070	2,229,106	23,986,638	89,164,013
Per cent of increase.....	1890	1,232	20,381,585	12,581	6,497,968	2,370,252	20,268,531	85,975,089
		36.5	31.1	3.2	4.4	6.0	18.3	8.9
Chelsea.....	1900	808	8,211,682	3,382	1,625,875	678,218	5,764,409	10,388,549
Per cent of increase.....	1890	347	7,028,356	2,977	1,884,945	547,110	4,681,291	8,158,207
		11.2	16.8	11.9	17.4	19.4	24.0	26.7
Fall River.....	1900	785	58,549,931	32,730	11,739,129	3,249,083	19,789,859	48,071,580
Per cent of increase.....	1890	397	37,199,470	22,987	8,213,045	2,068,945	17,689,671	32,519,281
		97.7	57.4	42.6	42.9	57.4	11.9	32.4
Fitchburg.....	1900	808	13,033,898	6,796	3,113,078	749,195	8,062,713	14,258,522
Per cent of increase.....	1890	323	7,503,522	5,079	2,396,811	746,602	6,414,105	11,225,036
		14.6	72.8	38.8	29.9	0.8	25.7	27.0
Gloucester.....	1900	392	4,687,559	3,379	1,428,896	349,839	4,862,660	7,843,783
Per cent of increase.....	1890	206	2,768,281	1,663	761,581	150,668	3,220,601	4,851,405
		90.8	69.6	116.2	90.1	123.8	51.0	61.7
Haverhill.....	1900	685	6,801,565	10,600	5,035,882	1,336,282	15,028,972	24,937,073
Per cent of increase.....	1890	734	3,084,272	11,138	6,097,574	1,777,142	13,536,969	25,394,530
		16.7	15.9	25.0	17.4	124.8	14.6	1.8
Holyoke.....	1900	483	26,700,031	13,454	5,730,998	1,976,024	13,678,969	26,283,964
Per cent of increase.....	1890	493	24,411,939	12,305	5,324,935	1,638,220	13,574,788	26,060,315
		112.2	9.6	8.3	7.6	17.4	7.8	0.9
Lawrence.....	1900	516	49,914,035	22,858	8,972,310	2,210,145	26,176,644	44,703,278
Per cent of increase.....	1890	583	29,626,306	15,563	6,032,651	1,958,366	15,146,851	26,550,725
		16.3	68.5	43.6	47.3	12.9	72.8	68.4
Lowell.....	1900	981	46,573,193	31,377	11,821,633	4,699,877	21,727,844	44,774,525
Per cent of increase.....	1890	853	41,911,708	27,773	10,014,408	4,150,844	22,990,133	42,450,509
		15.0	11.1	13.0	17.7	11.8	15.5	5.5
Lynn.....	1900	776	17,011,761	17,492	8,576,042	2,270,595	25,456,798	41,633,845
Per cent of increase.....	1890	1,369	17,919,025	20,318	11,033,166	2,045,531	23,039,987	44,223,815
		43.3	15.1	13.9	22.3	11.0	10.5	5.9
Malden.....	1900	242	5,906,279	3,082	1,520,658	790,518	4,607,400	7,959,292
Per cent of increase.....	1890	295	7,609,124	4,418	2,115,420	498,174	5,901,817	9,592,501
		18.0	22.3	30.2	28.1	58.7	21.9	17.6
New Bedford.....	1900	618	29,078,410	16,400	6,730,793	1,703,408	12,727,776	25,681,671
Per cent of increase.....	1890	413	20,132,683	10,812	4,378,103	980,306	8,925,779	17,025,779
		49.6	44.4	51.8	53.7	73.8	48.3	50.3
Newton.....	1900	297	5,105,196	3,094	1,581,887	388,922	3,065,921	6,322,232
Per cent of increase.....	1890	193	4,393,807	2,390	1,168,910	243,663	2,176,249	4,335,704
		58.9	10.2	29.5	35.3	59.6	40.9	45.8
Salem.....	1900	446	7,450,985	6,424	2,842,678	464,618	7,159,987	12,257,449
Per cent of increase.....	1890	513	6,250,164	5,127	1,973,966	424,772	4,798,643	8,522,751
		113.1	19.2	25.3	44.0	9.4	51.1	43.8
Somerville.....	1900	378	10,131,596	4,342	2,199,491	706,415	17,346,772	21,776,511
Per cent of increase.....	1890	401	3,883,859	2,789	1,357,037	430,673	4,420,128	7,307,522
		16.4	160.9	55.7	62.1	60.7	292.4	193.0
Springfield.....	1900	817	17,105,947	10,123	5,176,299	2,067,702	9,194,841	21,207,039
Per cent of increase.....	1890	692	13,199,283	9,159	4,843,636	875,331	7,817,534	17,040,692
		18.1	29.6	10.5	6.9	136.2	17.6	24.4
Taunton.....	1900	284	11,737,399	7,102	3,331,680	908,130	5,993,237	12,594,814
Per cent of increase.....	1890	316	7,891,382	6,148	2,837,194	707,629	4,799,287	9,936,829
		110.1	48.7	15.5	17.4	28.3	24.9	26.7
Worcester.....	1900	1,071	42,966,743	25,593	12,894,784	4,258,926	26,666,176	53,348,783
Per cent of increase.....	1890	996	25,230,620	20,244	10,120,414	1,827,815	21,208,904	39,533,369
		7.5	70.3	26.4	27.4	133.0	25.7	34.9
Total for 20 cities.....	1900	17,824	511,193,978	313,851	146,457,336	55,818,963	367,429,288	690,618,524
Per cent of increase.....	1890	18,538	411,392,880	235,174	136,285,925	46,177,468	317,119,850	602,711,304
		15.4	31.6	10.1	7.5	20.9	15.9	14.6
Per cent of 20 cities to total for state.....	1900	61.1	65.7	63.1	64.2	76.2	66.5	66.7
	1890	70.0	65.8	63.8	66.2	78.2	67.0	67.9

<sup>1</sup> Decrease.

It appears from Table 4 that there has been a considerable increase during the past decade in the combined manufactures of these 20 cities. The average number of wage-earners increased from 285,174 to 313,851, or 10.1 per cent, and the value of products from \$602,711,364 to \$690,613,521, or 14.6 per cent; but the number of establishments decreased from 18,838 to 17,824, or 5.4 per cent. The percentages of increase in the average number of wage-earners and in the value of products were smaller in these 20 cities than in the state as a whole. The city of Somerville shows the most rapid growth, the value of products having increased from \$7,807,522 to \$21,776,511, or 198 per cent. In Boston, the leading city, the number of establishments decreased from 7,942 to 7,247, or 8.8 per cent; the average number of wage-earners from 78,476 to 72,142, or 8.1 per cent; and the value of products from \$210,936,616 to \$206,081,767, or 2.3 per cent. The number of establishments, number of wage-earners, and value of products, in this city in 1900, constituted 24.8, 14.5, and 19.9 per cent, respectively, of the totals for the state. The decrease in the value of products was due chiefly to the lessened production of men's clothing, factory product, cordage and twine, and furniture, factory product, industries which, under recent conditions, have been concentrated in other localities. In general, excepting these industries, the manufactures of the city increased.

Certain cities in this principal group are largely devoted to particular industries. Fall River, which shows an increase of 32.4 per cent in the value of products; Lawrence, with an increase of 68.4 per cent; Lowell, with an increase of 5.5 per cent; and New Bedford, with an increase of 50.8 per cent, are all textile cities, the differences in their percentages of gain being due in part to the different kinds of goods manufactured. Brockton, with an increase of 25.2 per cent in the value of products, is mainly devoted to the manufacture of boots and shoes. Lynn and Haverhill also are largely engaged in this industry, and each shows a small percentage of decrease in the value of prod-

ucts, which is probably due in part to a decline in the prices of the kinds of shoes made in these 2 cities. Seasonal disturbances, which have a great temporary influence upon this industry, no doubt account in part for the decrease shown. The city of Holyoke, having extensive manufactures of paper and of textiles, shows only a slight increase in the value of products—less than 1 per cent. Worcester, the second city in the state in population, with diversified industries, among which the manufacture of foundry and machine shop products is conspicuous, shows an increase of 34.9 per cent. Cambridge, a city largely residential, but which contains noted establishments devoted to printing and publishing, reported products valued at \$39,164,013, an increase of 8.9 per cent. Chelsea, with an increase of 26.7 per cent in the value of products; Malden, which shows a decrease of 17 per cent; Newton, with an increase of 45.8 per cent; and Somerville, with an increase of 198 per cent, are all cities near Boston, chiefly residential, and sharing, as to growth in population, in the expansion of the metropolis. Nevertheless, as may be seen, the manufacturing interests of these cities are considerable. Salem, one of the oldest cities in the state, and formerly of much commercial importance, reported products valued at \$12,257,449, an increase of 43.8 per cent. Gloucester, the principal seat of the considerable fishing industry of the state, shows an increase of 61.7 per cent in the value of its manufactured products. Fitchburg, Springfield, and Taunton, which are devoted to metal working, the manufacture of foundry and machine shop products, textiles, and various other industries, show increases of 27, 24.4, and 26.7 per cent, respectively.

Table 5 presents the totals for the manufacturing industries of the 118 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	29,180	\$828,264,287	81,925	497,448	\$228,240,442	\$78,209,015	\$552,717,955	\$1,085,198,989	100.0		2,805,946	100.0			
Total for urban manufactures	26,502	769,628,121	29,032	465,863	214,787,880	70,226,441	516,561,293	970,598,622	98.8		2,417,970	86.2			
Abington	67	758,895	77	1,568	718,181	56,423	1,712,764	2,684,644	68	0.3	4,489	95	0.2		
Adams	107	6,616,981	114	8,815	1,234,459	251,819	1,839,969	4,180,239	43	0.4	11,134	43	0.4		
Amesbury	162	2,949,565	191	2,847	1,027,222	227,659	2,996,449	8,898,251	48	0.4	9,473	49	0.3		
Amherst	67	559,085	71	625	253,906	73,716	716,093	1,810,143	90	0.1	5,023	83	0.2		
Andover	57	2,096,204	53	1,103	436,212	110,196	1,073,022	1,888,929	76	0.2	6,813	67	0.2		
Arlington	90	406,128	97	823	197,009	53,915	268,934	681,010	107	0.1	8,603	52	0.3		
Athol	129	1,722,593	142	1,455	668,445	119,966	1,807,815	2,549,701	67	0.2	7,061	64	0.2		
Attleboro	179	5,893,100	233	5,106	2,354,880	359,736	4,106,820	9,442,752	19	0.9	11,335	40	0.4		
Beverly	227	2,552,955	286	2,810	1,390,066	215,586	2,546,186	4,033,752	33	0.5	13,884	31	0.5		
Blackstone	23	5,023,389	16	1,742	776,201	86,602	2,850,800	6,598,641	26	0.6	5,721	76	0.2		
Boston	7,247	148,811,376	8,009	72,142	39,184,191	23,052,792	99,557,019	206,081,767	1	19.9	560,892	1	20.0		
Bridgewater	54	866,911	55	838	478,381	43,933	1,300,927	2,075,377	72	0.2	5,806	74	0.2		
Brockton	428	10,193,688	494	10,986	6,166,462	1,180,168	15,994,653	26,384,881	8	2.5	40,003	12	1.4		
Brookfield	35	393,859	38	455	202,800	33,067	544,591	809,420	104	0.1	3,062	110	0.1		
Cambridge	782	26,662,751	884	12,986	6,785,070	2,229,106	23,986,638	39,161,013	7	3.8	91,886	6	3.8		
Canton	69	2,214,628	58	749	399,809	83,880	929,509	1,650,829	83	0.2	4,584	93	0.2		
Chelsea	308	8,211,682	328	3,332	1,625,875	678,246	5,794,409	10,333,549	18	1.0	34,072	16	1.2		
Chilmark	122	6,595,802	129	4,331	1,668,362	438,337	5,606,713	8,704,907	20	0.8	19,167	26	0.7		
Clinton	104	7,098,744	111	4,021	1,600,948	222,973	2,913,952	5,446,768	32	0.5	13,667	32	0.5		
Dalton	38	1,724,823	36	843	351,101	143,454	726,940	1,619,191	84	0.2	8,014	111	0.1		
Danvers	90	1,898,884	109	974	489,482	89,659	1,756,846	2,654,986	65	0.3	8,542	58	0.3		
Deerham	16	777,098	16	678	305,824	43,816	687,550	1,260,125	93	0.1	7,457	60	0.3		
Dudley	18	1,978,291	14	1,195	437,177	108,027	1,018,132	1,661,978	32	0.2	8,553	104	0.1		
Easthampton	63	2,300,366	62	1,714	658,933	113,403	1,452,605	2,669,753	64	0.3	5,003	70	0.2		
Easton	46	1,244,991	50	706	310,994	23,910	803,925	1,523,487	86	0.1	4,837	89	0.2		
Everett	168	6,107,785	161	2,141	1,068,987	702,785	2,725,197	5,038,120	34	0.5	24,336	21	0.9		
Fairhaven	47	329,491	49	813	170,096	22,757	126,508	408,099	114	(1)	3,567	103	0.1		
Fall River	785	58,519,934	822	82,780	11,739,129	3,249,083	19,789,859	43,071,530	5	4.2	104,863	8	3.7		
Fitchburg	308	18,033,898	336	6,796	3,113,078	749,165	8,062,713	14,253,522	14	1.4	81,531	18	1.1		
Foxboro	45	808,048	49	491	221,858	37,240	359,607	777,219	105	0.1	3,266	107	0.1		
Frammingham	144	3,092,662	159	2,475	1,018,339	187,797	2,010,281	3,714,732	50	0.4	11,802	42	0.4		
Franklin	51	1,823,556	49	888	397,846	87,325	954,400	1,686,041	80	0.2	5,017	84	0.2		
Gardner	113	6,073,152	128	3,083	1,290,492	198,615	2,454,237	4,763,868	39	0.5	10,813	44	0.4		
Gloucester	392	4,687,559	469	3,779	1,428,895	349,839	4,862,600	7,843,783	22	0.8	26,121	20	0.9		
Grafton	49	1,938,007	50	1,256	466,729	94,403	927,957	1,708,342	70	0.2	4,869	88	0.2		
Great Barrington	94	1,436,391	96	1,010	415,547	108,012	832,032	1,671,574	81	0.2	5,854	78	0.2		
Greenfield	141	1,725,880	147	1,223	551,550	95,786	884,443	2,093,352	71	0.2	7,927	55	0.3		
Groveland	11	798,941	11	416	172,308	84,119	594,025	857,736	103	0.1	2,376	112	0.1		
Hardwick	16	1,412,618	16	755	289,332	72,438	691,354	1,173,776	95	0.1	3,203	108	0.1		
Haverhill	685	6,801,565	838	10,600	5,035,832	1,836,232	15,628,972	24,937,073	11	2.4	37,175	13	1.3		
Hillsdale	14	840,045	13	250	88,305	19,602	275,638	434,627	112	(1)	1,485	118	0.1		
Holyoke	433	26,760,031	395	13,454	5,730,998	1,976,021	18,673,969	26,283,964	9	2.5	46,712	11	1.6		
Hopkinton	4	3,031,796	6	1,464	790,499	123,682	1,214,395	3,319,747	54	0.3	2,087	114	0.1		
Hudson	74	1,015,132	76	1,571	769,625	151,641	2,440,180	3,621,137	52	0.3	5,454	79	0.2		
Hyde Park	127	3,740,053	119	2,792	1,317,684	167,816	2,747,589	5,007,400	66	0.5	13,244	84	0.5		
Ipswich	64	836,419	58	843	382,277	142,446	481,386	1,194,826	94	0.1	4,658	90	0.2		
Lawrence	546	49,914,035	581	22,858	8,972,810	2,210,145	20,175,644	44,703,273	4	4.8	92,559	7	2.2		
Lee	71	1,209,509	76	620	274,004	71,200	493,569	1,168,328	96	0.1	3,596	101	0.1		
Leicester	107	3,970,246	18	847	266,210	39,781	641,283	1,063,669	99	0.1	3,416	105	0.1		
Leominster	207	8,987,611	201	3,623	1,600,186	363,417	2,986,707	5,856,174	20	0.6	12,392	36	0.4		
Lowell	981	46,578,193	1,049	81,377	11,821,633	4,639,877	21,727,844	44,774,525	3	4.3	94,969	4	3.4		
Lynn	776	17,011,761	959	17,492	8,576,042	2,270,695	25,456,738	41,633,845	6	4.0	68,513	6	2.4		
Malden	242	5,906,279	261	3,082	1,520,653	790,518	4,007,400	7,659,292	21	0.8	36,064	16	1.2		
Mansfield	62	567,480	59	671	274,840	25,428	435,531	1,035,804	100	0.1	4,006	99	0.1		
Marblehead	100	469,859	124	1,032	411,372	35,175	1,111,180	1,410,406	88	0.1	7,582	68	0.3		
Marlboro	142	2,191,860	144	2,780	1,304,301	183,801	3,057,414	4,986,399	37	0.5	13,009	33	0.5		
Maynard	43	2,849,045	42	838	345,480	48,569	833,742	1,594,003	85	0.1	3,142	109	0.1		
Medford	141	1,328,166	149	968	487,793	117,441	896,400	1,907,624	75	0.2	18,244	28	0.6		
Melrose	106	3,296,048	134	1,428	635,422	456,120	2,403,575	3,945,580	47	0.4	12,962	35	0.5		
Merrimac	40	252,812	47	252	114,739	16,924	200,791	391,798	115	(1)	2,131	113	0.1		
Methuen	74	1,203,412	86	726	302,934	81,215	694,506	1,273,920	92	0.1	7,512	59	0.3		
Middleboro	110	1,034,730	131	1,081	510,724	101,421	1,233,425	2,298,946	68	0.2	6,885	66	0.2		
Millis	129	1,240,782	161	1,554	773,144	103,886	1,636,739	3,074,433	57	0.3	11,370	39	0.4		
Millbury	54	1,047,807	62	694	270,862	43,455	579,605	1,082,294	98	0.1	4,460	90	0.2		
Milton	58	291,284	64	385	189,920	33,278	271,787	675,793	108	0.1	6,578	68	0.2		
Monson	43	690,481	51	523	234,606	64,438	410,372	876,123	102	0.1	3,402	106	0.1		
Montague	60	2,653,595	68	1,203	554,186	113,694	847,319	1,985,693	73	0.2	6,150	71	0.2		
Natick	154	1,061,320	178	1,502	726,137	146,368	2,004,150	3,298,777	55	0.2	9,488	48	0.3		
New Bedford	618	29,073,410	681	16,409	6,780,793	1,703,408	12,727,776	25,631,871	10	2.5	62,442	8	2.2		
Newburyport	195	3,893,199	192	3,076	1,326,719	358,728	3,255,571	6,683,763	30	0.5	14,478	29	0.5		
Newton	297	5,105,196	317	3,094	1,581,887	338,922	3,065,921	6,322,232	27	0.6	33,557	17	1.2		
North Adams	231	14,663,492	253	6,796	2,949,010	336,345	6,410,262	11,682,663	17	1.1	24,200	22	0.9		
Northampton	214	2,728,140	235	2,406	1,140,655	274,017	1,974,433	4,198,486	42	0.4	18,643	27	0.7		
North Andover	34	1,225,212	34	873											

## STATISTICS OF MANUFACTURES.

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.
Penbody	161	\$4,437,229	185	2,881	\$1,384,126	\$245,518	\$4,583,297	\$7,261,647	23	0.7	11,523	98	0.4
Pittsfield	261	6,084,849	309	8,863	1,627,790	548,483	3,616,578	7,135,770	24	0.7	21,766	25	0.8
Quincy	339	2,208,197	402	2,546	1,378,823	253,703	1,800,260	3,948,982	46	0.4	23,899	23	0.8
Randolph	54	411,070	59	725	359,150	27,307	903,917	1,425,890	87	0.1	3,993	100	0.1
Reading	72	465,247	90	448	188,645	32,950	584,621	944,422	101	0.1	4,969	87	0.2
Revere	82	602,819	89	255	133,129	26,757	170,181	451,215	111	( <sup>1</sup> )	10,995	45	0.4
Rockland	81	998,824	90	1,071	515,974	112,435	1,288,959	2,288,972	70	0.2	5,327	82	0.2
Rockport	41	737,225	45	566	255,634	34,390	142,387	634,755	109	0.1	4,592	91	0.2
Salem	446	7,460,935	490	6,424	2,842,678	464,618	7,159,987	12,257,449	16	1.2	35,956	14	1.3
Salisbury	11	11,970	11	14	6,988	678	8,248	24,825	118	( <sup>1</sup> )	1,558	116	0.1
Shelburne	33	132,063	33	90	89,096	7,053	50,112	140,575	117	( <sup>1</sup> )	1,508	117	0.1
Somerville	878	10,131,596	419	4,342	2,199,491	706,415	17,846,772	21,776,511	12	2.1	61,643	10	2.2
Southbridge	109	4,269,358	112	2,871	1,235,061	222,267	1,947,000	3,854,688	49	0.4	10,025	46	0.4
South Hadley	24	758,186	26	251	109,352	35,564	238,361	522,810	110	0.1	4,526	94	0.2
Spencer	81	1,519,234	88	1,665	618,917	92,632	1,812,515	2,784,934	62	0.3	7,627	57	0.3
Springfield	817	17,105,947	837	10,123	5,176,299	2,037,702	9,194,841	21,207,039	13	2.0	62,059	9	2.2
Stoneham	94	822,071	103	1,290	544,213	75,708	1,394,999	2,856,919	61	0.3	6,197	69	0.2
Stoughton	56	2,125,321	59	1,071	451,274	161,183	1,521,417	2,297,798	69	0.2	5,442	80	0.2
Taunton	284	11,737,399	281	7,102	3,331,680	908,180	5,993,237	12,594,814	15	1.2	31,036	19	1.1
Wakefield	97	3,209,070	101	1,616	784,644	220,168	1,354,253	2,958,656	60	0.3	9,290	50	0.3
Walpole	44	2,010,385	40	684	370,945	173,320	825,216	1,972,398	74	0.2	3,572	102	0.1
Waltham	275	9,152,169	279	5,392	2,630,929	671,780	2,317,792	6,934,381	25	0.7	23,481	24	0.8
Ware	100	3,284,599	104	2,777	979,930	127,775	2,119,178	3,681,069	51	0.4	8,263	54	0.3
Warren	39	1,379,563	34	1,027	426,594	54,434	683,187	1,275,574	91	0.1	4,417	97	0.2
Watertown	105	4,549,242	106	2,304	1,130,039	170,131	3,811,808	6,078,902	28	0.6	9,706	47	0.3
Webster	83	3,733,575	87	2,490	870,244	230,796	2,447,448	4,036,267	44	0.4	8,804	51	0.3
Westboro	57	948,047	59	843	333,536	39,752	1,037,315	1,733,298	77	0.2	5,400	81	0.2
Westfield	186	4,345,372	183	2,611	1,229,643	328,542	2,401,460	5,072,074	33	0.5	12,810	37	0.4
West Springfield	41	934,945	41	626	345,773	59,291	561,675	1,142,105	97	0.1	7,103	63	0.3
Weymouth	130	4,427,328	153	1,993	911,562	293,022	3,246,399	5,533,144	31	0.5	11,324	41	0.4
Whitman	65	2,054,815	72	2,059	1,092,024	140,286	3,160,456	5,009,736	35	0.5	6,155	70	0.2
Willbraham	15	711,426	13	171	81,100	24,365	553,198	736,173	106	0.1	1,595	115	0.1
Williamstown	33	815,368	41	365	141,864	20,059	182,511	434,371	113	( <sup>1</sup> )	5,013	85	0.2
Winchendon	53	1,454,853	59	1,233	462,532	45,207	861,523	1,745,925	78	0.2	5,001	86	0.2
Winchester	52	3,724,461	55	1,155	646,064	178,284	1,855,159	3,257,172	56	0.3	7,248	62	0.3
Winthrop	43	106,445	47	118	60,543	12,909	100,643	242,111	116	( <sup>1</sup> )	6,058	72	0.2
Woburn	123	2,933,705	133	1,596	737,370	133,439	3,044,935	4,450,566	41	0.4	14,254	30	0.5
Worcester	1,071	42,966,748	1,103	25,593	12,894,734	4,253,925	26,606,176	53,348,733	2	5.2	118,421	2	4.2
Total for state exclusive of urban manufactures	2,673	53,636,166	2,393	31,535	13,452,562	2,932,574	36,156,662	64,600,367		6.2	337,376		13.3
Per cent of urban manufactures to total for state	90.3	93.5	90.9	93.7	94.1	95.9	93.5	93.8			86.2		

<sup>1</sup> Less than one-tenth of 1 per cent.

Of the 29,180 establishments in the state, 26,502, or 90.8 per cent, were located in these 118 cities and towns. They furnished employment to 465,863 wage-earners, or 93.7 per cent of the total for the state; and the value of their products, \$970,598,622, formed 93.8 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 Boston, Brockton, Cambridge, Chelsea, Everett, Fall River, Fitchburg, Gloucester, Haverhill, Holyoke, Lawrence, Lowell, Lynn, Malden, New Bedford, Newton, North Adams, Pittsfield, Quincy, Salem, Somerville, Springfield, Taunton, Waltham, and Worcester 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 establishments.	CAPITAL.						Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Number.		Salaries.	Total.		
										Average number.	Wages.	
1 The State.....	29,180	\$823,264,287	\$57,284,347	\$110,410,827	\$201,933,253	\$147,636,360	81,925	27,860	\$31,257,630	497,448	\$228,240,442	
2 Barnstable.....	100	507,166	22,141	125,178	140,587	219,200	213	21	16,738	435	180,883	
3 Berkshire.....	1,016	34,690,760	2,446,092	5,145,951	9,085,797	18,013,920	1,108	756	1,119,794	17,933	7,403,978	
4 Bristol.....	2,293	111,277,529	5,652,554	20,236,506	42,052,957	43,285,512	2,507	1,987	2,514,739	65,265	26,512,567	
5 Dukes.....	30	89,923	3,413	12,006	29,030	45,414	31	2	440	75	29,982	
6 Essex.....	4,250	109,985,655	6,619,832	12,445,352	24,313,346	66,600,575	4,929	3,723	3,595,557	79,345	35,501,560	
7 Franklin.....	507	9,871,628	909,521	1,476,636	2,429,982	5,054,889	530	305	403,629	5,161	2,372,076	
8 Hampden.....	1,833	65,099,986	6,039,190	11,031,405	16,657,782	31,471,609	1,826	2,181	2,668,006	37,796	16,737,362	
9 Hampshire.....	642	13,006,452	755,315	2,257,913	2,793,691	7,109,533	686	338	424,976	9,469	8,846,244	
10 Middlesex.....	4,963	155,072,941	11,462,282	21,803,965	32,499,888	89,307,306	5,844	4,131	4,873,795	89,515	40,091,332	
11 Nantucket.....	8	69,630	2,100	7,150	37,040	23,340	9	3	665	24	13,022	
12 Norfolk.....	1,429	29,120,834	2,051,837	3,988,773	6,027,392	17,052,832	1,553	1,043	1,268,455	19,491	9,618,534	
13 Plymouth.....	1,173	22,769,959	1,119,476	2,203,605	3,787,944	15,708,934	1,839	1,106	1,118,519	20,923	11,015,033	
14 Suffolk.....	7,682	162,440,822	12,441,581	18,586,728	35,504,756	85,907,757	8,475	9,218	9,493,813	75,879	41,022,449	
15 Worcester.....	3,159	119,261,602	7,759,903	17,039,099	26,723,061	67,789,479	3,376	3,041	3,752,604	75,117	33,815,659	

TABLE 7.—MANUFACTURES BY

1 All industries.....	29,180	\$823,264,287	\$57,284,347	\$110,410,827	\$201,933,253	\$147,636,360	81,925	27,860	\$31,257,630	497,448	\$228,240,442
2 Agricultural implements.....	9	708,472	16,700	37,300	122,733	529,739	9	85	45,853	312	159,700
3 Artificial leathers and flowers.....	3	1,905			5	1,455	3	1	600	11	4,975
4 Artificial limbs.....	6	27,800	5,500	6,500	5,625	10,175	7			8	5,140
5 Awnings, tents, and sails.....	75	822,392	3,900	7,600	27,352	284,640	97	89	28,782	850	100,312
6 Babbitt metal and solder.....	8	7,750			1,000	6,750	2			2	1,474
7 Bags, other than paper.....	6	106,200			10,300	95,900	5	10	8,088	87	25,714
8 Baking and yeast powders.....	9	223,943	10,000	41,461	32,959	138,526	6	12	16,392	34	17,726
9 Baskets, and rattan and willow ware.....	34	162,365	10,335	36,637	43,925	66,918	40	7	4,974	191	31,867
10 Belting and hose, leather.....	17	564,187	4,000	6,000	88,514	405,673	12	45	58,949	182	113,324
11 Belting and hose, linen.....	18	156,791	500	5,000	90,400	120,891	1	10	10,400	76	24,332
12 Belting and hose, rubber.....	4	1,560,475	100,300	166,500	335,177	964,498	1	66	70,523	316	175,161
13 Bicycle and tricycle repairing.....	559	587,832	25,060	63,830	197,207	311,645	617	35	15,559	503	260,753
14 Bicycles and tricycles.....	25	2,646,498	51,614	444,363	903,361	1,241,660	19	139	117,242	1,581	815,624
15 Billiard tables and materials.....	13	182,212			13,300	118,912	17	4	6,736	79	52,594
16 Blacking.....	48	1,388,720	20,770	135,698	124,122	1,102,130	65	121	139,896	815	118,605
17 Blacksmithing and wheelwrighting.....	1,090	2,374,479	506,576	659,123	686,860	1,131,911	2,122	44	30,000	2,455	1,511,422
18 Bluing.....	8	205,109	5,600	13,000	5,940	131,160	10	12	14,274	51	23,938
19 Bookbinding and blank book making.....	103	2,638,264	143,831	292,237	44,469	1,537,727	113	167	140,104	2,608	1,141,014
20 Boot and shoe cutstock.....	270	5,475,277	127,120	260,605	465,111	4,622,441	348	226	202,731	4,390	1,609,307
21 Boot and shoe findings.....	188	2,467,639	63,548	163,618	370,011	1,859,462	169	147	122,300	2,178	843,290
22 Boot and shoe uppers.....	8	25,471			2,410	23,061	9		2,670	22	12,768
23 Boots and shoes, custom work and repairing.....	1,718	566,761	54,272	49,833	232,230	230,376	1,678	3	3,900	699	331,235
24 Boots and shoes, factory product.....	640	87,577,630	674,179	2,360,203	5,750,233	28,793,010	897	2,546	2,487,013	58,645	27,745,820
25 Boots and shoes, rubber.....	6	13,167,821	377,473	1,032,003	393,462	10,739,333	158	158	220,321	5,250	2,450,305
26 Bottling.....	158	1,756,123	123,935	230,300	329,014	1,073,374	200	123	112,741	739	404,973
27 Boxes, cigar.....	6	112,747	30,500	20,500	20,970	40,771	9	8	7,588	122	43,131
28 Boxes, fancy and paper.....	95	2,415,255	127,501	426,973	693,030	1,194,701	112	157	125,725	3,390	1,331,403
29 Boxes, wooden packing.....	94	2,413,227	396,674	414,193	535,123	1,037,220	111	97	80,705	2,081	914,332
30 Brass castings and brass finishing.....	48	1,666,401	143,450	193,935	204,090	1,119,266	56	55	63,332	1,123	608,609
31 Brassware.....	14	317,434	20,742	48,000	93,895	149,797	15	23	22,100	537	153,602
32 Bread and other bakery products.....	1,005	6,315,587	605,413	1,224,205	2,546,207	1,939,762	1,113	1,030	658,475	5,250	2,538,160
33 Brick and tile.....	81	2,318,694	669,263	881,134	481,213	637,049	103	54	44,205	1,429	622,311
34 Bridges.....	10	212,701	19,200	2,100	72,695	118,706	13	15	14,304	233	108,821
35 Brooms and brushes.....	65	1,494,482	15,835	36,600	128,234	1,313,703	70	83	91,023	1,105	425,739
36 Buttons.....	13	625,439	33,800	105,300	122,669	364,670	12	19	31,164	772	270,202
37 Carpentering.....	2,103	8,171,392	722,390	932,776	1,132,200	5,334,026	2,392	302	216,313	13,432	8,356,092
38 Carpets and rugs, other than rag.....	8	9,400,329	614,572	1,593,394	2,010,330	5,271,533	1	71	127,264	4,480	1,720,239
39 Carpets, rag.....	3	2,560			2,110	4,500	4			6	2,414
40 Carriage and wagon materials.....	39	1,052,561	43,750	129,300	177,863	701,143	46	34	41,310	580	291,939
41 Carriages and sleds, children's.....	4	304,430	35,000	69,000	26,916	233,574	8	16	22,436	280	133,178
42 Carriages and wagons.....	338	5,594,339	512,593	753,697	614,059	3,634,537	432	141	115,635	3,164	1,709,164
43 Cars and general shop construction and repairs by steam railroad companies.....	16	3,056,043	385,850	1,061,500	343,925	764,763		111	103,962	3,031	1,322,959
44 Cars and general shop construction and repairs by street railroad companies.....	6	159,323	40,100	74,000	18,550	26,678		3	2,450	71	48,917
45 Cars, street railroad, not including operations of railroad companies.....	8	902,420	242,741	210,302	64,675	334,702	2	10	17,576	473	260,911
46 Charcoal.....	4	5,900	125	1,500	2,200	2,075	4			6	2,235
47 Cheese, butter, and condensed milk, factory product.....	50	324,382	19,945	35,433	76,354	142,100	13	24	12,513	99	61,630
48 Chemicals.....	17	1,377,371	65,009	343,314	367,912	1,100,176	8	92	133,091	622	333,716
49 China decorating.....	15	26,535			4,350	21,735	15			11	5,375
50 Cleansing and polishing preparations.....	16	34,733	4,500	12,433	7,473	60,277	16	27	19,412	27	13,173
51 Clocks.....	5	533,753	41,000	74,000	132,950	291,303	4	22	21,932	96	56,501

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.										
341,783	\$180,155,824	143,109	\$45,630,800	12,556	\$2,453,728	\$73,209,015	\$7,970,695	\$6,070,464	\$47,010,908	\$12,156,948	\$552,717,955	\$540,562,917	\$12,155,038	\$1,035,198,989	1
276	139,846	150	40,311	8	726	25,052	7,775	2,830	12,112	2,335	441,657	494,111	7,546	862,046	2
11,540	5,631,312	5,626	1,711,783	672	125,888	2,088,817	186,885	207,966	1,583,546	160,420	14,442,048	13,797,038	645,605	80,291,805	3
39,845	18,820,540	23,293	7,674,657	3,127	617,170	6,512,488	935,788	1,174,670	4,579,157	872,823	40,711,961	45,030,786	1,681,175	99,763,121	4
59	26,658	14	3,142	2	182	8,750	1,657	488	2,037	4,718	50,900	50,146	754	129,194	5
63,969	27,606,613	23,851	7,675,193	1,525	819,764	8,367,819	962,035	618,147	5,139,823	1,052,814	99,192,813	97,048,680	1,544,188	166,806,159	6
4,175	2,101,366	851	245,802	135	24,968	471,587	34,432	85,845	328,785	22,475	4,489,516	4,238,254	201,262	9,491,461	7
24,801	12,930,294	11,897	3,643,189	1,098	218,879	5,432,301	466,081	524,098	3,620,115	822,007	37,858,984	36,618,225	1,240,709	73,569,063	8
5,813	2,774,266	3,359	1,015,660	297	66,818	823,779	62,869	117,675	513,811	129,424	8,602,716	8,398,942	208,774	15,905,879	9
69,428	31,146,824	27,989	8,508,488	2,098	406,020	13,205,598	894,218	1,232,816	9,713,405	1,965,154	112,207,902	110,098,578	2,109,329	192,514,008	10
24	13,022					1,181		809	822		15,560	15,425	135	44,991	11
14,758	8,170,409	4,681	1,410,738	152	32,387	2,057,078	179,157	166,515	1,477,716	238,690	21,244,655	20,732,153	512,502	89,870,609	12
16,048	9,100,715	4,965	1,866,085	325	48,203	1,947,789	178,572	153,338	1,451,780	104,099	30,210,247	29,904,638	305,604	49,775,252	13
55,641	34,423,408	19,495	6,463,605	743	135,436	21,396,600	3,897,985	978,426	12,766,117	6,754,282	105,765,275	104,115,952	1,649,323	217,384,437	14
55,900	27,870,611	17,432	5,472,237	2,379	472,802	7,870,271	763,496	812,391	5,821,682	472,702	71,538,176	69,479,949	2,053,227	138,789,964	15

SPECIFIED INDUSTRIES: 1900.

341,783	\$180,155,824	143,109	\$45,630,800	12,556	\$2,453,728	\$73,209,015	\$7,970,695	\$6,070,464	\$47,010,908	\$12,156,948	\$552,717,955	\$540,562,917	\$12,155,038	\$1,035,198,989	1
311	159,620			1	180	44,577	11,277	7,791	25,509		216,313	209,131	7,182	534,789	2
1	900	10	4,075			1,300	650	700			7,513	7,500	13	20,700	3
7	4,700	1	440			2,262	1,132	176	954		6,149	5,967	182	20,610	4
257	156,130	93	34,182			40,107	24,207	1,110	13,775	955	838,370	834,501	3,875	758,713	5
2	1,474					895	485	16	395		43,305	43,035	270	53,840	6
80	13,766	67	11,948			12,033	4,790	581	7,612		203,434	202,090	1,374	271,525	7
23	15,519	11	2,207			17,273	3,715	1,029	11,929		221,537	221,250	287	267,385	8
186	80,417	9	920	2	470	10,337	1,742	1,369	7,429		68,757	67,111	1,646	216,031	9
173	110,577	8	2,751			37,854	13,171	3,811	13,721	1,651	765,074	760,900	4,174	1,158,311	10
27	13,400	48	10,932			15,045	2,750	720	11,675		168,218	170,868	2,150	241,757	11
256	155,133	51	16,210	0	3,818	23,233	2,050	6,195	14,993		594,459	587,413	7,046	936,421	12
483	257,220	2	675	13	2,858	110,676	76,500	3,222	27,481	3,473	443,570	430,530	13,040	1,232,614	13
1,543	798,504	88	16,524			125,076	11,156	17,811	96,559	50	1,807,900	1,276,447	531,453	2,715,810	14
78	62,312			1	282	17,774	8,625	3,776	8,776		82,253	80,969	1,284	220,535	15
104	63,310	211	65,295			210,494	18,551	4,710	137,233		772,068	700,826	71,242	1,573,025	16
2,435	1,507,045			20	4,377	284,244	207,031	19,978	49,811	7,424	1,440,384	1,351,182	89,202	5,297,844	17
18	9,984	33	13,404			21,428	362	416	20,650		44,731	43,969	762	133,535	18
1,161	725,627	1,882	405,651	65	9,836	305,327	63,010	11,233	170,500	56,575	1,414,849	1,339,709	25,140	3,613,437	19
2,936	1,344,896	1,391	343,928	63	10,383	390,223	109,516	25,322	247,897	6,833	14,272,487	14,217,792	54,695	18,238,922	20
1,314	619,708	814	214,830	50	8,732	167,294	43,314	11,861	81,832	20,287	3,920,863	3,820,863	99,000	5,794,240	21
22	12,768					1,086	1,890	4	292		61,463	61,800	103	90,130	22
682	330,029	8	2,400	9	1,806	207,319	182,364	2,428	20,556	2,470	632,890	617,040	15,850	2,050,724	23
80,022	20,373,248	18,636	6,636,138	937	186,434	4,326,896	309,893	192,577	3,252,789	981,637	75,751,964	75,331,907	420,057	117,115,243	24
2,921	1,672,136	2,272	774,152	57	10,017	1,081,132	127,560	127,560	953,568		3,337,688	3,262,482	75,206	10,490,015	25
716	399,071	20	5,352	8	650	287,070	67,007	23,835	184,838	1,300	2,722,621	2,700,613	22,008	4,384,037	26
62	23,256	60	14,875			4,875	1,570	1,390	2,115		84,849	83,139	1,710	169,273	27
1,184	605,923	2,609	700,495	97	15,948	203,239	53,703	19,367	93,664	32,562	1,323,543	1,291,564	31,979	4,145,292	28
1,822	340,911	238	70,680	21	2,741	135,774	21,615	21,457	138,302	4,000	2,052,669	2,038,449	14,220	3,723,513	29
1,127	668,331	110	29,068	1	233	79,617	21,574	14,452	43,441	150	1,945,395	1,870,788	69,307	2,995,062	30
225	124,228			2	306	18,324	7,608	1,925	8,791		162,378	150,627	6,751	443,787	31
3,911	2,216,771	1,263	303,222	76	13,196	330,081	317,872	39,074	480,905	330	3,346,701	3,113,659	233,042	15,420,529	32
1,425	621,661			8	650	90,672	16,332	18,564	62,826	2,750	409,365	393,071	302,294	1,403,234	33
233	108,321					15,700	2,250	760	12,500	100	171,632	171,632	4,273	359,602	34
654	273,701	519	146,636	32	5,452	125,731	25,854	11,538	37,779	500	1,039,053	1,077,209	11,844	2,036,415	35
302	141,049	443	131,929	27	8,224	27,605	4,176	5,392	17,777	160	237,835	229,116	8,719	681,081	36
13,423	8,355,057	2	350	7	1,585	4,035,865	163,553	38,723	252,623	3,580,961	14,638,790	14,570,276	68,514	32,741,606	37
2,022	990,216	1,054	629,638	504	94,435	427,241	688	77,957	329,705	18,896	3,989,945	3,891,739	98,156	6,966,237	38
5	2,114					390	720		170		730	730		7,000	39
577	290,783	1	312	2	304	62,368	14,839	5,620	40,807	1,002	629,603	611,733	17,770	1,250,330	40
254	126,718	24	11,500	2	500	42,353	1,400	2,466	38,487		287,314	282,469	4,875	672,561	41
3,148	1,704,066	16	5,158			346,351	117,419	35,900	172,300	20,732	2,585,363	2,522,181	63,182	6,118,121	42
3,023	1,321,912	3	1,047			32,544	2,500	50	20,994		1,762,564	1,707,118	45,446	3,712,029	43
71	48,947					5,225	60	1,085	4,150		95,927	95,337	540	156,580	44
473	260,911					30,523	555	5,448	24,520		363,188	358,635	9,503	742,535	45
6	2,295					95	45	25	25		5,012	5,012		9,766	46
99	61,636					15,240	3,971	1,916	8,520	830	1,024,575	1,015,476	9,099	1,198,159	47
580	323,631	39	9,476	3	600	263,236	5,730	16,791	240,665	5,000	1,080,323	985,635	95,171	2,010,330	48
6	4,025	5	1,850			3,818	2,772	19	927	130	26,366	26,175	191	49,890	49
20															

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 Cloth, sponging and refinishing	4	\$6,100			\$3,100	\$3,000	5		14	\$6,616	
53 Clothing, men's, custom work and repairing.	1,527	3,030,443	\$57,495	\$65,839	283,641	2,628,968	1,685	806	5,091	2,551,641	
54 Clothing, men's, factory product	194	8,793,174	17,025	60,025	179,056	3,587,038	276	316	3,338	1,422,278	
55 Clothing, men's, factory product, buttonholes.	3	1,554			1,500	54	3		3	4,333	
56 Clothing, women's, dressmaking	1,335	998,980	51,445	84,650	108,992	663,893	1,406	98	4,172	1,532,926	
57 Clothing, women's, factory product	119	1,616,991	16,400	68,800	242,054	1,294,737	159	140	3,448	1,033,004	
58 Coffee and spice, roasting and grinding.	24	1,905,955	16,000	35,000	158,938	1,697,017	172	172	286	195,268	
59 Coffins, burial cases, and undertakers' goods.	15	716,185	22,000	71,000	184,175	489,010	15	53	284	160,213	
60 Combs	16	385,077	13,600	33,150	59,786	278,541	21	31	752	327,658	
61 Confectionery	249	2,212,389	180,468	214,212	693,018	1,124,691	278	376	2,942	1,046,114	
62 Cooperage	73	937,287	125,395	248,205	112,143	481,454	77	39	944	442,494	
63 Cordage and twine	19	7,697,434	408,900	865,721	1,317,447	5,105,366	9	84	3,803	1,100,990	
64 Cordials and sirups	3	12,273			783	11,490	5	4	6	2,012	
65 Cork, cutting	5	75,574			18,621	56,953	6	11	61	22,435	
66 Corsets	14	939,656	11,722	97,847	111,449	718,638	13	95	1,085	331,334	
67 Cotton goods	163	155,761,193	8,716,746	30,066,848	57,928,100	59,049,499	37	1,080	92,085	32,327,443	
68 Cotton small wares	14	528,258	10,774	77,353	240,819	190,312	11	24	430	161,234	
69 Cotton waste	8	1,264,414	104,620	131,446	136,234	892,114	6	26	446	170,281	
70 Cutlery and edge tools	65	3,116,274	225,400	636,445	599,372	1,655,057	74	97	2,100	1,033,291	
71 Dentists' materials	6	41,154	75	125	12,581	28,373	7	23	33	18,944	
72 Druggists' preparations, not including prescriptions.	13	502,696	3,125	21,000	71,070	407,501	7	75	145	60,611	
73 Dyeing and cleaning	85	291,650	51,790	67,900	60,925	111,044	96	22	428	201,106	
74 Dyeing and finishing textiles	37	15,208,200	1,161,503	1,960,972	2,499,388	9,584,337	24	239	4,678	2,081,015	
75 Dye stuffs and extracts	10	592,510	91,800	68,000	60,973	371,737	11	27	49	28,226	
76 Electrical apparatus and supplies	54	8,289,612	112,300	716,298	1,280,069	6,150,945	84	565	5,202	2,714,449	
77 Electrical construction and repairs	140	637,531	4,050	2,650	69,515	611,316	158	90	701	399,588	
78 Electroplating	54	141,496	3,693	5,700	75,050	57,146	64	8	219	113,779	
79 Emery wheels	9	597,430	27,100	72,932	124,325	373,078	4	47	271	161,620	
80 Enameling and enamelled goods	14	47,405	1,225	4,150	21,985	20,045	17	3	105	47,498	
81 Engraving and diesinking	56	77,926	1,140	3,975	40,656	31,655	73	12	104	58,354	
82 Engraving, steel, including plate printing.	33	133,211	50	550	34,401	98,180	87	12	193	131,595	
83 Engraving, wood	17	48,600			10,380	38,220	22		53	31,574	
84 Envelopes	12	2,318,032	148,844	486,822	864,765	378,621	2	105	976	389,620	
85 Fancy articles, not elsewhere specified	82	554,847	2,550	7,650	66,239	278,348	82	31	857	145,510	
86 Felt goods	7	1,838,640	184,400	229,930	324,212	650,098	1	19	464	130,785	
87 Fertilizers	9	3,250,030	150,179	227,967	396,601	2,476,238	7	171	227	115,083	
88 Files	11	50,575	6,000	8,800	18,950	16,825	2	2	75	39,492	
89 Firearms	10	1,932,602	200,900	379,714	631,303	729,685	10	78	1,008	862,565	
90 Fish, canning and preserving	61	1,734,227	194,557	206,559	255,583	1,076,548	85	122	1,325	476,123	
91 Flags and banners	8	4,799			460	4,349	4		4	1,900	
92 Flavoring extracts	39	585,284	9,175	21,050	37,679	467,380	42	77	189	60,207	
93 Flouring and grist mill products	211	1,930,927	208,518	461,901	340,333	984,670	270	53	304	1,154,484	
94 Food preparations	58	982,838	36,735	67,895	207,206	671,067	61	123	500	227,454	
95 Foundry and machine shop products	825	62,498,939	4,003,900	8,366,961	13,354,712	36,774,413	806	2,134	32,234	17,862,554	
96 Fruits and vegetables, canning and preserving.	9	48,375	925	900	13,900	26,950	12	9	139	89,946	
97 Fur goods	42	153,679	200	500	12,735	140,244	47	24	217	140,862	
98 Fur hats	11	1,467,700	46,356	819,161	363,939	738,304	18	54	1,823	790,786	
99 Furnishing goods, men's	12	841,070	7,400	16,000	36,972	280,698	16	46	498	181,398	
100 Furniture, cabinetmaking, repairing, and upholstering.	500	1,110,171	42,790	76,885	141,586	848,910	548	52	1,203	701,243	
101 Furniture, factory product	120	10,987,220	427,404	1,417,420	992,158	8,150,238	156	310	6,092	2,925,391	
102 Galvanizing	4	21,460		150	3,910	17,400	4		14	8,316	
103 Gas and lamp fixtures	9	247,066			101,600	145,466	12	27	158	98,594	
104 Gas, illuminating and heating	63	30,032,578	3,591,388	6,621,853	16,941,434	2,377,903	434	420	1,409	813,459	
105 Gas machines and meters	6	555,924	16,500	11,750	33,770	488,904	25	25	192	120,725	
106 Glass	5	258,949	33,900	50,047	35,150	140,752	2	39	387	188,674	
107 Glass, cutting, staining, and ornamenting.	26	143,241	1,013	3,100	25,724	113,404	36	19	178	113,938	
108 Gloves and mittens	9	111,005	1,100	5,355	11,315	93,235	10	7	201	86,310	
109 Glue	14	1,004,101	122,390	173,910	151,038	556,263	16	31	238	125,569	
110 Gold and silver, leaf and foil	8	47,350	1,300	3,300	8,250	34,500	8	1	96	48,220	
111 Gold and silver, reducing and refining, not from the ore.	4	43,556	4,200	10,100	8,875	20,381	7	1	7	4,980	
112 Grease and tallow	41	1,860,076	299,296	777,915	299,453	483,407	46	42	424	219,476	
113 Hairwork	31	51,570			8,375	43,195	33	2	74	26,610	
114 Hand knit goods	9	10,913	173	1,225	5,795	9,750	9	1	12	5,335	
115 Hand stamps	25	65,810			27,860	37,950	29	18	74	29,239	
116 Hardware	25	780,845	31,116	89,982	146,760	612,987	32	23	616	250,180	
117 Hats and caps, not including fur hats and wool hats.	50	1,798,071	150,938	240,066	315,383	1,091,084	65	80	2,245	1,038,768	
118 Hosiery and knit goods	54	6,288,672	369,994	711,522	1,268,522	3,939,534	36	166	6,667	2,091,258	
119 House furnishing goods, not elsewhere specified.	15	1,242,639	36,700	105,390	260,579	819,970	12	62	381	174,225	
120 Ink, writing	6	232,097	3,125	6,500	22,322	200,150	7	65	71	27,315	
121 Instruments, professional and scientific.	14	229,510	3,250	14,400	30,436	179,374	12	15	59	31,633	

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
14	\$6,615	1,940	\$697,805	67	\$13,059	\$2,169	\$1,810	\$14	\$345		\$560	\$100	\$160	\$17,600	52
8,081	1,840,777	1,929	550,429	8	1,426	1,182,472	499,268	16,971	197,124	\$109,114	8,854,880	8,318,798	85,687	9,860,673	53
1,896	870,423	5	1,763			495	336	29,760	183,544	1,088,134	5,011,759	4,985,602	26,157	9,830,954	54
3	2,570							8	156		648	496	147	8,044	55
819	228,271	8,840	1,802,488	18	2,167	317,710	247,594	4,593	44,927	20,596	1,498,028	1,477,448	15,680	4,767,972	56
418	241,031	2,997	831,521	28	4,450	261,597	82,599	9,302	185,024	84,672	2,795,143	2,775,082	20,061	6,201,050	57
178	159,459	108	35,809			232,949	30,500	10,209	192,240		2,966,805	2,946,072	20,738	8,920,000	58
287	140,662	47	19,551			48,563	14,484	4,890	21,189		295,892	287,775	8,117	682,922	59
635	286,451	109	39,407	8	1,800	50,960	5,085	2,170	18,076	25,020	580,693	511,154	19,539	1,099,467	60
1,118	644,829	1,737	389,418	87	11,867	417,846	169,496	23,108	222,042	8,200	4,083,063	4,028,978	54,085	7,011,632	61
982	438,894	12	3,600			63,105	8,079	8,497	45,729	800	808,885	796,876	7,009	1,578,018	62
2,123	788,965	1,029	282,921	151	29,104	418,861	3,720	04,228	848,764	2,154	6,527,318	6,449,193	78,125	9,635,671	63
2	1,680	4	332			3,813	2,620	30	1,263		12,027	11,847	180	25,711	64
42	18,695	19	3,800			7,658	2,780	150	4,728		51,101	49,821	1,280	117,149	65
92	68,029	908	274,345	25	3,960	200,555	10,930	7,155	182,470		544,145	539,581	4,614	1,641,866	66
45,105	18,298,487	41,057	12,855,112	5,928	1,178,874	7,243,357	18,714	1,654,300	5,391,818	183,530	54,068,098	51,887,324	2,180,714	110,478,827	67
140	68,686	241	74,138	49	8,480	81,754	5,392	4,515	21,877		321,007	310,807	10,200	646,848	68
243	115,802	203	51,479			11,700	8,609	8,609	87,827		2,609,134	2,601,753	7,381	2,987,588	69
1,970	1,043,855	84	28,652	46	10,774	130,209	13,180	25,419	91,560	50	806,601	743,943	62,658	2,608,075	70
29	17,144	4	1,800			14,567	3,744	34	10,779		57,163	56,525	638	117,740	71
77	89,199	63	20,502	5	910	41,754	16,858	2,668	22,738		302,180	300,065	2,065	618,814	72
192	116,405	235	87,493	1	208	44,865	26,401	1,471	12,558	4,435	68,871	50,996	8,875	522,616	73
8,844	1,838,341	735	229,597	97	18,074	860,829	7,517	86,717	766,802	16,798	3,110,010	2,711,687	399,223	8,868,290	74
48	27,026	1	600			20,449	3,606	1,910	14,933		1,123,838	1,115,568	8,265	1,320,881	75
4,256	2,445,100	848	244,221	103	25,128	454,098	62,103	87,276	845,802	8,827	5,250,298	5,178,091	72,202	10,490,361	76
627	373,034	74	26,554			69,249	28,917	1,371	33,595	2,866	693,658	689,024	4,634	1,521,896	77
198	103,451	17	4,533	4	792	21,901	16,447	647	4,307	500	73,062	66,955	6,107	297,760	78
270	161,100	1	529			63,086	4,100	6,483	62,443		244,855	227,498	16,857	672,740	79
67	36,419	96	10,389	2	600	5,472	8,686	117	1,699		24,705	19,748	4,957	118,480	80
93	55,344	10	2,750	1	260	31,211	11,908	382	4,751	14,770	85,103	82,811	2,292	216,728	81
143	117,054	47	16,885	8	656	40,953	12,407	462	27,644	440	62,552	60,712	1,840	353,700	82
50	30,542	3	1,032			9,102	8,686	187	1,284		8,456	7,719		83,934	83
299	171,867	678	216,825	4	928	192,164	14,036	10,588	167,491	8,995	1,199,167	1,189,133	10,034	2,132,353	84
144	87,597	211	67,943	2	270	43,007	18,083	1,646	20,540	2,898	455,639	453,409	2,130	852,459	85
402	165,861	47	12,512	15	2,422	67,612	6,080	7,169	84,968		953,203	931,217	21,986	1,626,330	86
226	114,619	1	464			199,787	4,126	15,209	180,452		1,115,818	1,102,144	13,674	2,074,590	87
75	39,492					4,474	2,684	234	1,256	300	12,795	10,111	2,682	86,668	88
1,561	854,819	2	1,096	40	7,150	120,809	5,520	19,804	101,575		509,555	487,221	22,334	1,978,179	89
1,194	449,781	184	25,342			118,053	21,296	18,042	82,320	800	3,471,112	3,460,821	10,291	4,619,302	90
8	1,500	1	400			971	696		276		5,818	5,810	8	11,400	91
89	44,098	49	15,840	1	350	68,420	20,932	9,156	44,892		522,324	519,250	3,074	1,022,236	92
802	161,264			2	222	95,774	28,094	15,107	62,673		4,812,256	4,777,109	85,147	5,768,523	93
351	184,128	141	41,858	8	1,473	573,680	90,710	6,311	536,969	300	928,862	903,549	29,313	2,978,219	94
31,845	17,749,504	920	101,241	69	12,109	3,535,269	393,933	380,887	2,567,881	194,169	21,357,406	20,587,835	769,571	56,290,159	95
57	21,660	79	17,760	8	525	7,392	4,724	463	2,205		384,600	381,206	3,394	831,645	96
83	72,840	134	68,522			81,289	18,459	484	9,221	8,125	251,107	250,455	652	597,999	97
976	514,262	884	274,254	13	2,270	97,787	9,910	10,667	70,410	6,900	1,389,616	1,362,218	27,398	2,639,964	98
79	34,572	418	146,650	1	176	55,804	10,321	1,811	43,172		632,007	625,558	6,449	1,029,369	99
1,027	688,609	169	66,414	7	1,220	105,959	105,443	5,622	44,529	10,865	1,136,209	1,128,985	12,224	2,745,149	100
5,506	2,784,886	552	184,132	34	6,818	1,105,780	98,606	74,883	515,656	616,495	4,557,565	4,450,555	107,010	11,214,503	101
14	8,816					2,169	700	42	1,821	100	14,813	18,903	910	36,150	102
151	96,494	2	1,050	5	1,050	37,075	11,030	874	25,171		122,135	118,559	3,576	335,364	103
1,406	811,587	8	1,872			1,147,205	40	815,907	881,258		1,651,878	1,569,289	82,584	5,868,364	104
186	118,830	8	1,248	3	717	24,510	7,460	945	16,105		132,288	129,661	2,627	334,320	105
813	179,236	19	4,392	25	5,046	14,243	500	8,155	10,888		137,185	104,188	33,047	418,458	106
171	111,058	7	2,880			29,929	16,148	981	10,800	2,000	62,936	59,823	3,113	296,815	107
61	42,918	134	42,497	6	900	6,942	3,690	480	1,772	1,000	124,170	122,805	1,365	289,210	108
258	115,098	35	10,471			60,888	6,403	7,931	46,499	50	638,990	654,547	54,443	913,489	109
47	30,520	45	16,700	4	1,000	2,256	1,540	79	637		90,037	89,579	458	166,250	110
7	4,980					1,021	672	121	228		24,674	24,129	545	44,159	111
423	219,226			1	250	116,468	4,341	12,454	97,273	2,400	1,148,136	1,104,601	38,535	1,879,908	112
10	4,797	63	21,083	1	130	19,028	15,635	237	2,956		37,664	37,196	368	37,290	113
8	4,777	4	818			1,054	440	47	367		5,972	5,850	122	20,679	114
58	25,045	14	3,935	2	300	28,897	8,302	394	7,312	12,880	81,310	30,406	901	135,204	115
529	260,250	16	3,850	71	26,090	67,419	9,468	4,857	52,844	260	299,976	288,136	11,840	805,588	116
892	582,915	1,308	454,656	5	1,197	211,025	86,345	10,080	131,930	82,670	2,290,217	2,244,307	45,910	4,838,486	117
1,638	762,011	4,549	1,268,548	460	75,684	528,103	18,580	55,519	340,054	118,950	2,910,640	2,838,926	71,714	6,620,257	118
248	136,572														

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.
122 Iron and steel	8	\$13,738,593	\$411,300	\$1,005,500	\$4,711,180	\$7,607,663	98	\$162,617	6,125	\$3,408,827	
123 Iron and steel, bolts, nuts, washers, and rivets.	10	1,510,515	68,915	203,005	835,226	408,309	70	99,855	943	411,500	
124 Iron and steel, forgings	6	322,235	18,900	53,244	133,976	111,115	7	20,250	233	131,979	
125 Iron and steel, nails and spikes, cut and wrought, including wire nails.	44	2,519,781	157,124	380,424	693,825	1,288,408	51	133,077	1,076	619,013	
126 Ironwork, architectural and ornamental.	27	1,725,332	139,408	183,010	225,743	1,177,173	28	104,035	981	695,199	
127 Ivory and bone work	10	345,100	8,700	40,864	99,260	196,776	30	13,628	574	232,127	
128 Japanning	5	40,190	7,600	12,700	3,150	16,740	4	2,400	26	14,033	
129 Jewelry	138	4,917,105	74,472	321,295	1,297,767	3,223,571	225	372,832	5,694	2,780,993	
130 Jewelry and instrument cases	4	10,850	2,000	500	4,800	3,550	7		29	8,057	
131 Kaolin and other earth grinding	12	737,835	116,103	195,660	77,716	398,356	12	36,900	206	123,530	
132 Kindling wood	7	103,450	50,100	21,000	24,500	12,850	15	400	79	24,298	
133 Lamps and reflectors	10	95,946	1,000	6,000	33,784	50,162	12	15,816	166	86,955	
134 Lapidary work	3	23,100			4,900	18,200	2	3,070	17	10,300	
135 Laste	23	678,646	53,601	125,425	161,318	338,302	35	85,004	414	237,475	
136 Lead, bar, pipe, and sheet	4	945,725	202,000	139,000	143,717	456,008	29	40,650	101	64,940	
137 Leather goods	87	416,261	7,648	23,750	84,484	295,384	41	40,853	478	193,267	
138 Leather, tanned, curried, and finished	119	15,317,340	860,099	1,339,948	1,745,068	11,371,925	160	405,648	7,010	8,379,693	
139 Lime and cement	11	115,639	20,100	28,700	10,800	50,030	16	2,640	130	69,823	
140 Linen goods	8	2,520,056	83,074	433,065	619,778	1,484,130	5	60,604	1,387	459,472	
141 Liquors, distilled	8	553,874	72,575	120,000	73,500	232,799	6	21,180	29	21,920	
142 Liquors, malt	40	18,136,623	2,074,101	6,226,373	4,421,247	5,414,902	15	639,036	1,051	1,340,412	
143 Liquors, vinous	6	33,700	2,300	6,450	2,200	22,750	7		5	2,700	
144 Lithographing and engraving	21	1,564,563	29,000	86,257	547,268	902,038	16	164,799	1,079	569,230	
145 Lock and gun smithing	151	126,122	2,000	4,688	51,906	67,528	145	2,204	108	56,535	
146 Looking-glass and picture frames	135	375,033	11,485	25,950	32,425	305,178	154	27,857	278	151,605	
147 Lumber and timber products	553	6,253,171	1,715,459	696,998	1,111,577	2,729,137	685	81,896	2,768	1,215,088	
148 Lumber, planing mill products, including sash, doors, and blinds.	143	4,120,037	469,727	635,123	725,398	2,299,289	150	228,867	2,434	1,344,060	
149 Marble and stone work	231	5,208,306	1,624,217	561,894	1,293,482	1,728,713	266	134,853	8,894	2,053,115	
150 Masonry, brick and stone	769	3,730,734	490,153	360,925	709,872	2,169,784	354	149,705	8,741	4,871,031	
151 Mattresses and spring beds	37	501,988	34,000	23,655	60,735	378,598	30	67,350	624	272,339	
152 Millinery and lace goods	25	706,454	46,300	136,100	100,491	423,563	33	41,684	993	431,040	
153 Millinery, custom work	374	1,600,520	54,700	96,190	135,026	1,314,028	958	100,850	2,216	339,513	
154 Mineral and soda waters	129	1,192,648	114,350	176,764	370,960	529,969	159	75,039	460	232,050	
155 Mirrors	6	113,900	400	2,000	21,601	89,999	6	5,808	66	35,531	
156 Models and patterns	75	163,074	3,400	4,000	71,991	88,633	92	7,302	259	149,387	
157 Monuments and tombstones	241	2,012,395	409,348	210,571	255,243	1,137,233	305	71,739	1,827	1,110,547	
158 Mucilage and paste	23	394,312	37,990	43,800	52,275	255,337	27	30,864	92	56,067	
159 Musical instruments and materials, not specified.	34	336,621	620	910	61,092	273,899	37	11,890	248	134,131	
160 Musical instruments, organs and materials.	24	853,507	29,400	97,729	133,851	587,527	29	59,660	629	408,049	
161 Musical instruments, pianos and materials.	37	6,153,597	596,691	869,636	493,053	4,194,107	28	257,983	2,546	1,494,973	
162 Needles and pins	6	245,168	5,000	25,000	47,599	167,569	8	8,300	262	102,757	
163 Nets and seines	6	750,652	25,698	65,225	144,221	555,508	6	30,045	430	143,919	
164 Oil, not elsewhere specified	22	604,012	62,342	78,842	93,769	369,059	27	42,168	160	84,235	
165 Optical goods	35	1,318,369	39,806	151,441	180,037	947,025	42	60,348	1,469	660,090	
166 Painting, house, sign, etc	1,743	2,569,528	213,694	310,442	393,716	1,642,071	1,985	100,070	6,114	3,536,919	
167 Paints	30	1,300,708	80,476	207,241	202,269	810,722	26	102,784	337	176,101	
168 Paper and wood pulp	93	26,692,922	3,572,653	5,805,874	7,156,007	10,158,333	35	861,152	9,061	3,933,400	
169 Paper goods, not elsewhere specified	34	5,084,153	69,825	363,199	625,063	2,025,068	28	256,346	1,487	630,435	
170 Paper hanging	98	173,975	5,700	5,300	19,463	143,012	111	11,166	304	197,715	
171 Paper hangings	4	376,540	50,735	53,379	136,276	136,150	3	44,649	169	90,562	
172 Patent medicines and compounds	143	2,766,794	132,611	308,022	260,596	2,015,565	155	278,117	1,259	401,335	
173 Paving and paving materials	56	777,222	119,300	74,550	171,433	411,634	32	61,008	951	483,320	
174 Perfumery and cosmetics	13	144,324	250	5,500	3,705	129,869	14	13,949	57	26,656	
175 Photographic apparatus	3	109,600			15,100	94,500	2	4,707	55	23,070	
176 Photographic materials	13	161,943	4,300	33,720	63,593	65,325	10	15,468	95	49,419	
177 Photography	492	937,735	37,961	100,404	444,656	354,714	428	62,318	760	391,756	
178 Photolithographing and photoengraving.	16	133,126			43,325	89,801	18	24,036	233	151,037	
179 Pickles, preserves, and sauces	30	520,582	3,050	9,150	61,725	455,657	30	76,919	281	108,643	
180 Pipes, tobacco	6	81,320	825	1,250	7,325	72,420	7		45	32,112	
181 Plastering and stuccowork	103	406,341	34,920	71,040	72,970	227,411	142	27,504	675	435,067	
182 Plated and britannia ware	4	1,170,606	39,592	223,500	282,631	624,973	1	22,893	193	95,722	
183 Plumbers' supplies	13	439,549	22,200	23,550	75,136	347,663	7	44,794	374	182,313	
184 Plumbing, and gas and steam fitting	1,072	4,765,389	293,283	376,731	523,813	3,564,554	1,284	233,378	5,432	3,304,640	
185 Pottery, terra cotta, and fire-clay products.	29	1,627,575	370,380	523,942	197,273	536,480	26	60,360	534	262,141	
186 Printing and publishing, book and job.	535	3,933,698	233,760	403,394	3,593,538	4,647,456	654	837,219	5,427	2,906,519	
187 Printing and publishing, music	9	294,335			133,142	156,693	6	48,137	160	86,251	
188 Printing and publishing, newspapers and periodicals.	396	10,392,258	793,035	613,734	4,074,133	4,906,256	346	2,027,034	5,432	3,769,204	
189 Pumps, not including steam pumps	3	13,050	1,050	4,900	3,100	4,000	4	600	5	2,203	
190 Refrigerators	12	157,259	22,000	23,600	20,400	86,259	19	5,912	107	62,137	
191 Regalia and society banners and emblems.	12	35,977			6,627	29,350	15	538	39	15,193	

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
5,931	\$8,847,698	171	\$54,544	23	\$6,645	\$1,001,756	\$15,000	\$72,880	\$914,426		\$7,542,888	\$7,006,018	\$636,875	\$18,491,169	122
614	353,212	817	86,272	12	2,016	120,177	7,095	11,616	95,566	\$5,900	1,025,677	1,000,908	24,709	1,894,885	128
233	131,979					13,713	1,265	2,023	10,425		204,703	172,794	31,909	407,075	124
781	421,938	269	90,404	26	6,671	125,805	10,771	21,303	93,781		1,749,321	1,706,469	42,852	2,902,876	125
981	595,199					155,817	12,708	8,055	96,809	38,245	1,456,376	1,436,071	21,304	2,546,779	126
448	203,000	100	24,180	26	4,097	32,918	6,549	1,711	24,658		414,720	403,768	10,967	774,311	127
24	13,433	2	600			2,007	2,000	425	182		22,717	21,611	1,106	48,319	128
8,493	1,979,381	2,177	796,611	21	5,001	278,510	82,006	20,029	167,345	9,130	4,890,447	4,332,634	57,813	10,815,384	129
11	4,292	18	3,765			1,629	704	65	800		7,659	7,259	400	239,074	130
206	123,586					80,764	9,964	4,403	14,527	1,860	246,836	228,691	18,145	526,052	131
79	24,238					3,559	1,596	528	1,435		53,880	51,782	2,148	99,761	132
143	80,400	23	6,565			16,620	5,012	665	10,843		74,744	72,233	2,511	19,685	133
17	10,300					3,051	1,850	25	1,276	1,000	26,677	26,277	400	60,460	134
413	287,331	1	144			52,727	9,596	4,818	88,213	600	225,860	212,088	13,772	868,812	135
100	61,758			1	182	49,362	150	11,866	37,346		809,859	800,430	9,429	1,008,507	136
261	196,398	205	55,726			60,493	14,050	2,169	44,089	195	441,171	434,928	6,248	978,086	137
0,965	3,658,807	48	19,807	7	1,584	662,553	73,209	88,961	500,293		10,793,767	10,564,541	229,216	26,067,714	138
180	69,823					7,630	1,825	1,312	2,893	2,100	122,438	68,176	54,267	261,477	139
625	229,020	739	207,170	123	22,682	182,251	3,150	21,081	153,020		1,000,225	966,959	33,266	1,787,762	140
29	21,920					441,231	3,000	6,058	432,173		308,414	292,970	15,485	857,096	141
1,641	1,836,427	10	8,985			4,781,640	324	115,875	4,614,343	988	2,848,050	2,622,979	220,071	11,255,613	142
5	2,700					1,589	190	184	1,215		5,701	5,691	100	10,685	143
796	483,829	254	75,264	29	10,187	283,874	20,077	7,813	181,008	75,476	555,644	541,367	14,277	1,789,161	144
100	64,035	6	2,058	2	442	38,646	25,966	6,193	30,467	1,020	64,387	60,772	4,065	1,787,762	145
275	150,252	3	1,443			64,266	43,104	3,842	15,570	1,750	358,192	355,008	3,184	798,756	146
2,713	1,200,167	50	14,046	5	875	297,759	18,029	43,880	228,530	7,820	3,574,418	3,570,042	4,376	6,526,230	147
2,403	1,335,060	11	3,928	20	5,672	280,761	57,524	33,224	162,923	27,090	3,635,754	3,501,444	44,310	6,292,281	148
3,888	2,056,695			6	1,420	272,759	82,950	34,812	194,683	10,314	1,576,697	1,498,204	78,493	5,078,098	149
3,740	4,870,831			1	200	1,782,226	86,684	20,624	255,543	1,469,975	7,527,603	7,527,603	86,941	16,628,973	150
428	207,712	196	64,647			109,376	49,055	3,012	56,709		914,802	901,490	13,312	1,617,503	151
271	186,844	721	298,982	1	220	39,543	16,008	4,178	19,277		1,024,114	1,010,726	13,388	1,818,967	152
40	24,504	2,162	811,217	24	3,792	407,622	328,967	10,029	68,426	200	2,481,469	2,467,306	14,163	5,075,601	153
447	225,775	5	5,371	6	910	172,825	29,142	8,155	183,923	1,600	453,145	440,069	13,076	1,267,879	154
06	35,681					5,222	2,696	67	2,559		92,818	89,978	2,840	186,967	155
248	147,034	11	2,853			33,136	10,562	704	10,120	750	66,555	61,494	5,061	838,933	156
1,627	1,110,547					211,781	18,862	16,635	111,761	64,423	774,529	742,175	32,354	2,917,623	157
70	46,665	21	9,246	1	156	30,600	9,436	2,109	19,055		712,404	703,633	8,771	984,782	158
235	129,307	13	4,824			25,473	11,656	653	13,064	100	174,814	168,212	6,602	499,239	159
573	387,420	55	20,407	1	162	85,819	12,160	6,965	66,535	159	866,689	853,899	12,790	1,189,585	160
2,373	1,448,762	173	46,211			430,097	36,610	28,070	267,292	98,125	1,985,401	1,906,604	28,797	4,981,966	161
132	71,169	99	26,205	31	5,383	9,394	1,025	1,679	6,690		26,565	23,555	3,010	228,861	162
47	31,444	383	117,475			46,130	6,660	5,599	33,971		600,268	496,693	3,575	876,300	163
149	80,485	10	3,550	1	200	66,815	7,144	3,528	56,148		1,279,104	1,264,129	14,975	1,700,641	164
1,157	577,724	248	72,445	64	10,821	159,313	16,481	16,159	88,258	39,420	984,488	974,073	10,415	2,082,837	165
6,088	3,579,674	15	4,857	11	2,338	322,322	174,186	13,048	101,994	33,094	2,269,489	2,234,836	14,653	8,499,066	166
167	166,473	26	9,628			112,789	18,170	11,591	89,023		1,832,899	1,803,191	29,708	2,005,962	167
5,626	3,004,087	3,423	932,873	7	1,440	1,693,505	9,654	262,885	1,416,117	4,899	11,918,802	10,661,591	1,254,211	22,141,461	168
339	446,583	618	177,813	30	6,090	221,905	85,004	18,113	168,288	500	2,740,664	2,699,371	41,693	4,322,860	169
301	106,733	3	987			19,187	85,358	911	12,735	2,625	258,979	256,419	660	618,639	170
148	86,734	17	3,100	4	728	8,853	4,450	398	4,005		173,980	169,066	4,864	445,242	171
582	245,817	672	155,026	5	992	2,271,748	38,980	18,748	2,208,672	5,403	1,780,278	1,764,979	15,299	5,819,335	172
919	483,260	1	200			71,513	7,052	4,986	45,014	14,461	433,682	415,459	18,223	1,394,868	173
29	13,626	95	12,850	1	180	73,494	6,030	243	67,221		167,392	166,136	1,256	849,043	174
86	19,330	17	8,540	2	200	8,405	1,850	30	7,025		22,553	21,945	608	95,000	175
60	33,918	32	10,189	3	812	12,953	3,542	979	8,432		201,929	196,230	5,699	421,930	176
441	262,724	318	123,037	2	995	209,812	126,522	7,789	68,640	6,861	506,071	496,042	9,429	1,740,878	177
197	140,427	34	10,250	6	350	31,316	14,865	529	15,672		63,673	64,000	4,073	1,404,494	178
131	78,817	148	34,440	2	391	40,400	18,222	2,054	20,124		749,643	730,584	10,059	1,194,914	179
40	30,662	5	1,450			4,493	1,940	272	2,281		48,685	47,602	1,076	136,108	180
673	434,495	2	572			62,609	12,684	1,637	18,110	20,178	327,048	323,557	3,491	1,032,937	181
141	80,792	46	14,437	3	493	17,515	600	4,890	12,025		120,563	113,038	7,525	269,893	182
312	178,087	22	7,494	10	1,762	39,301	8,872	27,915	27,915		370,387	360,956	9,431	719,154	183
5,401	3,296,773	8	2,692	23	5,131	458,361	247,766	26,032	165,721	18,842	6,713,629	6,665,505	53,124	18,507,245	184
526	246,136	54	15,064	4	941	76,266	2,509	9,531	58,850	5,376	183,278	128,959	59,319	713,246	185
3,844	2,320,611	1,433	562,143	150	23,765	2,206,995	314,758	51,737	661,870	1,178,630	2,901,286	2,798,433	102,853	12,199,580	186
100	57,851	60	28,900			109,562	14,717	2,943	60,142	81,700	92,043	90,124	1,919	407,634	187
4,066	3,220,702	1,278	532,912	83	15,590	3,801,822	315,707	97,819	2						

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 Registers, cash	4	\$40,826			\$11,127	\$29,199	1	10	\$6,374	11	\$6,500
193 Roofing and roofing materials	168	822,983	\$61,491	\$81,890	130,863	549,189	177	64	58,063	901	481,241
194 Rubber and elastic goods	70	11,818,050	629,998	1,189,512	2,107,538	8,041,602	68	351	512,389	5,944	2,401,559
195 Saddlery and harness	433	1,267,531	52,500	91,921	201,668	921,442	449	42	41,233	785	442,956
196 Sand and emery paper and cloth	8	402,274	26,753	43,078	64,856	277,692	2	20	23,120	100	52,571
197 Sausage	21	181,805	14,550	42,400	42,475	81,880	27	6	2,950	126	71,735
198 Scales and balances	6	42,191			12,228	29,963	6	3	4,756	58	38,166
199 Screws, machine	11	582,412	15,000	35,000	199,947	282,465	9	87	98,466	586	232,509
200 Sewing machine repairing	20	11,990	750	1,550	4,305	5,385	15	1	1,000	15	10,472
201 Sewing machines and attachments	8	2,056,885	23,400	103,859	488,427	1,486,199	6	18	71,893	665	430,716
202 Ship and boat building, wooden	122	1,188,880	221,539	129,878	201,104	586,309	141	51	38,102	1,043	636,656
203 Shipbuilding, iron and steel	3	1,010,461	122,500	167,568	445,898	274,675	2	29	40,944	603	899,377
204 Shirts	40	1,434,154	22,850	174,226	139,095	1,097,675	48	68	81,466	1,895	681,590
205 Shoddy	20	709,294	32,085	183,858	215,885	282,466	29	30	34,836	307	127,715
206 Show cases	8	18,274			2,732	15,542	11	1	1,800	33	20,879
207 Silk and silk goods	20	5,649,753	216,841	756,454	707,845	3,969,618	11	156	227,276	3,110	1,110,324
208 Silverware	18	2,991,672	26,000	264,785	404,459	2,266,628	15	128	180,982	1,030	699,483
209 Slaughtering and meat packing, wholesale	11	3,016,672	882,182	2,073,715	1,219,523	4,841,232	8	174	185,130	2,337	1,118,943
210 Slaughtering, wholesale, not including meat packing.	11	2,297,403	300,650	303,300	103,615	1,589,888	13	46	65,166	411	204,134
211 Smelting and refining, not from the ore.	4	87,575	1,700	4,550	2,825	29,000	2	4	8,400	11	6,332
212 Soap and candles	61	1,761,562	227,264	310,193	263,850	951,256	69	149	156,494	623	231,422
213 Soda water apparatus	6	2,489,502		29,250	989,744	2,070,507	2	66	61,214	323	239,514
214 Sporting goods	18	189,719	18,500	89,000	28,204	106,015	18	22	21,404	304	133,161
215 Springs, steel, car and carriage	8	17,075		2,900	3,000	6,175	3	8	8,000	16	8,000
216 Stamped ware	10	565,603	66,000	119,000	194,268	186,335	9	23	30,429	297	130,735
217 Starch	5	344,499	29,320	67,300	53,271	195,108	9	21	23,788	65	34,736
218 Stationery goods, not elsewhere specified.	8	57,478	2,700	4,400	8,375	42,003	7	2	1,500	22	9,779
219 Steam fittings and heating apparatus	23	1,788,879	96,331	292,772	454,266	945,510	24	134	186,041	1,396	819,466
220 Steam packing	8	132,085	1,683	15,000	30,783	84,614	4	11	12,036	61	32,629
221 Stencils and brands	17	30,775	450	576	18,310	11,440	17	3	1,398	34	16,836
222 Stereotyping and electrotyping	11	290,047	2,000	3,500	131,254	153,293	17	44	89,205	315	190,568
223 Sugar and molasses, refining	7	13,974,015	1,561,512	1,044,729	2,482,549	8,885,255	11	59	107,265	502	332,009
224 Surgical appliances	21	91,193	1,450	1,250	84,304	53,589	26	13	10,636	134	61,331
225 Taxidermy	15	58,402	3,700	7,323	4,729	42,150	15	4	2,774	19	10,033
226 Tinsmithing, coppersmithing, and sheet-iron working.	386	2,617,223	167,830	272,917	479,809	1,696,667	440	202	174,022	2,145	1,173,896
227 Tobacco, cigars and cigarettes	331	2,858,601	122,970	118,950	91,971	2,024,610	79	133	153,576	2,752	1,740,672
228 Tools, not elsewhere specified	76	3,003,404	104,747	675,346	1,184,096	1,989,216	70	140	174,147	1,033	1,003,632
229 Toys and games	23	607,037	20,350	63,700	95,985	321,802	28	32	29,897	434	155,560
230 Trunks and valises	15	144,314	1,100	3,900	14,450	119,864	20	15	13,237	136	61,912
231 Type founding	4	241,671	1,500	3,500	144,000	92,671	3	20	22,278	194	105,441
232 Typewriter repairing	7	13,108			1,051	12,057	3	4	520	15	8,025
233 Typewriters and supplies	3	223,622			104,707	118,915	2	37	22,492	223	118,769
234 Umbrellas and canes	11	77,225			9,225	68,000	12	23	16,940	83	36,192
235 Upholstering materials	9	198,880	10,250	33,300	48,254	107,076	10	8	8,820	171	64,927
236 Varnish	14	368,384	18,900	30,038	54,800	248,596	11	42	44,174	51	81,565
237 Vinegar and cider	99	391,957	33,020	102,846	117,555	133,537	111	10	6,232	93	40,713
238 Watch and clock materials	4	95,974	7,500	17,800	33,000	37,674	5	9	8,714	193	74,427
239 Watch, clock, and jewelry repairing	694	605,940	15,220	24,650	208,261	357,809	697	4	2,612	633	326,396
240 Whips	31	1,103,349	18,100	55,900	124,516	909,833	35	124	151,874	695	291,890
241 Window shades	23	141,723	10,500	11,500	20,130	99,533	26	17	7,700	106	78,139
242 Wire	6	669,215	23,702	30,800	123,400	436,313	4	19	32,650	279	160,595
243 Wirework, including wire rope and cable.	44	2,375,556	154,720	450,554	787,773	1,502,509	37	142	139,472	1,695	766,272
244 Wood, turned and carved	105	1,000,592	155,631	183,239	337,491	384,231	118	88	33,073	1,043	371,370
245 Wooden ware, not elsewhere specified.	11	133,909	18,325	32,750	21,400	65,334	12	6	4,156	155	61,147
246 Wool hats	4	402,082	17,000	40,000	38,500	306,582	17	17	15,459	541	273,129
247 Wool scouring	5	354,154	18,750	75,000	166,500	93,904	3	20	44,176	293	145,965
248 Woolen goods	131	33,193,903	2,357,173	4,663,463	5,706,431	20,469,831	102	438	729,724	17,717	6,333,051
249 Worsted goods	45	45,790,300	2,938,592	4,539,224	3,585,662	29,676,822	27	503	796,250	18,367	7,653,563
250 All other industries <sup>1</sup>	86	18,688,213	1,096,823	1,661,947	6,344,425	9,485,018	78	361	562,743	5,329	2,781,735

<sup>1</sup> Embraces ammunition, 2; artists' materials, 2; bags, paper, 1; bells, 1; brass, 1; brass and copper, rolled, 2; bronze castings, 2; calcium lights, 1; card cutlery and designing, 2; cars, steam railroad, not including operations of railroad companies, 2; cheese and butter, urban dairy products, 1; chocolate and cocoa products, 2; coke, 1; collars and cuffs, paper, 1; crucibles, 2; drug grinding, 1; explosives, 2; fire extinguishers, chemical, 1; fireworks, 2; foundry supplies, 1; furs, dressed, 1; gas and oil stoves, 2; grindstones, 1; hammocks, 2; hardware, saddlery, 1; hat and cap materials, 2; hones and whetstones, 1; hooks and eyes, 2.

TABLE 8.—MANUFACTURES IN CITIES

BOSTON.

1	All industries	7,247	\$143,311,376	\$11,828,389	\$17,376,624	\$33,725,878	\$30,330,435	8,009	8,840	\$9,114,118	72,142	\$39,134,123
2	Artificial limbs	3	8,750			3,750	5,000	4			3	1,800
3	Awnings, tents, and sails	33	193,771	2,000	5,000	15,300	171,411	43	34	25,522	220	116,032
4	Bags, other than paper	4	78,500			3,000	63,500	5	6	4,600	78	22,572
5	Baking and yeast powders	6	100,397			6,037	94,340	4	7	9,372	16	3,331
6	Baskets, and rattan and willow ware	3	2,885			475	2,510	3			11	7,010

PECIFIED INDUSTRIES: 1900--Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES--continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
11	\$6,530					\$5,407	\$1,585	\$34	\$2,600	\$1,148	\$4,522	\$4,124	\$308	\$41,718	192
899	480,816			2	\$126	120,367	28,166	4,687	45,076	42,434	973,631	902,960	11,264	2,000,450	193
3,281	1,607,774	2,586	\$779,407	127	14,773	652,989	25,340	105,819	516,980	5,300	8,554,422	8,898,337	156,085	13,885,059	194
763	435,922	21	6,914	1	150	108,665	76,598	6,837	20,725	5,005	904,070	899,657	11,013	1,968,161	195
92	49,968	8	2,608			19,944	400	1,320	18,218		197,118	191,547	5,566	875,556	196
124	71,402	2	831			17,525	7,645	1,255	8,025		550,621	539,778	10,843	710,467	197
57	37,748	1	416			6,393	4,563	252	1,578		27,213	26,040	1,173	81,867	198
518	234,158	68	18,151			51,733	13,516	2,843	35,374		210,154	199,200	10,954	681,176	199
15	10,471					2,977	1,984	124	869		8,771	8,400	371	87,805	200
660	429,174	5	1,529			75,059	2,084	17,863	54,512	1,100	519,784	511,061	8,723	1,408,798	201
1,043	635,686					133,787	21,453	6,772	40,861	64,701	704,489	690,935	13,504	1,760,574	202
563	399,807					97,982	4,563	7,904	82,328	7,750	652,966	641,266	11,700	1,206,850	203
235	137,739	1,740	543,651	1	200	192,003	21,107	6,182	118,618	47,001	1,192,703	1,181,708	10,995	2,302,800	204
260	114,492	44	12,794	3	429	50,027	7,368	5,372	37,287		685,123	659,110	26,013	938,139	205
33	20,879					5,878	4,570	114	901	228	20,233	19,311	972	70,946	206
1,102	506,282	1,837	562,989	171	41,053	382,745	13,837	29,533	179,306	160,019	3,323,963	3,785,291	38,672	5,097,532	207
903	576,573	114	31,875	8	1,032	350,410	5,450	21,481	323,479		1,019,368	997,400	21,968	2,499,298	208
3,313	1,107,261	13	3,582	11	3,100	464,523	3,130	61,798	399,603		24,603,698	24,473,112	180,586	27,505,698	209
411	204,184					126,576	7,378	16,084	103,084	30	3,436,371	3,412,571	23,800	4,127,785	210
10	6,232			1	300	1,336	485	275	126	450	116,843	114,752	2,091	136,787	211
423	212,618	83	19,288	12	2,516	129,001	5,630	17,909	105,412		1,609,044	1,574,867	34,177	2,439,815	212
314	236,874	9	2,640			249,978	50,163	16,720	182,295	800	304,038	295,948	8,090	1,177,185	213
195	99,020	109	34,141			36,506	4,005	2,644	20,707	9,150	232,459	229,172	3,287	517,481	214
15	7,706	1	812			1,449	600	50	739		9,739	7,185	2,554	20,800	215
227	113,489	62	14,737	8	2,009	40,399	6,160	5,149	23,390	1,200	201,501	194,315	7,186	338,753	216
58	32,736	7	2,000			28,708	300	1,996	26,412		259,052	252,563	7,089	390,161	217
16	6,943	6	2,286			6,244	2,253	117	3,369		9,906	9,208	693	54,130	218
380	347,636	7	1,844			162,663	26,123	12,179	100,656	23,700	1,206,103	1,174,209	31,894	2,009,697	219
53	31,720	3	955			28,721	3,230	257	15,234	10,000	97,823	95,855	1,968	235,695	220
32	16,236	2	600			7,054	5,050	120	1,194	750	6,828	6,467	361	52,192	221
283	180,631	32	9,333			49,120	20,113	1,414	20,395	6,698	93,637	82,316	11,321	480,962	222
566	346,764	26	5,295			411,754	815	27,133	383,806		19,170,246	19,024,712	145,534	19,626,832	223
84	45,792	48	15,337	2	228	20,811	11,610	681	7,000	1,550	54,526	52,111	2,415	138,566	224
10	10,043					4,235	2,095	165	2,025		19,192	18,991	201	58,096	225
1,073	1,151,604	65	21,777	2	427	269,602	125,011	17,544	105,700	21,347	1,020,733	1,885,408	85,325	4,503,417	226
1,033	1,448,330	700	302,755	14	3,091	694,410	68,905	12,500	512,931	24	1,910,617	1,898,180	12,437	5,208,390	227
867	970,067	103	30,535	13	3,000	292,131	19,343	50,158	210,738	11,842	1,142,288	1,081,721	60,567	3,651,055	228
315	133,335	107	21,299	12	376	31,962	5,079	3,126	22,367	1,390	319,258	314,943	4,315	630,992	229
117	59,656	18	4,956	1	300	20,590	10,945	521	9,124		160,599	159,331	1,268	338,537	230
126	75,798	68	29,633			24,433	7,635	889	15,359		146,074	139,178	6,896	333,794	231
15	8,925					2,402	1,475	3	914	100	4,584	4,584		18,691	232
157	94,323	66	24,432			30,733	6,268	231	24,234		67,211	64,533	2,678	329,793	233
29	16,395	54	19,797			8,373	3,066	119	5,693		165,968	165,058	910	272,320	234
89	43,109	82	21,818			13,234	2,300	606	10,323		335,320	331,420	4,400	466,994	235
46	29,995	6	1,600			26,439	5,976	1,328	18,635		274,441	271,016	3,395	500,672	236
93	40,718					13,333	1,635	3,088	8,540	70	163,359	153,934	4,375	349,370	237
84	37,203	109	35,224			2,749	593	463	1,696		26,433	24,978	1,455	125,744	238
514	322,024	11	8,250	8	1,112	189,590	126,487	4,396	29,561	29,146	240,686	239,124	7,562	1,326,939	239
480	223,372	194	58,425	21	5,093	166,810	14,707	6,529	144,799	775	719,423	711,072	8,351	1,631,221	240
66	48,037	40	15,107			12,258	6,708	264	2,666	2,600	153,200	150,419	2,781	300,433	241
279	160,598					53,048	7,700	5,956	36,792	2,600	776,450	763,611	22,839	1,122,116	242
227	603,651	413	110,926	55	15,694	126,669	11,747	21,624	93,198	200	1,617,605	1,585,936	31,669	3,004,955	243
1,013	364,010	13	3,630	22	3,050	56,813	17,153	5,958	32,426	776	471,430	455,777	15,653	1,158,276	244
144	59,772	6	1,300	5	1,075	11,914	1,760	1,030	8,621	500	81,957	78,355	3,602	219,436	245
382	228,536	144	47,005	15	2,538	97,319	1,200	2,784	93,335		587,902	572,033	15,819	1,103,003	246
297	145,556	1	390			80,569	1,655	3,355	25,559		73,371	61,291	17,080	334,912	247
177	4,303,450	5,365	1,838,520	675	131,081	1,745,199	114,538	208,768	1,331,195	90,698	18,273,424	17,706,539	566,885	30,838,104	248
330	4,177,429	3,410	2,654,009	1,077	224,147	1,081,861	46,539	186,366	1,362,930	86,026	25,315,707	24,332,058	483,649	40,557,363	249
672	2,043,575	2,124	735,350	33	5,818	1,575,714	34,029	166,058	1,373,594	2,033	8,037,590	7,879,603	157,927	14,394,140	250

s, printing, 2; jute and jute goods, 1; labels and tags, 2; lard, refined, 1; leather board, 2; mats and matting, 1; oil, castor, 1; oil, essential, 1; oilcloth, enameled, 2; tinance and ordinance stores, 1; pencils, lead, 1; pens, fountain and stylographic, 2; pens, gold, 1; phonographs and graphophones, 1; pocketbooks, 2; printing materials, 2; pulp goods, 2; rules, ivory and wood, 1; safes and vaults, 1; salt, 2; saws, 2; screws, wood, 2; silversmithing, 2; tobacco, chewing, smoking, and ill, 1; washing machines and clothes wringers, 1; watch cases, 2; watches, 2; windmills, 1; wool pulling, 2.

Y SPECIFIED INDUSTRIES: 1900.

BOSTON.

	\$32,836,426	13,584	\$6,166,107	727	\$131,658	\$23,652,792	\$3,334,456	\$919,161	\$12,262,280	\$6,636,895	\$99,557,019	\$98,023,933	\$1,533,036	\$206,081,767	1
8	1,800					1,485	1,060		425		3,989	3,944	25	11,794	2
150	92,430	70	25,612			26,624	16,370	594	8,260	900	223,479	221,110	2,369	439,575	3
24	11,300	54	11,272			9,993	3,380	481	5,632		187,530	186,350	1,180	235,000	4
10	7,093	6	1,328			3,759	3,550	10	5,199		31,763	31,605	158	51,424	5
11	7,010					791	620	13	153		2,613	2,538	80	14,070	6

TABLE 8.—MANUFACTURES IN CITIES

BOSTON—Continued.

	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.
7 Belting and hose, leather	6	\$170,635	\$4,000	\$6,000	\$23,136	\$137,499	4	18	\$21,750	35	\$23,203
8 Bicycle and tricycle repairing	89	77,281	600	500	30,032	46,119	93	8	4,132	100	50,610
9 Bicycles and tricycles	3	23,850			8,400	15,450	6	4	2,000	22	11,438
10 Billiard tables and materials	7	101,612			4,550	97,062	9	4	6,736	36	23,994
11 Blacking	13	365,860	12,500	17,500	33,998	301,862	18	62	104,037	220	70,321
12 Blacksmithing and wheelwrighting	260	469,895	98,752	80,700	98,439	191,944	295	19	18,118	685	391,944
13 Bookbinding and blank book making	53	899,191	6,000	8,000	349,964	535,227	73	64	57,454	1,231	553,033
14 Boot and shoe cut stock	13	985,377			58,148	927,229	14	58	64,388	314	160,995
15 Boot and shoe findings	12	76,501			27,817	48,684	11	10	9,370	97	86,151
16 Boot and shoe uppers	4	22,250			1,650	20,600	4	2	2,070	8	5,367
17 Boots and shoes, custom work and repairing	425	188,284	1,313	2,950	51,477	82,514	429	6	3,800	271	131,632
18 Boots and shoes, factory product	11	761,681			188,900	577,781	18	148	117,322	2,392	999,575
19 Bottling	47	1,088,020	33,200	59,100	192,132	803,688	67	87	90,263	408	222,506
20 Boxes, fancy and paper	23	291,631	6,000	33,000	102,487	150,144	24	37	34,414	718	231,518
21 Boxes, wooden packing	4	37,325			7,825	29,500	4	4	3,216	53	27,647
22 Brass castings and brass finishing	23	376,107	95,050	69,051	73,209	188,797	31	16	15,670	214	129,410
23 Brassware	9	209,864	20,742	48,000	47,663	93,459	12	20	18,500	260	119,724
24 Bread and other bakery products	261	1,601,099	203,175	480,800	553,585	423,489	262	354	159,740	1,516	777,693
25 Bridges	8	166,701	16,200	2,100	58,695	89,706	12	10	9,904	197	92,321
26 Brooms and brushes	16	1,071,302			70,858	991,444	16	42	46,970	618	232,770
27 Buttons	3	10,300			5,500	4,800	4	2	2,100	14	4,356
28 Carpentering	426	1,955,722	183,865	184,940	269,565	1,317,352	496	96	79,162	3,014	1,937,900
29 Carpets, rag	3	2,560			2,110	450	4			6	2,414
30 Carriage and wagon materials	10	153,716	16,500	14,300	22,452	105,464	15	6	5,570	74	45,098
31 Chriages and wagons	59	1,668,067	113,150	84,011	111,090	1,359,816	72	34	30,516	581	250,024
32 Cars and general shop construction and repairs by steam railroad companies	7	1,552,501	590,650	542,900	163,376	255,575		52	49,490	1,278	822,325
33 Chemicals	5	131,989	6,286	7,714	20,950	97,039	4	16	9,340	22	15,186
34 China decorating	9	22,465			4,490	17,975	10			10	5,275
35 Cleansing and polishing preparations	3	53,027	2,500	10,000	4,360	36,167	6	22	17,900	15	6,764
36 Clocks	3	470,061	40,000	60,000	127,050	249,911	1	18	19,550	61	41,398
37 Cloth, sponging and refinishing	4	6,100			8,100	3,000	5			14	6,615
38 Clothing, men's, custom work and repairing	730	1,959,922	18,125	9,500	150,324	1,781,973	387	223	180,632	2,307	1,476,335
39 Clothing, men's, factory product	150	3,203,118	450	1,350	128,431	3,072,337	220	276	304,021	2,022	1,474,323
40 Clothing, men's, factory product, buttonholes	3	1,594			1,500	54	3			8	4,333
41 Clothing, women's, dressmaking	271	533,698	11,300	9,300	85,923	423,670	292	27	15,339	1,383	334,338
42 Clothing, women's, factory product	28	730,844	2,500	3,300	112,696	612,348	112	86	84,662	1,700	625,137
43 Coffee and spice, roasting and grinding	16	1,393,305	12,000	30,000	145,238	1,652,017	14	172	244,954	268	131,767
44 Coffins, burial cases, and undertakers' goods	4	112,303			11,500	100,803	4	14	13,498	38	19,693
45 Confectionery	64	1,224,154	50,300	41,200	433,552	698,602	72	167	146,720	1,936	674,141
46 Cooperage	22	274,673	38,925	41,200	23,390	168,163	22	10	11,600	254	144,018
47 Cordials and sirups	3	12,273			733	11,490	5	4	2,023	6	2,012
48 Cork, cutting	4	60,200			17,060	43,140	6	8	4,685	56	19,567
49 Corsets	8	12,175			3,075	9,100	8			28	13,302
50 Cotton goods	3	228,534	51,571	13,327	82,533	81,253	2	14	14,253	68	30,375
51 Cutlery and edge tools	5	35,307	2,000	8,000	13,000	12,307	6	1	750	37	23,766
52 Dentists' materials	3	27,859			6,506	21,353	3	12	9,450	20	11,444
53 Druggists' preparations, not including prescriptions	9	233,740			37,150	196,590	5	49	55,018	51	19,663
54 Dyeing and cleaning	21	62,630	10,600	20,900	14,370	16,760	25	6	3,330	105	42,625
55 Dye stuffs and extracts	6	362,618	80,000	18,000	14,300	250,318	5	21	29,100	23	11,206
56 Electrical apparatus and supplies	23	1,021,352	54,200	84,000	260,796	622,356	16	92	39,244	531	273,497
57 Electrical construction and repairs	61	431,537	1,000	500	89,618	390,419	64	50	43,325	322	189,679
58 Electroplating	25	51,301			25,600	25,701	31	1	440	97	51,135
59 Enameling and enameled goods	4	24,100			11,700	12,400	5	1	2,000	32	21,079
60 Engraving and dieinking	32	47,215			23,165	24,050	46	10	5,373	59	30,471
61 Engraving, steel, including plate printing	29	123,931			32,151	96,780	32	11	17,600	137	129,335
62 Engraving, wood	11	24,150			5,130	18,970	14			35	22,022
63 Envelopes	3	50,500			21,000	35,500	1	12	7,500	47	18,390
64 Fancy articles, not elsewhere specified	17	297,343			49,444	247,399	17	28	44,440	301	118,783
65 Fertilizers	4	374,289			35,768	338,521	2	13	14,300	32	16,100
66 Files	3	3,775	1,000	6,000	1,700	1,075	4	2	780	12	2,354
67 Fish, canning and preserving	13	200,030	10,000	12,200	9,015	168,815	13	32	31,494	96	49,150
68 Flavoring extracts	16	415,989	3,550	3,250	26,230	382,959	17	59	34,141	90	41,908
69 Flouring and grist mill products	3	45,583			19,533	26,050	3	5	2,316	10	4,350
70 Food preparations	18	392,939	20,000	25,000	80,729	267,270	17	70	142,192	201	103,307
71 Foundry and machine shop products	197	9,604,392	465,905	790,029	2,031,262	6,327,196	174	573	640,283	4,630	2,641,363
72 Fruits and vegetables, canning and preserving	4	82,700			18,000	14,700	7	8	7,100	110	31,796
73 Fur goods	34	146,249			11,930	134,319	39	23	21,000	206	135,412
74 Fur hats	3	208,475			29,500	178,975	3	9	13,600	224	112,353
75 Furnishing goods, men's	8	279,750	6,000	10,000	28,332	234,918	11	38	48,554	391	143,236
76 Furniture, cabinetmaking, repairing, and upholstering	160	646,221	430	850	51,701	593,240	177	32	28,994	717	422,625

BY SPECIFIED INDUSTRIES: 1900—Continued.

BOSTON—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.										
31	\$22,305	4	\$900			\$9,342	\$4,500	\$372	\$4,270		\$185,676	\$184,495	\$1,181	\$318,395	7
98	50,456			2	\$184	23,886	17,808	135	4,818	\$1,125	53,088	51,710	1,323	195,029	8
22	11,498					2,636	1,600	69	917	50	22,218	21,868	850	62,450	9
35	23,712			1	282	18,692	6,590	816	6,786		86,326	85,767	559	107,250	10
50	29,223	170	41,598			188,631	10,330	8,286	125,015		427,620	423,695	4,025	893,604	11
510	860,468			5	1,481	84,240	63,250	2,729	10,781	2,480	327,892	310,767	17,125	1,171,650	12
530	590,956	741	218,108	23	3,969	132,070	51,581	2,126	23,613	52,850	892,433	880,632	11,901	1,428,683	13
295	153,117	18	7,728	1	150	126,647	28,435	3,902	94,810		2,417,774	2,413,132	4,642	8,120,039	14
86	19,112	61	17,042			12,468	5,995	303	6,170		116,079	114,747	1,332	236,516	15
8	5,367					843	748		95		52,920	52,865	55	67,910	16
259	128,516	4	1,460	8	1,656	80,703	70,088	384	8,604	1,677	169,249	165,740	3,500	623,408	17
259	627,810	1,038	864,825	35	7,440	155,550	30,507	8,448	115,837	758	2,403,813	2,392,293	16,520	8,882,655	18
890	218,218	15	3,738	3	530	181,402	47,816	17,709	114,677	1,200	1,765,356	1,755,252	10,104	2,795,010	19
165	92,824	547	187,691	6	1,033	51,106	29,585	3,955	17,556		249,846	244,335	5,511	637,256	20
55	27,647					3,687	2,320	198	1,169		70,287	69,717	520	126,770	21
213	129,182			1	228	24,955	14,818	2,125	7,862	150	244,008	281,887	12,121	478,794	22
176	98,191	84	21,533			14,178	5,514	1,689	6,975		121,882	117,366	4,576	341,920	23
101	668,564	895	105,565	20	3,534	298,911	120,058	10,873	167,980		2,601,881	2,546,704	55,177	4,566,953	24
197	92,321					12,454	1,150	414	10,890		140,082	137,404	2,678	295,802	25
269	130,051	321	92,345	28	4,374	50,914	20,083	7,971	22,860		776,634	771,813	4,821	1,265,367	26
2	1,536	12	3,320			1,774	1,500	49	225		4,347	4,238	109	18,862	27
1,008	1,936,515			6	1,335	1,208,193	36,851	7,062	67,563	1,046,717	2,494,071	2,465,652	28,419	6,879,632	28
6	2,114	1	800			890	720		170		730	600	130	7,000	29
74	45,098					16,938	7,498	800	3,640		94,467	91,899	2,568	224,300	30
581	250,024					87,531	46,989	6,925	26,623	7,044	870,111	854,454	15,657	1,127,071	31
275	821,278	3	1,047			19,304			19,304		772,882	750,248	22,584	1,663,951	32
22	15,186					11,050	1,040	692	9,318		154,405	150,958	3,447	209,023	33
6	4,025	4	1,250			3,033	2,180	10	748	100	24,608	24,485	123	48,150	34
9	5,204	6	1,500			16,225	1,085	640	14,500		81,823	81,087	736	129,151	35
56	34,053	5	3,250			9,505	800	2,118	6,587		22,716	21,027	1,689	184,100	36
14	6,616					2,169	1,810	14	345		560	100	460	17,500	37
1,862	1,099,232	944	364,401	61	12,212	905,947	316,644	9,866	139,723	440,214	2,117,812	2,102,242	15,570	6,275,032	38
203	768,240	1,412	405,816	7	1,270	1,397,989	128,552	26,613	162,795	1,080,019	4,258,905	4,236,496	17,489	8,601,431	39
3	2,670	5	1,763			495	336	3	156		643	496	147	8,404	40
274	192,617	1,605	641,584	4	607	187,166	187,881	2,556	27,569	19,660	880,357	856,955	3,402	2,567,633	41
238	183,053	1,434	437,634	28	4,450	213,659	66,890	4,737	107,987	84,045	1,764,399	1,752,665	11,734	3,258,433	42
162	143,553	106	35,209			229,354	29,025	9,794	190,555		2,772,033	2,753,065	19,018	3,690,544	43
82	17,537	6	2,106			16,019	3,332	1,943	10,143		85,037	84,191	873	165,600	44
561	380,049	1,290	282,753	85	11,334	282,159	105,633	12,805	161,721	2,000	2,727,498	2,702,088	25,410	4,455,184	45
253	146,745	1	800			23,397	3,317	1,537	24,543		323,833	325,173	3,710	607,900	46
2	1,690	4	332			3,813	2,520	80	1,263		12,027	11,847	180	25,711	47
57	15,737	19	3,800			5,156	2,430	150	2,526		35,461	34,511	950	85,510	48
1	400	27	12,902			4,483	2,638	30	1,770		11,269	11,180	89	43,785	49
85	21,278	33	9,097			8,353	1,132	740	3,705	2,776	147,288	144,228	3,060	212,005	50
57	23,759					3,563	2,225	283	1,005	50	10,929	9,455	1,474	50,649	51
20	11,444					13,238	2,969		10,269		27,705	27,202	503	92,500	52
20	13,163	20	6,206	2	300	33,512	13,113	1,051	19,348		123,155	127,604	551	271,951	53
43	25,007	62	17,618			12,896	6,617	402	3,852	2,025	11,491	9,413	2,078	123,946	54
22	13,606	1	600			10,753	3,156	727	6,870		960,342	959,459	883	1,039,325	55
457	240,403	120	82,520	4	484	89,951	22,162	4,167	60,652	2,970	577,072	562,029	15,043	1,274,435	56
321	189,339	1	290			37,181	14,878	847	19,620	2,336	354,437	353,119	1,318	763,260	57
90	52,130	3	1,183	4	792	13,341	10,661	214	1,966	500	19,409	16,912	2,497	120,017	58
32	21,079					2,976	2,144	5	827		12,509	9,522	2,987	56,250	59
49	27,721	10	2,750			24,181	8,245	123	3,338		17,222	15,843	1,374	132,433	60
137	111,794	47	16,885	3	656	40,594	12,177	448	27,529	440	60,532	58,707	1,825	343,200	61
84	21,678	1	416			7,661	2,680	46	3,940	3,995	4,624	4,362	262	40,522	62
10	6,100	37	12,290			6,213	2,800	263	1,610		51,815	51,185	630	96,384	63
112	67,132	188	51,416	1	220	35,556	15,153	1,372	10,526	2,500	423,092	422,289	803	753,300	64
92	16,400					23,639	4,126	3,677	15,836		239,327	237,523	1,801	305,630	65
12	2,354					940	480	100	60	800	662	342	320	7,476	66
81	45,066	15	4,150			13,151	7,167	724	5,260		553,645	551,827	1,818	725,785	67
62	31,780	23	10,128			50,042	18,352	2,461	29,220		388,518	385,904	2,614	767,430	68
10	4,350					4,305	2,230	225	2,350		63,878	62,788	1,090	87,094	69
140	84,153	59	19,181	2	563	306,194	17,797	3,356	284,741	300	333,043	331,796	11,247	1,162,415	70
646	2,631,071	29	9,973	5	824	696,010	182,065	50,632	395,427	67,886	3,712,975	3,591,112	121,863	9,371,923	71
44	16,946	66	14,850			6,925	4,555	370	2,000		350,329	347,185	3,144	466,110	72
70	69,090	127	66,322			29,269	16,799	471	8,874	3,125	236,702	236,180	522	567,299	73
180	81,300	37	29,966	7	1,092	33,331	9,500	834	16,047	6,900	193,987	196,267	2,720	395,683	74
65	27,763	325	118,347	1	176	53,346	9,441	1,264	42,641		504,495	502,852	2,143	812,634	75
575	365,971	188	55,952	4	702	97,015	61,816	2,537	24,752	8,860	703,695	699,371	4,324	1,619,143	76

STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

BOSTON—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.
77 Furniture, factory product	50	\$1,248,021	\$36,500	\$29,867	\$134,625	\$1,047,029	58	120	\$140,008	1,032	\$614,174
78 Galvanizing	3	19,160			3,560	15,600	8			11	7,116
79 Gas and lamp fixtures	8	240,666			101,200	139,466	11			153	95,994
80 Gas, illuminating and heating	6	18,813,511	2,816,938	4,701,372	10,141,282	1,653,974	26	21,500		513	808,591
81 Gas machines and meters	5	884,197			36,539	847,658	158	168,657		164	101,793
82 Glass, cutting, staining, and ornamenting.	15	92,728	600	2,200	14,899	75,029	22	17	12,542	97	65,284
83 Gloves and mittens	5	71,000			7,000	64,000	7	4	1,500	138	63,126
84 Gold and silver, leaf and foil	4	27,150			4,650	22,500	4	1	1,196	70	36,970
85 Grease and tallow	6	1,101,784	212,539	591,934	149,191	148,120	5	11	19,325	142	77,914
86 Hairwork	20	37,195			4,995	32,200	22	1	900	54	20,055
87 Hand stamps	10	21,714			9,937	11,777	12	5	2,332	26	13,516
88 Hardware	6	96,146			17,736	78,410	9	6	5,125	89	40,096
89 Hats and caps, not including fur hats and wool hats.	31	337,590			64,015	273,575	39	36	44,440	485	222,646
90 Hosiery and knit goods	9	134,765	200	1,300	53,815	79,450	5	19	17,396	442	110,380
91 House furnishing goods, not elsewhere specified.	4	5,740			500	5,240	2	10	970	15	6,019
92 Instruments, professional and scientific.	9	61,078			14,599	46,474	7	10	8,700	39	22,809
93 Ironwork, architectural and ornamental.	11	278,040	45,600	20,000	52,950	159,490	12	20	23,037	272	102,031
94 Japanning	4	5,100			2,150	3,040	4			11	4,700
95 Jewelry	16	265,366			62,113	203,253	20	16	15,950	195	107,394
96 Jewelry and instrument cases	3	9,300	2,000	500	4,500	2,800	6			25	6,731
97 Lamps and reflectors	7	33,364			13,654	19,710	8	11	10,194	59	34,312
98 Lapidary work	3	23,100			4,900	18,200	2	6	8,070	17	10,300
99 Lead, bar, pipe, and sheet	3	910,179	200,000	135,000	141,132	433,997	28	28	89,850	93	60,838
100 Leather goods	6	48,670			18,751	29,928	6	5	5,050	33	28,928
101 Leather, tanned, curried, and finished.	6	65,320	1,200	3,500	19,200	31,420	9	2	1,650	97	44,707
102 Liquors, malt	25	12,228,651	1,614,601	4,357,469	2,365,920	3,390,661	5	227	468,719	1,261	1,007,770
103 Lithographing and engraving	13	133,452			96,502	36,950	18	13	10,660	119	60,359
104 Lock and gun smithing	73	74,936		2,000	29,013	43,973	65	2	1,290	69	37,001
105 Looking-glass and picture frames	49	220,848	5,000	5,000	15,388	204,460	60	32	24,585	149	86,739
106 Lumber and timber products	3	402,500	62,000	77,500	45,000	218,000	7	11	12,000	92	51,023
107 Lumber, planing mill products, including sash, doors, and blinds.	32	1,118,221	83,347	61,900	133,780	833,094	33	51	60,462	538	340,732
108 Marble and stone work	31	1,528,199	457,790	235,050	234,342	551,017	46	51	52,039	784	403,496
109 Masonry, brick and stone	104	565,531	44,900	41,425	99,480	379,726	118	64	66,333	1,535	903,723
110 Mattresses and spring beds	17	268,147			31,454	231,693	18	37	53,556	300	156,416
111 Millinery and lace goods	18	161,232			30,578	120,654	21	60	22,010	319	152,499
112 Millinery, custom work	190	474,091	6,500	10,500	59,229	397,362	200	78	47,259	787	337,302
113 Mineral and soda waters	23	363,995	27,400	29,300	95,045	212,250	27	27	33,516	151	79,310
114 Mirrors	6	113,900	400	2,000	21,501	89,999	6	12	5,808	66	35,581
115 Models and patterns	27	64,846	1,100	1,650	25,025	37,071	33			100	65,762
116 Monuments and tombstones	13	139,693	19,150	13,711	30,283	76,549	14	4	3,180	66	40,332
117 Mucilage and paste	6	141,039	24,000	6,000	19,200	91,339	8	7	12,100	25	15,633
118 Musical instruments and materials, not specified.	18	116,333			16,650	100,183	21	8	8,050	143	35,014
119 Musical instruments, organs and materials.	4	111,738			9,251	102,487	6	9	6,000	112	36,621
120 Musical instruments, pianos and materials.	17	4,071,544	512,191	478,201	344,632	2,736,460	12	96	162,477	1,219	310,539
121 Oil, not elsewhere specified	4	212,534	25,000	40,000	34,330	113,215	8	13	11,517	50	29,565
122 Optical goods	21	85,355	1,500	7,500	17,000	59,355	27	12	8,474	59	35,010
123 Painting, house, sign, etc	333	537,473	29,700	35,378	120,594	350,301	389	63	41,035	1,690	1,015,031
124 Paints	9	234,538	7,000	11,000	48,075	218,463	9	23	34,943	69	37,454
125 Paper goods, not elsewhere specified	6	90,579			14,351	76,228	6	11	11,461	41	19,164
126 Paper hanging	26	72,192	200	100	1,872	70,020	32	4	2,904	129	91,701
127 Patent medicines and compounds	68	718,552	39,400	56,500	53,724	563,928	70	126	119,189	259	116,305
128 Paying and paving materials	3	314,053	1,400	6,000	52,504	254,154	12	23	43,133	349	206,153
129 Perfumery and cosmetics	8	53,970			3,570	50,400	8	3	3,124	31	17,340
130 Photographic materials	7	70,417	1,000	3,000	43,535	22,882	6	9	7,152	34	19,332
131 Photography	105	385,850	8,000	11,500	205,776	160,574	112	42	27,456	362	103,538
132 Photolithographing and photoengraving.	15	134,026			45,725	88,301	17	32	22,266	225	147,537
133 Pickles, preserves, and sauces	14	445,050			49,400	395,650	11	69	52,939	159	71,629
134 Pipes, tobacco	4	78,200			6,900	71,300	6			41	30,462
135 Plastering and stucco work	32	237,374	20,000	55,000	54,570	163,304	43	25	24,330	321	197,204
136 Plumbers' supplies	4	191,100			29,000	162,100	18	18	25,654	91	49,235
137 Plumbing, and gas and steam fitting	310	1,174,430	50,429	56,325	134,270	933,406	366	139	96,737	1,729	1,089,433
138 Pottery, terra cotta, and fire-clay products.	7	315,399	67,000	71,100	18,365	159,429	6	20	13,063	155	67,433
139 Printing and publishing, book and job.	280	5,370,499	206,300	75,900	2,079,791	3,507,908	303	703	532,307	3,077	1,663,332
140 Printing and publishing, music	9	291,335			133,142	156,693	6	45	43,137	160	36,131
141 Printing and publishing, newspapers and periodicals.	129	5,305,722	546,560	301,310	1,441,394	3,013,958	87	1,470	1,454,617	2,314	1,972,642
142 Refrigerators	9	139,709	19,500	26,100	17,350	76,759	16	7	5,912	92	52,557
143 Regalia and society banners and emblems.	9	17,072			5,262	11,810	12			19	8,323
144 Roofing and roofing materials	50	325,539	25,221	13,355	47,490	234,523	55	30	26,736	356	195,737
145 Rubber and elastic goods	29	2,373,839	119,620	119,000	173,402	1,956,837	23	104	160,196	278	531,154
146 Saddlery and harness	31	433,027	3,100	3,550	126,195	306,182	33	20	26,933	222	133,135

BY SPECIFIED INDUSTRIES: 1900—Continued.

BOSTON—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.										
952	\$588,018	79	\$31,032	1	\$124	\$795,491	\$74,318	\$8,866	\$98,687	\$618,620	\$998,228	\$978,597	\$19,681	\$2,849,734	77
11	7,116					2,038	680	37	1,316		13,718	12,378	840	82,150	78
146	93,894	2	1,050	5	1,050	86,694	10,880	864	24,950		115,935	112,559	8,376	822,894	79
510	306,719	8	1,872			553,754		155,193	398,561		781,270	727,369	58,901	2,729,210	80
158	99,828	8	1,248	3	717	19,866	7,460	628	11,778		119,151	116,884	2,267	282,807	81
83	64,028	4	1,256			22,167	14,098	685	7,434		41,148	39,872	1,771	197,765	82
47	84,163	91	28,968			5,142	2,730	260	1,152	1,000	101,390	100,655	785	230,260	83
37	23,320	32	18,500	1	150	2,085	1,500	33	552		67,346	57,009	837	108,850	84
142	77,944					48,412	180	6,068	42,164		838,869	824,869	13,990	575,779	85
5	8,050	48	16,875	1	130	14,992	12,659	146	2,187		22,979	22,390	89	100,150	86
23	12,690	1	520	2	300	5,978	3,806	48	1,230	889	6,785	6,421	364	49,942	87
75	86,184	2	782	14	8,000	11,255	6,000	416	4,609	10	55,276	52,595	2,681	128,014	88
248	161,823	238	70,491	4	832	57,706	24,324	2,374	29,908	1,100	446,802	440,909	5,953	1,028,920	89
21	10,827	363	88,002	58	11,551	18,920	6,767	657	6,996	4,500	107,142	105,339	1,803	288,816	90
5	2,588	9	3,166	1	300	1,785	880	30	875		15,300	15,150	150	82,862	91
35	21,049					16,649	4,998	406	5,045	6,200	47,113	46,611	502	158,219	92
272	162,051	4	1,760			29,705	9,813	2,360	6,982	11,050	347,634	340,261	7,373	666,278	93
11	4,700					2,207	2,000	25	182		1,717	1,301	356	13,319	94
148	95,430	47	11,664	1	200	32,359	13,714	2,219	9,251	7,175	200,186	199,113	1,073	463,590	95
10	8,492	15	3,289			1,406	504	65	337		6,410	6,110	300	20,178	96
58	82,658	6	2,154			10,265	4,152	320	5,793		27,657	26,811	846	101,461	97
17	10,300					8,651	1,350	25	1,276	1,000	26,677	26,277	400	50,460	98
93	60,858					47,862	150	11,666	36,046		785,526	776,687	8,839	970,429	99
46	17,795	47	11,134			4,957	3,232	175	1,550		68,870	67,357	1,513	130,500	100
97	44,707					7,340	4,550	262	2,528		166,768	162,508	4,245	237,401	101
1,251	1,003,785	10	3,985			8,173,536		87,042	3,085,496	998	1,796,230	1,645,651	150,679	7,518,668	102
98	60,785	14	5,316	1	168	16,857	10,175	351	6,131	200	68,894	56,567	2,267	200,896	103
66	83,821	2	488	1	192	21,389	16,956	212	3,641	580	38,916	36,410	2,500	159,959	104
147	85,576	2	1,163			39,709	28,350	2,676	8,438	250	218,724	216,949	1,775	484,304	105
92	51,028					10,848		3,467	7,381		188,411	187,211	1,200	822,180	106
587	349,442			1	840	79,783	24,790	8,426	46,017	500	939,249	926,614	12,635	1,667,127	107
784	463,496					73,961	17,066	7,574	49,221	100	488,828	464,078	19,755	1,327,828	108
1,534	963,523			1	200	1,170,912	16,478	2,340	68,849	1,084,245	2,876,013	2,371,468	4,545	4,976,230	109
234	116,562	126	89,884			81,591	42,280	1,644	37,667		608,549	600,908	7,641	1,037,811	110
65	47,301	263	104,978	1	220	23,947	14,493	264	9,190		369,219	367,463	1,756	716,000	111
32	22,215	690	812,897	15	2,690	148,415	123,776	2,042	17,597		784,400	781,101	3,299	1,748,048	112
151	79,310					110,442	15,520	3,487	89,335	1,600	159,635	155,082	4,553	476,678	113
66	85,581					5,222	2,596	67	2,559		92,818	89,978	2,840	186,967	114
98	64,762	2	1,000			14,015	9,675	238	3,657	750	23,451	21,085	2,366	164,457	115
66	40,382					6,689	2,215	959	2,337	678	43,391	41,869	1,522	123,790	116
24	15,283	2	400			10,402	4,650	702	5,050		227,497	223,972	3,525	821,250	117
145	84,390	3	624			16,723	8,110	239	8,374		80,605	78,153	2,452	237,258	118
109	85,550	8	1,071			10,226	5,000	840	4,886		41,613	39,186	2,427	197,928	119
1,168	799,228	51	17,311			299,600	26,835	18,058	197,707	57,000	897,353	879,794	17,559	2,641,528	120
50	29,565					81,711	3,439	1,002	27,220		648,266	645,044	3,222	845,144	121
55	84,839	3	850	1	221	17,019	10,644	240	5,315	820	107,221	105,262	1,959	232,318	122
1,632	1,042,816	4	1,412	4	856	111,216	60,678	1,815	29,597	19,126	564,416	561,554	2,862	2,352,789	123
63	35,433	6	2,016			35,904	11,910	1,265	22,731		811,103	804,798	6,305	470,778	124
28	16,028	19	3,136			18,250	4,459	331	12,960	600	81,605	83,918	687	155,281	125
128	91,358	1	343			18,602	7,889	217	8,496	2,500	112,599	112,444	155	265,603	126
140	74,798	119	41,007			499,441	28,772	6,860	460,609	3,200	802,352	796,470	5,882	1,980,191	127
349	206,155					47,496	4,897	1,468	27,070	14,061	220,820	216,654	4,166	626,306	128
19	10,370	17	6,790	1	180	20,475	3,854	140	16,481		74,905	74,598	307	148,393	129
23	18,540	3	1,000	3	812	7,554	2,482	187	4,885		25,900	28,726	2,174	77,983	130
225	139,724	138	55,125	4	689	92,239	51,893	4,324	34,892	1,130	280,961	228,412	2,549	785,233	131
189	136,987	34	10,250	2	850	80,530	14,325	513	15,342	850	66,937	62,975	3,962	390,744	132
80	51,280	78	20,099	1	150	26,636	14,608	1,470	10,538		578,087	570,089	7,998	881,706	133
36	29,012	5	1,450			4,457	1,940	264	2,253		45,931	45,080	851	129,500	134
319	196,632	2	572			27,400	10,185	1,004	11,238	4,973	160,070	147,989	2,081	515,037	135
89	48,739			2	416	22,530	4,460	1,185	16,895		71,775	69,355	2,420	202,200	136
1,721	1,037,836			8	1,602	152,458	85,777	8,911	55,272	7,498	2,236,820	2,221,205	15,615	4,423,141	137
137	62,338	18	5,047			36,456	1,951	2,930	26,760	4,795	48,758	48,363	15,125	196,540	138
2,232	1,331,923	757	318,339	88	13,020	1,723,330	231,007	33,523	415,893	1,042,913	1,752,274	1,691,332	60,942	8,183,215	139
100	57,351	60	23,900			109,562	14,717	2,943	60,142	31,760	92,043	90,121	1,919	407,634	140
1,735	1,720,831	542	244,170	36	7,641	2,380,621	184,778	64,344	1,493,916	637,588	2,051,233	1,994,527	56,706	10,490,646	141
92	52,587					11,869	2,205	1,244	7,215	1,205	69,608	67,942	1,666	222,301	142
6	3,016	12	5,157	1	150	4,718	3,180	116	722	700	22,034	22,013	81	62,225	143
356	195,737					74,132	15,240	1,739	15,011	42,142	326,112	321,633	4,479	807,592	144
783	384,862	483	145,197	6	1,035	189,429	15,330	86,120	132,679	5,300	1,861,679	1,835,491	26,188	3,139,733	145
216	181,510	6	1,675			88,076	27,719	1,152	5,205	4,000	157,657	155,305	2,352	497,508	146

TABLE 8.—MANUFACTURES IN CITIES

BOSTON—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.
147 Sausage	7	\$37,639	\$3,900	\$10,500	\$17,525	\$5,714	9	3	\$1,300	25	\$12,988
148 Scales and balances	4	29,991			10,028	19,963	4	3	4,756	37	28,504
149 Screws, machine	3	43,032			32,232	10,800	1	4	3,820	51	24,394
150 Sewing machine repairing	6	4,775			2,300	2,475	6			4	2,479
151 Ship and boat building, wooden	80	643,760	129,777	44,781	114,195	355,007	31	26	20,510	653	415,417
152 Shirts	14	118,326			8,525	110,801	15	7	4,170	204	71,180
153 Show cases	7	15,674			1,932	13,742	10			27	17,872
154 Silk and silk goods	4	37,877			12,900	24,977	4	8	9,450	111	27,188
155 Slaughtering, wholesale, not including meat packing	5	28,915			1,625	27,290	8	8	2,548	21	16,370
156 Soap and candles	13	347,810	35,900	75,500	75,954	160,456	13	23	25,058	126	62,698
157 Soda water apparatus	4	2,486,201		29,250	389,394	2,067,557	2	65	59,911	310	233,151
158 Sporting goods	3	4,300			750	3,550	4	1	750	7	3,238
159 Stamped ware	4	109,474	30,000	20,000	40,546	18,928	6	4	5,248	140	51,884
160 Stationery goods, not elsewhere specified	4	49,378	1,000	1,200	7,425	39,753	3	2	1,500	10	4,921
161 Steam fittings and heating apparatus	20	1,718,914	80,331	274,772	449,981	913,830	17	130	183,141	1,365	830,685
162 Steam packing	4	14,779			10,560	4,219	3	6	6,200	27	17,010
163 Stencils and brands	10	19,605			12,050	7,555	11	2	798	26	13,102
164 Stereotyping and electrotyping	8	261,517			117,254	144,263	11	44	39,205	277	175,231
165 Sugar and molasses, refining	3	13,316,859	1,492,716	953,229	2,300,919	8,599,965	2	45	86,957	483	269,049
166 Surgical appliances	15	71,693			28,554	43,139	21	11	9,786	115	50,682
167 Taxidermy	4	15,035				280	5	2	974	12	6,229
168 Tinsmithing, coppersmithing, and sheet-iron working	133	1,369,727	58,967	58,567	246,103	1,011,090	157	126	119,776	1,228	705,060
169 Tobacco, cigars and cigarettes	107	1,304,711	22,200	47,300	45,511	1,189,700	130	83	104,151	1,780	1,207,251
170 Tools, not elsewhere specified	11	368,063	10,000	23,616	148,967	185,450	12	17	15,203	164	84,210
171 Toys and games	3	3,000			700	2,300	4			2	611
172 Trunks and valises	11	119,989		5,000	12,400	102,589	17	13	11,097	115	57,972
173 Type founding	3	220,500			137,000	83,500	3	20	22,278	189	102,487
174 Typewriter repairing	5	12,793			986	11,807	2	4	520	13	7,375
175 Umbrellas and canes	9	71,900			8,100	63,800	9	23	16,940	74	32,604
176 Upholstering materials	3	14,000			4,000	10,000	4	8	2,000	41	11,833
177 Varnish	7	180,047		2,000	22,632	155,415	5	22	22,931	23	14,376
178 Watch, clock, and jewelry repairing	201	190,707	1,500	1,500	59,075	128,632	210	3	1,372	200	127,961
179 Window shades	12	22,265			3,190	19,075	11	1	390	48	32,411
180 Wirework, including wire rope and cable	9	41,204			7,699	33,505	10	5	1,523	63	32,171
181 Wood, turned and carved	23	133,840	6,000	17,075	35,955	124,310	31	15	14,600	102	59,050
182 All other industries	90	12,168,668	816,748	1,318,735	2,148,279	7,884,906	89	800	461,643	3,365	1,624,956

<sup>1</sup> Embraces agricultural implements, 1; artificial feathers and flowers, 2; artists' materials, 1; babbitt metal and solder, 2; belting and hose, linen, 1; belting and hose, rubber, 1; bluing, 2; boxes, cigar, 2; brick and tile, 1; card cutting and designing, 2; carpets and rugs, other than rag, 1; carriages and sleds, children's, 1; cars, steam railroad, not including operations of railroad companies, 1; cheese, butter, and condensed milk, factory product, 2; chocolate and cocoa products, 2; cordage and twine, 1; cotton waste, 1; drug grinding, 1; dyeing and finishing textiles, 2; firearms, 1; flags and banners, 2; furs, dressed, 1; glue, 2; grindstones, 1; hand knit goods, 1; hat and cap materials, 1; ink, printing, 1; ink, writing, 2; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel forgings, 2; iron and steel, nails and spikes, cut and wrought, including wire nails, 2; ivory and bone work, 2; kaolin and other earth grinding, 2; kindling wood, 2; labels and tags, 1;

BROCKTON.

		\$10,193,638	\$447,562	\$766,755	\$1,585,551	\$7,393,820	494	631	\$654,785	10,936	\$6,166,462
1 All industries	428										
2 Bicycle and tricycle repairing	15	10,035		200	5,585	4,250	18			8	4,806
3 Blacking	4	21,447	546	2,000	2,509	16,392	6	1	240	16	6,330
4 Blacksmithing and wheelwrighting	20	67,153	33,050	15,250	5,225	18,588	20	3	3,028	34	21,050
5 Boot and shoe cut stock	10	224,687	14,400	9,600	23,398	177,289	12	11	6,443	193	73,180
6 Boot and shoe findings	18	562,033	41,700	64,117	64,251	401,935	19	88	28,231	430	198,283
7 Boots and shoes, custom work and repairing	15	4,555			2,740	1,815	15			7	2,818
8 Boots and shoes, factory product	52	5,245,591	154,550	395,170	659,375	5,066,496	58	363	447,573	8,498	4,856,509
9 Boxes, fancy and paper	4	136,920	19,300	21,800	26,500	69,320	6	13	10,500	180	75,962
10 Bread and other bakery products	11	47,345	11,400	15,200	6,070	14,675	11	30	16,400	37	24,481
11 Carpentering	29	132,805	5,440	7,250	13,360	106,755	38	2	382	182	111,462
12 Carriages and wagons	9	20,086			3,130	16,960	14			15	9,251
13 Clothing, men's, custom work and repairing	20	29,705			2,835	26,870	22	1	600	72	40,721
14 Clothing, women's, dressmaking	17	5,293	125	810	1,790	2,568	17			31	9,593
15 Confectionery	5	119,094	27,233	10,967	24,490	47,401	5	29	19,915	75	22,613
16 Cutlery and edge tools	7	23,530		300	11,000	12,250	9	1	720	29	18,960
17 Electrical construction and repairs	3	8,491		300	2,300	5,891	5	2	1,300	11	6,015
18 Flouring and grist mill products	3	22,000	3,500	4,500	5,500	8,500	4	5	425	5	2,356
19 Foundry and machine shop products	16	280,097	39,300	37,200	65,750	137,347	22	15	16,008	125	87,000
20 Furniture, cabinetmaking, repairing, and upholstering	4	1,015			515	500	4			5	4,014
21 Iron and steel, nails and spikes, cut and wrought, including wire nails	4	97,679	2,864	23,449	45,423	25,943	5	4	2,914	59	26,762
22 Lais	3	257,603	19,721	67,325	34,296	136,261	4	11	15,004	124	87,609
23 Masonry, brick and stone	14	35,965	3,500	2,845	6,590	23,030	15	1	300	46	29,556
24 Millinery, custom work	21	36,780			845	35,935	22			34	11,537
25 Models and patterns	5	6,803			2,731	4,077	7	3	1,940	15	8,512
26 Painting, house, sign, etc	31	99,601	4,133	6,487	6,312	82,669	42	5	2,893	115	70,883

BY SPECIFIED INDUSTRIES: 1900—Continued.

BOSTON—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.										
24	\$12,882	1	\$156			\$6,978	\$5,085	\$178	\$1,715		\$49,755	\$17,541	\$2,214	\$99,892	147
36	28,088	1	416			4,420	8,538	81	798		12,783	11,910	873	55,717	148
41	22,818	10	1,875			4,688	2,584	217	1,735		26,797	25,805	992	63,741	149
4	2,420					1,469	876		598		8,939	8,900	39	13,320	150
658	415,417					102,144	19,945	3,310	31,004	\$53,825	461,779	448,015	8,764	1,120,768	151
11	7,869	102	63,617	1	\$200	58,523	18,110	417	4,788	35,258	246,478	245,898	1,080	459,602	152
27	17,877					5,489	4,420	80	761	228	17,608	16,786	822	61,971	153
17	6,881	91	19,949	3	358	7,083	8,142	121	2,890	1,000	31,030	30,292	733	83,407	154
21	16,270					9,235	4,320	190	4,725		896,855	896,855		983,010	155
122	61,762			4	936	18,690	1,927	2,727	18,976		360,588	355,044	11,494	511,664	156
302	280,814	8	2,840			245,523	48,963	16,645	179,020		296,923	290,833	6,590	1,156,635	157
6	8,020	1	216			2,850	1,590		761		9,712	9,700	12	20,000	158
87	40,269	51	10,401	2	416	9,172	8,700	269	5,293	500	41,665	39,888	1,680	139,328	159
8	4,021	2	900			5,847	2,078	25	3,744		2,698	2,145	553	29,190	160
1,353	828,841	7	1,844			161,416	25,984	11,831	100,351	23,700	1,143,827	1,112,988	80,839	2,876,327	161
27	17,010					6,741	2,036		4,705		19,780	19,508	272	119,250	162
25	12,702	1	400			5,753	4,244	59	850	600	4,538	4,348	190	35,550	163
262	169,574	15	5,659			48,022	19,578	1,203	20,543	6,698	88,505	78,011	10,495	443,096	164
463	265,214	20	4,195			277,505	20,200	23,194	254,111		15,281,923	15,180,124	101,799	15,746,547	165
71	86,242	42	18,612	2	228	16,987	10,840	600	4,437	1,150	44,296	42,196	2,100	166,189	166
12	6,220					2,216	1,036	25	1,155		2,768	2,745	13	21,300	167
1,189	692,249	39	12,811			179,999	86,107	8,881	65,769	19,192	1,097,325	1,077,940	19,986	2,604,631	168
1,868	1,022,561	409	184,137	3	658	364,558	40,452	6,172	317,934		1,224,424	1,220,570	3,854	3,504,603	169
123	76,722	41	7,488			49,157	3,548	1,075	34,517	10,017	131,085	121,298	9,737	372,447	170
2	614					1,635	1,180	21	334		1,576	1,450	126	4,600	171
101	53,716	18	3,956	1	800	16,392	10,330	308	5,694		136,809	135,769	1,180	292,392	172
121	72,798	68	29,683			24,138	7,685	789	15,659		83,211	78,465	6,746	305,544	173
13	7,876					2,343	1,390	3	910	100	3,549	3,549		15,591	174
25	14,454	40	18,150			7,977	2,730	114	5,133		168,275	157,405	870	259,320	175
3	878	33	10,977			2,727	1,700	53	974		29,040	28,690	350	65,500	176
22	13,976	1	400			16,613	4,810	1,188	10,620		128,906	127,186	1,720	241,987	177
190	125,719	7	1,984	3	258	84,985	46,309	679	10,464	27,543	82,098	80,059	2,030	498,672	178
41	29,774	7	2,567			5,339	4,221	22	896	200	81,308	80,890	418	143,969	179
55	29,184	4	1,840	4	1,147	7,436	4,550	39	2,847	200	23,621	22,752	869	82,868	180
102	59,650					15,277	5,927	987	8,363		75,490	71,848	4,142	203,357	181
2,037	1,948,371	1,199	364,337	79	16,248	1,311,173	78,930	100,772	1,105,275	31,106	3,107,421	2,945,373	162,013	13,135,658	182

lime and cement, 2; linen goods, 1; liquors, distilled, 2; nets and seines, 1; oil, castor, 1; paper and wood pulp, 1; paper hangings, 2; pens, fountain and stylographic, 1; photographic apparatus, 1; printing materials, 2; pulp goods, 1; registers, cash, 2; rules, ivory and wood, 1; sewing machine attachments, 2; shipbuilding, iron and steel, 2; shoddy, 1; silversmithing, 1; silverware, 1; slaughtering and meat packing, wholesale, 1; smelting and refining, not from the ore, 2; springs, steel, car and carriage, 2; starch, 2; typewriters and supplies, 1; vinegar and cider, 1; watch cases, 1; whips, 2; woodenware, not elsewhere specified, 1.

BROCKTON.

8,161	\$4,954,968	2,764	\$1,195,231	71	\$16,263	\$1,189,108	\$115,447	\$57,927	\$903,665	\$112,129	\$15,980,663	\$16,876,063	\$104,590	\$26,884,881	1
8	4,806					3,180	2,423	92	600		10,463	9,924	539	27,765	2
6	3,930	10	2,400			3,302	336	46	2,020		20,356	20,267	89	75,193	3
84	21,650					4,180	1,935	695	836	694	15,680	14,428	1,252	67,621	4
154	64,803	33	8,734	6	1,143	7,731	1,835	1,102	4,794		648,446	640,464	2,981	801,471	5
270	141,893	158	56,046	2	344	55,863	8,241	2,385	45,242		994,795	989,115	5,680	1,422,403	6
7	2,918					2,128	1,921	12	195		5,569	5,439	130	16,055	7
6,291	3,861,236	2,153	982,330	54	12,893	786,983	33,003	35,072	691,939	26,969	12,499,609	12,447,102	52,507	19,344,397	8
37	22,735	137	51,834	6	1,343	15,603	2,300	1,673	11,730		112,897	110,002	2,895	265,525	9
91	24,114	8	867			18,294	2,274	615	15,405		81,944	79,754	2,190	190,361	10
182	111,462					85,094	1,550	324	2,564	80,656	218,452	217,777	675	485,098	11
15	9,251					2,351	1,963	75	163	150	15,895	15,426	469	41,805	12
47	31,498	25	9,223			9,406	5,654	187	1,905	1,600	46,713	46,528	190	128,620	13
51	16,920	31	9,503			2,544	2,271	15	258		2,542	2,522	20	26,045	14
28	17,862	24	5,725			7,933	1,786	1,452	4,695		142,270	138,844	3,435	220,241	15
11	6,045	1	200			4,023	2,293	177	1,558		11,432	10,850	1,082	51,677	16
5	2,336					1,793	625	34	1,134		15,434	15,434		31,931	17
125	87,000					1,297	485	280	502		51,063	50,063	1,000	60,169	18
6	4,044					11,735	4,670	2,143	4,922		56,217	50,102	6,145	250,077	19
48	21,270	11	5,486			743	600	6	137		3,392	3,312	80	12,300	20
124	87,609					2,836	900	811	1,125		62,125	58,985	3,140	136,979	21
46	29,556					21,585		1,746	19,849		89,988	85,976	4,007	292,349	22
15	8,512	84	11,527			2,676	132	154	1,690	700	25,798	25,788	10	79,510	23
115	70,585					11,835	8,124	239	2,972		66,250	66,167	83	119,655	24
						3,874	1,222	40	2,612		3,119	3,034	85	23,421	25
						8,510	4,068	619	3,825		63,146	62,870	276	188,059	26

TABLE 8.—MANUFACTURES IN CITIES

BROCKTON—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.
27 Photography	4	\$9,200			\$4,800	\$4,400	4	1	\$150	9	\$4,895
28 Plumbing, and gas and steam fitting	14	66,088	\$100	\$4,200	6,950	54,838	17	10	5,796	84	41,443
29 Printing and publishing, book and job	9	100,140			50,400	49,740	11	8	6,750	78	44,707
30 Roofing and roofing materials	3	4,575	200	500	500	3,375	3			7	4,664
31 Rubber and elastic goods	4	903,509	9,500	52,000	167,001	676,008	1	36	34,010	236	120,768
32 Saddlery and harness	5	6,800			825	5,975	5			5	3,388
33 Tinsmithing, coppersmithing, and sheet-iron working.	3	3,150			750	2,400	4	1	304	4	2,525
34 Tools, not elsewhere specified	4	45,000	2,500	6,000	7,511	28,989	5	3	2,010	29	19,369
35 Watch, clock, and jewelry repairing	9	6,185			2,785	3,400	10			17	9,787
36 All other industries <sup>1</sup>	83	552,733	54,000	40,245	331,459	127,029	34	34	30,469	171	105,267

<sup>1</sup> Embraces boot and shoe uppers, 1; boxes, wooden packing, 2; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; corsets, 1; dyeing and cleaning, 2; electroplating, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; gas, illuminating and heating, 1; hand stamps, 1; ink, writing, 1; iron and steel, bolts, nuts, washers, and rivets, 1; liquors, malt, 1; lock and gun smithing, 1; looking-glass and picture frames, 1; lumber, planing mill

CAMBRIDGE.

1 All industries	782	\$26,662,751	\$1,951,228	\$3,799,781	\$5,995,533	\$14,916,159	831	1,095	\$1,160,805	12,986	\$6,785,079
2 Bicycle and tricycle repairing	17	32,462	3,000	12,000	6,320	11,142	19	4	2,630	31	17,060
3 Blacksmithing and wheelwrighting	38	65,570	13,750	13,450	8,930	19,480	42	3	2,180	77	51,458
4 Bookbinding and blank book making	5	165,728	13,000	39,200	62,117	46,411	7	14	14,216	239	142,400
5 Boots and shoes, custom work and repairing.	66	11,968	500	600	5,897	4,971	64			22	12,236
6 Bread and other bakery products	82	37,612	11,600	24,650	10,986	40,376	37	50	17,474	133	84,824
7 Brick and tile	5	522,978	193,776	95,999	88,571	144,632	9	9	9,250	184	84,094
8 Carpentering	33	374,595	34,000	40,800	48,204	250,901	90	10	8,260	590	407,814
9 Carriages and wagons	25	256,122	45,200	47,000	18,565	145,357	32	7	6,084	180	105,392
10 Clothing, men's, custom work and repairing.	46	70,533	1,300	1,800	7,038	60,345	46	4	3,600	123	60,374
11 Clothing, women's, dressmaking	15	6,135			1,330	4,805	19			24	6,193
12 Confectionery	18	339,656	13,500	63,950	77,275	174,931	17	60	55,755	441	123,475
13 Cooperage	6	116,033	31,000	24,000	8,525	52,503	4	4	4,010	79	45,804
14 Dyeing and cleaning	5	6,300	250	1,250	1,900	3,490	7			19	9,748
15 Electrical construction and repairs	3	15,450			175	15,275	4	1	300	18	3,860
16 Food preparations	4	5,500			350	5,150	6	8	4,300	4	1,656
17 Foundry and machine shop products	18	4,677,412	237,600	653,967	1,510,889	2,269,956	21	97	102,390	1,591	1,019,117
18 Furniture, cabinetmaking, repairing, and upholstering.	20	25,075	300	500	4,335	19,940	26			43	32,123
19 Furniture, factory product	10	552,622	48,800	132,000	41,539	280,733	14	31	50,549	435	310,399
20 Grease and tallow	3	129,371	3,224	20,361	17,569	77,277	3	3	2,253	58	36,052
21 Ironwork, architectural and ornamental.	3	468,712	64,223	43,702	85,132	270,695	2	19	22,378	235	136,718
22 Lock and gun smithing	3	4,050			850	3,200	3	1	260	2	1,500
23 Lumber, planing mill products, including sash, doors, and blinds.	6	114,962	3,000	6,300	20,562	84,600	6	8	9,467	107	63,232
24 Marble and stone work	12	300,501	36,500	32,300	65,925	165,778	17	8	10,306	233	153,262
25 Masonry, brick and stone	25	74,030	14,750	10,775	13,760	34,775	26	5	2,903	127	93,042
26 Millinery, custom work	10	14,907			615	14,292	10	2	519	24	7,923
27 Monuments and tombstones	5	63,400	16,000	6,000	3,200	38,200	6	3	2,000	31	13,003
28 Musical instruments, pianos and materials.	6	1,043,200	32,000	201,763	71,351	733,146	7	29	31,600	733	325,136
29 Painting, house, sign, etc.	60	82,205	11,300	7,650	11,780	51,475	66	3	1,945	212	117,213
30 Paper hanging	13	4,193			836	3,357	13	1	520	17	10,050
31 Patent medicines and compounds	4	236,926	21,050	13,700	21,290	176,236	3	4	5,160	174	44,092
32 Photography	5	5,100		300	3,100	1,700	7			4	2,075
33 Plastering and stucco work	13	26,995	2,500	1,300	3,640	19,055	19			33	72,136
34 Plumbing, and gas and steam fitting	43	142,434			19,727	122,707	53	17	8,643	215	122,513
35 Printing and publishing, book and job.	17	961,932	56,000	236,919	341,137	277,876	30	34	54,371	373	463,527
36 Printing and publishing, newspapers and periodicals.	9	2,031,434			1,134,631	956,803	8	132	143,055	602	330,600
37 Roofing and roofing materials	8	64,207	1,350	9,400	14,225	39,232	7			37	20,363
38 Saddlery and harness	12	6,740			1,565	5,175	12	11	6,760	15	9,030
39 Sausage	3	19,150	2,000	12,000	4,050	1,100	4			11	5,330
40 Soap and candles	5	638,161	107,839	110,123	96,530	333,532	6	73	68,691	152	68,434
41 Tinsmithing, coppersmithing, and sheet-iron working.	11	241,850	25,400	39,300	49,325	126,325	13	6	9,240	164	74,109
42 Tobacco, cigars and cigarettes	5	3,162			225	7,937	7	1	1,100	24	15,690
43 Watch, clock, and jewelry repairing	13	3,060			3,250	4,810	15			12	7,033
44 Wood, turned and carved	4	59,465	12,400	13,100	2,500	22,465	4	3	3,652	20	11,203
45 All other industries <sup>1</sup>	68	12,479,710	373,966	1,756,062	2,105,322	7,739,300	63	330	494,949	4,463	2,031,993

<sup>1</sup> Embraces babbit metal and solder, 1; belting and hose, linen, 1; belting and hose, rubber, 1; bluing, 1; boots and shoes, rubber, 1; bottling, 1; boxes, fancy and paper, 2; boxes, wooden packing, 1; brass castings and brass finishing, 2; brassware, 1; brooms and brushes, 2; cheese, butter, and condensed milk, factory product, 1; cleansing and polishing preparations, 1; clothing, men's, factory product, 2; clothing, women's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; collars and cuffs, paper, 1; electrical apparatus and supplies, 1; electroplating, 1; flavoring extracts, 2; fur goods, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; hand knit goods, 1; hardware, 1; instruments, professional and scientific, 1;

BY SPECIFIED INDUSTRIES: 1900—Continued.

BROCKTON—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.										
5	\$2,375	4	\$2,020			\$3,870	\$1,708	\$80	\$791	\$1,800	\$4,872	\$4,767	\$105	\$19,977	27
84	41,448					6,301	3,833	423	2,045		123,449	122,727	722	204,289	28
71	42,607	4	1,500	3	\$510	13,427	3,948	324	9,155		71,243	70,033	1,210	180,390	29
7	4,661					2,767	359	29	126		17,228	17,203	25	26,085	30
130	81,852	100	39,416			39,853	150	2,321	37,882		304,842	296,061	8,781	538,838	31
5	3,998					1,450	1,808	46	96		3,474	3,378	96	12,163	32
4	2,625					493	861	17	85		4,348	4,304	89	13,600	33
29	19,869					2,042	280	445	1,817		16,844	15,449	1,395	63,740	34
17	9,787					2,653	2,116	25	517		2,790	2,740	50	20,536	35
145	96,447	26	8,820			43,782	10,925	4,323	28,534		163,435	160,223	3,207	440,839	36

products, including sash, doors, and blinds, 2; marble and stone work, 1; mineral and soda waters, 1; monuments and tombstones, 1; muelage and paste, 1; patent medicines and compounds, 1; paving and paving materials, 2; plastering and stucco work, 1; printing and publishing, newspapers and periodicals, 2; sporting goods, 1; stencils and brands, 1; tobacco, cigars and cigarettes, 1.

CAMBRIDGE.

9,894	\$5,864,500	3,028	\$906,619	64	\$13,951	\$2,229,106	\$226,463	\$202,576	\$1,471,814	\$328,253	\$23,986,638	\$23,634,781	\$351,857	\$39,164,018	1
29	16,604	1	300	1	156	5,985	3,230	319	2,436		17,718	17,361	357	64,769	2
77	61,468					8,037	5,315	618	2,104		38,357	36,327	2,030	145,000	3
120	85,494	164	55,696	5	1,210	22,504	1,030	1,031	20,283	200	90,300	88,208	2,092	299,490	4
22	12,236					8,758	7,291	101	1,356	10	21,080	20,733	297	76,116	5
127	82,168	9	2,352	2	304	30,666	11,850	1,495	17,321		264,179	258,583	5,591	485,761	6
184	81,694					14,417	50	5,331	9,036		78,981	14,223	64,758	220,482	7
590	407,814					329,505	9,375	2,116	20,946	297,068	671,027	667,633	3,334	1,059,337	8
180	105,892					19,834	10,956	2,278	6,660	40	114,703	110,772	3,931	311,914	9
77	44,744	44	15,924	2	206	11,577	11,577	532	5,448	2,150	74,264	73,617	647	208,474	10
		24	6,198			2,662	2,232	5	425		7,173	6,967	206	25,772	11
156	59,458	285	69,017			28,559	6,385	3,537	18,587		500,961	492,011	8,950	930,016	12
79	45,801					7,422	900	1,802	4,720		137,863	136,145	1,718	211,327	13
14	8,060	5	1,084			1,729	322	45	612	150	2,293	2,000	233	19,884	14
17	8,600	1	260			1,551	756	27	768		12,600	12,590	10	32,500	15
4	1,656					3,212	965	167	2,030		10,810	10,440	370	26,255	16
1,581	1,016,983	2	440	8	1,039	203,268	14,751	24,005	163,852		1,524,785	1,492,265	32,520	3,503,036	17
43	30,878	5	1,250			4,970	3,249	120	1,351	250	22,105	21,362	743	78,129	18
423	305,280	8	4,369	4	800	50,961	17,792	5,637	27,532		220,084	213,054	7,030	692,245	19
63	36,652					15,119	2,580	1,196	11,343		187,880	181,503	6,372	294,154	20
285	136,718					23,500	1,400	1,086	21,014		358,910	349,765	4,145	594,473	21
2	1,500					1,030	576	6	568		2,685	2,660	25	7,100	22
107	63,232					12,222	3,660	1,307	7,005	250	129,903	126,299	3,604	234,885	23
232	152,942			1	320	15,453	3,672	2,805	3,916		182,842	179,027	3,815	448,558	24
127	93,942					12,220	518	96	5,975	6,000	34,492	34,396	96	48,393	25
1	404	22	7,347	1	172	3,946	3,249	47	650		17,744	17,649	95	40,693	26
81	18,003					3,294	488	642	2,104		17,374	17,141	233	55,737	27
611	296,235	122	28,900			25,069	4,530	5,409	15,130		550,555	549,057	1,498	1,168,662	28
210	116,501	2	712			12,055	5,799	553	5,653	50	75,878	75,771	107	281,682	29
17	10,050					1,220	910	17	293		9,515	9,495	20	33,150	30
66	22,270	115	21,872	3	450	15,036	180	1,845	13,561		125,598	123,727	1,866	205,875	31
1	1,155	3	920			1,809	1,130	71	558		5,063	5,010	53	15,680	32
93	72,136					12,402	447	131	1,321	10,000	42,732	42,332	400	168,173	33
216	122,518					19,286	11,625	622	7,039		170,058	168,763	1,295	435,393	34
407	323,539	400	143,888	6	1,050	97,619	4,323	7,424	34,610	1,292	455,284	445,184	10,100	1,242,492	35
343	237,539	252	92,765	2	356	439,370	32,938	6,475	390,264	9,693	984,829	980,985	3,844	2,067,065	36
87	20,363					5,733	1,270	329	4,134		24,333	24,211	172	78,518	37
15	9,030					2,812	2,504	46	262		13,244	13,039	175	36,824	38
11	5,830					952	240	312	400		44,767	43,425	1,342	55,775	39
149	67,543	3	936			53,147	300	8,669	49,173		528,881	522,416	6,465	872,582	40
144	66,829	20	7,280			21,221	3,968	2,500	14,553	200	191,123	188,230	2,893	367,011	41
19	18,750	5	1,940			5,698	1,020	36	4,592		18,717	18,712	5	58,898	42
12	7,033					2,953	2,540	99	314		5,271	5,129	142	31,204	43
16	10,023	4	1,180			2,912	314	560	2,008		9,615	8,510	1,105	33,638	44
2,907	1,533,845	1,532	441,885	20	7,233	654,502	27,526	110,264	515,812	900	15,945,017	15,777,901	167,113	21,089,318	45

jewelry, 2; kindling wood, 2; leather, tanned, curried, and finished, 1; malt, 2; mats and matting, 1; mattresses and spring beds, 2; mineral and soda waters, 1; models and patterns, 2; muelage and paste, 1; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 2; nets and seines, 1; paints, 1; plumbers' supplies, 1; pottery, terra cotta, and fire-clay products, 2; pulp goods, 1; safes and vaults, 1; ship and boat building, wooden, 2; shirts, 1; slaughtering and meat packing, wholesale, 2; springs, steel, car and carriage, 1; stamped ware, 1; steam packing, 1; sugar and molasses, refining, 1; tools, not elsewhere specified, 1; wirework, including wire rope and cable, 1; woodenware, not elsewhere specified, 1.

TABLE 8.—MANUFACTURES IN CITIES

CHELSEA.

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.
All industries	808	\$8,211,682	\$499,237	\$985,194	\$1,652,928	\$5,124,328	828	842	\$346,985	3,332	\$1,025,875
2 Baskets, and rattan and willow ware	3	7,476	2,900	2,000	1,000	1,675	3	1	624	18	8,400
3 Bicycle and tricycle repairing	4	2,465	50	260	900	1,255	5			5	1,952
4 Blacksmithing and wheelwrighting	19	15,620	1,250	1,630	3,435	9,305	19			16	9,032
5 Boots and shoes, custom work and repairing.	19	4,638	400	600	2,023	1,615	19			7	2,802
6 Boots and shoes, factory product.	3	146,170	9,000	14,750	33,595	88,825	3	21	18,586	348	167,490
7 Bread and other bakery products.	17	56,517	820	2,600	18,690	34,407	22	15	8,546	85	39,022
8 Carpentering	27	52,660	2,700	6,100	5,925	37,835	28			101	72,728
9 Carriages and wagons	3	25,519	5,000	5,600	5,597	10,822	5	1	500	22	14,134
10 Clothing, men's, custom work and repairing.	12	12,304	1,000	3,334	2,100	6,870	13			11	6,314
11 Clothing, men's, factory product	5	8,525	1,650	2,700	1,700	2,475	8			36	9,648
12 Clothing, women's, dressmaking	11	6,310	1,300	2,250	1,055	1,705	11			25	9,294
13 Confectionery	5	40,942	25,075	2,025	6,800	7,042	6	10	3,350	9	5,175
14 Fish, canning and preserving	3	5,125	700	1,300	1,025	2,100	5			4	2,128
15 Foundry and machine shop products	5	297,243	23,313	59,100	119,387	94,943	5	13	12,364	101	60,842
16 Furniture, cabinetmaking, repairing, and upholstering.	7	8,700			1,050	2,650	8			3	1,888
17 Grease and tallow	3	15,900	3,625	4,450	5,000	2,825	4	1	624	10	5,522
18 Leather, tanned, curried, and finished	3	246,898	22,000	34,215	24,407	166,271	3	10	8,458	78	35,585
19 Looking-glass and picture frames	3	12,535	680	800	575	7,900	3	1	360	9	4,078
20 Masonry, brick and stone	5	7,845	250	400	3,200	3,495	6			34	12,335
21 Millinery, custom work	8	13,067	3,500	1,000	112	8,455	8			18	4,783
22 Mineral and soda waters	3	76,180	6,900	12,910	16,800	40,470	2	16	8,866	15	7,880
23 Painting, house, sign, etc	19	13,662	600	3,700	3,374	10,938	21			30	19,447
24 Paper hanging	3	7,255	3,200	800	80	3,175	3			4	1,800
25 Patent medicines and compounds	4	22,334	2,200	3,000	1,750	15,884	4	1	416	9	4,610
26 Photography	4	2,425			1,800	625	4			2	626
27 Plastering and stuccowork	5	12,235	800	400	380	10,655	6			14	9,209
28 Plumbing, and gas and steam fitting	17	13,752	1,500	2,300	4,205	11,247	20	1	300	31	19,187
29 Printing and publishing, book and job	6	17,545	700	2,300	12,200	2,345	7			21	8,022
30 Printing and publishing, newspapers and periodicals.	6	17,316			10,700	6,616	8	5	1,508	23	8,314
31 Roofing and roofing materials	4	26,520	6,570	6,250	2,250	11,450	5			15	11,148
32 Rubber and elastic goods	7	3,488,063	149,479	331,950	690,828	2,205,776	5	53	66,282	931	415,615
33 Saddlery and harness	4	1,730			815	681	5			2	1,500
34 Tobacco, cigars and cigarettes	11	24,725	4,600	6,600	2,020	12,105	11			27	13,152
35 Watch, clock, and jewelry repairing	3	1,600			600	1,000	4			6	5,128
36 All other industries <sup>1</sup>	47	3,492,921	218,696	366,640	667,545	2,240,141	39	193	216,201	1,261	639,539

<sup>1</sup> Embraces baking and yeast powders, 1; blacking, 1; bluing, 1; boot and shoe findings, 1; bottling, 1; boxes, fancy and paper, 2; boxes, wooden packing, 2; brass castings and brass finishing, 1; chemicals, 1; clocks, 1; clothing, women's factory product, 1; cotton goods, 1; dyeing and cleaning, 1; dyeing and finishing textiles, 1; electrical apparatus and supplies, 1; electrical construction and repairs, 2; flavoring extracts, 1; furnishing goods, men's, 1; furniture, factory product, 1; gas, illuminating and heating, 1; ink, writing, 1; ironwork, architectural and ornamental, 1; kaolin and other earth grinding, 1; leather goods, 1; lithographing

EVERETT.

1 All industries	108	\$5,107,785	\$610,312	\$440,516	\$3,245,039	\$1,802,338	161	135	\$153,963	2,141	\$1,068,937
2 Blacksmithing and wheelwrighting	13	23,695	7,000	4,300	4,100	8,295	13			20	11,463
3 Boots and shoes, custom work and repairing.	11	1,600		200	970	490	8			4	1,888
4 Bread and other bakery products	6	22,090	1,000	3,500	7,800	10,290	7	8	3,594	62	18,502
5 Carpentering	23	64,133	1,650	2,100	10,725	49,703	25			142	85,121
6 Clothing, men's, custom work and repairing.	6	2,425			750	1,675	6			5	2,200
7 Clothing, women's, dressmaking	7	1,130			330	350	7			9	3,147
8 Foundry and machine shop products	4	122,865	9,100	10,600	32,725	64,440	4	5	8,250	88	43,259
9 Furniture, cabinetmaking, repairing, and upholstering.	5	3,435	1,000	500	960	1,025	3			3	1,691
10 Furniture, factory product	3	55,109	6,900	18,000	13,323	16,386	2	7	9,300	27	22,050
11 Masonry, brick and stone	5	3,435	2,300	2,000	2,305	2,330	5			20	14,620
12 Painting, house, sign, etc	15	6,258	470	1,280	1,500	3,008	15			33	19,247
13 Paper hanging	5	703	100	150	141	315	5			1	1,040
14 Plumbing, and gas and steam fitting	9	24,338	500	500	4,107	19,279	9	3	1,146	31	25,530
15 Printing and publishing, newspapers and periodicals.	3	6,860	350	1,000	4,860	650	2	3	2,200	7	2,735
16 All other industries <sup>1</sup>	50	5,763,948	579,942	399,336	3,159,978	1,624,047	50	112	129,478	1,719	816,483

<sup>1</sup> Embraces belting and hose, rubber, 1; bicycle and tricycle repairing, 2; boots and shoes, factory product, 1; boxes, fancy and paper, 1; brick and tile, 2; brooms and brushes, 1; carriages and wagons, 1; chemicals, 2; coke, 1; confectionery, 2; electrical construction and repairs, 2; fur goods, 1; glass, cutting, staining, and ornamenting, 1; hostery and knit goods, 1; ironwork, architectural and ornamental, 2; leather goods, 2; liquors, distilled, 1; millinery, custom work, 2; mineral and soda waters, 2; monuments and tombstones, 1; musical instruments and materials, not specified, 1; musical instruments, pianos and

BY SPECIFIED INDUSTRIES: 1900—Continued.

CHelsea.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
2,421	\$1,330,520	902	\$298,908	9	\$1,447	\$678,248	\$55,340	\$55,155	\$163,750	\$108,985	\$5,764,400	\$5,660,973	\$97,436	\$10,393,540	1
16	7,880	2	520			175	162	8	5		2,904	2,677	227	19,032	2
5	1,952					967	401	39	527		7,526	7,460	66	17,370	3
15	8,986			1	96	2,237	1,946	45	246		8,103	7,396	707	38,865	4
7	2,802					2,389	2,250	22	37	80	6,212	6,028	184	18,992	5
213	108,108	120	48,200	6	1,092	20,726	900	1,221	18,605		521,194	518,755	2,439	730,817	6
60	33,674	25	5,348			15,350	9,502	413	5,435		135,061	130,706	4,355	245,067	7
101	72,728					20,697	1,164	114	681	18,838	102,290	102,210	80	232,763	8
22	14,134					908	300	260	393	75	12,208	11,675	531	86,935	9
6	3,014	6	2,670			4,926	2,422	143	688	1,675	13,663	13,496	167	40,768	10
2	550	34	9,098			1,521	354	66	101	1,000	6,688	6,566	122	23,123	11
		25	9,294			1,011	942	51	18		5,382	5,252	130	19,010	12
9	5,175					2,752	1,560	551	641		26,400	25,806	594	53,157	13
4	2,128					784	600	51	133		22,136	21,734	402	31,855	14
101	60,842					15,363	360	1,084	18,319		93,388	87,567	5,821	200,469	15
3	1,888					1,075	960		115		3,147	3,107	40	8,159	16
						896		178	718		30,751	29,127	1,624	65,520	17
10	5,522					19,872	480	1,097	12,205		145,219	142,200	3,019	215,770	18
73	35,585					503	244	119	140		14,500	14,357	143	25,500	19
9	4,078					2,368	384	19	15	2,000	15,859	15,859		40,200	20
94	12,335	13	4,783			2,844	2,545	129	170		26,982	26,855	127	49,787	21
						6,656	300	589	5,767		12,354	11,984	370	54,596	22
15	7,386					1,558	1,372	92	94		12,909	12,819	90	50,430	23
36	19,487					46	46	18	28		2,780	2,755	25	7,970	24
4	1,800					5,693	340	102	4,278	973	9,928	9,823	105	32,611	25
6	2,050	4	1,900			1,040	934	8	70	87	1,624	1,619	5	4,930	26
		2	626			884	229	93	12		4,063	4,060	3	18,915	27
14	9,209					2,976	2,568	236	172		84,244	83,719	525	86,570	28
91	19,187					2,011	1,296	170	545		5,678	5,248	430	23,296	29
11	4,963	9	2,881	1	175	3,084	1,342	87	483	1,172	3,546	2,865	681	27,120	30
10	5,200	12	3,530	1	81	842	300	417	125		29,029	23,644	885	56,700	31
15	11,148					157,554	5,800	28,477	123,277		2,842,543	2,287,574	54,969	3,718,094	32
611	299,866	320	115,749			699	538	17	94		1,325	1,305	20	4,823	33
2	1,500					7,200	1,175	241	5,784		11,109	11,062	47	35,663	34
19	9,031	8	2,118			804	781	73	73		4,513	4,498	15	19,100	35
6	5,128	313	87,038			376,318	10,948	18,308	268,837	78,185	2,089,153	2,070,165	18,988	4,062,623	36
948	552,501														

and engraving, 1; lock and gun smithing, 2; lumber and timber products, 1; lumber, planing mill products, including sash, doors, and blinds, 2; mattresses and spring beds, 1; monuments and tombstones, 1; oil, not elsewhere specified, 2; paints, 1; pickles, preserves, and sauces, 1; ship and boat building, wooden, 2; shirts, 1; soda water apparatus, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; varnish, 1; window shades, 1.

EVERETT.

1,987	\$1,016,269	151	\$52,170	3	\$548	\$702,785	\$22,883	\$45,675	\$530,780	\$53,547	\$2,725,197	\$2,617,068	\$108,129	\$5,038,120	1
20	11,463					1,301	846	138	317		10,215	9,645	570	37,791	2
4	1,888					1,081	944	5	132		3,498	3,385	63	11,113	3
26	16,792	5	1,578	1	132	4,243	2,610	120	1,513		61,987	60,100	1,287	98,850	4
142	85,121					85,737	508	849	9,602	24,780	207,931	207,511	420	392,880	5
2	1,234	3	975			1,450	1,239	19	192		4,541	4,440	101	12,646	6
						555	386		160		585	585		9,015	7
88	43,259					10,788	2,135	374	7,677	102	63,242	58,805	4,437	169,935	8
3	1,691					955	474	29	452		1,935	1,855	50	6,900	9
27	22,050					6,424		441	3,233	2,750	34,675	33,045	1,630	94,000	10
20	14,620					508		85	423		6,564	6,564		30,450	11
33	19,247					1,065	877	23	665		8,029	8,019	10	42,939	12
1	1,040					102		3	99		2,250	2,250		7,302	13
29	25,114			2	410	2,034	1,106	150	778		48,921	48,412	509	103,680	14
4	1,760	3	975			1,547	186	16	270	1,075	864	840	24	8,649	15
1,538	770,990	131	45,495			634,995	12,074	42,823	555,258	24,840	2,270,670	2,171,632	99,038	4,011,911	16

materials, 1; oil, not elsewhere specified, 1; patent medicines and compounds, 1; photography, 1; pickles, preserves, and sauces, 1; plastering and stucco work, 2; pottery, terra cotta, and fire-clay products, 1; printing and publishing, book and job, 1; roofing and roofing materials, 2; saddlery and harness, 1; soap and candles, 1; stamped ware, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; tobacco, cigars and cigarettes, 1; tools, not elsewhere specified, 1; varnish, 2; woodenware, not elsewhere specified, 1.

TABLE 8.—MANUFACTURES IN CITIES

## FALL RIVER.

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 .....	785	\$58,549,934	\$3,549,960	\$11,351,847	\$24,004,987	\$19,643,740	822	615	\$918,442	82,780	\$11,739,129
2 Awnings, tents, and sails .....	3	16,560			840	15,720	4			11	7,922
3 Bicycle and tricycle repairing .....	7	5,035	400	800	2,063	1,782	8			7	4,410
4 Blacksmithing and wheelwrighting .....	61	90,372	14,880	24,978	22,098	23,416	64	2	1,310	112	63,839
5 Boots and shoes, custom work and repairing .....	84	18,027		433	7,163	5,441	85			18	7,864
6 Bottling .....	13	95,574	28,455	85,425	12,877	19,317	15	4	3,040	42	23,223
7 Bread and other bakery products .....	63	126,726	16,497	23,420	48,092	83,717	68	37	18,592	194	97,172
8 Brooms and brushes .....	4	5,625	1,180	2,025	1,070	1,850	4			8	3,148
9 Carpentering .....	41	127,944	7,866	18,575	18,765	88,538	48	12	7,622	317	164,058
10 Carriages and wagons .....	5	60,730	13,965	12,309	3,732	30,733	7	2	1,350	33	19,400
11 Clothing, men's, custom work and repairing .....	37	42,086	3,200	2,300	8,272	23,814	41	9	6,407	143	69,710
12 Clothing, women's, dressmaking .....	45	14,425	1,250	2,450	4,621	6,104	47			86	27,577
13 Confectionery .....	8	15,465	600	1,620	6,215	6,970	8	17	3,552	19	5,435
14 Cordage and twine .....	3	22,935	1,000		7,000	14,365	2	1	780	25	6,788
15 Cotton goods .....	42	45,611,054	2,145,139	9,651,937	21,653,361	12,190,587	6	244	475,448	26,371	8,813,912
16 Cotton small wares .....	4	101,807	2,000	9,500	57,186	33,181	5	2	1,800	94	29,032
17 Dyeing and cleaning .....	5	5,187	1,000	1,000	1,910	1,277	6	1	416	7	3,211
18 Dyeing and finishing textiles .....	3	6,993,893	717,926	670,076	665,137	4,943,724	6	52	183,963	1,131	486,914
19 Electrical construction and repairs .....	4	18,170			1,465	16,711	6	2	792	23	12,746
20 Foundry and machine shop products .....	32	653,042	94,310	63,274	133,730	361,728	39	37	41,584	623	326,861
21 Furniture, cabinetmaking, repairing, and upholstering .....	5	14,910	620	2,325	2,620	9,345	8	1	312	13	5,820
22 Liquors, malt .....	4	919,300	90,500	371,769	257,356	199,681	1	31	39,203	61	55,707
23 Lock and gun smithing .....	3	923			275	648	4			1	750
24 Looking-glass and picture frames .....	3	3,482			600	2,882	3			3	1,485
25 Lumber, planing mill products, including sash, doors, and blinds .....	5	71,350	1,500	10,000	13,000	46,350	6	2	1,000	23	16,061
26 Marble and stone work .....	3	50,130	31,300	3,775	10,775	4,280	3	3	3,280	51	29,716
27 Masonry, brick and stone .....	19	292,467	61,710	14,110	41,280	85,367	25	6	3,701	533	221,735
28 Millinery, custom work .....	47	67,342	4,800	3,700	8,827	45,015	52	9	3,332	118	45,611
29 Mineral and soda waters .....	6	16,135	800	1,025	7,675	5,735	8			24	10,300
30 Monuments and tombstones .....	3	26,606	3,100	3,210	1,080	14,216	3	2	1,265	23	14,908
31 Painting, house, sign, etc .....	51	121,278	13,175	20,267	11,103	76,733	62	12	6,639	267	144,565
32 Paper goods, not elsewhere specified .....	3	20,000	1,300	5,500	7,600	5,600	2	3	3,000	17	6,914
33 Patent medicines and compounds .....	4	4,910			225	4,685	5			2	1,200
34 Photography .....	11	16,876			375	8,450	12	2	818	14	7,344
35 Plumbing, and gas and steam fitting .....	23	158,035	16,336	7,926	17,879	115,894	23	19	14,860	210	117,535
36 Printing and publishing, book and job .....	9	50,938			32,170	18,768	11	2	1,018	37	18,669
37 Printing and publishing, newspapers and periodicals .....	3	187,735	19,500	28,057	85,494	54,684	7	17	14,646	118	75,865
38 Saddlery and harness .....	14	12,973	1,000	1,050	3,058	7,865	14			15	6,927
39 Soap and candles .....	3	10,625	1,500	1,000	2,250	6,775	3			2	1,400
40 Tinsmithing, coppersmithing, and sheet-iron working .....	20	33,541	6,910	7,850	6,120	13,661	25	3	1,180	37	22,281
41 Tobacco, cigars and cigarettes .....	4	10,110	1,000	800	620	8,190	4	1	332	12	6,065
42 Watch, clock, and jewelry repairing .....	19	15,857		175	6,045	9,637	19			21	11,601
43 Wood, turned and carved .....	3	130,293	15,000	25,000	57,450	32,843	2	2	3,136	124	43,881
44 All other industries <sup>1</sup> .....	41	2,351,479	226,441	317,710	767,908	1,039,420	47	78	67,954	1,740	697,473

<sup>1</sup> Embraces belting and hose, leather, 1; bookbinding and blank book making, 1; boot and shoe findings, 1; boots and shoes, factory product, 1; boxes, wooden packing, 1; bridges, 1; coffee and spice, roasting and grinding, 1; combs, 1; cooperage, 2; cotton waste, 1; electroplating, 1; engraving, wood, 1; files, 1; flouring and grist mill products, 2; food preparations, 1; fur hats, 2; gas, illuminating and heating, 1; grease and tallow, 2; hairwork, 1; hat and cap materials, 1;

## FITCHBURG.

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.	Average number.	Wages.
1 All industries .....	308	\$13,033,898	\$1,181,833	\$1,683,684	\$2,822,108	\$7,346,278	336	322	\$376,075	6,796	\$3,113,073
2 Bicycle and tricycle repairing .....	4	3,985			1,175	2,810	3			3	1,450
3 Blacksmithing and wheelwrighting .....	21	32,530	7,650	5,850	6,675	12,375	21			27	18,631
4 Boots and shoes, custom work and repairing .....	20	5,635	500	550	1,330	2,755	19			5	2,006
5 Bread and other bakery products .....	10	22,527	5,200	4,000	4,150	9,177	11	12	5,326	29	15,570
6 Carpentering .....	14	44,899	4,050	7,350	6,875	26,624	17			126	85,503
7 Clothing, men's, custom work and repairing .....	11	18,438			2,155	11,278	12	1	300	50	26,370
8 Clothing, women's, dressmaking .....	25	9,341	1,050	850	3,205	4,736	26	2	681	51	16,973
9 Cotton goods .....	5	2,679,698	104,333	413,819	737,303	1,374,743	1	27	43,790	1,378	683,309
10 Foundry and machine shop products .....	26	1,352,346	346,450	216,900	428,985	360,011	23	52	55,563	383	469,106
11 Furniture, cabinetmaking, repairing, and upholstering .....	3	1,275			375	900	4			2	1,350
12 Hairwork .....	3	2,270			650	1,620	3			3	1,023
13 Lumber and timber products .....	3	37,257	10,200	15,200	18,150	43,707	3	2	900	33	19,615
14 Lumber, planing mill products, including sash, doors, and blinds .....	3	118,422	33,000	17,000	20,422	43,000	3	13	9,760	55	37,103
15 Marble and stone work .....	3	56,775	27,000	3,675	11,200	14,900	6			56	27,033
16 Masonry, brick and stone .....	4	12,600	500	800	3,100	3,200	5	2	962	61	27,571

BY SPECIFIED INDUSTRIES: 1900—Continued.

FALL RIVER.

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.										
17,686	\$7,227,218	13,374	\$4,195,926	1,720	\$315,985	\$3,240,083	\$138,477	\$641,207	\$2,201,832	\$268,067	\$19,789,859	\$18,934,478	\$855,381	\$43,071,530	1
9	7,242	2	680			1,012	700	17	295		12,242	12,140	102	28,712	2
7	4,410					1,604	888	59	767		4,613	4,613	220	13,725	3
112	63,839					11,833	6,802	609	2,207	2,215	55,929	52,990	2,939	201,848	4
18	7,864					7,528	6,927	95	506		27,002	26,041	421	85,277	5
42	23,228					5,960	1,425	802	8,633	100	57,400	56,203	1,197	103,167	6
168	89,831	22	7,115	4	726	21,973	11,940	869	9,164		313,057	300,846	12,211	555,267	7
6	2,468	2	680			111	40	32	39		6,401	6,291	110	14,627	8
817	161,058					177,935	3,346	582	4,828	169,179	867,956	837,189	767	846,596	9
33	19,400					1,702	534	192	976		13,283	12,935	348	51,103	10
62	88,937	81	30,773			15,863	11,551	275	2,137	1,400	88,716	88,013	703	226,392	11
3	1,800	83	20,277			4,266	3,655	100	511		27,390	27,049	341	98,979	12
16	5,038	3	397			6,670	4,012	54	2,604		27,170	26,400	770	57,322	13
17	5,178	2	471			1,475	660	137	878		29,972	29,242	730	43,996	14
12,587	4,726,351	12,162	3,790,409	1,622	298,152	2,004,027	2,108	557,191	1,420,843	23,885	13,022,130	12,356,121	666,009	29,097,667	15
46	16,407	38	9,817	11	2,808	5,178	1,037	891	3,750		114,480	112,236	2,244	188,859	16
4	2,815	3	896			1,101	664	35	402		2,147	1,545	602	12,825	17
932	430,301	163	49,993	36	6,650	428,762		37,201	875,047	16,514	1,094,877	994,353	100,524	2,995,979	18
23	12,746					2,717	1,134	27	1,556		25,042	24,962	80	48,465	19
546	303,036	68	20,484	9	1,371	42,374	7,525	6,694	27,455	700	365,366	349,951	15,415	932,873	20
18	6,320					1,913	940	88	860		10,817	10,630	187	25,075	21
61	55,707					200,941		5,348	195,593		186,662	178,374	8,288	566,054	22
1	750					408	288	12	68	40	665	647	18	5,500	23
3	1,435					899	720	31	145		3,804	3,767	37	8,072	24
23	16,064					3,232	1,507	640	1,085		42,899	41,384	1,015	80,311	25
51	29,716					1,802		718	1,084		5,849	5,271	578	54,713	26
583	221,795					59,599	1,485	858	3,973	48,283	309,814	307,627	2,187	683,362	27
24	10,800	117	43,470	1	104	17,520	14,005	866	3,149		150,945	150,469	476	284,170	28
23	13,998					2,963	1,980	102	886		16,068	15,550	518	41,050	29
265	144,210			2	365	15,032	7,641	834	6,557		9,329	9,239	90	36,920	30
7	5,094	2	624	8	1,196	1,482	650	116	716		21,038	20,393	645	37,861	32
2	1,200					857	444	20	393		12,595	12,595	20	22,200	33
11	6,220	3	1,124			9,116	6,562	129	2,425		9,726	9,518	208	44,001	34
209	117,363	4	1,898	1	172	14,539	7,278	949	5,708	604	300,658	298,120	2,538	514,990	35
81	16,487			2	284	5,110	2,771	193	1,136	1,010	22,815	21,917	898	66,584	36
106	69,187	12	6,178			13,445	4,840	2,132	6,273	200	39,172	35,958	3,214	199,225	37
15	6,927					2,249	1,729	74	443		17,520	17,421	99	38,011	38
2	1,400					632	552	30	100		2,728	2,616	112	6,116	39
37	22,281					4,805	2,888	229	588	1,100	46,806	46,003	803	99,548	40
12	6,065					3,157	412	54	2,691		10,932	10,837	95	23,796	41
21	11,694					4,549	3,940	75	505	20	8,831	8,641	190	39,133	42
121	48,344			8	540	9,005	1,000	1,295	6,710		71,739	70,690	1,049	168,082	43
1,118	490,327	607	204,720	16	2,428	133,148	11,731	21,866	97,259	2,742	2,717,491	2,691,926	25,565	4,022,247	44

mattresses and spring beds, 1; optical goods, 1; paving and paving materials, 2; perfumery and cosmetics, 1; pickles, preserves, and sauces, 2; pipes, tobacco, 1; plumbers' supplies, 1; roofing and roofing materials, 2; ship and boat building, wooden, 1; slaughtering and meat packing, wholesale, 2; taxidermy, 1; vinegar and cider, 1; wirework, including wire rope and cable, 1.

FITCHBURG.

4,794	\$2,512,222	1,757	\$551,428	245	\$49,428	\$749,165	\$74,801	\$98,813	\$552,060	\$28,491	\$3,002,713	\$7,790,315	\$271,898	\$14,253,522	1
3	1,450					970	855	15	100		2,552	2,441	111	7,655	2
27	18,531					3,540	2,767	343	486		20,579	19,533	1,015	66,763	3
5	2,006					2,264	2,187	19	58		6,568	6,339	229	20,415	4
20	15,870					4,027	2,817	342	368		60,226	57,961	2,265	103,343	5
126	36,503					22,334	797	236	1,327	19,474	185,662	185,535	127	346,784	6
25	13,135	25	8,735			4,415	3,270	102	1,043		22,331	22,456	376	72,604	7
1	1,007	50	15,966			4,203	3,830	53	775		16,337	15,366	521	58,408	8
915	378,371	800	275,205	163	34,732	117,399		23,593	93,476		1,344,131	1,274,532	69,599	2,449,936	9
331	463,789	1	246	1	71	97,103	14,862	15,313	61,304	5,129	477,002	453,205	23,796	1,323,003	10
2	1,350					194	156	13	25		10,732	10,739	13	18,095	11
33	19,515	3	1,023			1,031	916	25	140		1,313	1,299	14	5,800	12
55	37,408					1,522	522	522	1,000		63,662	63,662		113,775	13
56	27,033					4,139	1,500	1,239	1,450		144,539	142,940	1,599	223,049	14
61	27,571					903	224	432	247		12,213	11,733	485	53,870	15
						2,615	2,000	50	565		28,525	28,345	180	75,596	16

TABLE 8. —MANUFACTURES IN CITIES

FITCHBURG—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.
17 Millinery, custom work	11	\$45, 115	\$5, 100	\$10, 100	\$1, 280	\$22, 635	14	10	\$3, 635	47	\$11, 503
18 Mineral and soda waters	4	17, 157	2, 900	2, 500	9, 135	3, 222	7	2	673	6	3, 272
19 Models and patterns	3	2, 925			1, 650	1, 275	3			8	5, 578
20 Monuments and tombstones	3	26, 400	20, 000	2, 200	400	3, 800	3			4	2, 367
21 Painting, house, sign, etc	17	18, 869	1, 400	2, 100	3, 506	11, 863	19	1	325	42	24, 844
22 Paper and wood pulp	4	1, 632, 060	247, 600	371, 000	545, 600	467, 860	6	24	34, 436	639	801, 966
23 Photography	9	7, 085			4, 360	2, 725	9	1	280	3	1, 441
24 Plumbing, and gas and steam fitting	12	125, 871	7, 550	3, 600	11, 390	103, 331	20	13	5, 618	73	48, 816
25 Printing and publishing, book and job	6	13, 275	200	350	9, 650	3, 075	6			11	6, 770
26 Printing and publishing, newspapers and periodicals.	4	30, 810			13, 595	17, 215	4	6	2, 699	36	21, 216
27 Saddlery and harness	3	1, 775			275	1, 500	3			2	1, 200
28 Tobacco, cigars and cigarettes	4	12, 175	50	250	675	11, 200	5			13	6, 416
29 Watch, clock, and jewelry repairing	10	7, 375			3, 150	4, 425	11			1	822
30 Wood, turned and carved	8	17, 840			11, 550	6, 200	10	2	1, 000	30	12, 008
31 All other industries <sup>1</sup>	52	6, 131, 958	\$57, 700	600, 590	909, 642	4, 264, 021	59	152	210, 777	2, 619	1, 222, 188

<sup>1</sup> Embraces artificial limbs, 1; awnings, tents, and sails, 2; bookbinding and blank book making, 1; boot and shoe findings, 1; boots and shoes, factory product, 2; boxes, fancy and paper, 1; boxes, wooden packing, 1; brass and copper, rolled, 1; brass castings and brass finishing, 2; brick and tile, 1; carriages and wagons, 1; cars and general shop construction and repairs by steam railroad companies, 1; cheese and butter, urban dairy products, 1; china decorating, 1; combs, 1; confectionery, 2; cotton waste, 1; cutlery and edge tools, 1; electrical construction and repairs, 2; electroplating, 1; files, 1; firearms, 1; flavoring extracts, 1;

GLOUCESTER.

1 All industries	392	\$4, 687, 659	\$484, 532	\$585, 650	\$917, 112	\$2, 750, 265	469	235	\$199, 436	3, 379	\$1, 428, 890
2 Awnings, tents, and sails	10	57, 332			2, 225	55, 107	15	3	2, 500	55	37, 289
3 Bicycle and tricycle repairing	5	7, 675	800	250	3, 925	3, 200	8	2	900	12	6, 514
4 Blacksmithing and wheelwrighting	27	80, 740	8, 350	16, 140	13, 000	43, 250	28	1	100	43	25, 134
5 Boots and shoes, custom work and repairing.	18	5, 040	480	675	2, 575	1, 410	20			3	1, 523
6 Bread and other bakery products	5	35, 070	2, 500	6, 000	9, 820	16, 750	5	8	6, 128	44	20, 936
7 Carpentering	41	179, 840	15, 615	22, 600	20, 050	121, 575	49	4	2, 420	189	122, 087
8 Clothing, men's, custom work and repairing.	14	21, 440			2, 990	18, 450	14	7	5, 325	65	25, 480
9 Clothing, men's, factory product	13	25, 570		1, 250	2, 070	22, 250	18	2	656	47	14, 217
10 Clothing, women's, dressmaking	21	10, 090	1, 575	3, 900	1, 540	3, 075	21			32	7, 457
11 Confectionery	4	4, 550			2, 650	1, 900	6			6	3, 780
12 Fish, canning and preserving	38	1, 479, 647	178, 742	189, 950	238, 776	872, 170	60	85	63, 100	1, 154	898, 703
13 Foundry and machine shop products	8	279, 355	10, 800	23, 932	64, 034	174, 489	11	6	6, 316	95	57, 680
14 Furniture, cabinetmaking, repairing, and upholstering.	6	9, 950			1, 625	8, 325	6			7	4, 140
15 Glue	4	390, 768	11, 500	58, 425	59, 917	260, 926	2	22	23, 500	67	33, 082
16 Marble and stone work	19	185, 114	20, 655	15, 994	71, 696	76, 779	25	10	8, 179	361	146, 690
17 Masonry, brick and stone	22	54, 235	5, 240	2, 650	4, 595	41, 750	25			101	58, 934
18 Millinery, custom work	7	14, 075			2, 525	11, 550	8	4	1, 850	19	7, 160
19 Nets and seines	3	231, 233	5, 673	35, 000	60, 696	132, 369	3	7	8, 420	82	31, 497
20 Oil, not elsewhere specified	4	146, 647	15, 500	19, 000	33, 550	73, 597	6	5	5, 000	39	20, 443
21 Painting, house, sign, etc	26	87, 555	2, 675	4, 750	7, 830	72, 250	32	9	4, 849	108	53, 460
22 Photography	5	2, 335			1, 550	1, 285	5			2	892
23 Plumbing, and gas and steam fitting	7	88, 050	15, 300	13, 300	5, 050	55, 000	8	11	5, 508	71	39, 598
24 Printing and publishing, newspapers and periodicals.	3	113, 000	42, 000	28, 000	81, 000	12, 000	2	8	2, 335	49	22, 335
25 Saddlery and harness	3	15, 450			2, 350	13, 100	4			10	4, 334
26 Ship and boat building, wooden	24	145, 172	33, 477	15, 500	23, 320	67, 375	24	6	5, 860	102	62, 300
27 Tinsmithing, coppersmithing, and sheet-iron working.	5	23, 316	460	2, 000	3, 268	12, 600	6	3	2, 000	9	5, 220
28 Tobacco, cigars and cigarettes	5	6, 475			495	5, 980	6			6	2, 979
29 Watch, clock, and jewelry repairing	9	7, 860	500	2, 000	2, 330	3, 000	9			7	4, 340
30 Wood, turned and carved	3	3, 100		25	2, 525	5, 550	4			3	1, 554
31 All other industries <sup>1</sup>	33	967, 750	52, 260	123, 350	223, 997	563, 203	39	32	33, 986	591	208, 655

<sup>1</sup> Embraces boots and shoes, factory product, 1; boxes, wooden packing, 1; clothing, women's, factory product, 1; cooperage, 1; cordage and twine, 2; dyeing and cleaning, 1; electrical construction and repairs, 1; flouring and grist mill products, 1; food preparations, 1; galvanizing, 1; gas, illuminating and heating, 1; grease and tallow, 1; house furnishing goods, not elsewhere specified, 1; liquors, malt, 1; lock and gun smithing, 2; looking-glass and picture frames, 2; lumber,

HAVERHILL.

1 All industries	685	\$6, 801, 565	\$227, 775	\$439, 658	\$1, 613, 515	\$4, 465, 617	333	501	\$380, 014	10, 600	\$5, 035, 882
2 Bicycle and tricycle repairing	8	5, 100			2, 050	3, 050	11			10	5, 843
3 Blacksmithing and wheelwrighting	24	19, 075	1, 325	2, 600	6, 350	8, 800	27			33	22, 153
4 Boot and shoe cut stock	93	641, 927	9, 675	27, 225	65, 392	639, 135	125	43	30, 777	734	346, 778
5 Boot and shoe findings	22	262, 536			52, 250	210, 336	30	20	13, 960	163	67, 353
6 Boots and shoes, custom work and repairing.	25	6, 555			4, 425	2, 140	25			11	6, 330
7 Boots and shoes, factory product	151	3, 925, 717	81, 200	168, 175	633, 164	2, 398, 173	199	314	250, 263	7, 376	3, 462, 001
8 Boxes, fancy and paper	7	103, 315	5, 000	10, 000	29, 793	58, 522	11	4	2, 150	163	67, 734
9 Boxes, wooden packing	3	13, 700	800	1, 200	3, 750	3, 450	5	1	1, 000	46	19, 456
10 Bread and other bakery products	18	46, 912	500	3, 000	32, 525	10, 837	20	3	1, 000	66	34, 149
11 Brick and tile	4	29, 325	1, 400	2, 800	5, 500	20, 125	8	1	725	37	19, 476

BY SPECIFIED INDUSTRIES: 1900—Continued.

FITCHBURG—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.					MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.		
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.		Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1	\$230	46	\$11,258			\$7,033	\$5,833	\$228	\$972		\$35,899	\$35,501	\$308	\$78,552	17
6	3,272					1,037	624	89	324		4,936	4,713	223	19,280	18
3	5,573					230	190	19	21		910	750	160	8,785	19
4	2,307					824	396	413	10		6,720	6,695	25	11,630	20
42	24,844					2,022	1,182	103	437	\$300	16,558	16,393	165	60,315	21
470	264,815	169	40,151			177,446		19,222	158,224		1,317,776	1,206,671	111,105	2,255,833	22
1	624	2	820			2,849	1,835	52	469		5,951	5,754	200	17,513	23
78	48,816					16,520	3,200	312	12,508		146,176	145,124	1,052	257,778	24
10	6,215	1	555			1,254	872	131	251		5,333	5,442	451	19,338	25
25	15,103	11	6,113			5,135	2,570	276	2,119	170	10,593	9,929	664	54,843	26
2	1,200					401	348	27	26		3,393	3,344	49	8,405	27
11	5,966	1	250		\$200	3,051	1,008	70	1,855		6,459	6,374	85	20,180	28
1	822					1,325	1,170	31	124		2,027	1,971	56	10,530	29
25	11,053				5	1,977	1,430	144	353		14,332	13,682	710	41,756	30
1,306	1,017,658	648	191,055	75	18,475	261,816	18,271	20,594	210,533	3,418	4,088,020	4,031,805	56,215	6,441,053	31

flouring and grist mill products, 2; gas, illuminating and heating, 1; grease and tallow, 2; house furnishing goods, not elsewhere specified, 1; linen goods, 1; look and gun smithing, 1; looking-glass and picture frames, 2; mattresses and spring beds, 1; optical goods, 1; plastering and stuccowork, 1; roofing and roofing materials, 2; screws, wood, 1; shirts, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; tools, not elsewhere specified, 1; wirework, including wire rope and cable, 1; woolen goods, 2; worsted goods, 2.

GLOUCESTER.

2,750	\$1,270,017	629	\$157,970			\$349,839	\$59,075	\$37,175	\$235,604	\$17,925	\$1,362,600	\$4,801,723	\$60,937	\$7,343,783	1
53	36,029	2	1,260			4,216	2,550	156	1,610		43,341	47,995	346	112,323	2
12	6,512					1,901	920	115	761	115	5,091	4,782	309	19,350	3
48	25,134					4,309	2,211	506	1,592		23,253	21,523	1,730	87,435	4
3	1,520					1,716	1,394	23	299		3,001	7,873	123	20,872	5
87	19,350	7	1,586			12,913	740	288	11,885		76,668	75,128	1,535	181,535	6
189	122,037					18,710	1,279	896	8,345	8,190	185,646	185,234	362	377,419	7
17	11,092	43	14,383			7,007	3,973	126	1,453	2,050	27,924	27,475	449	83,685	8
18	7,477	29	6,770			6,092	3,003	201	1,363	1,515	84,325	83,810	1,015	74,212	9
6	5,730	32	7,457			2,317	2,032	110	175		2,736	2,301	435	21,547	10
						1,154	750	55	339		14,996	14,766	230	24,250	11
1,051	330,222	103	18,481			100,759	12,005	12,787	74,567	800	2,845,657	2,833,111	7,546	3,746,376	12
95	57,680					8,037	524	1,399	6,714		91,750	81,630	10,150	215,723	13
5	3,540	2	600			1,071	1,021	25	225	400	15,907	15,810	97	25,965	14
48	27,336	19	5,246			31,999	350	2,809	28,840		239,133	236,201	12,932	362,755	15
361	146,890					16,419	855	2,784	12,780		26,129	23,397	2,732	113,118	16
101	53,934					1,357	213	93	1,051		34,933	34,396	37	106,776	17
		19	7,160			4,330	3,233	142	955		28,075	23,045	30	54,800	18
17	11,276	65	19,921			19,031	400	1,610	17,671		109,130	107,509	1,671	190,000	19
88	19,643	1	700			7,005	300	940	5,765		149,902	144,377	5,525	203,600	20
108	53,460					5,344	3,408	226	1,610	100	65,933	65,733	245	163,457	21
1	523	1	364			1,340	1,175		115	50	2,192	2,125	67	7,218	22
70	39,196	1	312			5,213	2,450	393	1,370	500	34,524	33,065	550	161,465	23
35	15,975	14	6,410			3,993	346	900	2,752		14,173	13,195	973	51,700	24
10	4,334					1,314	310	57	447		7,907	7,737	120	21,245	25
102	62,300					12,160	3,312	1,180	3,533	4,105	74,531	72,204	2,327	201,438	26
9	5,220					1,103	550	113	535		3,033	7,435	543	21,337	27
5	2,679	1	300			2,503	947	57	1,499		6,003	5,957	51	14,536	28
7	4,340					2,305	1,643	137	475		2,721	2,601	120	15,522	29
3	1,552					703	423	50	230		4,203	3,843	365	11,531	30
306	141,531	235	67,024			65,965	5,643	3,934	51,233	100	624,153	615,905	3,253	1,091,423	31

and timber products, 1; lumber, planing mill products, including sash, doors, and blinds, 1; mineral and soda waters, 2; monuments and tombstones, 1; paints, 2; patent medicines and compounds, 2; paving and paving materials, 1; plastering and stuccowork, 1; printing and publishing, book and job, 2; soap and candles, 1.

HAVERTHILL.

7,270	\$3,909,154	3,274	\$1,114,133	56	\$12,595	\$1,336,232	\$196,125	\$41,962	\$369,620	\$723,525	\$15,623,972	\$15,497,631	\$131,341	\$24,937,073	1
9	5,468	1	375			1,030	1,239	56	835		5,156	4,637	519	19,900	2
33	22,153					4,436	4,031	30	325		15,323	14,561	1,262	66,301	3
608	295,858	172	50,370	4	550	49,933	27,423	4,770	17,745		2,766,937	2,742,325	14,152	3,495,433	4
128	56,130	35	11,225			39,350	7,332	1,001	5,136	20,237	591,923	591,473	3,450	611,615	5
11	6,330					3,221	2,755	16	150	300	11,379	11,049	330	33,335	6
4,342	2,580,164	2,493	371,277	41	10,560	1,031,796	73,332	17,915	253,510	676,439	9,344,323	9,293,130	51,143	15,231,410	7
55	22,242	103	35,494			7,793	4,655	341	2,297		133,570	133,509	3,061	246,125	8
45	19,036	1	350			2,499	1,000	121	1,373		55,921	53,741	2,180	83,347	9
51	23,342	13	5,472	2	335	7,443	6,454	261	731		87,249	83,033	4,216	130,037	10
37	19,475					976	400	210	365		12,074	924	11,150	44,375	11

TABLE 8.—MANUFACTURES IN CITIES

HAVERHILL—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 Carpentering.....	30	\$111,500	\$0,200	\$14,300	\$17,900	\$70,040	32	1	\$516	212	\$190,563
18 Carriages and wagons.....	3	19,000	4,650	3,750	2,000	8,000	4			14	8,000
14 Clothing, men's, custom work and repairing.....	19	31,835			6,110	25,725	25	2	1,750	74	32,344
15 Clothing, women's, dressmaking.....	48	17,000	1,100	5,500	5,700	5,640	50			81	25,174
16 Confectionery.....	3	3,075			1,225	1,850	4			4	2,150
17 Electrical construction and repairs.....	3	5,225			325	4,900	4	1	500	5	2,100
18 Flouring and grist mill products.....	4	34,550	400	11,500	7,400	15,250	4	3	1,150	6	2,900
19 Foundry and machine shop products.....	3	40,900	500	1,500	16,600	22,300	0	5	3,480	29	20,575
20 Furniture, cabinetmaking, repairing, and upholstering.....	10	21,130			4,050	17,080	10	2	1,900	13	8,620
21 Lasts.....	5	51,450			21,500	29,950	8	6	6,750	42	27,650
22 Looking-glass and picture frames.....	3	2,368			317	2,051	3			2	763
23 Lumber and timber products.....	3	151,355	33,100	20,500	31,575	52,180	3	7	3,850	73	80,913
24 Masonry, brick and stone.....	7	25,375	1,550	2,100	4,850	15,375	9			67	38,319
25 Millinery, custom work.....	20	26,250			3,250	23,000	22	2	1,200	44	11,073
26 Models and patterns.....	6	7,650			4,000	3,650	6	2	1,800	11	6,530
27 Mucilage and paste.....	3	7,075			2,675	4,400	3	1	500	6	2,635
28 Painting, house, sign, etc.....	20	19,635	400	400	4,335	14,600	35	2	1,150	92	50,132
29 Photography.....	7	6,950			5,650	1,300	8	1	1,100	9	3,650
30 Plastering and stuccowork.....	3	3,850	300	100	375	3,075	6			18	7,000
31 Plumbing, and gas and steam fitting.....	13	61,925			7,375	54,550	10	7	3,100	81	44,543
32 Printing and publishing, book and job.....	12	44,625	1,000	500	27,300	15,825	16	4	2,680	49	28,251
38 Printing and publishing, newspapers and periodicals.....	3	36,999			26,900	10,699	2	9	9,484	81	18,358
34 Saddlery and harness.....	6	7,640			1,190	6,450	7			9	5,335
35 Tinsmithing, coppersmithing, and sheet-iron working.....	4	7,000			1,800	5,700	6	1	300	9	6,730
36 Tobacco, cigars and cigarettes.....	3	2,435			310	2,125	3	1	800	6	4,500
37 Vinegar and cider.....	4	12,075	1,075	1,200	5,900	3,900	4	2	1,500	6	1,955
38 Watch, clock, and jewelry repairing.....	16	10,950			4,225	6,725	18			17	10,150
39 All other industries <sup>1</sup> .....	60	1,576,121	70,100	209,308	516,359	781,354	57	51	30,595	302	394,870

<sup>1</sup> Embraces awnings, tents, and sails, 2; blacking, 2; cheese, butter, and condensed milk, factory product, 1; cutlery and edge tools, 2; dyeing and cleaning, 1; engraving and diesinking, 1; food preparations, 2; fur goods, 1; fur hats, 1; gas, illuminating and heating, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 2; ironwork, architectural and ornamental, 1; leather, tanned, curried, and finished, 1; liquors, malt, 2; liquors, vinous, 1; lock and gun smithing, 2; lumber, planing mill products, including sash, doors, and blinds, 1; marble and stone work, 2; mineral and soda waters, 2; monuments and

HOLYOKE.

1 All industries.....	433	\$26,760,081	\$2,823,067	\$4,356,487	\$6,524,352	\$18,056,125	895	628	\$313,309	13,454	\$5,730,993
2 Bicycle and tricycle repairing.....	10	8,224			3,540	4,684	14			10	4,927
3 Blacksmithing and wheelwrighting.....	17	30,857	4,900	8,980	4,400	12,577	17	1	624	28	17,295
4 Bookbinding and blank book making.....	11	1,096,705	37,629	144,187	134,358	780,534	5	70	60,206	537	243,387
5 Boots and shoes, custom work and repairing.....	45	3,899		760	4,132	3,967	32			16	8,413
6 Bottling.....	13	13,495			6,560	6,935	10	2	1,600	19	10,061
7 Bread and other bakery products.....	20	47,523	4,200	13,800	9,070	20,958	20	4	1,228	50	29,161
8 Carpentering.....	19	177,139	10,120	24,550	8,250	134,249	26	6	4,175	151	77,411
9 Carriages and wagons.....	8	75,071	16,736	24,700	8,905	24,730	9	4	2,904	45	23,622
10 Clothing, men's, custom work and repairing.....	18	23,955		850	2,570	20,535	18	1	520	53	23,321
11 Clothing, women's, dressmaking.....	30	8,485	300	700	4,120	3,315	31			68	19,961
12 Cotton goods.....	4	5,631,400	372,300	995,978	2,095,264	2,167,858	4	59	71,039	3,227	1,134,623
13 Dyeing and cleaning.....	4	3,390	500	1,500	1,450	440	4			6	3,391
14 Foundry and machine shop products.....	13	1,692,863	143,030	365,555	360,637	823,541	15	53	68,268	946	545,761
15 Furniture, cabinetmaking, repairing, and upholstering.....	4	1,725		300	375	550	6			4	2,230
16 Lock and gun smithing.....	3	1,000	100	200	115	585	2			3	1,760
17 Lumber, planing mill products, including sash, doors, and blinds.....	3	269,007	62,000	27,200	36,653	143,154	1	17	13,773	99	60,900
18 Marble and stone work.....	4	37,195	12,000	1,500	6,150	17,545	5			35	19,154
19 Masonry, brick and stone.....	7	37,532	7,520	17,000	9,235	53,777	10	2	2,058	109	65,412
20 Millinery, custom work.....	13	39,925	4,500	2,500	4,665	28,260	19	4	1,600	58	16,303
21 Monuments and tombstones.....	3	13,700		1,000	600	17,100	4			6	4,410
22 Painting, house, sign, etc.....	21	91,593	15,033	19,325	6,367	50,368	25	10	5,354	117	54,464
23 Paper and wood pulp.....	19	10,033,333	1,750,016	1,816,011	2,273,277	4,244,554	1	169	271,333	3,399	1,397,193
24 Paper goods, not elsewhere specified.....	4	320,330	10,000	31,000	103,379	675,457	1	23	59,696	395	176,533
25 Photography.....	3	13,350		200	6,050	7,600	9			7	3,175
26 Plastering and stuccowork.....	4	1,925			175	1,750	4			24	20,333
27 Plumbing, and gas and steam fitting.....	15	130,177	5,500	5,300	13,123	151,254	16	15	10,660	137	68,015
28 Printing and publishing, book and job.....	12	133,344			30,326	59,018	10	29	27,642	153	62,716
29 Printing and publishing, newspapers and periodicals.....	6	90,925	13,000	12,000	46,165	14,775	5	8	7,510	30	67,966
30 Roofing and roofing materials.....	4	13,790		2,950	1,735	14,061	4	2	1,350	22	12,300
31 Saddlery and harness.....	6	12,975			1,375	11,600	6			8	4,640

BY SPECIFIED INDUSTRIES: 1900—Continued.

HAVERHILL—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.									
212	\$190,568					\$9,508	\$697	\$703	\$2,008	\$5,500	\$184,275	\$184,212	\$68	\$404,802
14	8,500					613		203	400	10	12,355	11,885	470	33,800
84	19,415	40	\$13,229			6,466	4,940	207	1,813		44,509	48,562	947	118,482
5	8,900	78	21,274			4,638	4,951	70	217		22,619	22,009	610	91,241
2	1,500	2	660			2,300	2,160	15	125		6,561	6,538	123	15,409
5	2,100					910	644	48	218		10,846	10,285	61	16,025
6	2,900					1,159	610	189	400		103,788	103,082	786	124,147
29	20,575					8,718	2,185	223	1,310		23,492	21,892	1,800	61,818
13	8,320					2,065	1,547	303	215		10,780	10,354	426	80,210
42	27,650					8,807	2,030	212	1,265		17,478	14,782	2,741	80,800
2	768					623	540	23	60		2,482	2,420	12	6,580
87	18,950	36	11,966			5,064	880	1,184	9,050		112,212	109,812	2,400	191,109
67	88,320	44	11,673			1,008	187	121	700		48,282	48,150	132	104,247
						8,366	7,510	172	681		88,781	88,405	876	87,876
11	6,580					1,097	1,032	14	51		2,135	2,081	104	20,500
2	1,235	4	1,400			1,106	666	20	420		7,005	6,647	858	19,500
92	60,132					8,738	2,820	111	807		40,817	40,570	247	133,208
5	2,300	4	1,850			1,958	1,652	46	260		3,358	3,710	147	17,075
18	7,000					161	125	6	30		4,430	4,430	6	17,800
81	44,543					6,009	5,408	451	1,050		115,425	114,577	848	201,715
48	24,151	6	2,100			3,644	2,410	264	970		14,457	13,474	988	71,550
24	16,808	6	3,298	1	\$50	5,873	1,679	232	1,912	2,000	12,008	11,888	1,020	74,380
9	5,835					2,030	1,745	99	195		7,627	7,495	129	23,225
9	5,760					1,220	720	75	225	200	6,741	6,620	121	20,000
0	4,500					1,828	265	19	1,544		3,708	3,678	30	11,060
5	1,955					493		125	363		3,276	2,995	281	10,720
16	9,900	1	250			4,829	3,135	109	595	490	8,978	8,650	823	29,460
662	321,406	232	72,870	8	1,100	107,958	11,766	11,447	61,491	23,249	1,740,207	1,715,818	24,394	2,607,481

tomstones, 2; optical goods, 1; paving and paving materials, 2; pickles, preserves, and sauces, 2; roofing and roofing materials, 1; sewing machine repairing, 2; shirts, 1; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; tools, not elsewhere specified, 1; wood, turned and carved, 2; wool hats, 1; woolen goods, 1; worsted goods, 2.

HOLYOKE.

7,705	\$4,025,971	5,150	\$1,585,232	599	\$119,795	\$1,976,024	\$117,682	\$238,212	\$1,352,301	\$267,829	\$13,673,959	\$13,017,607	\$656,862	\$26,283,964	1
9	4,667			1	260	1,745	1,378	56	811		5,771	5,697	74	20,564	
28	17,295					2,437	1,913	211	313		12,010	11,868	642	52,420	
292	153,783	264	80,783	81	8,821	95,511	4,613	5,962	84,936		703,762	697,646	6,116	1,251,948	
16	8,413					3,507	3,340	10	157		14,684	14,328	356	43,109	
19	10,064					3,726	2,340	172	1,214		84,971	84,559	412	60,092	
50	23,254	6	900			7,344	5,219	288	1,842		92,845	89,888	2,507	183,176	
151	77,414					181,576	813	957	4,936	124,870	295,834	295,604	230	684,174	
45	23,622					3,305	918	783	1,104	500	15,105	14,377	723	77,093	
35	22,973	18	5,348			5,972	4,989	170	729	75	86,192	85,801	891	96,057	
		87	19,811	1	150	2,944	2,514	15	415		9,495	9,117	878	52,741	
1,163	534,311	1,761	546,063	208	54,252	201,852	667	59,101	142,084		1,661,462	1,602,689	58,773	3,764,848	
3	1,066	3	1,427			620	480	35	105		1,216	1,025	191	11,800	
925	589,001	14	5,563	7	1,200	146,113	10,079	15,748	120,288		625,368	607,931	17,437	1,828,444	
4	2,250					370	292	18	60		6,810	5,768	42	11,900	
3	1,760					140	120	4	25		834	825	9	4,080	
99	60,900					17,850		1,669	16,181		208,424	207,399	1,025	339,431	
35	19,154					1,224	516	288	425		32,940	32,410	530	61,900	
109	65,442					16,816	100	588	1,123	15,000	165,257	165,147	110	297,099	
8	4,410	56	16,143	2	160	7,737	6,160	215	1,362		56,428	55,929	499	101,170	
						1,059	690	87	282		11,491	11,465	26	25,500	
117	54,464					5,793	3,593	690	1,505		53,913	53,590	323	146,918	
1,330	993,057	1,462	402,701	7	1,440	707,685		103,028	604,657		4,525,495	4,055,696	469,789	3,109,485	
211	126,150	170	47,918	14	2,790	87,282	7,530	3,632	76,120		878,753	878,753	7,025	1,284,417	
4	1,950	8	1,225			2,499	1,947	59	496	57	4,848	4,636	212	21,300	
24	20,853					810			810		17,900	17,850	50	46,200	
137	68,615					12,784	5,478	1,123	6,185		163,733	161,739	1,994	302,977	
116	50,361	33	7,850	15	4,005	81,553	6,025	561	24,757	210	80,087	78,328	1,759	237,643	
68	51,892	10	5,762	2	312	6,282	1,496	697	2,799	1,360	24,637	22,965	1,672	140,090	
22	12,800					1,333	322	73	933		15,307	15,258	49	40,057	
8	4,640					2,331	2,019	125	187		4,548	4,352	196	16,305	

STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

HOLYOKE—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.
82 Tobacco, cigars and cigarettes.....	10	\$84,967	\$2,775	\$2,825	\$815	\$28,552	11		41	\$24,890	
83 Watch, clock, and jewelry repairing.....	12	5,013			2,300	3,818	12		6	4,014	
84 Woolen goods.....	5	1,469,447	85,000	175,000	299,000	900,447	1	21	1,021	397,011	
85 All other industries <sup>1</sup> .....	48	4,527,092	200,853	600,626	927,581	2,678,082	42	114	2,513	1,129,808	

<sup>1</sup> Embraces awnings, tents, and sails, 1; belting and hose, leather, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 2; brassware, 1; brick and tile, 1; brooms and brushes, 2; cars and general shop construction and repairs by street railroad companies, 1; clothing, women's, factory product, 1; confectionery, 1; cutlery and edge tools, 1; dyeing and finishing textiles, 1; electrical construction and repairs, 2; electroplating, 1; envelopes, 1; flouring and grist mill products, 2; gas, illuminating and heating, 1; hand stamps, 1; house furnishing goods, not elsewhere specified, 1; ironwork, architectural and ornamental, 1; lead, bar, pipe,

LAWRENCE.

1	All industries.....	546	\$49,914,085	\$3,867,090	\$5,957,135	\$11,784,372	\$28,355,438	581	681	\$1,011,243	22,858	\$8,972,810
2	Bicycle and tricycle repairing.....	14	20,990	2,250	8,550	7,685	18,505	20			13	7,709
3	Blacksmithing and wheelwrighting.....	19	26,713	8,000	8,800	5,153	9,760	18			29	19,296
4	Boots and shoes, custom work and repairing.....	47	14,468	450	560	4,885	9,088	43			29	13,769
5	Boots and shoes, factory product.....	8	199,918	100	200	17,545	182,071	5	9	10,850	287	187,530
6	Bottling.....	5	209,130	30,430	77,800	21,450	79,450	7	12	2,900	28	16,775
7	Bread and other bakery products.....	25	52,509	7,811	18,900	12,715	18,083	25	9	2,972	74	85,933
8	Brooms and brushes.....	5	9,448		1,400	1,550	6,438	7			13	7,212
9	Carpentering.....	87	194,168	12,297	22,431	31,465	127,985	50	1	858	413	217,476
10	Carriages and wagons.....	10	141,777	28,550	24,550	36,497	52,180	16	3	1,828	76	99,020
11	Clothing, men's, custom work and repairing.....	31	65,800			6,050	60,750	38	1	1,000	105	68,414
12	Clothing, women's, dressmaking.....	44	22,610	900	2,800	4,990	18,920	45			98	30,127
13	Confectionery.....	11	33,748	700	700	17,850	14,938	13	1	800	48	21,765
14	Cotton goods.....	7	12,218,152	1,259,400	1,877,198	3,822,224	5,259,420	1	78	166,122	6,007	2,836,201
15	Dyeing and cleaning.....	8	11,250		2,000	5,500	3,750	4	1	800	19	6,748
16	Dyeing and finishing textiles.....	3	824,650	49,088	79,402	101,697	98,898	1	11	19,475	199	71,019
17	Flouring and grist mill products.....	8	219,800	21,000	21,500	21,500	155,800	6	11	9,808	36	23,150
18	Foundry and machine shop products.....	26	1,647,708	114,857	289,613	853,552	890,186	26	65	66,278	322	429,549
19	Furniture, cabinetmaking, repairing, and upholstering.....	6	8,100			1,000	2,040	6			10	5,317
20	Kindling wood.....	3	4,700	2,000	500	700	1,500	4			4	1,900
21	Lock and gun smithing.....	6	7,700	700	800	2,500	8,700	7			2	1,400
22	Lumber, planing mill products, including sash, doors, and blinds.....	3	250,465	89,000	70,056	27,071	119,488	1	18	12,439	128	72,982
23	Masonry, brick and stone.....	14	120,832	12,732	6,740	20,850	80,560	16	4	2,200	224	127,333
24	Millinery, custom work.....	27	60,837	2,000	1,500	1,812	55,525	29	3	1,500	77	27,621
25	Monuments and tombstones.....	4	17,870	7,300	2,450	2,870	6,250	6	1	800	10	12,996
26	Painting, house, sign, etc.....	32	46,075	2,800	2,750	9,575	29,850	39	2	600	118	63,186
27	Paper and wood pulp.....	5	1,849,729	138,889	426,251	870,014	418,675		26	52,914	441	190,473
28	Paving and paving materials.....	3	9,200	2,100	300	2,800	4,500	5			13	7,831
29	Photography.....	10	14,875			10,400	4,475	11			14	7,319
30	Plastering and stucco work.....	5	5,550	700	400	975	9,475	6			14	7,830
31	Plumbing, and gas and steam fitting.....	17	102,400	17,030	5,800	13,970	65,060	20	7	3,730	120	71,832
32	Printing and publishing, book and job.....	6	20,470	1,000	700	15,900	2,870	8	1	760	14	5,625
33	Printing and publishing, newspapers and periodicals.....	10	126,950	9,000	4,200	92,800	21,450	18	7	6,650	124	67,962
34	Saddlery and harness.....	10	12,460	720	800	1,715	9,725	10			6	8,720
35	Smithing, copper smithing, and sheet-iron working.....	4	68,085	13,500	18,700	10,585	30,300	4	6	7,200	44	20,635
36	Tobacco, cigars and cigarettes.....	8	7,598		280	690	6,628	6			12	5,868
37	Watch, clock, and jewelry repairing.....	19	29,780	750	700	4,255	24,075	18			18	11,870
38	Wood, turned and carved.....	6	280,045	85,000	48,775	95,458	59,812	4	7	5,972	807	31,265
39	Woolen goods.....	3	446,621	33,300	106,535	121,505	185,281	2	15	25,417	457	193,075
40	Worsted goods.....	9	29,408,280	1,750,023	2,499,567	6,726,034	19,432,656	4	310	512,975	10,998	4,022,349
41	All other industries <sup>1</sup> .....	48	2,097,466	217,013	348,527	729,635	807,291	42	77	106,295	912	381,169

<sup>1</sup> Embraces awnings, tents, and sails, 1; belting and hose, leather, 2; billiard tables and materials, 1; bookbinding and blank book making, 1; boot and shoe cut stock, 1; boxes, wooden packing, 2; brass castings and brass finishing, 2; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 1; coffee and spice, roasting and grinding, 1; cotton small wares, 1; dye stuffs and extracts, 1; electrical construction and repairs, 1; electroplating, 1; engraving and diesinking, 1; files, 1; food preparations, 1; gas, illuminating and heating, 1; hosiery and knit goods, 1; jute and jute goods, 1;

LOWELL.

1	All industries.....	981	\$46,578,198	\$3,602,780	\$6,706,237	\$8,310,868	\$27,958,258	1,049	820	\$992,781	31,877	\$11,821,633
2	Bicycle and tricycle repairing.....	18	14,095		900	6,225	6,970	20	2	550	26	19,114
3	Blacksmithing and wheelwrighting.....	43	47,736	6,160	6,150	9,385	26,151	45	1	520	69	34,507
4	Boots and shoes, custom work and repairing.....	79	6,088	2,100	1,350	7,320	5,918	76			48	20,044
5	Boots and shoes, factory product.....	4	878,381	234	1,500	81,541	840,106	5	14	15,670	505	193,533
6	Boxes, wooden packing.....	7	443,488	162,023	98,267	71,353	121,845	10	18	9,876	261	104,061
7	Bread and other bakery products.....	57	140,669	19,700	38,500	40,522	41,947	71	34	12,163	199	98,023
8	Brooms and brushes.....	3	4,250			1,400	2,850	3			4	1,455
9	Carpentering.....	66	200,577	14,010	19,050	33,885	133,632	73	10	7,064	363	210,022
10	Carriages and wagons.....	9	88,249	26,000	12,550	7,011	42,688	12	4	1,650	74	44,723
11	Clothing, men's, custom work and repairing.....	38	48,555	1,220	980	3,335	42,560	39	18	5,113	129	59,183

BY SPECIFIED INDUSTRIES: 1900—Continued.

HOLYOKE—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.									
35	\$22,557	5	\$2,073	1	\$260	\$9,005	\$970	\$151	\$7,884	-----	\$28,516	\$28,361	\$155	
6	4,044	-----	-----	-----	-----	1,090	1,000	96	96	-----	2,723	2,690	33	14,480
661	286,854	807	100,549	50	9,608	105,674	11,266	9,278	85,130	-----	770,692	749,515	21,177	1,424,897
1,372	747,155	971	341,116	170	41,537	350,040	28,952	32,414	162,907	\$125,767	3,106,453	3,044,951	61,502	5,450,404

and sheet, 1; lithographing and engraving, 1; looking-glass and picture frames, 2; lumber and timber products, 2; mineral and soda waters, 1; models and patterns, 1; mucklage and paste, 1; musical instruments and materials, not specified, 1; patent medicines and compounds, 1; paving and paving materials, 1; rubber and elastic goods, 1; screws, wood, 1; shoddy, 1; silk and silk goods, 2; tinsmithing, coppersmithing, and sheet-iron working, 2; trunks and valises, 1; vinegar and cider, 1; wire, 1; worsted goods, 1.

LAWRENCE.

12,908	\$5,929,767	8,512	\$2,856,361	818	\$186,182	\$2,210,146	\$107,659	\$251,432	\$1,524,398	\$326,656	\$26,175,644	\$25,693,234	\$582,410	\$44,703,278	1
13	7,709	-----	-----	-----	-----	8,359	1,694	234	781	650	14,054	13,106	948	35,365	2
28	18,996	-----	-----	1	800	2,799	2,232	220	847	-----	10,587	9,545	1,042	43,322	3
29	13,769	-----	-----	-----	-----	5,993	5,183	190	665	-----	14,650	13,949	701	53,254	4
212	109,205	75	28,325	-----	-----	9,628	2,506	876	6,746	-----	559,426	558,115	1,811	766,443	5
28	16,775	-----	-----	-----	-----	29,535	1,560	1,560	27,975	-----	183,486	178,310	5,176	267,362	6
57	30,815	15	4,768	2	855	8,349	4,282	475	8,592	-----	116,967	112,081	4,886	201,087	7
13	7,212	-----	-----	-----	-----	1,492	927	85	480	-----	18,862	18,476	386	35,085	8
413	217,476	-----	-----	-----	-----	126,529	940	1,014	11,110	113,465	440,196	437,834	2,362	833,345	9
76	39,020	-----	-----	-----	-----	4,431	926	465	2,690	850	54,164	52,215	1,949	123,501	10
70	45,248	35	13,166	-----	-----	11,384	8,610	289	2,485	-----	56,734	55,727	1,007	171,894	11
1	1,060	97	29,067	-----	-----	5,612	4,385	102	1,125	-----	27,545	26,697	848	92,931	12
28	16,700	14	4,965	1	100	8,653	6,442	226	1,985	-----	59,403	58,012	1,391	120,534	13
2,921	1,251,232	2,899	1,042,076	187	42,843	596,148	202	94,257	887,107	114,582	4,227,357	4,116,651	111,706	8,146,594	14
7	4,288	6	2,460	-----	-----	1,907	1,452	33	422	-----	1,614	799	815	14,500	15
153	57,168	46	18,861	-----	-----	8,999	8,879	12	5,120	-----	122,593	98,002	24,591	280,017	16
36	28,160	-----	-----	-----	-----	19,388	1,200	1,938	16,250	-----	1,304,945	1,300,145	4,800	1,608,224	17
757	407,698	64	21,684	1	187	70,203	8,100	9,462	52,091	550	566,377	549,712	25,665	1,333,833	18
10	5,817	-----	-----	-----	-----	1,259	943	15	801	-----	6,694	6,617	77	10,450	19
4	1,900	-----	-----	-----	-----	360	264	61	35	-----	4,097	4,097	188	9,715	20
2	1,400	-----	-----	-----	-----	683	491	64	133	-----	2,380	2,201	129	7,050	21
128	72,932	-----	-----	-----	-----	18,487	64	1,239	10,384	800	124,314	124,164	650	248,700	22
224	127,338	-----	-----	-----	-----	54,449	790	601	4,199	48,859	195,859	194,694	1,165	423,823	23
1	300	76	27,321	-----	-----	16,658	18,898	524	2,741	-----	52,234	51,321	913	129,838	24
16	12,996	-----	-----	-----	-----	1,097	540	148	409	-----	11,555	11,025	530	32,850	25
116	62,521	1	225	1	300	6,417	3,088	259	2,920	200	36,582	36,161	421	133,892	26
372	182,714	69	16,759	-----	-----	70,394	62	9,300	61,032	-----	624,188	539,856	93,332	1,070,415	27
18	7,851	-----	-----	-----	-----	2,544	60	62	2,422	-----	10,723	10,548	175	28,965	28
10	5,410	4	1,900	-----	-----	4,607	3,516	136	955	-----	9,045	8,670	375	30,663	29
14	7,880	-----	-----	-----	-----	512	210	26	276	-----	9,198	9,158	40	22,913	30
119	71,552	1	300	-----	-----	8,193	3,890	776	3,528	-----	111,764	110,817	937	245,468	31
12	5,100	1	375	1	150	1,673	1,128	80	467	-----	8,719	8,566	153	22,199	32
111	62,456	8	4,634	5	972	10,806	8,560	775	6,471	-----	38,902	35,356	3,636	103,775	33
6	3,720	-----	-----	-----	-----	2,016	1,500	93	223	200	6,533	6,341	192	19,450	34
43	20,388	1	250	-----	-----	1,591	420	575	596	-----	54,382	53,085	1,297	98,584	35
10	5,548	1	200	1	120	3,366	961	66	2,339	-----	9,463	9,363	100	24,337	36
17	11,470	1	400	-----	-----	8,588	6,059	218	2,311	-----	13,099	12,571	528	54,512	37
307	81,267	-----	-----	-----	-----	6,023	1,507	827	4,294	-----	160,289	143,320	1,919	269,962	38
254	119,747	182	68,942	21	4,389	70,798	492	5,203	48,333	16,270	593,301	584,430	8,871	906,606	39
5,483	2,318,103	4,925	1,569,070	590	135,176	852,131	5,652	96,123	719,621	30,730	15,334,109	15,088,940	250,229	24,678,138	40
834	474,251	21	5,718	7	1,200	152,474	10,085	19,452	122,937	-----	988,576	961,357	27,219	1,920,632	41

leather goods, 2; liquors, malt, 1; marble and stone work, 1; mineral and soda waters, 2; models and patterns, 1; musical instruments, pianos and materials, 1; paper hanging, 1; patent medicines and compounds, 1; roofing and roofing materials, 2; sausage, 2; sewing machines and attachments, 1; ship and boat building, wooden, 1; soap and candles, 2; wool scouring, 2.

LOWELL.

17,032	\$7,862,328	12,986	\$3,710,401	1,309	\$248,904	\$4,639,877	\$234,276	\$418,044	\$3,814,451	\$178,106	\$21,727,844	\$21,132,505	\$595,339	\$44,774,525	1
26	13,114	-----	-----	-----	-----	4,153	3,088	96	969	-----	12,733	12,265	468	39,477	2
56	84,059	-----	-----	3	443	7,549	5,338	231	1,980	-----	35,893	33,780	2,113	127,174	3
46	19,904	2	140	-----	-----	7,703	6,698	101	909	-----	32,237	31,752	585	101,003	4
300	133,343	154	52,276	51	7,914	36,340	5,402	798	30,140	-----	674,657	672,137	2,520	957,095	5
260	103,731	-----	-----	-----	280	29,525	1,912	4,371	22,742	-----	343,458	343,253	200	517,685	6
164	88,258	32	10,172	8	493	84,001	17,093	1,957	14,951	-----	324,573	314,461	10,112	588,676	7
2	832	2	624	-----	-----	422	336	12	74	-----	5,351	5,291	60	10,760	8
868	210,032	-----	-----	-----	-----	131,706	4,941	770	13,665	112,330	371,113	370,203	910	846,033	9
74	44,720	-----	-----	-----	-----	10,673	3,809	386	5,378	-----	39,088	37,403	1,685	119,115	0
69	39,038	60	20,100	-----	-----	15,596	10,039	368	4,903	236	68,634	68,280	404	136,540	1

TABLE 8.—MANUFACTURES IN CITIES

LOWELL.—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 Clothing, women's, dressmaking	155	\$41,055	\$2,460	\$2,420	\$14,776	\$21,899	156	3	\$1,640	328	\$98,639
13 Confectionery	10	8,220	600	400	2,495	4,725	10	5	805	9	4,104
14 Cotton goods	8	21,354,927	1,301,438	8,795,104	3,826,095	12,432,290	2	115	248,230	18,780	4,784,706
15 Dyeing and cleaning	7	5,525	800	700	3,150	875	7	1	800	12	4,971
16 Electrical construction and repairs	6	30,933			1,870	29,068	9	7	2,683	25	11,413
17 Flouring and grist mill products	3	12,000	2,000	2,000	4,600	3,400	8	1	312	2	1,467
18 Food preparations	3	6,650	2,000	2,500	1,050	1,100	8	1	1,000	7	1,238
19 Foundry and machine shop products	47	6,144,397	413,649	588,085	582,180	4,611,077	62	93	158,494	2,938	1,477,419
20 Furniture, cabinetmaking, repairing, and upholstering.	14	26,326	1,700	1,300	8,105	20,221	20	1	800	30	15,539
21 Furniture, factory product	8	29,900			5,400	24,500	8	1	468	45	16,800
22 Hand stamps	4	2,526			1,710	816	4	1	150	8	1,705
23 Hosiery and knit goods	8	3,135,937	271,705	460,209	561,773	1,842,800	1	57	73,949	4,105	1,276,372
24 Leather, tanned, curried, and finished	8	1,437,948	12,500	150,076	285,296	1,040,076	4	9	22,475	543	264,071
25 Lock and gun smithing	6	2,525			1,025	1,500	6	6		8	1,118
26 Looking-glass and picture frames	7	10,775	800	700	850	8,425	8	2	450	27	12,554
27 Lumber, planing mill products, including sash, doors, and blinds.	4	145,633	14,000	8,000	18,729	109,954	6	2	1,248	87	48,432
28 Marble and stone work	8	21,348	2,000	5,080	4,865	9,453	4	1	100	6	3,133
29 Masonry, brick and stone	26	97,901	4,578	8,900	86,295	48,130	30	3	2,568	362	139,942
30 Millinery, custom work	37	81,834	1,700	3,700	3,300	78,134	41	41	13,315	145	62,533
31 Mineral and soda waters	4	100,254	4,250	13,500	22,348	60,156	2	6	8,370	51	24,755
32 Monuments and tombstones	9	23,555	1,425	2,175	4,105	15,730	14	1	400	39	21,577
33 Painting, house, sign, etc.	47	41,631	3,925	785	5,825	31,096	56	5	2,216	147	74,638
34 Paper hanging	6	25,633			3,813	16,825	7	5	2,656	43	20,512
35 Patent medicines and compounds	10	824,412	103,300	124,300	132,108	464,704	10	116	119,632	391	140,921
36 Photography	14	22,725	1,000	4,000	8,700	9,025	14	4	1,664	21	8,725
37 Plastering and stuccowork	7	7,220		10	2,540	4,670	9	1	800	28	20,791
38 Plumbing, and gas and steam fitting	34	177,196	13,348	27,390	10,195	125,763	40	26	18,185	157	90,535
39 Printing and publishing, book and job.	16	64,932			43,034	21,848	21	8	2,811	53	28,532
40 Printing and publishing, newspapers and periodicals.	6	166,005			110,066	55,939	5	39	84,846	152	91,005
41 Roofing and roofing materials	9	19,815	2,200	2,900	3,130	11,525	10	1	800	25	12,976
42 Rubber and elastic goods	8	136,215	14,500	25,286	46,963	49,466	2	7	7,467	103	23,433
43 Saddlery and harness	13	24,295	7,550	3,900	4,200	8,645	12	4	1,710	21	11,396
44 Smithing, copper-smithing, and sheet-iron working.	12	36,100	500	1,500	10,294	23,806	14	9	3,455	40	22,030
45 Tobacco, cigars and cigarettes	4	113,900	56,000	13,500	800	43,600	4	3	2,469	27	13,660
46 Watch, clock, and jewelry repairing	24	10,785			4,855	5,900	21			19	11,993
47 Wirework, including wire rope and cable.	4	40,100	8,000	4,000	8,400	19,700	2	5	4,896	67	27,100
48 Wood, turned and carved	4	158,163	12,000	31,632	64,783	49,748	3	3	2,530	259	69,764
49 Woolen goods	5	3,892,280	487,000	237,278	401,009	2,267,002	37	37	63,262	1,673	566,039
50 Worsted goods	3	781,614	800	3,500	112,335	665,009	4	14	18,459	923	315,709
51 All other industries	69	6,436,605	633,267	1,002,200	1,840,237	2,960,901	77	86	121,110	3,038	1,224,803

<sup>1</sup> Embraces ammunition, 1; artificial limbs, 1; awnings, tents, and sails, 2; belting and hose, leather, 2; bookbinding and blank book making, 2; boot and shoe cut stock, 1; boot and shoe findings, 2; bottling, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 1; carpets and rugs, other than rag, 1; cleansing and polishing preparations, 1; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; corsets, 1; cotton small wares, 1; cutlery and edge tools, 1; electrical apparatus and supplies, 2; electroplating, 1; engraving and diesinking, 1; engraving, wood, 1; files, 1; flavoring extracts, 2; gas, illuminating and heating, 1; glue, 1; hats and caps, not including fur hats and wool hats, 1; iron and steel, bolts, nuts, washers,

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1 All industries	776	\$17,011,761	\$484,726	\$1,276,559	\$3,279,871	\$11,970,605	959	1,231	\$980,868	17,492	\$3,576,042
2 Bicycle and tricycle repairing	14	9,815	200	150	4,975	4,450	15			11	5,337
3 Blacking	12	52,011	500	500	7,126	43,885	13	17	10,155	16	10,633
4 Blacksmithing and wheelwrighting	32	48,560	4,250	10,850	13,635	19,825	32	1	600	55	32,659
5 Boot and shoe cut stock	60	2,566,045	45,900	109,600	189,679	2,270,866	87	64	58,406	1,049	438,403
6 Boot and shoe findings	24	251,995	8,200	2,900	52,535	187,760	37	29	21,825	359	126,905
7 Boots and shoes, custom work and repairing.	51	16,604	1,200	1,150	8,022	6,232	51			22	8,640
8 Boots and shoes, factory product	123	5,570,928	20,750	93,000	1,277,788	4,179,334	185	504	403,238	3,652	4,203,719
9 Boxes, fancy and paper	7	233,153	21,100	31,338	64,643	116,021	6	19	15,752	202	118,563
10 Bread and other bakery products	23	82,035	15,200	19,400	28,855	18,640	29	14	6,100	103	64,394
11 Brick and tile	3	62,850	15,500	4,800	2,400	40,150	3			17	9,743
12 Carpentering	35	276,113	33,150	44,000	61,400	137,555	42	5	2,870	232	154,043
13 Carriages and wagons	8	100,738	11,600	26,500	24,100	38,538	11	2	5,600	72	48,274
14 Clothing, men's, custom work and repairing.	36	85,015			10,288	74,727	40	5	2,900	165	76,734
15 Clothing, men's, factory product	8	12,055		2,100	2,330	7,575	4	3	1,220	14	4,840
16 Clothing, women's, dressmaking	11	3,160			1,035	2,125	11			27	8,565
17 Confectionery	8	33,345	1,700	5,500	7,729	18,415	9	4	1,920	89	17,513
18 Cutlery and edge tools	6	18,200	3,500	1,700	6,550	6,450	7	2	1,040	20	12,366
19 Electrical apparatus and supplies	3	2,908,116	42,500	526,000	392,524	1,946,932	2	313	235,980	3,165	1,721,442
20 Electrical construction and repairs	4	18,013	500	300	2,204	15,009	7			25	15,100
21 Foundry and machine shop products	23	561,820	22,500	27,600	198,256	313,465	36	35	32,236	441	248,506

BY SPECIFIED INDUSTRIES: 1900—Continued.

LOWELL—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1	\$472	827	\$98,167			\$20,321	\$16,774	\$146	\$3,402		\$96,023	\$95,061	\$902	\$810,097	12
6	3,285	3	819			5,234	4,024	66	1,144		20,053	19,637	416	40,329	13
6,293	2,700,165	6,703	1,936,934	644	\$188,607	1,397,294	2,692	207,265	1,183,180	\$4,157	8,774,009	8,505,575	268,434	17,088,576	14
7	3,078	5	1,893			3,063	1,233	123	702	200	2,443	1,732	711	16,186	15
25	11,418					2,871	1,600	53	1,218		17,974	17,410	564	50,405	16
2	1,467					1,133	550	107	476		55,766	54,960	806	62,790	17
1	400	1	200	5	688	655	280	65	310		4,491	4,340	151	9,099	18
2,921	1,478,461	12	2,946	5	1,012	400,289	11,885	42,393	299,367	46,044	1,601,056	1,550,160	50,896	4,258,047	19
27	14,664	8	925			3,791	2,279	120	1,383		34,351	34,107	244	67,937	20
44	16,450	1	850			3,739	2,452	117	1,170		19,209	18,689	520	52,800	21
2	1,555	1	150			678	576	2	100		919	851	68	7,404	22
1,068	475,006	2,800	753,387	297	47,979	218,062	290	33,445	184,827		1,163,237	1,117,761	35,486	3,148,110	23
543	264,671					17,885	1,500	3,729	12,056		1,173,366	1,141,439	31,927	1,780,058	24
3	1,118					940	630	11	299		1,551	1,486	115	6,460	25
27	12,554					3,804	2,160	126	1,218	300	13,237	13,182	55	40,255	26
87	48,432					10,249	3,122	1,299	5,828		123,942	121,542	2,400	210,499	27
6	3,133					963	176	146	641		1,172	1,114	58	7,637	28
362	139,942					20,269	1,229	599	15,441	3,000	175,768	174,357	1,411	417,076	29
45	19,639	5	62,442	1	141	81,777	22,023	969	8,785		137,023	136,819	209	280,107	30
			4,921	1	195	16,357	1,038	450	14,869		35,494	34,784	710	94,873	31
89	21,577					2,269	287	472	1,510		3,308	3,190	118	49,595	32
147	74,638					10,530	5,561	225	4,803		47,790	47,535	255	178,210	33
43	20,512					4,335	2,914	210	1,211		34,862	34,788	74	76,941	34
197	83,961	192	61,418	2	542	1,075,238	1,661	7,469	1,066,105		404,737	401,170	567	1,784,338	35
13	5,917	8	2,808			8,338	5,213	224	2,251	700	10,371	10,242	129	41,071	36
28	20,791					1,777	625	11	1,141		17,416	17,404	12	48,343	37
167	90,635					23,959	8,303	1,826	13,330		199,193	197,808	1,380	326,007	38
49	27,537	1	605	3	450	7,873	4,505	344	2,919	15	29,435	27,280	2,155	85,790	39
186	83,405	13	10,210	3	390	29,682	6,638	1,462	21,632		80,797	77,840	2,957	209,641	40
24	12,880			1	96	3,042	551	86	2,405		47,567	47,442	125	74,049	41
86	12,118	67	11,815			6,389	60	979	5,350		91,946	88,406	3,540	152,329	42
21	11,896					2,384	1,464	192	728		27,639	27,415	224	51,410	43
39	22,430			1	200	6,034	2,753	332	2,644	305	31,042	30,499	543	82,231	44
21	12,334	5	1,166	1	160	5,082	220	208	4,654		16,257	16,147	110	40,785	45
19	11,993					6,492	5,433	122	787	100	5,028	4,835	193	37,078	46
58	25,408	1	864	8	1,894	3,419	1,364	445	1,610		30,170	28,703	1,467	80,283	47
250	68,424			9	1,340	6,507	744	858	4,905		73,821	71,730	2,091	169,240	48
934	377,499	607	133,334	32	5,226	184,564	6,400	30,824	147,340		1,999,662	1,955,489	44,173	3,275,613	49
858	150,766	495	146,335	70	12,108	83,981	16,261	3,251	61,050	3,419	803,184	770,658	32,526	1,413,652	50
1,678	829,667	1,252	365,900	163	29,241	730,826	26,602	62,175	635,949	6,100	2,419,088	2,335,148	84,540	5,082,006	51

and rivets, 1; ironwork, architectural and ornamental, 1; leather goods, 2; liquors, malt, 1; lumber and timber products, 1; mattresses and spring beds, 1; models and patterns, 1; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 1; needles and pins, 1; paper goods, not elsewhere specified, 2; paving and paving materials, 2; perfumery and cosmetics, 1; pickles, preserves, and sauces, 2; sausage, 1; scales and balances, 2; screws, machine, 2; sewing machine repairing, 1; shirts, 1; soap and candles, 1; sporting goods, 1; stationery goods, not elsewhere specified, 1; stencils and brands, 2; stereotyping and electrotyping, 1; taxidermy, 1; trunks and valises, 1; vinegar and cider, 1; windmills, 1.

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12,352	\$0,048,745	5,035	\$1,000,722	105	\$20,575	\$2,270,595	\$320,791	\$75,271	\$1,618,882	\$256,161	\$25,456,798	\$25,240,543	\$216,250	\$41,633,345	1
11	5,337					1,938	1,549	51	288		11,806	11,515	291	25,430	2
16	10,633					16,371	5,930	143	10,798		65,611	65,191	420	172,054	3
51	32,400			1	250	4,325	3,234	366	676		33,894	32,072	1,822	110,230	4
857	334,347	191	53,801	1	260	134,303	35,468	10,433	86,567	2,300	6,225,491	6,212,302	12,689	7,335,106	5
237	98,743	120	27,757	2	400	22,157	10,655	942	10,650		527,868	525,133	2,735	795,797	6
20	7,340	2	300			6,535	5,494	32	759	250	20,264	19,305	459	61,706	7
5,047	2,999,668	3,600	1,202,414	5	1,607	793,851	115,665	16,562	433,631	182,993	10,298,891	10,231,766	67,125	16,890,733	8
117	56,586	175	61,972			22,010	4,930	2,136	14,344		213,365	210,316	3,049	416,663	9
86	48,597	17	5,397			12,233	7,333	542	3,533	330	147,600	142,397	4,763	233,456	10
17	9,743					650	300	350			5,470	970	4,500	23,760	11
232	154,043					62,313	4,799	1,702	3,296	52,521	329,351	325,829	3,522	637,337	12
72	43,274					6,715	4,010	910	1,795		54,166	52,913	1,838	91,239	13
75	44,515	90	32,139			17,557	10,354	172	3,431	3,100	30,070	29,027	1,043	233,303	14
2	986	12	3,354			2,422	416	89	1,917		19,219	18,933	256	34,135	15
1	850	23	7,115			1,570	1,495		75		3,230	3,152	78	19,700	16
84	16,420	5	1,093			9,688	3,335	163	5,630		46,076	44,995	1,081	93,778	17
20	12,366					1,460	945	121	394		4,724	4,159	565	30,550	18
2,731	1,539,179	344	109,109	91	23,154	113,353	4,162	16,250	93,444		3,031,770	3,021,770	9,375	5,840,668	19
26	15,100					1,063	635	63	360		30,103	29,941	162	66,437	20
441	243,306					46,392	16,410	2,090	23,022	5,370	263,540	243,377	14,688	333,564	21

TABLE 8.—MANUFACTURES IN CITIES

LYNN—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.
22 Furniture, cabinetmaking, repairing, and upholstering.	8	\$3,450			\$3,000	\$5,450	10	1	\$715	9	\$5,200
23 Lasts	5	77,397	\$5,000	\$6,500	27,005	39,892	10	6	5,410	68	36,490
24 Leather, tanned, curried, and finished.	12	1,031,025	18,300	45,000	125,216	342,509	17	51	35,162	638	282,318
25 Lock and gun smithing	6	2,623			38	1,660	6			2	750
26 Marble and stone work	3	68,765	7,000	4,100	27,700	29,965	5	1	780	30	14,892
27 Masonry, brick and stone	11	60,475	7,800	10,700	11,450	36,525	13	5	3,100	121	48,632
28 Millinery, custom work	16	42,835		5,000	600	37,175	18	18	6,562	33	12,110
29 Mineral and soda waters	5	61,600	11,000	18,000	15,150	17,450	4	1	600	24	15,196
30 Models and patterns	13	29,591	800	350	16,229	13,712	19	8	2,250	58	20,632
31 Monuments and tombstones	4	27,622	800	3,600	1,571	22,151	6			17	19,271
32 Painting, house, sign, etc.	32	50,605	4,380	2,700	12,130	31,895	33	1	780	119	69,711
33 Patent medicines and compounds	5	741,010	4,946	72,712	13,337	650,015	8	15	18,400	324	44,074
34 Photography	7	19,334			8,337	11,497	7			7	3,440
35 Plumbing, and gas and steam fitting	30	90,403	100	500	17,429	72,374	33	13	6,254	140	38,808
36 Printing and publishing, book and job.	14	104,141			75,773	28,368	13	8	6,050	33	41,751
37 Printing and publishing, newspapers and periodicals.	5	107,700	14,000	26,000	34,800	32,900	4	8	6,482	77	49,756
38 Saddlery and harness	3	40,823	5,000	12,500	3,550	19,773	8			10	5,040
39 Sewing machine repairing	4	2,225			1,075	1,150	2			4	2,913
40 Soap and candles	3	130,237	37,100	19,100	12,265	61,322	4	8	6,000	39	17,443
41 Tobacco, cigars and cigarettes	3	23,175			975	22,200	9	5	3,000	16	12,920
42 Tools, not elsewhere specified	4	10,393	500	1,000	5,707	3,186	5			10	4,405
43 Watch, clock, and jewelry repairing	17	14,905		2,000	7,675	5,230	17			10	5,450
44 All other industries <sup>1</sup>	59	1,349,286	120,750	139,274	551,946	537,316	67	70	79,381	380	463,491

<sup>1</sup> Embraces artists' materials, 1; awnings, tents, and sails, 2; bookbinding and blank book making, 2; bottling, 2; boxes, wooden packing, 1; brooms and brushes, 1; carriage and wagon materials, 1; clothing, women's, factory product, 2; cooperage, 1; dyeing and cleaning, 1; fancy articles, not elsewhere specified, 2; flavoring extracts, 2; flouring and grist mill products, 1; food preparations, 1; fur goods, 1; fur hats, 1; gas, illuminating and heating, 1; hand stamps, 1; hardware, 1; iron and steel, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; lard, refined, 1; leather goods, 2; liquors, vinous, 1; looking-glass and picture frames, 2; lumber, planing mill products, including sash, doors, and blinds, 1; mattresses and spring beds, 1; mucilage and paste, 2;

MALDEN.

1	All industries	242	\$5,906,279	\$322,972	\$511,851	\$852,160	\$4,219,296	261	129	\$133,575	3,032	\$1,520,653
2	Bicycle and tricycle repairing	6	3,250		200	2,250	800	8			4	2,235
3	Blacksmithing and wheelwrighting	21	14,433	500	875	5,593	7,515	23			28	17,425
4	Boots and shoes, custom work and repairing.	19	4,398	300	400	2,415	1,233	19			9	8,971
5	Bread and other bakery products	3	13,310	750	400	7,010	5,150	8	6	3,120	31	17,460
6	Carpentering	39	137,095	7,500	9,900	14,250	105,445	44	2	1,120	249	155,447
7	Clothing, men's, custom work and repairing.	10	9,640			1,915	7,725	11			23	12,563
8	Clothing, women's, dressmaking	17	1,926			1,271	655	13			23	8,422
9	Confectionery	3	6,321			4,850	1,974	3	10	1,804	5	2,161
10	Furniture, cabinetmaking, repairing, and upholstering.	4	2,430			350	2,130	5			9	4,850
11	Lumber, planing mill products, including sash, doors, and blinds.	3	32,350		1,500	6,500	24,350	3			41	22,474
12	Masonry, brick and stone	6	10,323			7,623	2,700	7			30	36,545
13	Millinery, custom work	3	15,632	5,300	2,700	317	7,275	3			24	9,424
14	Painting, house, sign, etc.	13	11,435	900	750	4,229	6,615	19			40	26,672
15	Photography	3	3,775		150	2,350	775	3				
16	Plastering and stuccowork	5	1,920			620	1,300	3			14	10,053
17	Plumbing, and gas and steam fitting	12	19,860			3,650	16,210	14	7	2,747	31	24,580
18	Printing and publishing, book and job.	7	21,345			19,000	2,345	9			23	9,966
19	Printing and publishing, newspapers and periodicals.	3	39,507	10,000	1,500	19,059	8,948	1	6	6,572	18	7,666
20	Saddlery and harness	3	3,475			725	2,750	3			4	2,500
21	Tinsmithing, coppersmithing, and sheet-iron working.	3	3,959			3,334	5,425	3	3	1,750	3	3,030
22	Watch, clock, and jewelry repairing	4	2,100			1,400	700	5			1	576
23	All other industries <sup>1</sup>	40	5,541,037	267,722	493,336	742,753	4,007,226	39	95	116,462	2,417	1,132,530

<sup>1</sup> Embraces bookbinding and blank book making, 1; boots and shoes, rubber, 1; boxes, wooden packing, 1; brooms and brushes, 1; carriages and wagons, 1; chemicals, 1; cordage and twine, 1; cotton goods, 1; dyeing and cleaning, 1; dyeing and finishing textiles, 1; electrical apparatus and supplies, 1; electrical construction and repairs, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; foundry and machine shop products, 2; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; hosiery and knit goods, 1; lasts, 2; leather, tanned, curried, and finished, 1; lock and gun smithing, 1; marble and

NEW BEDFORD.

1	All industries	618	\$29,073,410	\$1,234,080	\$5,191,403	\$12,125,407	\$10,522,520	631	437	\$566,457	16,409	\$6,730,793
2	Bicycle and tricycle repairing	23	30,205	3,220	7,755	7,330	11,900	23	2	1,212	25	11,330
3	Blacksmithing and wheelwrighting	39	49,145	8,120	10,050	9,300	21,675	42			44	25,231
4	Boots and shoes, custom work and repairing.	71	19,125	1,150	2,150	9,330	6,445	72			18	9,212
5	Bottling	6	35,330	6,500	9,300	10,000	9,050	11	2	1,404	37	18,500
6	Bread and other bakery products	32	216,335	21,000	36,100	97,950	11,335	35	41	24,423	131	91,977

BY SPECIFIED INDUSTRIES: 1900—Continued.

LYNN—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
9	\$5,260					\$2,167	\$1,624	\$38	\$510		\$11,830	\$11,721	\$109	\$26,850	22
63	86,490					6,225	2,685	851	8,189		29,275	27,497	1,778	99,788	23
637	281,968	1	\$350			65,997	15,896	4,605	45,496		2,038,574	2,017,651	20,923	2,451,423	24
1	500			1	\$250	1,230	1,082	12	136		1,177	1,070	107	7,250	25
80	14,892					1,785	133	202	1,450		26,285	25,670	615	54,880	26
121	48,632					7,480	400	240	5,280	\$1,560	71,221	70,598	623	102,902	27
24	15,196	33	12,110			12,036	9,814	648	1,579		77,824	77,636	188	184,950	28
49	18,779	9	1,853			4,996	696	500	8,800		14,147	13,072	1,075	59,700	29
17	13,271					4,788	8,150	78	1,660		18,002	17,632	370	74,290	30
119	69,711					2,789	810	62	717	1,700	9,928	9,801	122	88,406	31
107	16,100	217	27,974			6,685	8,900	277	2,156	852	86,857	86,006	851	153,882	32
3	1,612	4	1,828			641,105	1,076	1,634	638,395		278,087	272,092	995	1,388,833	33
140	88,808					3,760	2,176	46	888	650	4,774	4,467	307	20,560	34
77	89,609	4	1,900	2	\$42	14,891	8,888	561	8,192	2,750	134,288	132,901	1,387	804,550	35
72	48,844	8	1,100	2	812	7,881	4,522	318	2,540		44,829	43,175	1,654	141,462	36
10	5,040					6,077	1,860	647	2,070	2,000	17,670	16,720	950	102,808	37
4	2,913					2,890	1,520	855	515		11,717	11,492	225	28,270	38
88	10,248	6	1,200			736	468	70	208		1,750	1,630	220	7,900	39
16	12,920					11,269		1,094	10,176		78,631	76,631	2,000	146,879	40
10	4,405					12,851	1,160	68	11,123		27,380	27,344	36	74,811	41
10	5,450					899	500	89	810		8,405	8,055	350	17,233	42
704	422,716	175	45,776			3,938	2,899	105	804	125	8,757	8,638	99	85,689	43
						165,650	18,833	10,004	187,153	100	1,102,931	1,052,661	50,270	2,186,708	44

musical instruments and materials, not specified, 2; needles and pins, 1; oil, not elsewhere specified, 1; ordnance and ordnance stores, 1; paper hanging, 1; paper hangings, 1; paving and paving materials, 1; phonographs and graphophones, 1; plumbers' supplies, 1; roofing and roofing materials, 2; rubber and elastic goods, 1; sand and emery paper and cloth, 1; shirts, 1; stencils and brands, 2; surgical appliances, 1; taxidermy, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; wood, turned and carved, 1.

MALDEN.

1,907	\$1,131,018	1,132	\$381,848	43	\$7,762	\$790,518	\$39,902	\$74,268	\$568,048	\$113,810	\$4,607,400	\$4,549,587	\$57,818	\$7,959,292	1
4	2,235					848	697	19	292		3,976	3,780	196	11,632	2
27	17,200			1	225	4,489	2,928	27	1,531		14,533	13,609	924	57,551	3
9	8,971					1,878	1,860	10	508		10,188	10,016	172	26,776	4
23	15,192	8	2,268			2,980	2,486	66	428		60,510	59,288	1,222	110,200	5
249	165,447					116,613	1,952	659	4,522	109,480	309,481	308,136	1,295	701,855	6
10	7,609	18	4,894			2,241	1,848	89	859		12,882	12,653	229	87,595	7
		23	8,422			1,872	1,754		118		2,483	2,408	75	23,059	8
3	1,660	2	504			10,959	1,488	29	8,842		11,867	11,412	455	80,079	9
7	4,100	2	750			1,110	990		120		4,081	4,050	31	14,250	10
41	22,474					4,696	1,458	109	3,129		88,305	87,025	680	74,500	11
						4,063	746		3,017	300	27,944	27,239	705	78,100	12
80	96,545	24	9,424			2,788	1,712	98	948		18,772	18,675	97	43,580	13
40	26,672					1,439	970	37	882	50	14,385	14,386	40	60,964	14
						778	255	5	898	125	1,838	1,765	73	5,282	15
14	10,058					844	194		95	555	9,201	9,056	145	28,760	16
31	24,580					5,157	1,859	96	702	2,500	52,770	52,857	413	107,600	17
18	8,721	3	1,000	2	245	3,191	2,169	49	673	300	8,447	7,951	496	28,957	18
8	4,150	10	3,516			8,004	674	408	1,982		4,314	3,740	574	28,600	19
4	2,500					850	600		250		5,672	5,600	72	12,400	20
7	2,858			1	227	1,069	598	39	487		5,020	4,418	602	15,049	21
1	576					688	319	12	257		980	950	30	5,500	22
1,331	774,445	1,047	351,070	89	7,065	619,631	12,955	72,561	534,116		3,989,801	3,940,523	49,278	6,458,293	23

stone work, 1; mineral and soda waters, 1; monuments and tombstones, 1; paints, 1; paper hanging, 2; patent medicines and compounds, 2; paving and paving materials, 2; rubber and elastic goods, 2; sand and emery paper and cloth, 1; soap and candles, 1; taxidermy, 1; tobacco, cigars and cigarettes, 1; wirework, including wire rope and cable, 1.

NEW BEDFORD.

9,704	\$4,576,957	5,759	\$1,941,115	946	\$212,721	\$1,703,408	\$91,280	\$367,662	\$1,204,196	\$40,270	\$12,727,776	\$12,807,450	\$420,326	\$25,681,671	1
24	11,030			1	300	5,625	3,387	269	1,989		21,223	20,147	1,076	58,898	2
43	25,131			1	150	6,972	4,359	257	1,356		23,504	22,148	1,356	98,662	3
17	9,002			1	150	5,988	5,372	68	548		23,772	27,719	1,058	83,961	4
87	13,500					6,424	1,200	609	4,615		76,042	75,227	815	117,800	5
158	83,707	23	8,270			34,987	6,787	1,125	27,075		242,266	235,594	6,672	469,900	6

TABLE 8.—MANUFACTURES IN CITIES

NEW BEDFORD—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.
7 Carpentering.....	88	\$151,490	\$9,150	\$18,740	\$20,025	\$103,575	8	\$4,904	232	\$150,315	
8 Carriages and wagons.....	9	181,738	86,000	44,200	8,150	98,888	5	4,072	76	47,402	
9 Clothing, men's, custom work and repairing.....	27	86,982	700	1,350	2,285	32,647	1	182	56	22,109	
10 Clothing, women's, dressmaking.....	45	44,610	4,400	9,500	6,710	24,000	49		146	42,637	
11 Confectionery.....	5	51,395	23,400	18,000	4,165	5,880	7	6,487	13	7,492	
12 Cooperage.....	3	2,400		400	600	1,400	4		5	2,700	
13 Cotton goods.....	16	21,870,988	766,588	4,125,875	10,158,007	6,820,568	140	253,369	12,283	4,602,769	
14 Foundry and machine shop products.....	17	870,204	25,100	25,100	123,995	196,009	17	21,915	196	123,574	
15 Furniture, cabinetmaking, repairing, and upholstering.....	10	4,970			1,880	3,590	12		11	6,424	
16 Glass, cutting, staining, and ornamenting.....	4	34,000			6,200	27,800	4	1,864	37	24,850	
17 Lock and gun smithing.....	8	2,625			1,075	1,550	8		2	1,050	
18 Looking-glass and picture frames.....	6	12,925	600	2,400	1,725	8,200	7	1,000	10	8,925	
19 Lumber, planing mill products, including sash, doors, and blinds.....	4	59,297	9,000	8,200	21,278	20,729	8	624	38	21,658	
20 Marble and stone work.....	5	11,880	3,000	1,100	830	6,950	6	1,200	7	5,224	
21 Masonry, brick and stone.....	14	67,060	16,800	6,600	16,885	26,775	18	400	105	62,930	
22 Millinery, custom work.....	20	29,390	1,800	200	2,840	25,050	29	8,176	56	16,878	
23 Monuments and tombstones.....	4	12,925	2,500	2,150	780	6,900	4		11	7,130	
24 Oil, not elsewhere specified.....	4	190,495	11,500	8,500	10,085	160,410	5	10,764	44	21,591	
25 Painting, house, sign, etc.....	37	102,515	17,125	12,050	10,705	62,635	44	8,100	128	89,071	
26 Paints.....	3	86,767	2,500	2,500	9,000	72,767	7	3,560	8	4,944	
27 Photography.....	15	17,075	1,000	1,000	8,850	6,225	15		9	8,731	
28 Plumbing, and gas and steam fitting.....	26	125,700	8,500	14,800	15,800	87,100	38	5,784	145	82,088	
29 Printing and publishing, book and job.....	8	29,613	2,000	2,000	14,800	11,313	9	1,928	26	11,658	
30 Printing and publishing, newspapers and periodicals.....	6	118,242			52,376	65,866	10	32,780	96	62,644	
31 Roofing and roofing materials.....	5	28,470	4,800	1,700	4,820	12,150	7	950	31	11,504	
32 Saddlery and harness.....	9	24,090	10,700	6,900	1,765	4,725	10	600	13	7,632	
33 Ship and boat building, wooden.....	11	13,650	1,100	2,700	5,825	4,525	13		22	12,760	
34 Tinsmithing, coppersmithing, and sheet-iron working.....	5	4,200	300	500	750	2,650	6		4	2,312	
35 Tobacco, cigars and cigarettes.....	5	14,600			1,500	13,100	6	1,200	14	6,918	
36 Watch, clock, and jewelry repairing.....	21	11,250			5,780	5,470	21		21	12,608	
37 All other industries <sup>1</sup> .....	62	5,017,344	235,577	809,088	1,474,461	2,408,223	67	179,604	2,256	1,097,444	

<sup>1</sup> Embraces awnings, tents, and sails, 2; bookbinding and blank book making, 1; boot and shoe cut stock, 1; boots and shoes, factory product, 2; boxes, cigar, 1; boxes, fancy and paper, 1; brass and copper, rolled, 1; brass castings and brass finishing, 2; brooms and brushes, 1; buttons, 1; cars and general shop construction and repairs by street railroad companies, 1; chemicals, 1; coffee and spice, roasting and grinding, 1; cordage and twine, 2; dyeing and cleaning, 1; electrical apparatus and supplies, 1; electrical construction and repairs, 2; electroplating, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; flags and banners, 1; flavoring extracts, 1; flouring and grist mill products, 1; furniture, factory product, 2; gas, illuminating and heating, 1; glass, 1; grease and tallow, 1;

NEWTON.

1 All industries.....	207	\$5,105,196	\$375,183	\$711,088	\$1,136,418	\$2,882,512	317	194	\$166,646	8,094	\$1,581,887
2 Bicycle and tricycle repairing.....	7	15,150			5,510	9,640	6	2	850	8	6,110
3 Blacksmithing and wheelwrighting.....	18	53,894	18,950	11,300	6,425	18,219	21	1	500	40	25,516
4 Boots and shoes, custom work and repairing.....	23	4,704			2,585	2,119	19			7	3,636
5 Bread and other bakery products.....	9	9,230	700	1,000	4,190	3,340	10			12	5,702
6 Carpentering.....	43	858,031	17,475	44,150	59,123	237,288	48	17	19,850	588	882,630
7 Carriages and wagons.....	6	216,950	27,500	39,000	12,500	137,950	5	6	10,000	248	150,990
8 Clothing, men's, custom work and repairing.....	18	6,900			1,415	4,545	12			11	5,070
9 Clothing, women's, dressmaking.....	15	6,225			2,085	4,140	17			41	12,695
10 Confectionery.....	8	12,910	1,210	2,500	5,700	8,500	8	2	780	6	2,404
11 Dyeing and cleaning.....	3	2,060	75	150	1,085	750	8	1	520	5	1,312
12 Electrical construction and repairs.....	5	5,550	1,750	1,050	825	1,925	5			4	2,215
13 Furniture, cabinetmaking, repairing, and upholstering.....	8	19,685	4,300	7,500	1,405	6,480	8			14	7,480
14 Masonry, brick and stone.....	28	178,372	25,875	25,850	58,490	68,157	30	2	1,900	316	181,881
15 Millinery, custom work.....	5	1,885			940	945	5			6	2,018
16 Painting, house, sign, etc.....	31	57,300	2,610	5,120	9,695	39,375	37	3	820	146	78,940
17 Plumbing, and gas and steam fitting.....	23	65,522	1,300	2,920	6,290	55,012	25	5	2,376	114	61,238
18 Printing and publishing, book and job.....	8	8,940			4,600	4,340	4			17	8,900
19 Printing and publishing, newspapers and periodicals.....	4	48,350	6,000	13,000	18,000	11,350	4	1	312	23	12,242
20 Saddlery and harness.....	7	10,800	500	1,250	2,225	6,325	9			8	4,809
21 Tinsmithing, coppersmithing, and sheet-iron working.....	6	11,176			2,675	8,501	8	1	350	10	6,470
22 Watch, clock, and jewelry repairing.....	10	4,865	100	200	2,200	2,365	10			1	698
23 All other industries <sup>1</sup> .....	27	4,007,637	266,338	556,093	929,455	2,255,251	28	93	123,888	1,620	668,109

<sup>1</sup> Embraces bookbinding and blank book making, 1; cordage and twine, 1; dye stuffs and extracts, 1; electrical apparatus and supplies, 1; fireworks, 1; flouring and grist mill products, 1; foundry and machine shop products, 2; gas, illuminating and heating, 1; liquors, vinous, 1; looking-glass and picture frames, 1; lumber, planing mill products, including, sash, doors, and blinds, 2; paper and wood pulp, 1; paper hanging, 2; photography, 2; pickles, preserves, and sauces, 1; roofing

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEW BEDFORD—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.										
232	\$150,815					\$17,022	\$949	\$644	\$3,829	\$11,600	\$251,651	\$249,896	\$1,755	\$484,225	7
75	47,102	1	\$800			9,435	1,719	6,781	935		49,240	48,679	561	124,320	8
18	11,262	88	10,847			9,013	4,724	164	825	8,800	28,142	27,848	794	99,875	9
2	3,225	140	38,162	4	\$650	5,288	4,053	175	1,060		49,712	48,751	961	162,885	10
18	7,492					3,061	865	546	1,650		27,745	26,905	1,440	58,900	11
5	2,700					537	375	47	115		5,015	5,000	15	10,961	12
6,395	2,678,230	5,004	1,728,051	837	208,488	1,056,261	17,242	287,976	768,285		8,208,178	7,897,944	810,234	16,748,788	13
184	120,611	12	2,968			17,242	4,750	1,238	11,254		203,461	189,184	14,277	424,810	14
10	6,074	1	350			3,698	2,574	14	1,105		6,437	6,301	136	25,900	15
87	24,850					5,974	960	199	2,815	2,000	10,895	10,250	645	55,850	16
2	1,056					429	296	25	108		901	765	136	8,250	17
10	3,925					1,840	798	87	455		11,424	11,005	419	22,925	18
88	21,058					7,600	2,250	878	4,872		48,980	47,940	1,040	89,978	19
7	5,224					766	260	81	425		3,856	3,325	31	21,600	20
105	62,930					20,544	549	855	3,240	22,400	66,055	64,520	1,535	105,050	21
11	7,130	56	10,373			8,218	5,063	198	2,002	50	50,838	50,203	545	105,515	22
37	19,251	7	2,340			763	325	205	223		8,374	8,303	71	22,867	23
128	87,446	5	1,625			20,706	2,500	522	17,684		820,643	317,726	2,917	426,818	24
8	4,944					4,402	2,183	377	1,842		93,236	92,731	505	239,950	25
4	2,372	4	1,209	1	150	2,481	700	546	1,185		80,622	80,072	550	109,040	26
138	80,548			7	1,540	4,379	3,705	164	510		8,100	7,825	275	32,700	27
26	9,982	5	1,560	1	116	8,031	4,574	637	2,770		124,215	122,430	1,785	278,801	28
90	60,772	4	1,872			2,279	1,528	216	535		15,456	14,592	864	46,550	29
31	11,604					45,934	5,606	1,466	38,912		88,980	29,761	4,219	207,168	30
13	7,692					4,569	137	120	4,812		10,463	10,252	211	39,028	31
22	12,760					2,479	1,785	164	530		12,149	12,007	142	30,445	32
4	2,312					1,639	534	49	199	920	6,073	5,940	133	27,925	33
9	5,581	5	1,387			725	616	21	88		3,863	3,742	121	11,560	34
18	12,038			3	630	4,464	550	114	3,800		12,070	11,961	109	31,050	35
1,762	961,041	454	130,856	40	5,547	5,037	3,619	135	1,283		15,760	15,400	360	52,650	36
						864,166	10,748	61,648	291,765		2,568,145	2,506,807	62,278	4,672,036	37

hand stamps, 1; hardware, 1; hoods and eyes, 1; hostery and knit goods, 1; jewelry, 1; leather goods, 1; lumber and timber products, 2; mattresses and spring beds, 1; mineral and soda waters, 2; mucllage and paste, 1; optical goods, 1; paper and wood pulp, 1; paper goods, not elsewhere specified, 1; paper hanging, 1; plastering and stuccowork, 1; plated and britannia ware, 2; rubber and elastic goods, 1; sausage, 1; shirts, 2; soap and candles, 1; tools, not elsewhere specified, 1; toys and games, 1; window shades, 1; wirework, including wire rope and cable, 1; woolen goods, 1.

NEWTON.

2,624	\$1,454,750	445	\$122,004	25	\$5,133	\$388,922	\$43,896	\$38,418	\$185,818	\$120,350	\$3,005,921	\$3,005,674	\$60,247	\$6,322,232	1
8	6,140					1,603	1,300	8	295		6,025	5,934	91	21,710	2
40	26,546					2,937	2,190	863	384		16,392	15,408	989	70,800	3
7	8,636					2,538	2,475		63		9,007	8,832	175	25,032	4
10	5,234	2	468			2,279	2,136	36	107		24,228	23,449	779	47,685	5
533	332,630					128,130	3,325	2,040	4,515	117,800	767,020	764,210	2,810	1,439,462	6
243	150,900					38,540	800	955	36,985	300	261,810	258,465	3,345	686,620	7
5	8,065	6	2,005			2,951	2,570	28	203		7,466	7,342	124	24,880	8
2	900	33	10,995	1	200	3,153	3,053		100		9,767	9,745	22	38,720	9
6	2,404					1,361	1,000	149	212		7,700	7,365	335	18,500	10
4	1,104			1	203	363	360	3	3		1,003	931	72	4,700	11
4	2,245					410	204	33	163		7,450	7,450		14,985	12
14	7,480					1,833	1,330	150	353		6,642	6,590	62	25,200	13
315	184,881					3,804	470	1,597	1,537	200	162,422	161,817	605	437,945	14
		5	2,043			1,326	1,210	5	111		8,420	8,410	10	15,640	15
143	78,040					5,333	4,157	144	1,032		41,807	41,560	247	188,900	16
114	61,233					5,146	4,280	203	653		135,245	133,709	1,536	277,537	17
10	6,200	7	2,100			625	372	53	100		3,844	3,584	260	13,100	18
13	9,860	5	2,332			3,870	1,510	525	1,335		6,707	6,625	1,032	48,561	19
8	4,309					1,033	855	62	116		5,470	5,399	71	20,000	20
10	5,470					1,615	1,288	74	253		8,857	8,728	129	39,400	21
1	690					1,824	1,658	11	155		1,547	1,485	62	11,325	22
1,115	561,378	332	102,006	23	4,725	173,243	7,243	31,969	136,631	2,400	1,567,092	1,519,651	47,441	2,846,480	23

and roofing materials, 1; rubber and elastic goods, 1; ship and boat building, wooden, 1; shoddy, 1; silk and silk goods, 1; starch, 1; window shades, 1; worsted goods, 1.

TABLE 8.—MANUFACTURES IN CITIES

NORTH ADAMS.

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 .....	231	\$14,563,492	\$929,982	\$1,828,914	\$3,438,648	\$3,365,948	253	267	\$472,324	6,796	\$2,949,010
2 Bicycle and tricycle repairing .....	3	9,000			3,000	6,000	3	1	500	4	1,150
3 Blacksmithing and wheelwrighting .....	8	10,145	1,200	1,000	2,500	5,445	9			14	8,655
4 Boots and shoes, custom work and repairing .....	8	2,022			1,287	785	8			8	1,670
5 Boots and shoes, factory product .....	7	849,990	68,500	95,777	76,897	607,816	12	64	58,895	1,616	642,974
6 Bottling .....	4	12,200	3,000	1,800	2,300	5,100	5	2	665	14	5,951
7 Bread and other bakery products .....	12	49,335	1,700	1,500	19,000	26,495	13	10	7,485	65	23,868
8 Carpentering .....	17	85,955	25,250	7,200	9,248	44,262	22	3	2,302	114	68,431
9 Carriages and wagons .....	5	59,800	18,600	5,900	6,300	29,000	5			25	15,000
10 Clothing, men's, custom work and repairing .....	12	46,250	11,000	9,000	8,525	22,725	12	3	8,000	53	24,860
11 Clothing, women's, dressmaking .....	21	12,263	3,100	3,700	2,378	3,085	25			40	10,426
12 Confectionery .....	3	7,300	2,000	500	1,000	3,800	3	2	433	4	860
13 Cotton goods .....	5	6,466,396	513,432	1,039,565	2,203,302	2,704,097	2	43	121,166	2,357	947,351
14 Foundry and machine shop products .....	4	226,648	27,500	24,252	39,655	135,241	3	15	20,573	192	104,999
15 Furniture, cabinetmaking, repairing, and upholstering .....	8	12,710	4,000	1,000	1,405	6,305	7	3	1,280	4	2,670
16 Masonry, brick and stone .....	8	39,489	16,900	3,800	7,875	11,414	9			49	20,515
17 Millinery, custom work .....	16	21,020	200	400	470	20,650	19			30	9,527
18 Painting, house, sign, etc .....	19	25,765	3,375	925	2,980	13,485	21	2	912	49	27,047
19 Photography .....	5	8,710	600	1,760	1,525	4,825	5			2	1,480
20 Plumbing, and gas and steam fitting .....	6	54,400	2,500	2,500	9,900	39,500	8	3	2,000	53	27,918
21 Printing and publishing, book and job .....	4	24,460			19,400	5,060	6	1	600	24	12,182
22 Printing and publishing, newspapers and periodicals .....	3	50,000			39,500	10,500	4	6	4,750	34	14,250
23 Roofing and roofing materials .....	4	3,365			565	2,300	5			11	6,900
24 Saddlery and harness .....	4	3,350		200	300	2,850	5			3	1,886
25 Tobacco, cigars and cigarettes .....	3	18,906			760	18,156	10			27	11,762
26 Watch, clock, and jewelry repairing .....	3	4,175			1,725	2,450	7			5	3,628
27 All other industries <sup>1</sup> .....	29	6,459,218	227,125	627,185	975,766	4,629,202	25	109	247,763	2,094	946,651

<sup>1</sup> Embraces boxes, fancy and paper, 2; brick and tile, 1; brooms and brushes, 1; clothing, women's, factory product, 1; dyeing and finishing textiles, 1; flouring and grist mill products, 2; gas, illuminating and heating, 1; grease and tallow, 1; ironwork, architectural and ornamental, 1; leather, tanned, curried, and finished, 1; lime and cement, 1; lock and gun smithing, 2; lumber and timber products, 1; lumber, planing mill products, including sash, doors, and blinds, 1;

PITTSFIELD.

1 All industries .....	261	\$6,084,840	\$274,656	\$540,938	\$364,407	\$4,405,398	309	229	\$255,527	3,863	\$1,027,790
2 Bicycle and tricycle repairing .....	4	4,200			1,700	2,500	5			5	2,639
3 Blacksmithing and wheelwrighting .....	23	20,320	3,340	4,400	3,180	9,400	27			17	9,710
4 Boots and shoes, custom work and repairing .....	16	3,300	100	50	1,955	1,185	16			5	2,378
5 Bread and other bakery products .....	9	29,150	9,000	4,600	5,650	9,900	13	5	1,763	28	11,088
6 Carpentering .....	24	63,770	18,350	9,550	13,650	22,220	30	5	2,852	150	86,074
7 Clothing, men's, custom work and repairing .....	12	16,290			1,980	14,310	14	1	936	26	13,275
8 Clothing, women's, dressmaking .....	18	7,405	750	1,250	1,855	3,640	22	1	520	36	11,161
9 Dyeing and cleaning .....	3	165			55	110	3	1	400	4	1,425
10 Flouring and grist mill products .....	3	18,800	4,000	3,000	4,800	7,000	1			3	1,440
11 Foundry and machine shop products .....	4	180,688	37,500	29,000	24,150	90,038	3	9	12,114	100	57,677
12 Furniture, cabinetmaking, repairing, and upholstering .....	4	13,861	500	5,100	4,800	3,461	5	2	620	21	12,764
13 Looking-glass and picture frames .....	3	3,525			875	2,650	3			2	1,800
14 Masonry, brick and stone .....	10	174,321	11,000	4,100	9,635	149,686	13	7	4,316	160	92,700
15 Millinery, custom work .....	6	12,205			205	12,000	7	3	560	39	14,235
16 Monuments and tombstones .....	3	3,975		25	300	3,650	5			5	3,840
17 Painting, house, sign, etc .....	24	38,035	1,950	6,100	4,772	25,213	26	2	1,470	70	37,411
18 Patent medicines and compounds .....	3	3,972			1,210	7,762	3	4	3,300	2	350
19 Photography .....	7	8,572			4,800	3,772	7			11	3,840
20 Plumbing, and gas and steam fitting .....	7	33,639	26,000	14,000	3,350	42,339	16	2	912	45	26,332
21 Printing and publishing, book and job .....	4	7,964			6,100	1,864	5			6	1,926
22 Printing and publishing, newspapers and periodicals .....	4	60,690			37,630	23,060	1	12	12,024	55	32,305
23 Saddlery and harness .....	4	9,500			1,650	7,850	5			4	2,496
24 Shirts .....	3	6,900			3,200	3,700	3	2	1,320	91	24,305
25 Watch, clock, and jewelry repairing .....	3	22,400			4,400	18,000	10			9	3,034
26 Woolen goods .....	6	1,403,273	41,616	151,643	228,225	981,784	14	29	35,417	1,068	405,772
27 All other industries <sup>1</sup> .....	50	3,875,789	129,550	807,510	494,330	2,953,399	47	144	176,493	1,906	761,193

<sup>1</sup> Embraces boot and shoe cut stock, 1; boot and shoe findings, 1; boots and shoes, factory product, 2; bottling, 1; boxes, fancy and paper, 2; brick and tile, 1; carriages and wagons, 2; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 1; clothing, women's, factory product, 1; confectionery, 1; cotton goods, 1; cutlery and edge tools, 1; electrical apparatus and supplies, 2; electrical construction and repairs, 2; electroplating, 1; engraving, steel, including plate printing, 1; food preparations, 1; fur goods, 1; gas, illuminating and heating, 1; grease and tallow, 1; hand knit

BY SPECIFIED INDUSTRIES: 1900—Continued.

NORTH ADAMS.

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.										
4,585	\$2,288,109	1,890	\$907,844	321	\$58,557	\$836,845	\$85,559	\$65,643	\$668,567	\$66,576	\$5,410,262	\$5,209,832	\$200,430	\$11,682,663	1
4	1,150					627	530	12	85		2,865	2,800	65	6,650	2
14	8,555					1,227	852	17	358		5,919	5,137	782	29,125	3
8	1,570					1,019	1,006	3	10		3,094	3,012	82	8,900	4
896	447,717	551	181,955	69	13,302	85,121	725	3,543	80,858		1,925,189	1,917,792	7,347	2,881,474	5
14	5,956					3,002	740	120	2,742		81,739	31,642	97	52,894	6
44	20,213	20	3,359	1	296	4,835	3,837	62	936		120,663	118,191	2,472	181,491	7
114	68,481					61,073	373	415	2,174	58,711	114,404	114,249	155	294,646	8
25	15,000					2,188		563	1,680	40	10,811	10,531	280	33,810	9
40	19,446	18	5,414			4,740	2,904	320	1,522		26,148	25,608	540	75,825	10
1	914	39	9,512			2,458	1,962	77	419		9,729	9,848	881	38,214	11
		2	493	2	483	1,898	1,680	38	180		6,460	6,240	220	17,000	12
1,445	688,982	740	226,415	172	32,004	259,041		34,636	217,218	7,290	1,149,008	1,068,023	80,980	2,893,128	13
192	104,999					50,622		1,244	48,718		139,734	135,852	3,882	347,410	14
4	2,670					1,068		50	432		7,138	6,958	180	18,524	15
49	26,515					5,286		279	5,007		16,167	16,107	60	75,176	16
		30	9,527			5,500	4,653	51	796		43,064	42,857	207	80,022	17
48	27,427			1	210	3,349	1,841	109	1,339		16,238	16,131	107	65,228	18
1	880					3,706	612	24	70		3,889	3,282	107	13,500	19
58	27,918	1	600			3,213	1,628	278	1,309		87,145	86,824	321	88,664	20
24	12,182					1,365	968	62	675	160	5,590	5,070	520	25,868	21
34	14,250					4,859	1,720	144	2,695	300	8,760	7,845	915	47,060	22
11	6,900					545	156		389		20,468	20,438	25	84,820	23
3	1,886					701	492	22	167		5,250	5,167	88	10,834	24
26	11,474			1	288	6,042	1,668	61	4,913		15,897	15,211	186	42,838	25
5	3,626					2,635	1,728	40	707		1,843	1,725	118	12,115	26
1,530	764,498	489	170,129	75	12,024	322,111	4,735	23,508	293,793	75	1,684,105	1,583,787	100,318	4,812,216	27

marble and stone work, 1; monuments and tombstones, 1; musical instruments and materials, not specified, 1; paving and paving materials, 1; photographic materials, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; toys and games, 1; washing machines and clothes wringers, 1; window shades, 1; woolen goods, 1; worsted goods, 2.

PITTSFIELD.

2,380	\$1,201,262	1,372	\$408,670	111	\$17,858	\$548,483	\$60,634	\$34,292	\$402,301	\$51,256	\$3,616,578	\$3,516,092	\$100,486	\$7,135,770	1
5	2,539					1,660	1,245	10	405		6,699	6,686	63	15,780	2
17	9,710					2,334	1,981	89	264		11,780	10,981	749	41,815	3
5	2,878					1,438	1,357	16	66		4,627	4,511	116	13,471	4
21	11,888	2	600			4,609	2,746	201	1,662		40,228	35,164	5,064	94,915	5
149	65,874			1	200	42,152	1,205	289	643	40,015	145,246	144,766	480	415,918	6
23	17,225	8	1,050			4,907	2,479	18	589	1,826	12,242	11,942	800	50,239	7
		36	11,161			1,612	1,476	27	109		6,745	6,595	150	27,889	8
3	1,125	1	800			650	420		130		1,272	1,058	214	5,600	9
3	1,440					340	500		124		83,160	82,868	292	89,371	10
100	57,577					16,318	240	1,844	14,784		85,285	82,739	2,546	192,950	11
21	12,764					2,592	1,578	150	364	500	8,869	8,169	200	35,000	12
2	1,800					276	266		10		2,785	2,775	10	5,600	13
160	92,700					12,428	60	560	9,808	2,000	129,705	129,345	360	289,700	14
1	150	38	14,105			2,075	1,324	92	659		81,532	81,440	92	72,000	15
5	3,940					629	570	89	20		8,555	8,510	45	28,300	16
69	37,155			1	256	4,255	2,364	216	1,675		26,480	26,291	189	90,477	17
2	360					7,635	555	150	5,700	1,230	4,250	4,210	50	15,831	18
5	2,170	6	1,670			1,957	1,375	82	278		6,267	6,160	107	18,700	19
44	26,432	1	400			3,406	1,840	585	981		59,984	59,174	810	129,226	20
3	1,610			8	316	1,443	1,226	42	150	25	1,297	1,096	201	3,220	21
46	27,855	9	4,450			7,453	2,685	687	4,131		24,598	23,316	1,282	95,881	22
4	2,496					1,134	1,009	23	102		3,557	3,443	114	10,000	23
1	240	90	24,065			4,621	1,000	71	550	3,000	2,418	2,218	200	35,556	24
8	3,752			1	132	2,415	1,740	23	352	800	1,695	1,606	89	15,296	25
667	281,642	328	112,112	78	12,018	82,613	7,800	3,830	63,855	2,083	793,745	769,456	29,289	1,605,702	26
1,016	517,550	358	236,757	32	4,886	337,131	21,593	20,638	294,900		2,159,097	2,101,623	57,474	3,880,683	27

goods, 1; hosiery and knit goods, 2; liquors, malt, 1; lock and gun smithing, 1; lumber and timber products, 1; lumber, planing mill products, including sash, doors, and blinds, 1; models and patterns, 1; paper goods, not elsewhere specified, 1; paper hanging, 1; perfumery and cosmetics, 1; roofing and roofing materials, 2; sewing machine repairing, 1; silk and silk goods, 1; steam fittings and heating apparatus, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; tobacco, cigars and cigarettes, 2; vinegar and cider, 2; wood, turned and carved, 1; worsted goods, 1.

STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

QUINCY.

1	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.
1	All industries	339	\$2,208,197	\$421,165	\$265,173	\$412,538	\$1,109,836	402	126	\$108,392	2,546	\$1,378,823
2	Bicycle and tricycle repairing	6	6,375	125	2,500	800	2,950	8			3	2,400
3	Blacksmithing and wheelwrighting	17	52,840	9,850	16,550	7,180	19,280	16	2	1,820	88	28,122
4	Boots and shoes, custom work and repairing.	11	6,280	350	850	1,185	3,895	10			15	6,158
5	Bread and other bakery products	5	8,050	1,000	1,000	2,550	8,500	5	2	370	13	7,080
6	Carpentering	39	109,390	9,675	14,760	9,685	75,300	40	7	4,540	150	97,122
7	Clothing, men's, custom work and repairing.	6	2,550			800	1,750	7			7	3,310
8	Clothing, women's, dressmaking	8	1,055			525	530	8			10	2,510
9	Confectionery	8	5,850	1,000	500	3,500	850	4			6	1,750
10	Foundry and machine shop products	4	59,252	3,168	9,700	13,418	32,968	4	4	9,000	82	52,571
11	Furniture, cabinetmaking, repairing, and upholstering.	5	2,600	500	700	760	710	5			4	2,025
12	Looking-glass and picture frames	3	6,165	2,000	925	815	2,425	4			2	1,000
13	Marble and stone work	53	276,429	103,116	42,523	76,698	59,091	69	10	11,785	357	171,863
14	Masonry, brick and stone	11	9,477	1,150	1,750	2,755	4,026	12	2	1,140	43	24,732
15	Millinery, custom work	6	6,450	100	1,200	450	3,700	6			9	3,650
16	Monuments and tombstones	90	1,143,289	234,523	108,525	142,736	657,495	123	67	55,280	1,299	765,377
17	Painting, house, sign, etc	14	14,890	4,900	6,235	1,225	3,530	13			21	16,963
18	Plumbing, and gas and steam fitting	9	49,860	8,500	10,200	3,625	27,535	11	1	600	40	28,665
19	Ship and boat building, wooden	3	38,805	17,600	5,000	6,105	9,500	5	2	2,500	18	10,330
20	Tinsmithing, coppersmithing, and sheet-iron working.	4	22,400	1,300	3,050	12,750	5,300	6	3	2,300	12	6,950
21	Tools, not elsewhere specified	5	18,600	1,600	2,500	7,100	7,300	6			5	3,500
22	Watch, clock, and jewelry repairing	3	950			650	300	3			3	2,050
23	All other industries <sup>1</sup>	34	368,582	20,700	37,115	117,293	193,424	38	20	19,557	400	143,784

<sup>1</sup> Embraces awnings, tents, and sails, 1; belting and hose, linen, 1; boot and shoe cut stock, 1; boots and shoes, factory product, 1; brass castings and brass finishing, 2; carriages and wagons, 2; clothing, women's, factory product, 1; dyeing and cleaning, 1; electrical construction and repairs, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hammocks, 1; leather board, 1; leather, tanned,

SALEM.

1	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.	Proprietors and firm members.	Number.	Salaries.	Average number.	Wages.
1	All industries	446	\$7,450,985	\$283,041	\$901,652	\$2,107,250	\$4,158,992	490	236	\$214,656	6,424	\$2,842,078
2	Bicycle and tricycle repairing	11	14,050	800	1,000	6,175	6,075	10	4	2,468	12	9,023
3	Blacksmithing and wheelwrighting	22	31,866	4,200	2,850	11,725	13,091	23			26	17,922
4	Boot and shoe cut stock	15	155,246	8,700	20,500	25,150	100,896	20	11	5,346	312	109,322
6	Boots and shoes, custom work and repairing.	14	98,014	1,800	16,200	29,010	51,004	17	7	4,776	373	161,500
6	Boots and shoes, factory product	23	4,949		100	2,697	2,132	22			2	1,317
7	Bread and other bakery products	18	997,900	3,309	9,000	211,894	774,206	33	70	53,512	1,787	766,947
8	Brass castings and brass finishing	3	16,650	1,000	4,200	3,400	3,050	3			26	20,350
9	Carpentering	23	47,637	5,200	3,700	18,280	15,457	21	13	3,556	73	39,406
10	Carriages and wagons	43	97,421	5,337	10,950	21,638	59,466	47	4	2,776	184	117,687
11	Clothing, men's, custom work and repairing.	5	6,300			3,950	8,950	5			4	2,377
12	Clothing, women's, dressmaking	22	80,605	500	2,225	3,560	24,320	24			75	32,035
13	Confectionery	15	3,085			1,155	1,910	15			42	9,765
14	Dyeing and cleaning	4	3,300			1,500	1,800	4	1	200	5	2,440
15	Foundry and machine shop products	3	2,915	1,500	300	900	215	4			5	2,800
16	Furniture, cabinetmaking, repairing, and upholstering.	11	157,399	19,000	23,300	40,355	74,744	14	6	4,300	81	48,803
17	Leather goods	7	7,210		500	1,950	4,760	6	1	800	17	8,600
18	Leather, tanned, curried, and finished	4	24,400	400	1,500	7,200	15,300	5	4	3,100	37	14,650
19	Lock and gun smithing	20	1,925,315	53,934	190,338	261,741	1,419,302	23	41	49,821	363	395,661
20	Looking-glass and picture frames	3	1,825			875	650	2			1	610
21	Lumber, planing mill products, including sash, doors, and blinds.	8	13,950	1,500	4,000	550	7,900	3	1	312	5	3,700
22	Masonry, brick and stone	16	74,110	800	900	10,440	61,970	21	2	760	136	93,214
23	Millinery, custom work	15	33,990	4,150	6,000	3,550	25,290	15			54	19,078
24	Monuments and tombstones	3	23,400	2,000	3,500	1,900	16,000	7			20	14,388
25	Painting, house, sign, etc	89	27,233	750	1,750	6,527	18,271	44	1	720	91	53,760
27	Paints	3	143,067	5,000	15,000	25,043	98,024	1	6	10,828	58	22,543
28	Photography	9	34,775			22,800	12,475	11	4	2,496	19	9,005
29	Plumbing, and gas and steam fitting	12	52,005	20	80	4,941	46,964	13	4	2,270	64	86,177
30	Printing and publishing, book and job	7	23,300			17,500	5,800	3	3	900	32	12,057
31	Printing and publishing, newspapers and periodicals.	4	56,200			37,000	19,200	4	4	8,080	96	54,804
32	Roofing and roofing materials	3	9,825	2,600	500	2,050	4,675	3			12	6,672
33	Saddlery and harness	7	3,085		400	1,340	6,345	3			3	2,320
34	Ship and boat building, wooden	3	6,460	1,900	200	1,050	2,310	3			3	6,250
35	Tinsmithing, coppersmithing, and sheet-iron working.	3	41,900			3,750	38,150	3			50	21,800
36	Tobacco, cigars and cigarettes	3	4,235			385	3,850	4			3	900
37	Watch, clock, and jewelry repairing	10	7,040			2,855	4,185	7			10	5,620
38	All other industries <sup>1</sup>	37	3,163,824	153,220	556,659	1,809,014	1,149,731	35	45	51,335	1,764	635,307

<sup>1</sup> Embraces awnings, tents, and sails, 1; bookbinding and blank book making, 2; boot and shoe uppers, 2; boxes, fancy and paper, 1; boxes, wooden packing, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 2; clothing, women's, factory product, 2; cotton goods, 1; electrical apparatus and supplies, 1; electrical construction and repairs, 2; electroplating, 1; flavoring extracts, 1; food preparations, 1; gas, illuminating

BY SPECIFIED INDUSTRIES: 1900—Continued.

QUINCY.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
2,264	\$1,800,448	281	\$78,820	1	\$60	\$259,703	\$81,459	\$19,100	\$125,064	\$78,020	\$1,800,260	\$1,244,708	\$55,552	\$3,948,932	1
3	2,400					597	498	9	90		8,974	3,974		11,895	2
87	23,062			1	60	3,333	1,881	622	1,330		23,292	23,009	1,283	69,795	3
15	6,156					1,089	909	52	128		4,813	4,813	51	18,590	4
12	6,770	1	260			2,555	1,641	89	325		21,638	20,123	1,515	41,280	5
159	97,122					87,870	1,488	652	4,280	81,450	180,189	180,189	50	410,517	6
5	2,510	2	800			1,080	845		185		7,598	7,488	110	18,382	7
		10	2,510			600	600				1,765	1,765		8,875	8
6	1,750					977	840	76	62		6,865	6,720	145	16,875	9
82	62,574					3,158	214	574	2,870		84,240	80,005	4,241	164,920	10
4	2,025					380	284	18	83		8,560	8,560		12,500	11
2	1,000					193	60	30	108		2,830	2,830		6,785	12
357	171,363					16,164	4,725	3,800	7,639		58,044	46,718	14,326	890,780	13
43	24,762					2,453	252	129	657	1,415	21,459	21,459		60,626	14
		9	3,050			1,492	1,018	99	875		8,045	7,950	95	17,245	15
1,299	765,377					153,612	6,175	10,167	92,175	45,155	867,123	842,338	24,785	1,764,890	16
21	15,963					814	298	104	352		8,810	8,785	25	87,671	17
40	28,665					2,561	1,145	292	1,124		78,609	78,302	307	128,951	18
13	10,360					806	300	190	910		10,925	10,675	250	16,150	19
12	5,950					1,306	480	301	1,025		11,522	11,277	245	23,050	20
5	3,500					857	216	126	615		8,798	6,749	2,049	19,975	21
3	2,050					305	270		35		608	583	25	6,550	22
141	77,081	269	71,700			21,046	7,820	1,830	11,396		440,496	434,446	6,050	754,534	23

carried, and finished, 2; lumber, planing mill products, including sash, doors, and blinds, 1; mineral and soda waters, 1; musical instruments, pianos and materials, 1; optical goods, 1; photography, 2; printing and publishing, book and job, 2; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; saddlery and harness, 1; shirts, 1; soap and candles, 1; type founding, 1.

SALLEM.

4,120	\$2,172,215	2,195	\$641,272	169	\$20,191	\$404,618	\$89,915	\$51,756	\$264,262	\$58,685	\$7,159,987	\$7,041,871	\$118,116	\$12,257,449	1
11	8,540			1	480	1,744	1,808	102	339		14,194	13,880	308	33,911	2
26	17,022					3,564	2,949	186	429		17,460	16,183	1,277	61,536	3
125	66,537	183	42,940	4	845	8,971	2,151	601	5,019		223,247	219,697	3,550	400,693	4
171	108,050	178	38,442	29	5,008	11,401	2,806	817	7,778		299,786	295,530	4,256	563,469	5
2	1,817					2,000	1,881	5	111		8,076	7,881	195	23,055	6
1,087	660,168	682	202,833	18	3,056	56,600	15,685	2,392	87,983	600	1,876,020	1,864,498	11,521	2,974,631	7
26	20,350					410	100	108	292		43,403	42,109	1,294	73,904	8
61	83,638	19	5,768			7,810	5,954	320	1,536		97,195	93,471	3,724	205,694	9
184	117,687					16,015	3,312	380	2,738	10,235	194,942	193,602	1,340	404,001	10
4	2,377					807	714	58	35		4,093	3,825	268	9,850	11
28	19,832	45	12,028	2	225	6,953	5,301	190	1,162	800	34,940	34,439	501	104,134	12
		42	9,765			1,399	1,288		96	15	4,596	4,524	72	25,414	13
4	2,340	1	800			1,467	1,264	39	164		7,791	7,535	256	16,125	14
4	2,092	1	208			784	534	43	207		952	660	292	6,300	15
81	48,803					4,704	1,429	1,044	2,231		70,600	66,219	4,381	160,253	16
16	3,800	1	300			1,144	729	24	341	50	4,874	4,710	164	24,320	17
19	10,530	18	4,120			1,389	545	155	639		61,182	60,694	488	91,500	18
860	391,767	8	3,901			71,489	4,560	9,305	57,624		2,365,971	2,330,569	25,402	3,076,869	19
1	540					381	330		51		1,216	1,158	58	3,180	20
6	3,709					745	500	145	100		6,580	6,485	95	15,876	21
68	44,908			1	168	3,089	600	973	1,516		84,060	83,520	540	174,526	22
136	93,214					48,928	779	102	1,847	46,200	70,559	69,879	780	283,712	23
		54	19,078			8,927	6,558	323	1,847		74,530	74,245	385	127,142	24
20	14,888					633	224	167	242		11,438	10,931	507	48,100	25
91	53,769					2,751	2,314	34	403		28,594	23,293	301	117,837	26
55	21,543	8	1,000			4,598	900	1,209	2,420		218,794	212,621	1,173	255,571	27
10	6,070	9	2,935			4,682	2,953	198	1,321	210	9,364	9,081	283	87,210	28
63	36,977			1	200	4,810	2,698	283	1,829		67,344	66,877	467	132,400	29
18	3,260	10	3,880	4	417	3,966	2,246	170	1,500	50	13,707	12,659	1,048	41,330	30
52	31,186	43	23,512	1	156	7,622	4,280	658	2,084	600	18,576	17,223	1,348	115,100	31
12	6,572					483	184	82	217		5,457	5,370	87	16,500	32
8	2,820					1,071	911	68	92		4,315	4,215	100	13,530	33
8	6,250					393	225	22	25	125	3,215	3,205	10	13,200	34
50	21,800					1,855	1,150	185	570		20,052	19,190	862	52,930	35
		3	900			1,120	174	6	940		3,122	3,060	62	7,485	36
9	5,220	1	400			1,195	1,013	54	128		2,402	2,340	62	13,490	37
822	896,712	834	269,459	103	10,136	163,703	9,308	81,408	127,687	300	1,207,281	1,156,532	50,749	2,518,771	38

and heating, 1; gloves and mittens, 1; glue, 1; hairwork, 2; lasts, 1; liquors, malt, 1; mattresses and spring beds, 1; mineral and soda waters, 1; musical instruments, pianos and patterns, 1; muckage and paste, 1; paving and paving materials, 2; plastering and stuccowork, 1; plumbers' supplies, 1; taxidermy, 1; toys and games, 1; upholstering materials, 1.

TABLE 8.—MANUFACTURES IN CITIES

SOMERVILLE.

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.
1 All industries.....	878	\$10,181,596	\$1,112,894	\$2,020,145	\$1,187,285	\$5,811,822	419	294	\$266,918	4,342	\$2,199,491
2 Bicycle and tricycle repairing.....	8	9,330	2,000	2,000	2,200	8,010	11	2	850	6	8,280
3 Blacksmithing and wheelwrighting.....	25	47,781	16,200	11,350	7,046	13,185	27	1	700	40	26,121
4 Boots and shoes, custom work and repairing.....	31	4,816		100	2,668	2,048	82			11	4,795
5 Bread and other bakery products.....	14	77,810	14,700	20,200	21,585	21,925	21	35	17,711	60	59,914
6 Carpentering.....	50	139,390	10,025	17,095	106,940	4,229	54	9		234	152,164
7 Carriages and wagons.....	8	91,650	82,800	24,400	13,850	20,600	12	2	624	49	29,224
8 Clothing, men's, custom work and repairing.....	22	20,535	2,500	3,500	3,145	11,890	23	1	412	42	18,379
9 Clothing, women's, dressmaking.....	16	9,013	1,500	3,300	1,433	2,780	17			21	6,887
10 Confectionery.....	4	21,650	1,600	6,000	2,150	11,900	6	5	1,600	9	5,094
11 Electrical construction and repairs.....	3	1,925			725	1,200	3			2	1,495
12 Food preparations.....	3	31,958		2,075	3,290	26,598	2	8	9,176	13	6,975
13 Furniture, cabinetmaking, repairing, and upholstering.....	9	10,240			2,790	7,450	9	2	430	12	6,244
14 Masonry, brick and stone.....	15	88,848	7,050	5,500	3,910	22,388	16	1	520	77	88,188
15 Millinery, custom work.....	12	9,396			671	8,725	13			8	2,442
16 Painting, house, sign, etc.....	40	36,181	2,410	5,010	7,546	21,185	46	1	150	99	64,183
17 Paper hanging.....	4	7,950			700	7,250	5	5	2,496	13	9,340
18 Photography.....	5	109,544	8,336	46,369	17,739	87,100	4	33	21,736	94	59,731
19 Plastering and stuccowork.....	3	8,425	1,000	500	1,000	5,925	3	1	324	32	17,786
20 Plumbing, and gas and steam fitting.....	20	76,333	8,800	20,400	5,290	41,843	21	6	8,224	66	41,673
21 Printing and publishing, book and job.....	5	7,200			5,750	1,450	5			3	2,514
22 Printing and publishing, newspapers and periodicals.....	3	42,000	3,000	15,000	13,800	10,200	4	13	10,600	32	17,948
23 Roofing and roofing materials.....	6	10,820	500	1,800	2,680	5,840	7			15	7,850
24 Saddlery and harness.....	5	5,450	300	500	1,200	3,450	5			6	3,490
25 Tinsmithing, coppersmithing, and sheet-iron working.....	5	21,457	3,000	1,500	7,900	9,057	6	5	3,612	27	14,816
26 Tobacco, cigars and cigarettes.....	4	4,725			745	8,980	5				
27 Watch, clock, and jewelry repairing.....	5	4,950	150	100	2,650	2,050	5			4	2,100
28 All other industries <sup>1</sup> .....	53	9,282,219	1,001,218	1,840,486	1,037,537	5,402,978	57	164	138,724	3,367	1,680,765

<sup>1</sup> Embraces blacking, 1; bluing, 1; boot and shoe cut stock, 1; boxes, fancy and paper, 1; brass castings and brass finishing, 1; brooms and brushes, 2; cars and general shop construction and repairs by steam railroad companies, 1; cleansing and polishing preparations, 1; clothing, men's, factory product, 1; clothing, women's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; cooperage, 2; cordage and twine, 1; dyeing and cleaning, 1; dyeing and finishing, textiles, 1; foundry and machine shop products, 2; furniture, factory product, 1; glass, 1; grease and tallow, 2; hardware, 1; hardware, saddlery, 1; iron and steel, mulls and spikes, cut and wrought, including wire nails, 1; jewelry, 1; liquors, distilled, 1; lock and gun smithing, 2; looking-glass and picture frames, 1; lumber, planing

SPRINGFIELD.

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.
1 All industries.....	817	\$17,105,947	\$1,535,780	\$2,677,919	\$1,858,021	\$8,034,277	837	958	\$1,035,696	10,123	\$5,176,399
2 Bicycle and tricycle repairing.....	30	18,650	50	50	8,510	10,010	35	1	100	18	10,361
3 Bicycles and tricycles.....	6	125,300	3,000	4,000	67,200	61,109	4	11	12,627	95	50,438
4 Blacksmithing and wheelwrighting.....	45	70,237	13,550	16,300	14,400	25,887	48	1	1,000	73	49,474
5 Bookbinding and blank book making.....	3	13,486			6,755	6,701	2	2	2,326	33	14,077
6 Boots and shoes, custom work and repairing.....	47	12,283	1,600	1,425	5,050	4,208	43			22	10,622
7 Bottling.....	4	29,877	100	475	1,565	27,737	6	1	240	10	5,400
8 Boxes, fancy and paper.....	4	36,070			17,100	18,970	8	1	1,500	98	29,602
9 Brass castings and brass finishing.....	9	267,787	5,000	18,514	54,481	189,762	2	10	18,600	181	92,256
10 Bread and other bakery products.....	26	151,154	26,500	36,855	80,317	87,432	26	17	14,114	133	67,700
11 Buttons.....	8	294,698	16,200	40,000	55,153	158,330	2	10	19,200	361	182,767
12 Carpentering.....	66	414,217	47,235	55,865	41,150	269,967	80	9	3,567	630	384,831
13 Carriages and wagons.....	6	95,228	10,000	11,500	7,475	86,253	9	2	2,136	62	81,982
14 Clothing, men's, custom work and repairing.....	36	80,925	1,250	600	5,150	73,925	42	4	2,968	167	86,828
15 Clothing, women's, dressmaking.....	36	81,292	1,100	4,000	3,960	22,232	37	2	816	146	60,291
16 Confectionery.....	7	100,167	20,500	30,200	23,050	26,417	5	20	15,121	153	62,296
17 Dyeing and cleaning.....	5	12,275			6,675	5,600	5	2	857	16	9,146
18 Electrical apparatus and supplies.....	3	264,350			101,554	162,796	1	13	27,615	127	60,913
19 Electrical construction and repairs.....	7	15,190		100	1,015	14,025	9	2	650	19	16,256
20 Electroplating.....	3	5,250			4,000	1,250	2	1	520	9	6,100
21 Engraving and diesinking.....	5	5,950			4,200	1,750	6			3	1,630
22 Envelopes.....	3	565,613	45,000	35,565	233,311	251,737	1	35	82,904	286	114,662
23 Fancy articles, not elsewhere specified.....	3	16,993			4,730	12,263	2			13	5,279
24 Foundry and machine shop products.....	25	1,687,390	96,102	339,881	449,663	751,739	17	56	68,942	766	423,734
25 Furniture, cabinetmaking, repairing, and upholstering.....	18	54,160	8,450	15,000	4,405	26,305	20	8	1,800	46	24,624
26 Lithographing and engraving.....	4	643,608	15,000	25,257	209,500	393,851	1	51	56,384	426	208,948
27 Lock and gun smithing.....	8	4,227			2,875	1,852	9			3	1,816
28 Looking-glass and picture frames.....	6	10,100			700	9,400	8	1	400	17	9,460
29 Lumber, planing mill products, including sash, doors, and blinds.....	3	261,983	23,743	84,747	65,233	83,216	1	14	15,568	161	91,397
30 Marble and stone work.....	4	145,353	20,640	20,400	35,797	59,431	4	3	3,250	71	53,916
31 Masonry, brick and stone.....	25	143,847	19,450	23,750	23,210	75,437	32	2	1,850	226	147,164

BY SPECIFIED INDUSTRIES: 1900—Continued.

SOMERVILLE.

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.										
3,877	\$2,059,410	425	\$130,942	40	\$9,189	\$706,415	\$54,000	\$69,471	\$143,867	\$139,577	\$17,346,772	\$17,171,501	\$175,271	\$21,776,511	1
6	3,280					1,675	1,499	56	120		7,194	6,884	310	16,840	2
40	26,121					4,704	3,411	876	727	250	20,079	18,628	1,451	77,381	3
11	4,795					3,770	3,134	30	588	24	9,908	9,783	125	32,666	4
52	31,185	8	2,779			6,518	3,196	358	2,964		123,426	120,740	2,686	238,844	5
234	152,164					135,510	2,719	287	8,069	124,435	217,286	216,442	844	614,955	6
49	29,224					5,849	1,740	880	2,597	632	80,771	80,178	593	89,195	7
22	12,098	20	6,281			5,063	4,743	163	657	100	21,398	21,066	332	66,737	8
		21	6,887			1,770	1,492	70	105	103	14,620	14,405	215	38,341	9
4	2,466	5	1,228			1,906	860	121	825		15,812	15,436	406	27,004	10
2	1,495					436	197		209	50	3,270	3,234	36	8,002	11
8	5,725	5	1,250			3,806	696	160	2,950		52,719	51,712	1,007	110,572	12
12	6,234					2,776	1,501	20	955	300	28,776	28,608	168	68,623	13
77	38,188					7,900	873	161	2,906	4,460	42,455	42,431	24	111,160	14
		8	2,442			2,759	2,632	40	87		13,448	13,332	116	27,359	15
99	64,133					5,065	3,281	259	725	850	25,432	25,365	67	140,030	16
13	9,940					990	741	44	195		9,033	9,010	23	26,500	17
53	31,162	41	22,572			12,860	455	704	11,160	480	62,037	61,514	523	158,321	18
32	17,736					5,504	197	46	796	4,465	12,230	11,930	300	39,510	19
66	41,673					5,325	3,122	484	1,019	1,200	98,741	98,202	539	174,115	20
3	2,514					820	722	17	81		2,882	2,729	153	12,765	21
15	11,118	14	6,050	3	780	3,449	531	467	1,948	503	7,379	7,125	254	44,017	22
15	7,850					1,982	450	33	1,249		12,677	12,655	122	28,334	23
6	3,400					898	657	13	28	200	7,035	6,947	78	16,918	24
27	14,816					3,908	1,577	269	2,072		17,518	17,327	191	46,280	25
4	2,100					1,155	234	21	900		2,181	2,171	10	4,641	26
3,027	1,540,453	803	31,953	37	3,359	473,299	1,103	51	81	1,235	16,493,640	16,328,972	164,668	19,518,849	28
							13,359	64,291	390,354						28

mill products, including sash, doors, and blinds, 1; marble and stone work, 1; mineral and soda waters, 1; patent medicines and compounds, 1; paving and paving materials, 1; pens, fountain and stylographic, 1; pickles, preserves, and sauces, 2; plumbers' supplies, 1; sausage, 1; slaughtering and meat packing, wholesale, 2; slaughtering, wholesale, not including meat packing, 2; stamped ware, 1; sugar and molasses, refining, 1; toys and games, 1; trunks and valises, 1; window shades, 2; wood, turned and carved, 1; woodware, not elsewhere specified, 1.

SPRINGFIELD.

7,453	\$4,362,605	2,536	\$785,460	134	\$38,234	\$2,067,702	\$261,276	\$105,406	\$1,178,641	\$522,379	\$9,194,841	\$8,991,127	\$203,714	\$21,207,039	1
17	10,137			1	224	6,377	4,752	37	1,413	125	25,093	24,410	683	63,905	2
92	49,458	3	1,000			8,006	3,120	474	5,012		77,849	75,324	2,525	187,695	3
73	49,478					7,331	6,323	440	368	200	40,379	38,163	2,216	146,974	4
16	9,427	17	4,650			4,015	910	114	1,491	1,500	13,610	13,220	390	57,800	5
22	10,522					4,647	4,426	64	107	50	14,409	14,023	381	53,168	6
10	5,400					8,164	775	154	7,235		42,418	42,296	122	68,284	7
14	8,733	34	20,859			4,532	3,745	202	585		30,960	30,601	359	79,081	8
181	92,226					24,312	3,950	1,892	18,500		131,715	130,145	4,600	333,064	9
112	61,250	20	6,294	1	156	20,227	5,900	1,192	13,135		223,558	209,337	14,221	333,006	10
133	55,800	214	75,768	14	1,199	12,880	276	1,634	10,700	160	71,978	69,330	2,148	290,900	11
680	354,823					292,681	2,887	2,151	6,252	231,391	796,175	794,467	1,708	1,797,624	12
62	31,932					7,491	4,581	815	2,080	15	27,778	27,006	772	94,550	13
119	70,615	47	15,901	1	312	17,157	11,601	535	4,791	230	80,672	79,713	959	259,393	14
16	15,470	130	44,321			7,626	6,686	67	611	412	59,165	58,649	516	167,460	15
88	51,518	65	10,748			11,308	5,040	1,662	4,606		211,619	209,353	2,266	349,704	16
13	8,226	3	920			3,516	2,912	59	575		4,418	4,060	358	24,550	17
77	43,749	50	16,300			15,392	5,080	755	10,637		138,339	134,779	3,560	302,402	18
13	15,162	1	364			1,330	970	34	325		20,480	20,480	5	50,000	19
9	6,100					1,109	920	24	165		1,933	1,823	610	12,000	20
3	1,620					3,183	709	14	160	2,800	751	673	78	12,000	21
32	42,567	204	72,095			69,486	3,800	1,741	59,445		394,409	390,410	3,999	659,445	22
7	4,067	6	1,812			3,364	1,240	21	1,705	398	6,086	5,900	186	19,186	23
790	421,147	6	2,592			33,011	13,648	10,259	43,901	15,200	547,241	521,346	25,895	1,482,742	24
42	23,624	4	1,000			3,595	2,165	333	867	230	42,587	41,310	777	88,925	25
301	160,119	97	37,960	28	9,969	96,867	3,450	3,357	34,810	250	224,049	218,670	5,379	690,237	26
3	1,346					1,569	1,069	30	170	800	1,325	1,138	187	11,245	27
17	9,460					2,652	1,660	95	897		16,102	16,024	78	43,514	28
161	91,637					13,519	400	3,254	14,865		175,160	172,506	2,644	332,923	29
71	53,946					10,756	495	2,921	2,340	5,000	126,951	124,651	2,300	208,395	30
226	147,162					57,303	150	668	3,117	43,373	317,044	316,551	493	632,418	31

TABLE 8.—MANUFACTURES IN CITIES

SPRINGFIELD—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.
82 Millinery, custom work	18	\$40,256			\$1,490	\$78,766	25	19	\$8,550	132	\$44,685
83 Mineral and soda waters	6	32,950	\$3,500	\$3,000	10,050	10,400	7	7	550	19	9,229
84 Monuments and tombstones	4	57,350	25,000	2,000	6,650	29,800	5	7	4,900	35	13,580
85 Painting, house, sign, etc	55	106,140	17,100	18,585	10,830	59,925	60	12	9,492	232	143,742
86 Paper goods, not elsewhere specified	8	1,122,226	93,900	198,806	248,501	630,619	12	47	82,931	466	196,363
87 Patent medicines and compounds	5	8,175	1,000	1,200	1,110	4,865	7	1	500	3	1,560
88 Paving and paving materials	3	103,570	60,150	10,200	220	36,000	4	1	1,000	29	13,100
89 Photography	13	26,080	1,700	1,950	11,230	11,200	13	4	1,698	25	10,947
40 Plumbing, and gas and steam fitting	42	251,278	13,100	10,925	25,185	193,638	49	21	16,161	246	170,026
41 Printing and publishing, book and job	22	665,986			197,755	368,231	17	121	120,686	189	103,890
42 Printing and publishing, newspapers and periodicals.	14	474,053	98,500	124,700	86,050	164,808	6	147	113,234	231	207,195
43 Roofing and roofing materials	7	81,075	4,250	3,800	8,050	14,075	9	6	4,500	35	14,520
44 Rubber and elastic goods	3	118,377	17,500	19,500	44,360	37,017	1	1	408	140	59,892
45 Saddlery and harness	12	38,265	7,500	7,500	1,765	21,500	11	1	800	23	12,153
46 Soap and candles	3	29,210	1,600	3,050	1,700	22,860	2	5	8,000	14	6,034
47 Tinsmithing, coppersmithing, and sheet-iron working.	12	99,607	13,000	13,000	16,207	52,400	18	9	7,612	69	84,201
48 Tobacco, cigars and cigarettes	19	247,024	20,050	8,350	7,220	211,404	2	6	8,760	206	159,902
49 Tools, not elsewhere specified	4	145,740	15,000	16,133	48,045	67,512	3	14	16,208	106	43,842
50 Watch, clock, and jewelry repairing	28	34,455	5,500	3,900	8,050	17,005	27			18	12,231
51 Wood, turned and carved	5	7,850	2,400	200	8,550	3,700	5			12	10,640
52 All other industries <sup>1</sup>	90	7,946,630	803,960	1,402,666	2,621,669	3,112,335	69	252	328,089	8,466	1,600,847

<sup>1</sup> Embraces artificial limbs, 1; awnings, tents, and sails, 1; bags, other than paper, 1; billiard tables and materials, 2; boots and shoes, factory product, 1; boxes, cigar, 1; boxes, wooden packing, 1; brassware, 1; brick and tile, 2; bridges, 1; brooms and brushes, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; cars, street railroad, not including operations of railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; clothing, men's, factory product, 1; clothing, women's, factory product, 2; coffee and spice, roasting and grinding, 1; corsets, 1; cotton goods, 2; cotton small wares, 2; cotton waste, 2; cutlery and edge tools, 1; emery wheels, 1; enameling and enameled goods, 1; engraving, wood, 1; firearms, 1; flavoring extracts, 1; fur goods, 1; gas, illuminating and heating, 1; gas machines and meters, 1; gold and silver, leaf and foil, 1; grease and tallow, 1; hairwork, 1; hand stamps, 2; hardware, 1; hats and caps, not including fur hats and wool hats, 1; hooks and eyes, 1; hosiery and

TAUNTON.

1 All industries	284	\$11,737,309	\$415,836	\$1,974,207	\$2,660,336	\$6,657,020	281	330	\$430,818	7,102	\$3,331,680
2 Bicycle and tricycle repairing	6	5,175			1,975	3,200	6			7	3,410
3 Blacksmithing and wheelwrighting	25	23,750	5,125	6,350	7,875	9,400	26			23	11,628
4 Boots and shoes, custom work and repairing	18	9,970	2,200	2,000	3,190	2,580	18			6	2,018
5 Bread and other bakery products	10	34,550	3,600	9,600	9,400	11,950	10	8	5,800	65	38,520
6 Brick and tile	4	112,034	30,593	11,600	19,500	44,361	5	2	1,300	79	33,375
7 Carpentering	17	59,300	3,550	8,200	8,900	38,650	17			139	74,194
8 Carriages and wagons	4	95,946	5,000	10,000	5,300	75,646	6			46	26,922
9 Clothing, men's, custom work and repairing	11	15,440			8,040	12,400	10	1	520	25	14,205
10 Confectionery	7	17,300	700	1,300	7,400	7,900	7	2	1,170	7	7,800
11 Cotton goods	6	4,410,300	117,500	1,029,170	1,508,375	1,695,315	1	44	79,064	8,151	1,125,679
12 Foundry and machine shop products	14	2,679,203	94,100	405,377	411,044	1,768,632	7	91	121,158	1,684	930,536
13 Furniture, cabinetmaking, repairing, and upholstering	6	3,225	200	500	1,150	1,375	6			6	2,575
14 Iron and steel, nails and spikes, cut and wrought, including wire nails.	3	704,819	54,500	93,125	61,180	496,014	2	52	37,610	237	140,160
15 Masonry, brick and stone	6	12,565	150	500	3,225	8,690	6			35	19,780
16 Millinery, custom work	7	11,350			1,650	9,700	7			19	6,902
17 Mineral and soda waters	3	24,450	1,700	11,000	5,000	6,750	3			6	2,320
18 Models and patterns	5	8,710	900	1,500	1,760	4,550	4	1	1,000	15	9,535
19 Monuments and tombstones	3	14,100	4,000	3,500	2,375	3,725	4			13	12,040
20 Painting, house, sign, etc	17	43,290	8,700	4,000	5,025	25,555	22	5	3,224	33	43,798
21 Photography	5	6,970			4,000	2,970	5			4	1,470
22 Plumbing, and gas and steam fitting	10	45,350	2,100	4,650	6,100	32,500	14	4	2,330	44	24,407
23 Pottery, terra cotta, and fire-clay products.	6	243,429	9,000	58,000	45,500	135,929	8	15	13,418	145	71,562
24 Printing and publishing, newspapers and periodicals.	3	64,000			50,000	14,000		9	7,000	35	19,314
25 Saddlery and harness	7	5,975			1,500	4,475	7			6	2,900
26 Tinsmithing, coppersmithing, and sheet-iron working.	4	3,600			1,050	1,950	4			5	3,700
27 Tobacco, cigars and cigarettes	7	12,695	350	1,250	560	10,535	7			14	6,607
28 Watch, clock, and jewelry repairing	10	3,620			2,035	1,585	11			5	2,625
29 All other industries <sup>1</sup>	60	3,056,183	95,868	312,585	421,127	2,220,603	58	96	156,124	1,135	627,148

<sup>1</sup> Embraces bookbinding and blank book making, 1; boot and shoe findings, 1; boots and shoes, factory product, 1; bottling, 1; boxes, wooden packing, 1; brass castings and brass finishing, 1; brassware, 2; brooms and brushes, 1; buttons, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; clothing, women's, dressmaking, 2; cooperage, 2; cotton waste, 1; crucibles, 2; dyeing and cleaning, 2; dyeing and finishing textiles, 1; electrical construction and repairs, 2; electroplating, 1; fancy articles, not elsewhere specified, 1; files, 1; flouring and grist mill products, 1; food preparations, 1; gas, illuminating and heating, 1; grease and tallow, 1; hardware, 1; iron and steel, bolts, nuts, washers,

BY SPECIFIED INDUSTRIES: 1900—Continued.

SPRINGFIELD—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.										
8	\$785	129	\$49,900			\$18,890	\$14,674	\$296	\$3,360		\$123,588	\$122,732	\$856	\$272,148	32
19	9,229					8,242	1,014	167	2,081		14,901	14,411	490	45,200	33
35	18,580					6,111	1,817	436	1,358	\$3,000	44,181	43,776	405	86,366	34
231	146,512			1	\$230	21,172	5,896	653	4,783	9,900	89,810	89,459	351	842,323	35
268	130,576	198	65,788			40,433	11,495	6,077	22,301		720,691	711,875	8,813	1,164,985	36
8	1,560					1,546	288	85	1,228		5,442	5,400	42	19,025	37
29	18,100					1,415		1,165	250		40,395	40,395		68,075	38
16	7,566	10	3,881			7,597	5,103	881	1,608	500	19,484	18,924	510	66,275	39
245	169,744			1	282	17,813	12,793	1,000	3,810	150	272,525	270,884	1,691	505,824	40
134	82,088	54	21,007	1	200	214,166	13,699	3,338	72,160	124,469	132,963	129,622	8,841	750,710	41
205	196,727	23	10,168	3	800	101,478	4,632	5,505	79,188	12,153	161,985	154,529	7,456	646,004	42
85	14,520					2,050	990	153	916		19,667	19,533	134	52,015	43
72	27,000	74	12,892			3,782	180	602	2,350		63,225	61,050	2,175	135,705	44
23	12,158					2,384	2,618	86	330		10,412	16,178	234	48,642	45
14	9,034					1,462	24	764	684		46,517	45,081	584	89,520	46
60	34,201					5,837	3,108	370	1,800	50	58,206	57,125	1,081	154,565	47
163	119,838	103	40,664			50,008	4,516	1,646	48,816		177,106	172,581	4,525	439,778	48
102	42,642			4	1,200	14,695	1,800	1,071	10,900	825	29,754	28,642	1,112	151,261	49
18	12,231					6,189	4,900	219	1,070		8,986	8,733	173	53,629	50
12	10,040					814	432	82	100	250	8,115	2,600	425	20,100	51
2,858	1,872,619	994	274,066	70	14,162	737,628	58,962	45,792	617,926	14,948	3,278,710	3,189,764	88,946	7,094,789	52

knit goods, 2; iron and steel forgings, 1; ironwork, architectural and ornamental, 1; jewelry, 2; leather goods, 1; lime and cement, 1; liquors, malt, 2; lumber and timber products, 1; mattresses and spring beds, 1; models and patterns, 2; musical instruments, organs and materials, 1; needles and pins, 1; oil, not elsewhere specified, 1; paints, 1; paper hanging, 2; pens, gold, 1; photographic apparatus, 1; photographic materials, 2; photolithography and photoengraving, 1; pickles preserves, and sauces, 1; plumbers' supplies, 1; regalia and society banners and emblems, 2; registers, cash, 1; sausage, 1; screws, machine, 1; shirts, 2; slaughtering and meat packing, wholesale, 1; sporting goods, 1; stencils and brands, 1; stereotyping and electrotyping, 1; sugar and molasses, refining, 1; typewriter repairing, 2; typewriters and supplies, 2; wirework, including wire rope and cable, 2.

TAUNTON.

5,235	\$2,757,650	1,541	\$511,825	326	\$62,705	\$908,180	\$41,805	\$38,606	\$751,381	\$16,888	\$5,998,237	\$5,772,053	\$221,184	\$12,594,814	1
7	8,410					1,402	1,012	15	375		6,691	6,650	41	14,350	2
23	11,628					2,570	1,910	172	483		12,603	11,621	982	48,055	3
6	2,913					2,048	1,612	59	377		6,769	6,508	261	22,595	4
57	36,070	8	2,450			6,210	2,462	418	3,330		37,011	34,508	2,503	177,250	5
79	33,375					8,163	100	712	2,840		12,591	1,255	11,336	64,985	6
139	74,194					9,613	556	202	1,105	7,750	131,937	131,532	455	259,175	7
46	26,922					4,860	816	592	3,452		84,700	84,150	550	88,165	8
3	7,130	17	7,075			6,545	2,205	15	3,275	1,050	17,793	17,000	193	47,000	9
12	7,260	3	600			1,021	780	104	181		20,370	19,655	715	39,300	10
1,599	644,695	1,254	424,863	298	56,116	266,096		48,231	222,058	807	2,661,502	2,561,023	90,479	4,598,466	11
1,679	989,336	5	1,200			200,581	520	20,192	179,819		888,516	841,393	42,123	2,636,390	12
6	2,575					689	464	20	205		4,410	4,240	170	12,060	13
192	106,247	76	28,985	19	4,928	45,388	180	4,841	40,317		366,649	346,412	10,237	623,187	14
35	19,780					3,224	158	8	58	3,000	9,742	9,722	20	40,905	15
1	400	18	6,502			8,581	3,136	65	330		23,436	23,365	121	48,050	16
6	2,820					568		203	365		7,580	7,460	120	22,700	17
15	9,585					886	705	46	135		1,340	1,262	78	18,000	18
13	12,040					3,071	60	136	275	3,200	5,840	5,735	105	28,800	19
83	48,798					3,934	2,278	261	1,895		44,620	44,352	268	124,183	20
2	845	2	625			1,396	1,624	32	240		6,622	6,562	70	16,000	21
43	24,095			1	812	3,486	1,960	211	1,315		70,939	70,554	385	131,701	22
143	71,149			2	413	15,323		2,129	13,173	621	62,698	33,982	13,716	191,333	23
80	16,785	5	2,579			6,064	2,330	563	3,171		12,393	11,013	1,380	63,300	24
6	2,900					1,232	1,026	21	185		5,918	5,797	121	14,000	25
5	3,700					847	810		87		5,355	5,265	90	13,800	26
10	5,357	4	1,250			3,331	618	34	3,179		13,663	13,575	88	30,065	27
5	2,625					1,905	1,344	46	515		2,094	2,045	49	13,140	28
980	591,916	149	35,131	6	936	307,156	12,633	24,277	269,686	560	1,604,355	1,469,772	44,583	3,206,719	29

and rivets, 1; ivory and bone work, 2; lumber and timber products, 1; lumber, planing mill products, including sash, doors, and blinds, 2; marble and stone work, 1; mattresses and spring beds, 1; millinery and lace goods, 1; oilcloth, enameled, 2; paving and paving materials, 1; plated and britannia ware, 2; printing and publishing, book and job, 2; sewing machine repairing, 1; ship and boat building, wooden, 1; silverware, 1; soap and candles, 1; stencils and brands, 1; surgical appliances, 1; taxidermy, 1; tools, not elsewhere specified, 2; wire, 1; wirework, including wire rope and cable, 2.

TABLE 8.—MANUFACTURES IN CITIES

WALTHAM.

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	275	\$9,152,169	\$109,227	\$1,114,144	\$2,779,908	\$4,848,800	279	198	\$264,588	5,392	\$2,680,929
2 Bicycle and tricycle repairing	8	7,380			1,585	5,795	9			5	2,459
3 Blacksmithing and wheelwrighting	16	27,000	5,900	5,700	8,125	7,275	18			20	11,850
4 Boots and shoes, custom work and repairing.	22	4,850			8,180	1,070	21			6	2,948
5 Bread and other bakery products	12	25,920	8,500	4,900	5,720	11,200	12	4	2,788	47	27,456
6 Carpentering	23	51,128	10,080	14,800	5,578	21,170	25			101	51,015
7 Carriages and wagons	8	41,795	4,200	6,450	13,815	17,890	9	1	780	24	16,238
8 Clothing, men's, custom work and repairing.	10	6,675			1,100	5,575	12			30	12,800
9 Clothing, women's, dressmaking	20	12,950	4,000	5,800	1,415	1,785	21			60	19,908
10 Confectionery	4	8,375			2,850	1,025	4	3	1,080	8	8,542
11 Emery wheels	3	83,513	5,000	18,732	19,425	40,858	2	6	8,788	81	16,706
12 Foundry and machine shop products	8	391,850	27,372	56,271	95,080	212,627	8	10	15,271	267	141,816
13 Furniture, cabinetmaking, repairing, and upholstering.	5	10,455	1,000	500	525	8,430	6			2	1,180
14 Lumber, planing mill products, including sash, doors, and blinds.	3	48,643	12,219	6,000	10,628	19,796	2	3	1,916	19	13,338
15 Masonry, brick and stone	17	68,005	9,450	11,500	5,895	41,160	18	5	3,930	111	67,890
16 Millinery, custom work	9	28,320	2,000	4,000	2,120	15,200	9	4	770	15	3,402
17 Monuments and tombstones	3	7,375	1,000	3,300	450	2,625	4			5	4,320
18 Painting, house, sign, etc	22	25,275	3,150	6,200	8,935	11,990	26			57	29,282
19 Photography	5	7,280			4,200	8,080	5			6	2,755
20 Plumbing, and gas and steam fitting	13	42,983	500	600	8,325	38,658	14	3	1,900	47	25,633
21 Printing and publishing, book and job.	6	14,625			11,800	3,325	6			10	5,162
22 Saddlery and harness	4	11,900		300	1,200	10,400	8	4	1,610	7	3,950
23 Ship and boat building, wooden	3	21,655	1,500	10,000	2,525	7,680	4	1	260	9	5,500
24 Tobacco, cigars and cigarettes	3	12,220			320	11,900	3			10	4,550
25 Watch, clock, and jewelry repairing	6	14,400			2,100	12,300	6			9	6,150
26 All other industries	42	8,188,197	817,856	959,591	2,578,512	4,837,238	82	154	225,545	4,486	2,162,069

<sup>1</sup> Embraces bicycles and tricycles, 2; chemicals, 1; clocks, 1; cotton goods, 1; dyeing and finishing textiles, 1; electrical construction and repairs, 1; electroplating, 1; engraving and diesinking, 1; flavoring extracts, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hosiery and knit goods, 2; house furnishing goods, not elsewhere specified, 1; iron and steel, bolts, nuts, washers, and rivets, 1; lock and gun smithing, 1; marble and stone work, 2; mineral

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1 All industries	1,071	\$42,966,743	\$9,051,618	\$5,034,905	\$11,370,932	\$23,459,238	1,106	1,430	\$1,791,000	25,593	\$12,894,781
2 Awnings, tents, and sails	3	1,900			1,140	760	3			7	1,611
3 Bicycle and tricycle repairing	18	18,250	2,220	900	8,565	6,585	20	1	420	22	13,497
4 Bicycles and tricycles	6	300,248	5,700	58,374	130,984	105,190	5	17	17,302	181	62,859
5 Blacking	8	28,214	2,024	5,770	3,183	17,237	2	3	4,700	4	6,581
6 Blacksmithing and wheelwrighting	54	101,680	33,950	20,850	22,850	24,380	60	1	400	116	71,636
7 Boot and shoe findings	3	29,400	2,400	10,000	6,800	10,200	8			49	19,604
8 Boots and shoes, custom work and repairing.	71	12,430	172	623	8,243	8,890	72	1	600	19	3,300
9 Boots and shoes, factory product	11	651,732	33,006	75,014	109,850	433,862	13	81	34,695	803	370,745
10 Bottling	13	77,150	7,200	16,200	25,885	27,865	13	12	8,590	55	34,339
11 Bread and other bakery products	23	333,518	14,000	29,600	133,346	106,572	33	59	84,161	250	117,201
12 Brooms and brushes	3	14,171	300	800	850	12,221	1	4	4,222	21	7,750
13 Carpentering	50	332,774	23,200	30,125	47,142	232,307	55	4	2,850	597	336,551
14 Carriages and wagons	9	103,693	19,165	23,500	8,350	49,578	8	3	8,320	57	34,183
15 Clothing, men's, custom work and repairing.	57	83,975			6,974	77,001	53	15	12,032	211	103,633
16 Clothing, men's, factory product	4	96,771			6,275	90,496	5			126	53,111
17 Clothing, women's, dressmaking	56	50,650	1,700	2,450	7,990	33,510	64	1	2,000	250	72,557
18 Clothing, women's, factory product	7	465,786	10,000	27,000	53,117	375,669	11	19	80,490	691	194,299
19 Confectionery	10	47,250	800	3,000	9,475	33,975	10	7	5,280	34	18,691
20 Cotton goods	3	318,373	10,000	50,090	61,446	196,837	13	13	12,018	125	48,749
21 Cutlery and edge tools	4	144,656	7,250	24,200	33,115	80,091	10	10	14,400	157	72,748
22 Dyeing and cleaning	5	3,610			2,605	1,005	7	2	375	9	5,015
23 Dyeing and finishing textiles	3	98,678	11,600	35,796	13,800	37,482	1	6	3,318	76	39,484
24 Electrical apparatus and supplies	4	35,929			9,354	26,575	4	2	1,600	21	6,440
25 Electrical construction and repairs	4	28,244		160	700	27,444	3	9	3,595	33	17,261
26 Electroplating	6	19,300	2,600	5,200	6,800	4,700	8			27	16,220
27 Engraving and diesinking	4	7,300			5,150	2,150	6			20	13,043
28 Engraving, wood	3	19,950			1,850	18,100	4			13	7,000
29 Envelopes	5	1,218,315	72,594	256,892	402,902	436,427	1	48	43,910	555	214,332
30 Firearms	3	374,681	14,200	51,000	144,506	164,875	1	12	16,570	632	302,214
31 Flavoring extracts	4	12,732	1,500	7,000	732	3,500	4	1	450	1	350
32 Food preparations	3	271,050	500	300	85,597	184,653	2	19	34,300	145	66,268
33 Foundry and machine shop products	90	9,044,947	1,093,338	1,183,426	2,194,902	4,568,281	85	249	443,038	4,777	2,751,857
34 Furniture, cabinetmaking, repairing, and upholstering.	17	34,659	1,500	1,200	12,713	19,246	16	2	1,416	58	33,904
35 Hairwork	3	5,675			525	5,050	3	1	500	3	2,200
36 Hand stamps	3	2,050			1,750	300	3			2	750

BY SPECIFIED INDUSTRIES: 1900—Continued.

WALTHAM.

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.										
8,263	\$1,881,046	2,095	\$748,889	84	\$5,994	\$671,780	\$30,368	\$98,809	\$480,388	\$108,215	\$2,817,792	\$2,217,269	\$100,523	\$8,934,381	1
6	2,039					2,225	957	60	1,118	90	6,877	6,739	138	14,945	2
20	11,850					1,921	1,424	217	280		11,266	10,020	1,246	39,805	8
6	2,948					2,867	2,726	16	125		7,784	7,642	142	24,926	4
42	26,164	5	1,292			5,401	8,118	224	2,050		62,131	60,268	1,868	118,886	5
101	51,015					81,648	786	429	1,814	28,669	189,635	189,521	114	258,590	6
24	16,228					7,508	1,016	163	2,897	3,902	14,848	13,421	927	38,875	7
16	7,740					8,754	2,708	65	281	700	17,152	16,927	225	42,850	8
		60	19,908			2,460	2,085	125	299		22,408	22,240	168	64,255	9
6	2,922	2	620			1,955	1,760	41	154		6,524	6,319	205	17,460	10
81	16,706					4,250	450	988	2,812		17,884	14,572	3,312	61,197	11
200	189,490	7	2,326			9,828		2,472	7,276	80	95,651	87,566	8,085	820,371	12
2	1,180					956	882	54	520		2,105	2,060	25	7,625	13
19	13,828					1,941		298	1,643		22,849	19,549	3,300	62,000	14
111	57,390					47,456	774	384	6,013	40,255	56,742	56,549	198	184,700	15
		15	3,402			3,635	3,170	111	351		29,124	29,039	85	48,860	16
5	4,220					2,600	233	125	42	2,200	3,417	3,404	13	14,600	17
57	29,282					3,258	1,543	209	1,501		16,694	16,585	109	71,675	18
4	1,830	2	925			2,266	1,840	54	372		5,730	5,690	40	18,800	19
47	25,633					3,927	2,684	171	1,022	50	71,390	71,035	355	124,120	20
8	4,086	2	1,076			1,400	906	144	385	15	9,195	8,686	509	25,421	21
7	3,950					1,000	752	127	121		9,205	9,010	195	20,250	22
9	5,500					2,494	200	185	453	1,656	4,003	3,792	211	18,900	23
9	4,360	1	800			1,152	232	55	865		3,912	3,870	42	11,640	24
9	6,150					2,292	1,407	160	525	200	5,052	5,010	42	20,900	25
2,465	1,447,035	1,987	708,980	84	5,994	523,591	8,284	86,932	397,977	80,398	1,676,714	1,597,735	78,979	5,309,230	26

and soda waters, 2; musical instruments, organs and materials, 1; paper and wood pulp, 1; paper hanging, 2; patent medicines and compounds, 2; paving and paving materials, 2; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; screws, machine, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; tools, not elsewhere specified, 2; watch and clock materials, 2; watches, 2; window shades, 1.

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20,421	\$11,431,473	4,589	\$1,336,473	583	\$126,838	\$4,258,926	\$452,388	\$281,664	\$9,280,681	\$294,193	\$26,666,176	\$25,798,828	\$867,348	\$68,348,783	1
2	576	5	1,035			1,172	623	4	520	25	4,822	4,182	140	10,965	2
21	13,197			1	300	4,211	3,046	117	698	850	17,451	16,877	574	52,387	3
168	59,480	18	8,889			27,368	3,890	2,788	20,695		93,745	88,940	4,805	264,249	4
2	1,611	2	970			1,084	500	222	362		9,934	9,748	186	18,579	5
116	71,036					14,725	12,156	968	1,601		48,978	45,870	3,108	209,613	6
39	16,900	10	2,700			2,768	1,040	278	1,460		60,205	65,905	900	98,650	7
19	8,803					8,014	7,444	42	528		25,145	24,292	853	78,398	8
516	276,097	281	108,048	6	600	78,440	11,105	7,758	50,941	8,825	1,053,140	1,038,112	15,028	1,610,605	9
54	34,439	1	600			20,610	5,060	661	14,189		210,626	209,026	600	867,017	10
154	92,871	77	22,033	10	2,800	36,687	21,575	2,795	12,317		377,962	368,334	9,628	700,089	11
11	4,750	10	3,000			1,580	800	164	566		21,919	21,509	410	43,692	12
597	886,064					227,377	5,834	1,686	11,003	208,254	787,940	783,522	4,418	1,600,129	13
57	34,199					6,182	3,004	1,023	2,035	100	85,904	83,887	2,017	115,497	14
132	85,211	78	24,883	1	104	38,494	24,124	521	6,729	2,120	105,740	104,010	1,730	330,825	15
88	24,852	88	28,259			4,316	2,560	611	1,145		164,426	168,845	581	230,100	16
7	5,096	241	67,261	2	200	14,989	11,820	128	2,816	175	72,142	71,206	936	215,645	17
46	22,790	645	171,509			16,548	7,140	3,035	6,378		446,562	443,352	3,210	853,018	18
29	16,344	5	2,250			7,803	6,067	217	1,519		46,289	45,624	665	93,042	19
81	16,625	94	32,124			19,069	2,843	678	15,548		296,194	291,518	4,676	416,662	20
136	66,198	21	6,550			8,172	2,800	1,367	4,005		48,338	44,608	3,730	175,819	21
6	3,260	3	1,755			2,402	998	23	1,381		2,063	1,490	573	13,775	22
67	87,874	9	2,612			8,601		1,105	7,496		61,062	51,569	10,003	141,919	23
21	6,430					1,782	784		823		15,394	14,995	399	31,811	24
33	17,261					1,191	640	222	329		50,635	56,530	105	92,550	25
26	14,920	1	800			2,094	1,300	156	688		4,894	3,210	1,184	29,198	26
19	12,784			1	260	2,304	1,225	140	988		9,295	8,815	480	33,750	27
13	7,000					1,078	740	55	233		2,717	2,602	115	27,050	28
172	103,294	381	110,875	2	363	93,787	2,990	6,861	33,936		610,363	606,649	3,714	1,150,829	29
631	801,614	1	600			46,929	4,320	3,835	38,774		116,957	110,492	5,465	649,751	30
				1	850	1,887	276		126		11,288	11,288	45	112,730	31
96	55,668	49	10,600			227,574	8,914	314	218,346		235,172	228,773	11,399	658,730	32
4,789	2,739,299	29	10,655	9	1,993	586,986	65,255	65,111	426,306	81,024	8,621,439	8,486,190	135,249	8,492,636	33
49	30,759	9	3,145			6,860	4,940	149	1,771		87,152	85,965	1,187	112,730	34
		8	2,200			989	760	42	187		6,860	6,800	60	16,000	35
2	750					738	483	15	285		1,619	1,548	71	5,850	36

TABLE 8.—MANUFACTURES IN CITIES

WORCESTER—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.
87 Hardware	8	\$378,248	\$18,516	\$50,232	\$61,141	\$253,859	2	6	\$9,294	189	\$81,707
88 Iron and steel, nails and spikes, cut and wrought, including wire nails.	4	164,017	10,000	15,000	70,836	62,681	4	11	12,520	67	28,566
89 Lasts	3	56,817	1,000	5,175	21,288	23,359	3	3	2,898	86	23,277
40 Leather goods	3	107,749		800	23,250	84,199	6	39	22,593	150	74,820
41 Lock and gun smithing	10	5,655			4,810	1,345	11	1	54	4	2,126
42 Looking-glass and picture frames	7	12,550	500	700		10,600	7	1	500	11	5,695
43 Lumber, planing mill products, including sash, doors, and blinds.	8	253,406	41,125	76,825	60,371	75,585	1	17	18,430	152	72,512
44 Marble and stone work	8	508,362	159,450	43,650	106,475	193,787	7	11	27,684	418	252,868
45 Masonry, brick and stone	41	864,328	111,650	89,800	73,270	139,608	47	7	6,312	740	886,437
46 Mattresses and spring beds	3	103,920	27,500	15,000	8,920	62,500	2	4	2,008	87	33,009
47 Millinery, custom work	21	48,330				47,445	20	2	1,520	99	85,638
48 Mineral and soda waters	6	22,300			10,800	12,000	10	1	1,000	18	6,070
49 Models and patterns	4	18,214			8,296	9,918	4	1	312	23	13,923
50 Monuments and tombstones	7	120,637	35,000	23,750	28,144	39,343	8	1	950	29	28,319
51 Musical instruments, organs and materials.	3	270,211	18,000	23,720	88,140	195,351	7	7	18,800	255	132,334
52 Optical goods	5	29,813	8,600	10,392	10,978	4,848	6	8	4,000	48	16,650
53 Painting, house, sign, etc	95	61,179	1,590	1,950	11,231	46,348	89	6	8,060	211	122,077
54 Paper hanging	3	3,165			9	3,076	3	7		25	19,320
55 Patent medicines and compounds	7	31,860	1,500	5,500	4,010	20,850	7	4	7,900	25	19,184
56 Paving and paving materials	3	53,750	9,200	9,700	21,200	13,650	4	4	7,500	75	81,314
57 Photography	18	35,299			18,384	16,915	20	6	8,644	45	23,693
58 Plumbing, and gas and steam fitting	88	191,035	4,500	4,000	14,676	167,859	51	15	14,788	210	135,078
59 Printing and publishing, book and job	81	195,351	250	325	138,817	56,459	84	7	13,013	148	34,552
60 Printing and publishing, newspapers and periodicals.	14	181,452			111,703	69,749	10	114	66,604	276	183,238
61 Roofing and roofing materials	5	33,369	400	1,000	7,860	24,109	6	3	6,000	70	37,524
62 Saddlery and harness	12	33,330	1,100	400	1,955	30,375	12	3	2,000	34	23,540
63 Sausage	3	7,900	600	2,000	2,900	2,400	4	2	1,200	14	8,355
64 Screws, machine	4	483,577	15,000	35,000	142,009	246,568	4	27	27,423	459	198,329
65 Shirts	3	0,368			1,700	4,668	4	1	3,300	25	11,175
66 Stamped ware	3	84,169			12,772	21,397	1	3	8,300	28	16,740
67 Tinsmithing, coppersmithing, and sheet-iron working.	13	119,021	3,218	54,300	28,437	37,566	16	2	800	40	27,580
68 Tobacco, cigars and cigarettes	16	49,052	100	350	2,720	45,882	18	5	5,012	84	47,863
69 Tools, not elsewhere specified	6	154,992	200	300	56,925	97,567	7	4	9,500	100	53,676
70 Watch, clock, and jewelry repairing	25	25,638			9,094	16,594	28	2		21	10,708
71 Wirework, including wire rope and cable.	11	1,076,013	98,420	185,500	262,534	523,659	6	96	92,974	970	895,422
72 Wood, turned and carved	4	4,325			3,050	1,275	6			4	1,933
73 Woolen goods	11	1,104,691	77,049	96,775	178,033	752,744	7	22	41,889	855	334,800
74 Worsted goods	3	452,447	2,250	10,760	102,044	337,403	3	8	5,171	237	71,323
75 All other industries <sup>1</sup>	104	21,811,462	1,047,981	2,445,199	6,095,473	12,222,309	90	422	608,997	9,140	4,661,363

<sup>1</sup> Embraces agricultural implements, 2; belting and hose, leather, 2; billiard tables and materials, 2; bookbinding and blank book making, 2; boot and shoe out stock, 2; boxes, cigar, 1; boxes, fancy and paper, 1; boxes, wooden packing, 2; brass, 1; brass castings and brass finishing, 2; brick and tile, 2; bronze castings, 1; calcium lights, 1; carpets and rugs, other than rag, 2; carriage and wagon materials, 1; cars, street railroad, not including operations of railroad companies, 1; china decorating, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 1; corsets, 2; cotton small wares, 2; dentists' materials, 1; druggists' preparations, not including prescriptions, 2; emery wheels, 2; engraving, steel, including plate printing, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; files, 2; fire extinguishers, chemical, 1; flouring and grist mill products, 2; fur goods, 1; fur hats, 1; furniture, factory product, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 2; hand knit goods, 1; hats and caps, not including fur hats and wool hats, 2; hosiery and knit goods, 1;

TABLE 9.—MANUFACTURES IN CITIES AND

		7,404	\$190,317,701	\$10,511,864	\$29,242,189	\$40,621,742	\$109,941,906	8,072	5,513	\$9,630,393	131,274	\$58,674,605
1	Total for cities and towns											
2	Abington	67	758,395	9,800	104,000	126,998	517,597	77	56	52,962	1,569	713,181
3	Adams	107	6,646,981	915,265	1,187,949	3,058,359	2,085,408	114	56	125,374	3,315	1,224,459
4	Amesbury	152	2,949,565	144,375	376,288	587,915	1,840,937	191	75	68,212	2,947	1,027,222
5	Amherst	67	550,085	24,041	104,708	134,572	295,764	71	22	21,560	525	253,006
6	Andover	57	2,096,294	94,500	311,516	251,944	1,438,334	68	48	53,602	1,103	430,212
7	Arlington	90	406,128	18,674	62,625	122,509	202,320	97	20	18,922	323	197,669
8	Athol	129	1,722,593	133,850	258,969	493,178	836,598	142	104	95,398	1,455	668,445
9	Attleboro	179	5,333,100	164,240	713,384	1,783,355	3,181,491	233	278	237,177	5,106	2,854,880
10	Beverly	227	2,552,955	78,987	160,002	667,056	1,646,910	236	116	76,073	2,310	1,390,066
11	Blackstone	23	5,023,339	523,937	710,101	567,754	3,217,397	16	51	32,687	1,742	776,201
12	Bridgewater	54	866,911	42,305	114,035	160,320	549,751	55	39	39,339	898	478,881
13	Brookfield	35	393,859	14,600	12,050	59,080	303,129	33	10	8,500	455	202,800
14	Canton	59	2,214,623	202,470	517,375	405,949	1,038,229	68	85	103,062	749	339,893
15	Chicopee	122	6,595,302	449,495	1,179,121	1,814,499	3,152,687	129	123	163,509	4,331	1,633,362
16	Clinton	104	7,038,744	160,322	1,281,765	1,374,147	8,341,940	111	85	116,312	4,021	1,600,948
17	Dalton	33	1,724,323	53,015	534,328	313,135	818,695	36	53	85,633	846	351,101
18	Danvers	90	1,398,334	60,040	119,555	295,020	954,219	109	51	53,671	974	439,432
19	Dedham	96	777,098	112,125	108,952	133,394	392,627	96	15	12,431	678	305,824
20	Dudley	18	1,373,291	307,151	301,350	261,423	1,107,867	14	30	45,690	1,195	437,177
21	Easthampton	68	2,300,366	93,100	383,534	655,542	1,168,190	62	45	93,021	1,714	658,933

BY SPECIFIED INDUSTRIES: 1900—Continued.

WORCESTER—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.										
140	\$61,494	1	\$178	42	\$20,095	\$42,818	\$866	\$1,850	\$40,102		\$60,096	\$56,702	\$3,394	\$217,710	37
59	26,082	5	1,384	8	1,100	6,830	1,800	1,838	8,147		421,176	417,652	8,624	542,200	38
30	28,277					8,210	8,400	444	3,766	\$600	11,502	10,268	1,284	67,516	39
96	57,400	54	17,120			42,092	6,100	1,042	84,950		94,284	93,619	665	304,563	40
8	1,606	1	620			1,865	1,888	17	860	100	8,915	8,649	266	16,050	41
11	5,595					2,512	1,287	106	1,119		14,744	14,689	105	82,075	42
150	71,612	2	1,000			10,580	8,000	2,710	4,870		139,461	137,161	2,800	268,405	43
418	252,863					19,687	600	1,961	12,212	4,914	486,552	482,029	4,523	911,969	44
740	885,437					40,435	1,928	8,835	80,972	3,700	608,207	605,356	2,851	1,280,958	45
57	28,406	30	14,603			10,292	1,895	1,050	7,847		134,000	132,580	1,420	242,249	46
		95	84,568	4	465	12,248	9,108	865	2,775		106,149	105,586	563	189,349	47
11	6,820			2	250	4,177	1,741	163	2,231		9,188	8,715	468	84,588	48
29	18,929					3,803	2,180	127	1,536		9,164	8,462	702	89,155	49
36	26,810					4,517	760	698	8,059		19,931	19,116	815	74,957	50
206	114,838	49	17,496			21,424	6,985	2,604	12,885		148,235	144,885	3,400	382,486	51
86	15,650	7	1,000			4,822	2,080	85	2,707		11,235	9,688	1,547	88,600	52
211	122,077					9,298	5,917	333	8,013		69,154	68,570	584	258,045	53
20	18,820					1,244	528	37	679		9,315	9,245	70	20,137	54
17	7,674	8	6,500			3,437	2,000	192	1,245		14,645	14,570	75	99,750	55
75	81,814					1,840	200	888	1,807		29,699	25,794	3,965	104,400	56
28	18,878	17	5,316			10,989	8,889	149	1,951		21,049	20,593	456	91,089	57
210	185,078					19,803	12,742	1,438	5,573		318,306	316,394	1,912	625,268	58
132	78,617	11	6,168	5	707	35,514	9,278	915	17,487	7,834	84,629	81,280	3,399	271,625	59
259	179,703	16	8,276	1	250	81,897	16,932	2,093	57,854	5,018	109,743	101,296	8,447	490,869	60
70	87,524					1,637	1,231	116	290		108,307	108,047	260	212,820	61
34	23,540					8,940	2,800	264	876		27,651	27,474	177	78,522	62
13	8,680	1	175			4,280	860	140	3,280		58,179	52,144	1,035	75,500	63
405	183,603	54	15,226			41,014	9,252	2,172	29,590		161,119	162,902	8,217	546,495	64
2	1,375	23	9,800			978	940	18	20		18,107	12,847	260	20,377	65
28	16,740					3,036	2,260	225	601		18,875	18,085	840	42,023	66
49	27,580					5,262	2,536	532	2,144		46,930	45,973	957	112,501	67
66	42,197	14	4,336	4	830	17,480	2,647	599	14,210	24	47,848	47,074	274	142,200	68
103	53,520			1	156	18,867	7,440	2,291	8,186	1,000	54,543	53,035	1,507	189,975	69
21	10,708					7,717	6,763	48	906		11,005	10,605	400	47,599	70
686	325,479	262	59,371	81	10,572	66,910	3,862	8,264	44,784		775,626	756,232	19,394	1,581,047	71
4	1,988					613	524	19	70		3,108	2,512	596	8,811	72
471	209,025	364	121,907	20	3,813	71,394	11,000	6,349	38,915	15,130	920,451	885,929	34,522	1,558,297	73
86	39,506	115	26,633	86	5,689	16,628	4,511	1,752	10,360		291,855	274,674	17,181	464,973	74
7,340	4,204,767	1,399	380,224	392	76,372	2,094,411	67,946	181,105	1,890,360	5,000	12,419,331	11,914,132	505,199	22,745,505	75

house furnishing goods, not elsewhere specified, 1; instruments, professional and scientific, 1; iron and steel, 1; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, forgings, 1; ironwork, architectural and ornamental, 2; japanning, 1; jewelry, 1; leather, tanned, curried, and finished, 1; linen goods, 1; liquors, malt, 2; lithographing and engraving, 1; musical instruments and materials, not specified, 2; musical instruments, pianos and materials, 2; oil, not elsewhere specified, 2; paints, 2; paper goods, not elsewhere specified, 1; paper hangings, 1; perfumery and cosmetics, 1; photographic materials, 2; plastering and stuccowork, 1; plumbers' supplies, 2; refrigerators, 2; regalia and society banners and emblems, 1; show cases, 1; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 1; sporting goods, 1; surgical appliances, 1; taxidermy, 1; trunks and valises, 1; umbrellas and canes, 2; upholstering materials, 1; vinegar and cider, 1; woodenware, not elsewhere specified, 2.

TOWNS UNDER 20,000 IN POPULATION: 1900.

92,956	\$46,822,280	35,105	\$11,200,743	3,213	\$591,482	\$11,394,382	\$1,007,685	\$1,830,600	\$8,001,461	\$1,045,686	\$133,761,916	\$130,754,263	\$3,007,658	\$245,245,235	1
1,109	582,076	349	147,405	110	3,700	56,423	3,362	4,558	48,208	800	1,712,764	1,702,662	10,102	2,684,644	2
1,997	818,358	1,252	388,363	156	32,743	251,319	7,132	52,517	168,284	23,336	1,839,969	1,719,983	119,986	4,189,239	3
1,662	844,464	621	172,079	64	10,679	227,659	38,992	19,250	169,205	5,222	2,090,449	2,033,800	56,649	3,898,251	4
820	172,510	204	81,283	1	113	73,716	4,972	8,327	24,187	41,230	716,093	699,710	16,383	1,316,143	5
658	314,100	341	113,226	79	8,886	110,106	8,247	17,369	75,490	9,000	1,078,222	1,050,208	28,019	1,888,326	6
292	188,006	27	8,322	4	771	53,915	18,192	2,881	17,213	20,629	268,934	257,181	11,753	681,010	7
1,016	526,904	421	133,996	13	7,545	119,906	11,128	11,364	85,895	11,519	1,307,815	1,201,410	16,405	2,549,704	8
3,570	1,839,469	1,472	502,117	64	18,294	359,736	62,631	31,862	232,033	33,160	4,106,820	4,039,166	67,654	9,442,752	9
2,097	1,153,485	667	223,184	46	8,447	215,536	43,100	9,340	87,537	75,449	2,546,186	2,511,818	34,368	4,963,752	10
1,243	619,018	421	148,793	78	18,885	36,602	1,139	23,457	57,003	3	2,850,300	2,807,061	43,239	6,593,641	11
705	422,485	127	54,704	6	1,192	43,933	4,107	5,451	31,875	2,500	1,300,927	1,257,679	43,248	2,076,377	12
334	163,737	115	37,849	0	1,214	33,067	13,436	1,490	18,191	10	544,591	523,174	16,417	809,420	13
501	262,436	244	76,695	4	768	33,339	4,732	12,004	66,113	990	929,509	874,246	55,263	1,650,829	14
2,495	1,160,573	1,716	486,742	120	21,047	433,337	15,416	75,345	331,426	11,150	5,666,713	5,585,075	81,633	8,704,907	15
2,469	1,049,994	1,423	513,455	189	37,497	222,973	18,957	69,437	121,529	18,000	2,918,952	2,822,526	96,426	5,446,768	16
423	225,609	414	123,092	11	2,400	143,454	4,870	16,890	121,594	100	726,946	685,780	41,166	1,619,191	17
760	416,741	197	68,971	17	3,720	39,659	7,008	6,686	56,367	19,538	1,756,846	1,728,719	33,127	2,664,936	18
516	255,942	151	44,825	11	2,057	43,846	6,363	9,901	27,008	484	687,550	655,172	32,378	1,260,125	19
675	233,366	436	137,687	34	13,124	108,027	1,716	12,224	94,087		1,018,132	992,322	25,810	1,661,973	20
914	408,260	776	245,388	24	6,285	113,403	4,978	23,001	83,392	2,032	1,452,605	1,433,527	19,078	2,609,753	21

TABLE 9.—MANUFACTURES IN CITIES 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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
22 Easton	46	\$1,244,991	\$48,650	\$372,219	\$95,262	\$728,960	50	28	\$30,042	706	\$310,991
23 Fairhaven	47	829,491	84,990	46,450	110,279	138,072	49	13	7,331	313	170,096
24 Foxboro	45	308,048	6,402	37,633	83,112	180,901	49	18	20,008	491	221,853
25 Framingham	144	3,092,662	259,640	538,891	601,661	1,692,470	159	88	75,551	2,475	1,018,339
26 Franklin	51	1,823,556	101,500	249,672	882,195	1,090,189	49	42	48,208	888	397,846
27 Gardner	118	6,073,152	204,255	725,197	602,677	4,481,023	128	120	130,892	3,088	1,209,492
28 Grafton	49	1,938,007	106,875	396,850	642,027	793,255	50	42	56,398	1,256	404,723
29 Great Barrington	94	1,436,891	72,290	212,978	990,836	730,297	96	37	49,547	1,010	415,547
30 Greenfield	141	1,725,880	69,000	180,805	829,643	1,145,832	147	99	95,080	1,223	551,650
31 Groveland	11	708,941	14,973	126,838	68,416	605,165	11	8	7,700	416	172,808
32 Hardwick	16	1,442,618	31,350	431,750	466,575	513,943	16	14	28,550	755	289,932
33 Hinsdale	14	840,045	7,345	45,050	84,631	253,019	13	6	8,684	250	88,995
34 Hopdale	4	3,031,796	65,047	686,860	981,032	1,895,807	6	60	107,181	1,464	790,439
35 Hudson	74	1,615,192	49,025	162,300	279,618	1,129,589	76	48	66,321	1,571	769,025
36 Hyde Park	127	3,740,053	280,725	680,020	845,250	1,928,058	119	109	155,920	2,792	1,317,684
37 Ipswich	64	826,419	57,269	70,233	142,923	546,989	58	18	24,216	843	382,277
38 Lee	71	1,200,509	211,300	220,675	960,294	417,240	76	42	59,611	620	274,004
39 Leicester	20	970,246	56,661	181,800	243,024	538,761	18	13	16,217	647	266,210
40 Leominster	167	3,987,611	289,485	638,544	683,821	2,438,781	201	158	167,179	3,623	1,600,180
41 Mansfield	52	557,480	24,760	93,808	110,311	328,001	59	23	51,314	571	274,840
42 Marblehead	100	469,850	25,682	68,113	134,144	241,920	124	15	11,476	1,032	411,372
43 Marlboro	142	2,191,860	141,769	365,505	941,108	1,811,478	144	74	100,752	2,780	1,304,361
44 Maynard	43	2,349,645	403,425	450,050	411,775	1,075,395	42	26	68,517	838	315,480
45 Medford	141	1,328,106	255,039	255,039	259,171	500,113	149	65	78,862	968	487,793
46 Melrose	106	3,296,048	160,937	256,745	226,622	2,651,744	134	84	88,068	1,428	695,422
47 Merrimac	40	252,812	17,950	27,850	27,543	180,569	47	9	10,140	252	114,739
48 Methuen	74	1,203,412	84,982	268,292	267,389	582,749	86	21	23,931	726	302,334
49 Middleboro	110	1,034,730	71,706	133,796	233,121	596,107	131	51	34,870	1,081	510,724
50 Millford	129	1,240,782	66,435	149,835	394,033	630,449	161	84	76,202	1,554	778,141
51 Millbury	54	1,047,807	56,972	177,468	293,139	620,318	52	18	18,240	694	270,862
52 Milton	58	201,284	32,750	50,550	78,421	120,563	64	10	5,392	335	189,920
53 Monson	43	600,481	80,040	133,200	165,280	302,961	51	14	17,850	523	254,068
54 Montague	60	2,653,695	216,018	723,343	757,359	958,575	58	47	81,039	1,208	654,186
55 Natick	154	1,061,320	84,580	139,505	214,650	672,685	178	40	30,149	1,502	723,137
56 Newburyport	195	3,863,199	125,712	480,862	791,436	2,465,689	192	212	206,247	3,076	1,326,719
57 Northampton	214	2,728,140	148,800	451,095	798,791	1,929,454	235	103	112,875	2,406	1,140,655
58 North Andover	34	1,225,212	41,170	264,460	230,471	639,111	34	34	41,492	873	420,053
59 North Attleboro	116	2,014,999	86,340	120,827	695,335	1,153,447	145	150	157,509	2,162	1,160,052
60 Northbridge	31	3,826,408	94,973	328,037	769,077	2,134,371	33	44	143,384	2,643	1,130,404
61 North Brookfield	51	962,164	24,061	78,300	69,292	790,511	54	33	52,935	1,307	643,835
62 Norwood	53	2,437,949	114,177	229,800	342,411	1,752,061	55	48	51,832	1,511	859,242
63 Orange	81	2,770,120	84,400	191,784	601,744	1,892,192	79	82	116,118	1,315	635,682
64 Palmer	78	3,104,049	73,150	546,261	771,632	1,713,006	78	63	71,039	3,053	1,251,902
65 Peabody	161	4,437,229	273,200	687,191	706,678	2,770,160	185	148	150,379	2,881	1,384,123
66 Randolph	54	441,070	14,425	83,365	85,990	257,281	59	25	24,582	725	359,150
67 Reading	72	455,247	50,875	64,650	135,930	203,792	90	20	21,014	448	188,645
68 Revere	82	502,819	39,305	214,880	94,425	104,209	89	9	8,704	255	133,129
69 Rockland	31	998,324	22,824	154,300	210,294	611,408	90	58	51,905	1,071	515,374
70 Rockport	41	787,225	213,793	61,189	256,797	205,446	45	23	28,513	566	255,634
71 Salisbury	11	11,970	1,000	2,100	5,945	2,925	11	11		14	6,988
72 Shelburne	38	132,063	10,200	22,525	62,529	86,809	33	6	5,284	90	39,098
73 Southbridge	109	4,269,353	272,191	551,246	941,674	2,504,247	112	67	94,454	2,871	1,225,061
74 South Hadley	24	758,186	67,233	206,797	128,850	355,301	26	23	28,198	254	109,352
75 Spencer	31	1,519,234	73,324	75,687	270,151	1,094,072	33	67	45,924	1,665	613,917
76 Stoneham	94	822,071	47,175	92,250	195,814	487,332	103	64	76,831	1,290	544,213
77 Stoughton	56	2,125,321	46,825	189,050	321,255	1,568,191	59	40	43,336	1,071	451,274
78 Wakefield	97	3,209,070	133,568	362,323	297,026	2,416,158	81	81	100,394	1,616	784,614
79 Walpole	44	2,010,335	99,606	326,594	517,645	1,066,540	40	89	137,051	684	379,345
80 Ware	100	3,284,599	181,899	688,851	595,379	1,818,470	104	48	64,220	2,777	979,340
81 Warren	39	1,879,663	77,300	314,577	310,705	676,981	84	22	22,771	1,027	420,594
82 Watertown	105	4,549,242	520,513	791,612	1,204,990	2,032,127	106	184	178,235	2,304	1,180,099
83 Webster	33	3,733,575	50,695	364,375	534,496	2,784,009	87	51	52,332	2,430	870,214
84 Westboro	57	948,047	9,233	101,490	169,685	677,639	59	19	18,456	843	383,538
85 Westfield	186	4,345,372	238,900	487,339	1,104,258	2,514,375	138	258	327,644	2,841	1,229,613
86 West Springfield	41	984,945	34,624	482,904	99,337	318,080	41	38	60,816	626	345,776
87 Weymouth	130	4,427,328	239,733	386,191	605,888	3,196,021	153	213	237,150	1,998	911,502
88 Whitman	65	2,054,315	217,089	258,032	1,543,219	2,762,523	72	102	100,377	2,059	1,032,021
89 Wilbraham	15	711,426	62,825	135,721	156,796	356,084	18	9	19,460	171	31,103
90 Williamstown	38	816,368	98,870	238,484	234,407	243,807	41	12	12,619	365	141,864
91 Winchendon	53	1,454,853	76,634	317,636	341,606	718,977	69	33	33,760	1,233	492,582
92 Winchester	52	3,724,461	62,395	264,728	634,814	2,762,523	55	124	133,098	1,155	666,661
93 Winthrop	48	106,445	22,150	27,850	18,575	38,370	47	3	1,490	113	60,643
94 Woburn	123	2,983,705	33,762	361,043	536,278	1,952,622	133	56	65,217	1,596	757,870

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

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
588	\$280,280	89	\$25,902	29	\$4,812	\$23,910	\$3,849	\$5,822	\$9,701	\$5,088	\$808,925	\$781,893	\$22,032	\$1,523,467	22
284	159,181	28	10,861	1	104	22,757	1,793	3,094	17,870	1,255	120,508	118,101	3,407	408,099	23
229	125,842	262	96,516			87,240	13,080	2,164	20,741	45,572	859,607	843,509	16,098	777,219	24
1,349	693,398	1,078	816,036	48	8,905	187,797	23,145	26,054	93,026		2,010,281	1,980,305	29,976	3,714,732	25
595	803,668	277	89,974	16	4,204	87,825	7,478	8,464	11,388		954,409	927,014	27,395	1,680,011	26
2,686	1,177,979	388	119,559	9	1,954	198,615	11,202	41,774	136,689	9,950	2,454,237	2,398,680	55,557	4,763,863	27
672	283,102	608	168,016	76	15,611	94,408	3,722	16,371	74,310		927,357	907,667	20,290	1,708,342	28
742	844,510	247	66,916	21	4,121	108,012	17,714	10,035	64,792	15,501	832,032	810,597	15,435	1,071,574	29
997	487,492	198	59,808	28	4,755	95,786	16,616	10,821	53,872	14,477	884,443	861,497	32,946	2,093,852	30
243	122,245	127	39,214	45	10,840	34,119	159	4,502	29,468		594,025	559,809	34,216	857,735	31
500	223,380	209	57,902	46	8,650	72,493	840	10,038	59,485	2,575	691,854	648,498	42,856	1,173,776	32
193	42,717	84	23,510	13	2,159	19,602	450	2,560	16,583		275,638	263,028	7,610	494,627	33
1,458	789,019	6	1,420			128,682	200	7,603	115,879		1,214,335	1,199,750	14,645	3,819,747	34
1,051	556,406	493	206,152	27	7,067	15,025	15,025	11,163	125,293	3,250	2,440,180	2,424,890	15,790	3,621,187	35
2,077	1,120,542	696	192,991	19	4,151	157,816	12,112	29,212	113,102		2,747,589	2,687,170	60,419	5,007,409	36
471	265,891	341	111,248	81	5,188	142,440	2,138	7,872	34,616	97,820	481,886	469,801	12,085	1,194,826	37
424	227,597	195	46,251	1	166	71,200	2,613	9,945	58,025	717	483,569	439,479	44,090	1,168,328	38
876	181,570	246	79,483	25	5,157	89,781	9,168	7,452	28,161		641,288	610,408	21,880	1,063,669	39
2,499	1,211,616	1,137	379,248	47	9,322	368,417	26,408	28,412	289,502	83,095	2,886,707	2,911,865	75,342	5,850,174	40
412	232,352	159	42,488			25,428	2,263	3,485	15,053	4,037	485,531	475,376	10,155	1,036,804	41
748	382,401	289	78,971			35,175	9,809	2,917	15,865	6,500	811,180	801,691	9,489	1,410,406	42
1,791	967,714	900	315,630	89	20,918	183,801	22,410	13,995	144,983	2,413	3,057,414	3,036,251	21,163	4,980,399	43
666	262,048	221	73,466	51	9,966	48,569	2,781	13,331	28,817	3,670	839,742	807,430	26,313	1,534,003	44
881	464,016	72	22,849	12	1,029	117,441	18,721	19,887	74,708	15,125	896,400	847,822	48,688	1,907,624	45
865	503,410	549	183,675	14	2,328	466,120	10,919	45,858	388,173	11,170	2,403,576	2,382,952	20,623	3,945,580	46
250	114,864	2	375			16,924	4,033	1,815	11,076		200,791	195,649	5,142	381,793	47
467	215,559	243	81,764	26	5,611	81,815	7,140	10,305	53,794	10,106	694,506	668,850	26,166	1,273,320	48
845	424,641	227	84,881	9	1,202	101,421	16,745	7,800	90,016	10,200	1,239,425	1,276,673	16,852	2,299,916	49
1,102	615,760	420	150,081	82	7,853	103,886	22,632	9,084	70,635	1,625	1,636,739	1,610,884	20,355	3,071,493	50
439	200,406	280	65,544	25	4,912	43,455	6,830	10,597	27,218	200	579,605	567,805	21,800	8,012,294	51
290	177,740	41	11,555	4	625	31,278	5,854	1,263	9,286	17,375	271,787	265,866	5,921	675,798	52
355	164,591	163	69,127	5	888	64,498	2,888	4,037	58,118		410,372	400,799	9,573	767,123	53
887	466,851	264	75,451	57	11,884	118,604	4,435	91,446	76,903	850	847,819	784,096	118,223	1,085,693	54
1,059	603,361	897	179,869	16	2,904	146,366	12,922	5,621	32,775	85,050	2,094,150	2,078,744	15,406	3,296,777	55
2,073	1,040,916	961	279,516	42	6,257	358,728	80,222	21,859	289,021	17,626	3,258,571	3,212,283	46,288	5,685,703	56
1,795	946,451	581	187,818	30	6,386	274,017	35,969	19,888	175,481	42,663	1,974,433	1,911,826	68,107	4,198,486	57
1,791	868,906	139	47,307	17	8,810	70,511	1,386	14,072	56,519	4,540	655,002	630,459	24,643	1,345,589	58
1,458	882,003	694	295,967	10	2,082	187,057	89,724	10,455	82,493	4,475	1,009,569	1,074,869	25,103	3,930,731	59
2,106	987,075	434	123,127	108	20,292	77,821	2,269	26,893	48,659		1,140,798	1,088,623	52,175	3,028,601	60
917	533,552	344	106,560	16	3,723	79,458	3,209	7,684	66,605	2,000	2,078,095	2,063,096	9,999	3,018,676	61
1,321	302,639	186	55,593	4	950	208,085	19,011	12,265	151,797	25,012	1,823,433	1,797,642	25,796	3,848,974	62
1,003	578,100	207	51,256	15	2,326	132,429	7,630	24,100	93,676	7,123	1,217,293	1,204,045	13,248	2,602,253	63
2,223	1,027,332	718	206,400	107	18,200	143,333	5,647	22,247	111,429	1,000	2,575,330	2,497,322	78,008	4,489,036	64
2,703	1,332,558	174	50,726	4	842	245,618	82,758	24,459	174,326	14,150	4,683,297	4,491,464	91,833	7,261,647	65
550	293,591	168	64,040	7	1,519	27,307	4,723	2,106	19,578	900	903,917	896,726	8,191	1,426,890	66
283	139,375	162	48,394	3	876	92,050	8,278	3,927	20,745		534,621	523,810	11,811	944,422	67
248	130,486	5	2,112	2	531	26,757	2,804	2,804	12,366	6,070	170,181	159,390	10,791	451,215	68
791	421,544	241	86,430	39	8,000	112,435	6,775	5,305	100,355		1,863,959	1,851,029	12,930	2,383,972	69
501	253,818	5	1,816			94,300	1,460	5,810	27,120		142,397	132,240	10,157	694,755	70
14	6,988					578	107	51	420		8,248	7,971	277	24,325	71
70	84,556	12	4,040	2	500	7,053	2,398	564	4,066	25	50,112	48,692	2,020	140,575	72
1,959	961,783	748	241,425	194	21,856	222,267	10,336	87,880	185,451	38,600	1,947,000	1,884,004	62,996	3,854,638	73
141	79,543	113	29,809			95,564	1,117	9,918	23,020	1,500	238,361	217,197	21,164	622,810	74
1,172	473,926	434	126,713	59	13,278	92,632	18,196	10,945	59,414	4,075	1,812,515	1,799,407	13,018	2,784,904	75
761	353,173	517	185,175	22	5,805	75,708	12,162	8,323	64,088	4,150	1,894,999	1,881,518	13,481	2,856,919	76
681	346,915	367	99,700	23	4,650	161,183	4,410	10,818	121,862	24,093	1,621,417	1,490,404	22,013	2,297,798	77
1,227	655,274	382	128,366	7	1,001	220,168	3,237	18,600	82,472	110,859	1,854,259	1,830,435	23,818	2,954,656	78
622	353,148	58	16,988	4	814	173,320	7,666	8,599	152,855	4,300	825,216	793,558	56,658	1,973,398	79
1,514	652,939	1,084	294,403	179	32,588	127,775	4,388	31,470	74,497	13,220	2,119,738	2,071,533	47,695	3,081,039	80
786	351,698	276	72,223	15	2,673	54,434	2,921	12,405	38,778	830	688,187	659,156	29,031	1,276,574	81
1,466	837,059	800	287,438	88	5,602	170,191	17,006	23,261	119,186	10,678	3,811,808	3,752,973	58,835	6,074,002	82
1,668	659,769	655	187,333	167	23,142	280,796	18,850	12,513	240,424	3,000	2,447,448	2,357,482	87,966	4,086,267	83
642	312,679	201	70,907			91,752	9,402	2,051	27,799	500	1,037,315	1,077,193	10,122	1,789,298	84
2,080	1,040,371	583	182,895	28	6,877	328,542	39,753								

# MICHIGAN.

Table 1 shows the manufacturing and mechanical industries of the state of Michigan as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing 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	16,807	12,127	8,873	9,455	8,448	2,088	35.6	36.7	16.2	174.2	69.6
Capital	\$284,097,133	\$202,412,240	\$92,930,959	\$71,712,283	\$23,893,226	\$6,568,660	8.8	182.4	29.6	201.2	262.7
Salaried officials, clerks, etc., number	13,858	15,267	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	19.2				
Salaries	\$12,562,855	\$11,864,892	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	10.5				
Wage-earners, average number	162,855	148,674	77,591	63,694	23,190	9,844	9.2	91.6	21.8	174.7	148.2
Total wages	\$66,467,867	\$54,982,906	\$25,818,682	\$21,205,955	\$6,785,047	\$2,717,124	20.9	117.2	19.4	214.9	147.9
Men, 16 years and over	186,627	183,176	68,445	58,847	22,144	8,990	2.6	94.6	17.8	168.5	146.8
Wages	\$60,885,081	\$51,932,652	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	17.1				
Women, 16 years and over	23,092	12,857	4,784	2,941	1,046	854	79.6	168.8	62.7	181.2	195.5
Wages	\$5,239,149	\$2,720,453	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	92.6				
Children, under 16 years	2,636	2,641	4,802	2,406	( <sup>3</sup> )	( <sup>3</sup> )	10.2	189.5	81.8		
Wages	\$393,637	\$329,801	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	19.4				
Miscellaneous expenses	\$25,495,423	\$18,348,381	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	39.0				
Cost of materials used	\$199,559,905	\$154,521,918	\$92,900,269	\$68,142,515	\$17,685,611	\$6,186,328	29.1	60.8	86.8	286.4	187.4
Value of products, including custom work and repairing	\$356,944,082	\$277,896,706	\$150,715,025	\$118,394,676	\$32,658,356	\$11,169,002	28.4	84.4	27.8	262.5	192.4
Total population	2,420,982	2,093,889	1,686,937	1,184,059	749,118	897,654	15.6	27.9	83.2	58.1	88.4
Wage-earners engaged in manufactures	162,855	148,674	77,591	63,694	23,190	9,844	9.2	91.6	21.8	174.7	148.2
Per cent of total population	6.7	7.1	4.7	5.4	3.1	2.8					
Assessed value of real estate	\$1,017,071,648	\$789,690,151	\$482,861,884	\$224,663,687	\$123,605,084	\$25,580,371	37.5	70.9	92.7	81.8	888.2
Value of land and buildings invested in manufactures <sup>4</sup>	\$78,074,887	\$85,827,515	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	19.0				
Per cent of assessed value	7.7	11.6									

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members with their salaries; number only reported in 1900. (See Table 7.)

<sup>3</sup> Not reported separately.

<sup>4</sup> Not reported.

<sup>5</sup> From assessed valuation made by the Boards of Supervisors, June sessions, 1901.

<sup>6</sup> Does not include value of rented property.

Table 1 shows that there has been a large growth in the manufacturing and mechanical industries of Michigan during the half century. The population during these years increased from 397,654 to 2,420,982, while the average number of wage-earners employed in manufacturing establishments increased from 9,844 to 162,855, embracing, in 1900, 6.7 per cent of the entire population, compared with 2.8 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 232,853, or 9.6 per cent of the total population of the state.

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

The decrease between 1880 and 1890 in the number of children employed under 16 years of age was 39.5 per cent; during the decade ending with 1900 it was two-tenths of 1.0 per cent. This is attributed to the factory act of 1889, with its later amendments, and to the compulsory school law of 1895.<sup>1</sup> No child under 14 can be employed in any manufacturing establishment. A register containing a sworn statement of the name, age, birthplace, and residence of all employees under 16 must be kept by the employer, to be open to official inspection. The number of women employed over 16 years of age has increased rapidly during the last two decades, a natural result of the increase in the number of industries in which women are employed.

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

<sup>1</sup> Report of the Michigan Bureau of Labor Statistics, 1898, Appendix, pages 2 and 3.

<sup>2</sup> History of Michigan, by J. H. Lanman, page 233.

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

<sup>1</sup>History of Detroit and Michigan, by Silas Farmer, page 925.

<sup>2</sup>Michigan Pioneer and Historical Collections, Vol. III, page 283.

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

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

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

<sup>3</sup>United States Geological Survey: Mineral Resources, 1890, Metallic Products, Coal, and Coke, page 463.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	20,222	\$285,845,087	22,354	163,836	\$66,536,992	\$25,574,235	\$199,906,716	\$48,707,099	\$142,698,419	\$8,501,198	\$358,022,727
Hand trades <sup>1</sup>	6,779	8,231,512	7,661	15,591	7,005,853	1,775,193	11,159,812	132,211	10,720,293	306,368	26,661,198
Educational, eleemosynary, and penal institutions	8	517,594		28	8,054	4,823	86,883	500	77,915	8,468	220,343
Establishments with a product of less than \$500	8,407	1,280,360	8,674	1,453	61,071	73,989	259,928	24,282	235,046		858,302
All other establishments	10,028	275,865,621	11,019	146,764	59,462,014	23,719,230	188,400,593	48,550,106	181,664,625	8,185,862	830,282,881

<sup>1</sup>Includes bicycle and tricycle repairing, 810; blacksmithing and wheelwrighting, 1,830; boots and shoes, custom work and repairing, 696; carpentering, 521; clothing, men's, custom work and repairing, 703; clothing, women's, dressmaking, 367; dyeing and cleaning, 50; furniture, cabinetmaking, repairing, and upholstering, 172; lock and gun smithing, 42; masonry, brick and stone, 163; millinery, custom work, 705; painting, house, sign, etc., 404; paper hanging, 31; plastering and stuccowork, 39; plumbing, and gas and steam fitting, 295; sewing machine repairing, 7; taxidermy, 3; watch, clock, and jewelry repairing, 438.

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

\$27,519,500, or only 7.7 per cent of the total value of the products of the state.

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

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Boxes, wooden packing	2	\$20,125	Lumber and timber products	17	\$427,772
Brick and tile	20	185,890	Lumber, planing mill products, including sash, doors, and blinds	4	42,300
Chemicals	2	185,000	Matches	1	40,000
Cheese, butter, and condensed milk, factory product	10	18,945	Musical instruments, pianos and materials	2	27,000
Cooperage	1	50,000	Paper and wood pulp	2	34,307
Flouring and grist mill products	11	87,100	Patent medicines and compounds	1	25,000
Foundry and machine shop products	7	36,865	Paving and paving materials	1	49,746
Fruits and vegetables, canning and preserving	7	73,025	Saddlery and harness	1	15,000
Furniture, factory product	2	80,460	Salt	2	30,800
Grease and tallow	1	50,000	Tin and terra plate	1	523,259
Iron and steel	6	688,981	All other industries	83	63,485
Lime and cement	2	226,141			
Liquors, malt	8	76,551			

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 1890	3,818 3,950	\$172,225,897 208,569,092	81,980 98,141	\$35,561,887 33,384,125	\$11,527,459 11,007,927	\$110,989,509 111,504,780	\$189,517,713 184,268,704
Increase, 1890 to 1900		<sup>1</sup> 132	<sup>1</sup> 31,343,195	<sup>1</sup> 11,161	2,177,762	519,532	<sup>1</sup> 515,271	5,249,009
Per cent of increase		3.3	15.4	12.0	6.5	4.7	10.5	2.8
Per cent of total of all industries in state	1900 1890	22.7 32.6	60.6 77.6	50.5 62.6	53.5 60.7	45.2 60.0	55.6 72.2	53.1 66.3
Agricultural implements	1900 1890	59 65	8,982,344 6,944,005	1,944 1,585	952,636 759,340	1,329,630 547,244	2,482,285 1,047,579	6,389,508 3,955,306
Carriages and wagons	1900 1890	299 407	7,995,269 5,311,833	4,890 2,898	2,028,530 1,282,627	495,520 263,967	6,616,081 2,770,806	11,205,602 5,699,941
Cars and general shop construction and repairs by steam railroad companies	1900 1890	42 17	2,527,256 1,220,163	3,938 2,098	2,026,000 1,119,487	39,642	2,120,166 1,482,487	4,332,927 2,645,314
Cars, steam railroad, not including operations of railroad companies	1900 1890	4 5	6,693,209 3,769,483	3,187 3,723	1,409,580 1,565,557	227,774 245,560	7,272,761 3,007,974	9,920,780 11,078,281
Chemicals	1900 1890	51 4	7,503,853 2,415,685	2,897 1,315	1,162,634 513,490	503,732 438,424	2,707,464 1,219,045	5,864,724 3,880,388
Flouring and grist mill products	1900 1890	765 544	7,983,587 8,472,852	1,423 1,852	718,499 757,088	396,484 528,927	19,924,960 19,462,779	23,593,991 22,778,829
Foundry and machine shop products	1900 1890	864 260	19,595,771 14,331,924	13,502 7,892	6,527,496 4,124,997	1,540,950 682,510	8,222,862 5,491,366	20,615,864 13,363,030
Furniture, factory product	1900 1890	124 116	13,900,789 9,328,956	11,870 8,688	4,570,713 3,702,977	375,069 781,256	6,727,878 4,268,801	14,614,506 10,767,088
Iron and steel	1900 1890	10 19	3,859,050 6,696,541	1,972 1,427	941,001 755,361	197,827 369,163	3,770,213 4,135,991	5,902,058 5,829,348
Leather, tanned, curried, and finished	1900 1890	27 20	5,214,042 1,200,982	1,427 937	559,142 163,176	248,297 52,774	4,697,367 1,278,315	6,015,590 1,748,760
Liquors, malt	1900 1890	77 78	6,235,484 3,963,163	980 687	599,319 419,489	2,402,652 787,785	1,187,770 998,123	5,298,825 2,979,258
Lumber and timber products	1900 1890	1,705 2,124	67,379,698 129,467,072	26,199 54,308	11,122,030 15,548,333	2,328,961 5,748,166	29,439,931 49,418,374	54,290,520 33,121,969
Lumber, planing mill products, including sash, doors, and blinds	1900 1890	235 230	8,571,453 6,701,437	5,281 4,788	2,012,754 1,983,252	509,857 361,111	8,341,334 6,151,535	12,469,532 10,007,603
Paper and wood pulp	1900 1890	27 81	4,505,741 2,712,773	2,014 1,219	700,326 519,432	264,373 192,302	2,707,827 1,711,436	4,217,869 2,919,166
Slaughtering:								
Total	1900 1890	29 30	1,438,351 1,026,223	450 329	230,637 163,089	87,201 58,738	4,770,640 3,446,164	5,337,417 3,998,978
Slaughtering and meat packing, wholesale	1900 1890	8 10	1,205,151 802,463	375 263	136,473 133,555	76,650 45,299	3,325,734 2,631,053	3,724,781 3,069,298
Slaughtering, wholesale, not including meat packing	1900 1890	21 20	178,200 223,760	81 66	44,164 34,534	10,632 13,439	1,444,906 762,111	1,612,656 929,680

<sup>1</sup>Decrease.

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

Table 3 shows that the manufacture of lumber and timber products is the most important industry in the state. The 1,705 establishments reported in 1900 gave employment to 26,199 wage-earners, or 16.1 per cent of the wage-earners employed in the state, and the products were valued at \$54,290,520, or 15.2 per cent of the total value of the products of the state. In 1890 there were 2,124 establishments, 54,308 wage-earners, and products valued at \$33,121,969. The decrease in the value of products during the decade was \$28,831,449, or 34.7 per cent.

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

<sup>1</sup>One Hundred Years of American Commerce, Vol. I, page 197.

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

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

There were 364 establishments engaged in 1900 in the manufacture of foundry and machine shop products, the industry third in rank, with 13,502 wage-earners, and products valued at \$20,615,864. In 1890 there were 260 establishments, 7,892 wage-earners, and products valued at \$13,363,030. The increase in the value of products during the decade was \$7,252,834, or 54.8 per cent. This industry is well distributed throughout the state. In addition to the principal centers, which are Detroit and contiguous towns on the Detroit River, Grand Rapids, Saginaw, Bay City, and Jackson, there are many other centers of growing importance, including Battle Creek, Kalamazoo, Lansing, Muskegon, Manistee, and Marquette.

There were 124 establishments engaged in the factory manufacture of furniture in 1900, with 11,870 wage-earners, and products valued at \$14,614,506. In 1890 there were 116 establishments, 8,688 wage-earners, and products valued at \$10,767,038. The increase in the value of products during the decade was \$3,847,468, or 35.7 per cent. Grand Rapids is conspicuous as one of the great furniture centers

of the world. Second in the state stands Detroit, and the industry is carried on also in Muskegon, Saginaw, Owosso, Holland, Pentwater, Bingham, Sturgis, Plymouth, and Big Rapids. There is a tendency toward localization and an increase in the size of establishments, notably at Grand Rapids, the value of whose furniture products in 1900 was \$7,494,607. The first cabinet shop in that city is said to have been established in 1849 by Abraham Snively.<sup>2</sup> Abundant waterpower, and a river draining areas covered with both pine and hard wood, gave the industry a sudden and rapid growth. Although the waterpower is now of much less importance, and the timber is becoming exhausted, so that large quantities are imported, the impetus given by these early natural advantages has been maintained by the utilization of new resources. The most important of these are the unique method of sale by photographs, the invention and use of special furniture cars, and the establishment of great semiannual fairs at Grand Rapids. Buyers are thus attracted from a widely extended area, and the tendency toward centralization is accentuated.<sup>3</sup>

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

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

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

<sup>2</sup>Report of the Michigan Bureau of Labor Statistics, 1900, page 69.

<sup>3</sup>Ibid., page 76.

<sup>1</sup>Bulletins of Farmers' Institutes, 1896-1897, page 38.

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

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

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

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

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

There were 29 establishments engaged in slaughtering and meat packing in 1900, with 456 wage-earners, and products valued at \$5,337,417. In 1890 there were 30 establishments, 329 wage-earners, and products valued at \$3,998,978. The increase in the value of products during the decade was \$1,338,439, or 33.5 per cent. Prior to

1890 this industry was inconsiderable, but it has had a favorable development during the last decade. The chief centers are Detroit and Bay City.

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

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

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

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

#### URBAN MANUFACTURES.

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

<sup>1</sup>Blois' Gazetteer, 1838, page 110.

## STATISTICS OF MANUFACTURES.

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

	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State	1900	16,807	\$284,097,133	162,855	\$66,467,867	\$25,495,423	\$199,559,905	\$356,944,082
	1890	12,127	262,412,240	148,674	54,982,906	18,348,381	154,521,918	277,896,706
Per cent of increase		38.6	8.3	9.2	20.9	39.0	29.1	28.4
Bay City	1900	376	5,645,525	3,807	1,466,328	385,641	3,820,599	7,087,624
	1890	331	9,654,415	4,208	1,576,059	518,771	5,018,587	9,069,312
Per cent of increase		13.6	-41.5	-21.8	-17.0	-25.7	-24.2	-21.9
Detroit	1900	2,847	71,751,198	45,707	18,718,081	10,844,958	52,349,347	100,892,838
	1890	1,746	45,041,167	34,595	15,490,171	5,947,307	41,360,058	77,351,546
Per cent of increase		63.1	59.3	32.8	20.8	82.4	26.6	30.4
Grand Rapids	1900	824	23,483,760	14,361	5,904,670	1,950,456	12,348,978	24,824,042
	1890	869	15,945,947	11,869	5,279,617	1,289,458	9,891,615	19,851,181
Per cent of increase		-5.2	47.0	21.0	11.8	51.3	31.5	25.1
Jackson	1900	291	4,617,656	4,206	1,666,680	480,757	4,223,891	7,587,526
	1890	220	4,979,444	3,258	1,128,557	337,634	2,782,640	5,376,347
Per cent of increase		32.3	-7.3	29.1	47.7	42.4	51.8	41.1
Muskegon	1900	200	4,602,390	3,235	1,185,697	386,488	2,681,279	5,097,959
	1890	301	9,863,819	3,888	1,608,298	478,391	4,795,251	8,278,160
Per cent of increase		-33.6	-53.3	-16.7	-26.3	-19.2	-45.1	-38.4
Saginaw	1900	430	7,558,806	4,866	1,936,558	594,269	5,816,287	10,031,499
	1890	395	12,406,823	5,305	2,271,623	667,399	6,587,703	11,308,000
Per cent of increase		43.3	-39.1	-8.3	-14.8	-11.0	-11.7	-11.2
Total for 6 cities	1900	5,018	117,609,330	75,682	30,878,014	14,642,569	81,180,331	155,523,588
	1890	3,802	97,891,615	63,053	27,855,020	9,238,960	69,900,914	131,229,582
Per cent of increase		32.0	20.1	20.0	12.9	58.5	16.1	18.5
Per cent of 6 cities to total for state	1900	29.9	41.4	46.6	46.5	57.4	40.7	43.6
	1890	31.4	37.3	42.4	49.8	50.4	45.3	47.2

1 Decrease.

It appears from Table 4 that there has been an increase during the past decade in the combined manufactures of these 6 cities. The number of establishments increased from 3,802 to 5,018, or 32.0 per cent; the average number of wage-earners from 63,053 to 75,682, or 20.0 per cent; and the value of products from \$131,229,582 to \$155,523,588, or 18.5 per cent. The percentage of increase in the number of establishments and the value of products has been smaller in these 6 cities than in the state as a whole. Jackson shows the most rapid growth, the value of products having increased from \$5,376,347 in 1890 to \$7,587,526 in 1900, or 41.1 per cent. In Detroit, the leading manufacturing city, the number of establishments increased from 1,746 to 2,847, or 63.1 per cent; the number of wage-earners from 34,535 to 45,707, or 32.3 per

cent; and the value of products from \$77,351,546 to \$100,892,838, or 30.4 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 16.9, 28.2, and 28.3 per cent, respectively, of the totals for the state. In Bay City, Muskegon, and Saginaw, lumber manufacturing, which shows a decline during the decade, has been the dominant industry. The decrease in the value of products, in cities shown in Table 4, is limited to these 3 cities.

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

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		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	16,807	\$284,097,133	18,680	162,855	\$66,467,867	\$25,495,423	\$199,559,905	\$356,944,082	100.0		2,420,982	100.0	
Total for urban manufactures	9,679	188,972,294	10,560	117,504	43,809,184	21,053,456	127,606,208	213,448,473	68.2		883,544	36.5	
Adrian	166	1,756,050	191	1,151	499,879	164,186	1,041,707	2,424,678	17	0.7	9,651	22	0.4
Albion	61	1,420,593	70	520	221,913	118,988	803,379	1,080,426	34	0.3	4,519	38	0.2
Allegan	54	1,123,453	66	184	63,371	15,195	218,375	363,278	53	0.1	2,007	50	0.1
Alpena	93	2,533,476	120	1,094	420,334	126,462	1,476,613	2,445,896	16	0.7	11,802	17	0.5
Ann Arbor	231	1,304,694	273	1,187	462,181	209,967	1,238,260	2,340,138	18	0.7	14,509	11	0.6
Au Sable	6	9,880	6	38	17,700	621	25,644	57,725	68	(1)	1,116	62	(1)
Battle Creek	177	7,354,492	180	2,823	1,079,934	1,467,100	2,351,015	6,763,203	7	1.9	18,563	9	0.8
Bay City	976	5,645,525	493	3,807	1,466,328	385,641	3,820,599	7,087,624	6	2.0	27,628	4	1.1
Benton Harbor	89	1,215,244	88	700	217,166	65,208	787,546	1,269,243	30	0.4	6,562	29	0.3
Bessemer	27	87,975	25	43	23,992	6,552	70,659	141,466	62	(1)	8,911	48	0.2

1 Less than one-tenth of 1 per cent.

TABLE 5.—URBAN MANUFACTURES—Continued.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Big Rapids	59	\$554,666	64	451	\$180,285	\$82,089	\$401,545	\$761,634	39	0.2	4,686	37	0.2
Cadillac	43	2,553,064	86	788	962,660	104,701	1,364,339	2,164,787	21	0.6	5,997	32	0.2
Charlotte	65	980,900	82	327	120,069	23,351	285,638	523,317	47	0.1	4,092	42	0.2
Cheloboygan	61	1,845,540	69	665	280,188	118,522	1,051,807	1,730,843	24	0.6	6,480	30	0.3
Chelsea	40	207,550	47	183	70,415	8,705	124,785	293,462	55	0.1	1,635	60	0.1
Coldwater	119	1,925,720	132	846	924,389	104,750	1,200,058	1,935,543	23	0.5	6,216	31	0.3
Detroit	2,847	71,751,193	3,123	45,707	18,718,081	10,841,958	52,349,347	100,892,838	1	28.3	285,704	1	11.8
Dowagiac	71	1,215,933	81	667	333,495	103,828	601,115	1,389,216	25	0.4	4,151	41	0.2
East Tawas	23	193,176	24	71	25,636	14,758	61,713	170,310	59	(1)	1,736	59	0.1
Eaton Rapids	40	124,037	44	90	30,232	8,418	156,541	246,919	57	0.1	2,103	55	0.1
Flint	154	2,605,428	174	2,186	895,186	262,549	3,006,436	5,198,827	8	1.5	13,108	15	0.5
Grand Haven	56	576,910	64	633	194,473	49,427	417,929	826,105	37	0.2	4,743	36	0.2
Grand Rapids	824	23,433,760	877	14,361	5,904,670	1,950,456	12,848,978	24,824,042	2	7.0	87,665	2	3.6
Greenville	90	542,117	107	388	170,356	82,346	452,704	851,688	36	0.2	3,381	48	0.1
Hastings	57	350,792	66	317	126,772	37,413	382,062	601,046	40	0.2	3,172	49	0.1
Hillsdale	88	606,278	96	382	152,337	27,701	1,047,550	1,381,462	26	0.4	4,151	41	0.2
Hudson	74	395,090	85	227	106,360	29,077	610,162	610,162	43	0.2	2,403	59	0.1
Ironwood	47	163,030	52	134	66,288	8,371	108,224	250,463	56	0.1	9,795	21	0.4
Ishpeming	55	192,887	60	191	97,256	17,540	186,010	404,916	61	0.1	13,255	13	0.5
Jackson	291	4,617,656	309	4,206	1,666,680	480,757	4,223,801	7,587,526	5	2.1	25,180	6	1.0
Kalamazoo	268	5,796,195	279	4,293	1,617,299	624,914	4,257,010	8,056,908	4	2.3	24,404	6	1.0
Lansing	164	2,018,219	188	1,575	647,788	188,327	3,114,831	2,827,842	14	0.8	16,485	10	0.7
Ludington	61	1,852,865	56	763	350,674	83,810	1,488,854	2,188,412	20	0.6	7,166	26	0.3
Manistee	140	6,608,707	133	1,745	772,354	265,974	1,840,430	3,886,420	12	1.1	14,260	12	0.6
Marine City	38	249,362	44	148	69,582	14,847	173,740	293,537	64	0.1	3,829	44	0.2
Marquette	78	1,565,390	87	645	344,930	186,411	1,123,736	2,005,486	22	0.6	10,058	19	0.4
Marshall	86	461,692	97	336	141,280	135,842	322,095	820,254	38	0.2	4,370	39	0.2
Menominee	90	5,451,446	88	1,068	912,016	287,816	2,615,523	4,685,324	10	1.3	12,818	16	0.5
Monroe	86	374,889	97	372	139,505	40,001	632,495	42,405	42	0.2	5,043	35	0.2
Mt. Clemens	78	403,273	92	328	130,212	48,410	220,980	533,207	46	0.1	6,576	28	0.3
Mt. Pleasant	58	242,593	51	262	90,626	18,178	187,163	389,916	52	0.1	3,662	45	0.2
Muskegon	200	4,602,390	203	3,235	1,185,697	385,488	2,631,279	5,097,059	9	1.4	20,818	7	0.9
Negaunee	32	68,467	34	68	35,874	5,583	57,417	143,432	61	(1)	6,935	27	0.3
Niles	78	901,507	73	620	223,603	29,273	781,415	1,183,793	32	0.3	4,237	40	0.2
Otsego	28	631,776	27	458	143,282	56,385	358,713	663,451	41	0.2	2,073	56	0.1
Owosso	111	1,685,715	114	1,260	513,275	118,087	1,380,506	2,265,493	19	0.6	8,696	24	0.4
Pontiac	106	1,393,867	114	1,315	512,161	96,587	1,754,532	2,793,499	15	0.8	9,769	20	0.4
Port Huron	186	3,301,954	189	2,417	1,119,320	249,995	2,078,806	4,298,743	11	1.2	19,158	8	0.8
Reed City	55	272,790	69	260	103,051	30,567	201,483	536,451	45	0.1	2,051	57	0.1
Saginaw	480	7,558,806	505	4,866	1,936,558	594,269	5,816,237	10,084,409	3	2.8	42,345	3	1.7
St. Clair	36	395,180	37	238	101,995	21,351	279,689	515,968	48	0.1	2,543	51	0.1
St. Johns	59	476,258	63	295	95,469	27,507	304,482	539,252	44	0.2	3,388	47	0.1
St. Joseph	75	954,419	81	933	353,591	73,343	606,969	1,308,277	29	0.4	5,155	34	0.2
St. Louis	37	60,040	42	47	16,306	4,183	149,854	60	(1)	1,989	68	0.1	
Sault Ste. Marie	84	723,936	102	472	262,582	56,234	491,004	1,166,700	33	0.3	10,538	18	0.4
Sturgis	56	337,252	66	323	120,507	14,401	233,542	478,093	49	0.1	2,465	62	0.1
Tawas City	11	161,715	17	108	48,440	3,518	173,715	173,715	58	0.1	1,228	61	(1)
Tearnsch	61	261,815	65	293	123,348	24,863	190,394	429,085	50	0.1	2,400	54	0.1
Three Rivers	67	561,558	66	491	201,438	49,347	828,266	1,238,245	31	0.3	3,550	46	0.1
Traverse City	80	1,004,531	94	878	374,396	53,601	629,634	1,362,860	27	0.4	9,407	23	0.4
West Bay City	121	2,323,910	124	2,153	868,594	214,327	2,294,668	3,763,523	13	1.1	13,119	14	0.5
Wyandotte	60	679,947	63	493	187,822	88,743	542,419	956,055	35	0.3	5,133	33	0.2
Ypsilanti	110	898,161	121	681	233,013	95,235	725,907	1,318,793	28	0.4	7,378	25	0.3
Total for state exclusive of urban manufactures	7,128	95,124,839	8,120	44,851	18,158,638	4,436,967	71,953,697	113,495,009		31.8	1,597,438		63.5
Per cent of urban manufactures to total for state	57.6	66.5	56.5	72.4	72.7	82.6	63.9	68.2			36.5		

<sup>1</sup> Less than one-tenth of 1 per cent.

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

wagon materials; Port Huron for engines, machinery, steel ships, and wood pulp; and Lansing for agricultural implements, beet sugar, carriages and wagons, display fixtures, furniture, stoves, and wheelbarrows. Products of some of these industries are exported.

Table 6 shows the totals for the state by counties.

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

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

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

TABLE 6.—MANUFACTURES

COUNTIES.	Number of establishments.	CAPITAL.					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.
<b>1 The State</b> .....	16,807	\$284,097,183	\$42,830,900	\$35,243,987	\$68,117,259	\$137,904,987	18,680	13,858	\$12,562,855	162,355	\$66,467,867
2 Alcona.....	21	303,977	119,146	10,950	44,250	195,681	23	11	9,165	162	73,007
3 Alger.....	23	3,060,066	1,692,296	162,175	236,567	969,023	21	31	56,115	950	430,030
4 Allegan.....	234	1,348,336	191,377	250,133	310,591	563,235	59	39,164	964	313,951	
5 Alpena.....	113	2,631,491	260,367	338,911	636,035	1,390,173	136	61	48,951	1,066	445,914
6 Antrim.....	70	3,072,897	946,190	398,449	454,129	1,274,129	75	60	63,799	1,519	565,384
7 Arenac.....	51	363,436	83,790	27,680	84,531	217,435	58	12	11,300	303	130,030
8 Baraga.....	14	3,291,042	2,288,300	78,150	190,647	733,945	16	22	29,083	212	96,859
9 Barry.....	170	689,042	43,430	109,004	192,078	344,535	188	24	17,584	638	218,310
10 Bay.....	507	9,694,433	914,911	1,479,398	2,847,039	4,453,085	601	340	327,023	5,977	2,555,876
11 Benzie.....	60	651,387	191,072	84,675	154,713	280,927	71	20	16,911	340	137,333
12 Berrien.....	300	3,981,020	416,084	559,907	1,394,628	1,610,401	415	238	198,296	2,847	1,006,643
13 Branch.....	241	3,143,311	803,859	423,020	1,332,064	581,368	276	111	91,927	1,164	444,112
14 Calhoun.....	407	9,469,280	461,243	951,308	1,288,130	6,775,539	459	638	517,824	3,235	1,493,738
15 Cass.....	140	1,423,680	97,940	89,125	146,651	1,089,964	173	74	55,966	756	372,817
16 Charlevoix.....	84	1,913,946	60,325	60,325	354,374	656,306	100	38	29,315	655	283,766
17 Cheboygan.....	96	2,295,145	309,411	216,072	464,880	1,304,782	114	41	43,774	858	351,521
18 Chippewa.....	117	3,604,217	1,730,458	200,330	518,068	1,154,861	182	103	90,813	1,364	682,933
19 Chisago.....	69	417,067	86,067	29,290	81,650	220,025	80	10	8,940	393	154,868
20 Clinton.....	169	321,801	33,305	142,830	229,385	411,284	197	24	25,235	471	162,109
21 Crawford.....	17	632,352	424,385	10,750	67,860	179,367	22	5	4,400	232	111,355
22 Delta.....	98	4,194,778	1,338,746	416,899	676,806	1,762,327	98	81	116,708	2,184	1,057,534
23 Dickinson.....	63	713,126	58,311	83,500	128,933	440,352	60	21	22,143	305	143,103
24 Eaton.....	212	890,280	99,820	180,463	275,251	328,625	250	71	47,684	878	349,042
25 Emmet.....	102	1,277,674	356,525	131,531	217,967	568,601	130	44	32,216	674	302,110
26 Genesee.....	399	3,205,723	183,886	383,945	549,082	2,128,810	412	123	93,785	2,511	1,027,679
27 Gladwin.....	27	356,030	130,100	14,160	75,775	129,995	37	7	4,638	164	63,140
28 Gogebic.....	75	262,465	39,135	27,800	53,275	148,255	77	10	10,720	180	91,480
29 Grand Traverse.....	123	1,614,684	334,986	170,276	349,948	689,374	143	63	50,692	1,152	505,709
30 Grant.....	150	1,183,406	101,453	177,710	433,177	469,064	176	31	16,245	605	208,741
31 Hillsdale.....	264	970,340	60,693	170,962	288,849	449,936	303	68	45,949	696	277,514
32 Houghton.....	145	4,473,748	846,083	1,523,771	824,285	1,279,609	130	92	97,066	2,611	1,752,312
33 Huron.....	128	792,717	150,545	123,975	321,975	304,287	152	24	16,785	403	155,643
34 Ingham.....	203	2,447,046	158,001	365,487	711,892	1,210,605	345	184	143,224	1,859	740,749
35 Ionia.....	218	2,501,373	146,570	461,394	684,063	1,303,346	237	93	77,467	1,662	516,382
36 Iosco.....	60	1,552,927	303,688	461,394	458,914	500,560	76	40	32,148	608	262,153
37 Iron.....	46	587,556	103,985	28,000	73,790	381,781	40	15	26,250	291	149,213
38 Isabella.....	120	491,570	38,565	57,917	141,116	213,972	129	30	20,705	492	166,853
39 Jackson.....	417	5,021,548	305,241	726,530	1,029,704	2,960,073	447	402	871,972	4,336	1,709,741
40 Kalamazoo.....	344	6,458,838	544,627	703,880	1,682,539	3,622,786	371	638	460,892	4,493	1,684,685
41 Kalamazoo.....	34	326,948	60,380	73,055	163,963	163,963	50	15	10,712	363	138,019
42 Kent.....	992	24,664,064	2,068,004	3,679,396	6,024,641	12,892,023	1,070	1,268	1,230,703	16,015	6,141,139
43 Lake.....	20	47,651	8,171	4,675	10,875	18,230	21	2	900	41	18,002
44 Laapeer.....	177	572,059	35,706	117,259	189,779	235,235	201	14	9,368	322	112,675
45 Leelanaw.....	86	846,380	24,605	62,277	248,833	320,577	46	13	12,855	457	103,303
46 Lenawee.....	491	3,278,642	234,077	543,983	755,848	1,744,734	665	263	171,073	2,194	911,738
47 Livingston.....	114	447,399	92,010	109,486	121,468	184,435	133	8	6,600	210	91,127
48 Luce.....	8	804,938	21,568	15,150	94,981	173,241	2	15	15,198	204	97,911
49 Mackinac.....	21	613,835	79,060	15,450	75,109	444,216	31	19	15,820	241	134,350
50 Macomb.....	206	856,137	109,310	192,169	229,333	325,325	239	28	17,504	613	241,577
51 Manistee.....	180	10,098,163	3,133,374	556,075	1,010,864	4,497,840	170	145	160,352	3,037	1,330,054
52 Marquette.....	172	2,159,486	631,685	278,124	421,373	823,301	187	70	80,201	1,011	525,404
53 Mason.....	95	2,347,234	577,634	179,275	503,175	1,087,150	97	44	44,415	930	433,361
54 Mecosta.....	116	743,011	92,172	121,489	193,416	335,934	133	25	18,468	586	232,360
55 Menominee.....	121	6,938,898	2,007,890	524,159	1,039,755	3,307,163	128	137	175,051	2,985	1,303,985
56 Midland.....	66	401,802	36,542	85,503	132,340	147,417	82	21	18,660	250	114,532
57 Missaukee.....	50	337,425	94,800	20,210	76,005	146,410	55	11	7,080	291	99,822
58 Monroe.....	204	966,519	213,582	147,485	269,339	336,113	231	40	20,357	609	246,702
59 Montcalm.....	200	1,181,629	175,183	126,355	223,376	656,745	231	55	50,522	819	391,410
60 Montmorency.....	22	665,663	270,590	8,820	66,965	319,248	29	5	5,850	237	86,625
61 Muskegon.....	267	6,524,197	1,253,558	729,125	1,288,673	3,252,811	265	237	226,056	4,827	1,712,559
62 Newaygo.....	47	270,136	19,337	30,027	51,690	169,032	56	3	2,110	109	43,771
63 Oakland.....	350	2,916,637	105,971	496,771	839,731	1,414,164	379	155	124,364	2,621	743,231
64 Oceana.....	92	532,373	71,860	72,410	111,131	277,472	116	13	16,897	458	159,467
65 Ogemaw.....	34	393,496	87,849	26,037	96,425	188,184	34	7	6,320	159	67,309
66 Ontonagon.....	16	696,311	157,592	75,335	59,249	404,135	20	23	14,312	135	83,595
67 Osceola.....	159	783,267	145,525	65,357	219,199	359,186	195	16	11,895	647	258,139
68 Oscoda.....	7	38,234	23,300	1,400	7,850	5,684	14	5	1,014	101	30,104
69 Otsego.....	35	512,732	245,700	28,925	88,335	149,772	45	18	16,090	295	115,892
70 Otsego.....	216	3,715,144	184,212	483,396	824,215	2,223,351	237	150	127,364	2,415	835,356
71 Presque Isle.....	73	1,033,053	519,985	40,784	155,404	316,880	39	25	19,799	478	218,614
72 Rosemond.....	17	263,632	194,960	3,820	27,800	42,052	15	8	4,956	114	47,424
73 Saginaw.....	616	10,161,657	1,255,020	1,068,230	1,942,309	5,836,008	651	468	451,672	5,826	2,277,100
74 St. Clair.....	363	6,598,338	455,315	376,244	1,198,755	3,977,964	386	286	181,868	3,237	1,441,110
75 St. Joseph.....	260	1,451,988	113,534	278,263	340,729	719,112	288	92	80,250	1,182	441,534

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

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
180,627	\$60,885,081	23,092	\$5,239,149	2,636	\$303,637	\$25,495,423	\$1,802,903	\$1,835,108	\$20,058,714	\$1,798,513	\$199,559,905	\$194,282,961	\$5,276,044	\$356,944,082	1
156	71,767			6	1,240	15,818	768	7,688	6,927		281,722	281,182	640	527,131	2
948	429,470	1	384	1	176	115,428	2,003	17,248	90,177		800,177	799,580	597	1,051,959	3
751	273,297	210	40,186	3	468	99,571	6,319	12,350	54,736	26,166	1,098,019	1,044,774	53,245	1,862,460	4
996	431,616	52	11,903	18	2,395	127,911	6,998	17,008	103,905		1,495,033	1,401,489	93,534	2,502,191	5
1,500	561,049	19	4,835			189,148	1,461	22,804	114,878		1,737,953	1,416,498	321,455	3,187,374	6
280	124,509	6	1,554	17	8,967	14,527	1,010	4,094	9,483		395,546	394,527	1,019	651,778	7
211	96,659	1	200			102,381	549	14,060	86,792	80	622,749	622,426	323	1,078,315	8
523	192,076	112	25,805	3	429	54,296	8,438	3,938	85,746	8,174	883,830	864,031	19,795	1,462,137	9
5,592	2,465,085	341	82,980	44	7,811	603,225	48,746	72,813	515,379	56,282	6,375,764	6,701,701	173,683	12,192,036	10
337	186,903	2	361	1	126	27,795	1,433	7,327	17,465	1,490	808,519	305,476	3,043	627,856	11
2,130	856,446	675	143,905	42	6,292	258,087	21,416	21,819	206,977	7,875	3,042,828	2,936,709	106,119	5,204,035	12
982	410,013	170	32,638	12	1,911	135,922	18,505	8,854	113,448	1,115	1,644,394	1,516,012	98,322	2,773,219	13
2,819	1,880,568	457	110,422	19	2,748	1,781,412	86,722	37,848	1,640,400	10,942	3,610,253	3,534,445	75,808	9,308,473	14
728	365,914	26	6,430	4	503	107,186	5,100	5,820	96,257		868,290	852,811	15,479	1,774,341	15
645	266,671	6	1,640	4	455	66,449	1,569	16,972	46,008	300	303,331	301,207	2,124	1,352,929	16
835	346,903	20	3,764	3	794	126,767	6,849	14,544	105,874		1,245,116	1,236,195	8,921	2,082,497	17
1,294	663,010	55	14,444	15	4,914	121,401	11,117	14,151	90,133		1,306,171	1,300,375	5,796	3,037,371	18
885	163,242	7	1,691			17,525	1,760	4,556	10,903	300	294,325	293,637	1,283	593,712	19
424	151,715	42	9,629	5	325	43,673	6,677	4,518	29,273	8,200	689,071	672,582	16,489	1,131,630	20
230	110,631	2	724			42,620	272	16,282	25,941	125	404,407	404,284	123	639,568	21
2,092	1,036,094	78	13,375	14	3,065	161,153	7,080	36,400	100,673	8,100	1,963,862	1,786,423	177,434	4,171,958	22
283	137,654	18	4,758	4	696	28,201	4,953	5,024	18,314		375,762	372,908	2,854	701,393	23
778	327,109	97	21,411	3	462	81,829	9,921	9,018	62,040	2,050	324,561	323,218	26,338	1,551,693	24
554	206,941	18	4,319	2	350	64,653	3,984	9,809	50,260		721,615	711,933	9,682	1,462,635	25
2,228	949,170	300	76,991	13	1,509	296,843	25,401	16,815	203,722	50,375	3,821,034	3,706,639	54,345	6,359,386	26
163	63,044			1	96	11,521	671	3,178	7,672		162,008	162,673	235	276,196	27
161	88,500	18	2,820	1	100	14,923	6,406	1,813	6,707		175,433	170,353	4,630	395,629	28
970	462,597	132	34,306	50	8,006	74,773	9,405	11,502	52,866	1,000	865,202	854,904	10,293	1,890,144	29
580	203,756	20	4,629	5	456	46,622	5,941	6,172	32,959	2,150	561,523	559,859	21,664	1,052,323	30
559	238,533	127	37,596	10	1,415	47,436	10,289	5,721	30,876	550	1,542,610	1,516,542	26,068	2,224,447	31
2,528	1,733,542	71	16,930	12	1,840	305,055	18,042	26,525	224,728	35,770	13,728,927	13,542,065	186,862	21,617,808	32
379	152,000	7	1,664	17	1,979	25,604	1,828	6,023	17,658	100	330,773	321,615	18,255	1,200,010	33
1,555	602,747	295	76,448	9	1,554	206,081	32,940	14,854	146,606	11,631	2,127,258	2,079,878	47,380	3,851,925	34
1,071	397,398	577	116,987	14	1,997	249,908	7,175	10,015	93,887	133,831	2,595,671	2,558,893	36,778	4,219,547	35
644	257,547	15	3,135	9	1,471	41,309	1,850	12,095	27,201	683	504,038	494,143	10,495	997,715	36
282	138,426	7	1,397	2	300	31,924	1,966	5,084	11,652	13,272	252,580	244,457	8,123	512,271	37
473	163,294	19	3,559			26,976	3,983	6,267	16,686	150	402,264	397,400	4,864	760,617	38
3,017	1,359,826	1,203	346,082	26	3,883	518,490	53,488	24,296	376,034	64,722	4,692,550	4,452,716	129,834	8,149,969	39
3,163	1,385,496	1,282	289,372	43	6,817	644,733	62,071	30,489	474,156	87,484	4,513,324	4,389,765	123,559	8,493,433	40
349	134,521	13	3,394	1	104	19,792	3,830	8,830	15,842		267,685	257,171	614	533,021	41
13,240	5,748,992	1,641	371,003	131	21,139	2,036,302	163,997	113,774	1,612,776	140,755	13,860,605	13,077,262	263,609	26,540,215	42
89	18,147	2	455			1,734	335	211	1,183		50,821	50,429	392	89,272	43
237	93,878	79	17,747	6	1,050	32,335	6,368	5,348	20,619		432,373	416,929	15,444	702,937	44
456	163,185	1	120			38,672	261	7,942	30,469		497,610	497,431	179	1,026,204	45
1,869	341,986	306	66,921	19	2,331	251,256	24,761	15,558	191,388	19,564	2,832,186	2,276,598	55,588	4,715,277	46
142	62,681	94	27,956	4	500	17,781	3,969	3,471	10,036	305	356,007	343,376	12,631	1,109,941	47
204	97,911					78,015	3,006	76,099	75,099		148,016	147,091	25	441,750	48
279	132,930	1	300	1	120	15,163	638	6,554	7,971		502,221	501,871	350	705,390	49
579	234,522	30	6,473	4	577	66,107	10,323	5,067	50,581		697,902	673,044	10,858	1,187,755	50
2,937	1,297,724	76	16,763	74	15,677	401,153	10,340	146,008	236,363	7,447	3,061,387	3,010,859	50,523	5,958,136	51
930	501,182	75	23,520	6	702	214,950	22,264	10,564	162,076	10,446	1,480,476	1,404,508	75,968	2,729,783	52
838	433,132	84	18,424	13	1,305	93,540	4,720	23,937	55,232	9,651	1,404,031	1,358,057	46,004	2,672,163	53
559	226,987	25	5,149	2	224	39,425	3,822	7,223	28,012		584,465	580,620	3,845	1,069,225	54
2,895	1,284,175	69	16,864	13	2,946	371,873	12,768	85,603	272,332	670	3,795,892	3,731,303	14,584	6,635,883	55
247	118,022	2	510	1	100	22,458	2,131	3,092	13,585	3,050	240,484	216,795	23,689	568,045	56
288	99,400	3	486			8,851	269	3,020	5,562		213,650	213,629	303	423,177	57
571	211,245	31	4,367	7	1,090	57,033	11,234	6,111	39,403	300	774,104	751,620	22,484	1,304,311	58
755	319,952	50	9,367	14	2,091	117,374	5,601	8,343	79,671	23,750	1,050,484	1,039,670	10,814	1,827,077	59
231	84,861	2	612	4	1,152	28,103	1,452	6,860	19,796		587,196	586,920	276	833,073	60
4,106	1,576,456	561	113,561	160	22,642	516,518	17,449	62,330	427,623	13,618	4,032,528	3,778,608	253,920	7,438,285	61
98	41,530	9	2,025	2	216	11,748	2,581	2,658	6,500		310,769	308,117	2,652	444,180	62
1,602	657,771	411	84,221	8	1,239	173,830	15,062	15,295	137,487	5,449	3,115,461	3,030,124	55,337	4,889,737	63
415	145,164	23	5,702	20	2,601	31,139	3,566	5,351	22,062	160	515,552	511,733	3,819	920,073	64
150	65,778	7	1,276	2	256	14,048	669	2,488	10,891		195,545	195,066	479	382,392	65
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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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
76 Sanilac	169	\$890,151	\$23,065	\$76,040	\$150,670	\$140,367	194	13	\$5,283	214	\$73,929
77 Schoolcraft	30	8,921,101	1,203,198	192,062	492,388	2,033,468	81	79	62,612	747	377,571
78 Shiawassee	260	2,050,323	115,001	346,088	884,174	1,205,060	296	108	100,821	1,555	605,189
79 Tuscola	182	1,003,216	83,839	263,329	443,412	268,136	207	45	20,478	434	181,525
80 Van Buren	200	625,523	66,720	108,483	185,897	264,423	225	33	20,863	511	150,626
81 Washtenaw	635	8,006,003	281,973	527,344	966,023	1,280,663	607	192	133,615	2,219	838,797
82 Wayne	3,126	83,749,879	7,566,942	10,602,011	23,424,737	40,156,189	3,424	5,804	5,461,054	52,231	21,219,088
83 Wexford	126	3,981,865	1,810,062	174,391	704,327	1,743,085	158	51	40,003	1,403	613,954

TABLE 7.—MANUFACTURES BY

	16,807	\$284,097,183	\$42,830,900	\$35,243,987	\$68,117,259	\$137,904,987	18,680	13,858	\$12,502,855	162,355	\$66,467,807
1 All industries	16,807	\$284,097,183	\$42,830,900	\$35,243,987	\$68,117,259	\$137,904,987	18,680	13,858	\$12,502,855	162,355	\$66,467,807
2 Agricultural implements	59	8,932,344	271,764	627,208	604,075	7,420,297	60	620	548,763	1,944	982,636
3 Artificial limbs	3	8,325			8,650	4,675	4			10	6,460
4 Awnings, tents, and sails	25	119,615	3,780	10,900	12,104	87,881	27	16	7,837	115	45,534
5 Baking and yeast powders	10	41,320	6,100	10,000	10,000	15,160	10	22	8,944	33	32,300
6 Baskets, and rattan and willow ware	27	861,769	42,215	74,328	84,254	160,962	25	26	13,980	450	129,335
7 Bolting and hose, leather	4	260,601	32,000	44,000	16,627	167,974	5	9	13,080	60	31,271
8 Bicycle and tricycle repairing	310	337,117	23,216	33,500	137,493	143,209	318	15	9,610	286	115,017
9 Bicycles and tricycles	11	757,021	6,900	44,893	117,513	587,715	4	53	39,648	311	141,039
10 Blacksmithing and wheelwrighting	1,830	1,070,763	326,285	492,363	326,806	631,304	2,023	2	1,000	1,301	760,581
11 Bookbinding and blank book making	31	207,131	5,300	11,425	61,419	133,047	37	17	9,588	195	62,313
12 Boots and shoes, custom work and repairing	696	288,531	64,567	81,030	71,123	71,806	725	1	364	205	83,097
13 Boots and shoes, factory product	13	1,135,961	82,148	200,150	150,800	702,863	19	77	69,688	1,117	356,074
14 Bottling	53	123,397	21,742	37,360	19,517	44,778	57	4	1,872	81	35,492
15 Boxes, cigar	10	117,467	8,550	22,541	23,096	63,780	4	5	4,872	212	50,924
16 Boxes, fancy and paper	12	266,001	32,800	43,245	45,920	136,036	17	24	21,910	568	106,820
17 Boxes, wooden packing	46	1,441,522	158,587	148,976	303,187	880,772	40	66	57,986	1,263	388,653
18 Brass castings and brass finishing	23	1,133,110	25,996	122,351	273,794	685,969	23	68	91,017	852	358,959
19 Brassware	6	322,429	14,968	41,340	84,511	181,610	5	27	26,424	323	112,518
20 Bread and other bakery products	455	1,020,818	226,582	396,610	852,069	446,557	403	200	138,201	1,329	684,985
21 Brick and tile	177	1,497,347	477,012	258,957	322,078	430,300	220	52	29,943	1,443	479,786
22 Bridges	8	56,600	400	1,300	42,800	12,100	11	2	1,100	104	48,703
23 Brooms and brushes	49	297,261	23,432	29,785	48,416	200,638	56	27	23,039	467	126,013
24 Carpentering	521	1,105,196	124,750	156,345	192,247	631,854	606	62	30,470	3,117	1,635,252
25 Carpets, rag	62	57,256	14,420	18,600	14,154	9,992	69	5	2,060	81	22,928
26 Carriage and wagon materials	24	1,040,329	21,800	113,952	207,732	698,845	22	49	46,788	1,252	498,925
27 Carriages and sleds, children's	6	94,520	8,037	22,173	21,280	43,010	5	8	6,500	80	39,785
28 Carriages and wagons	299	7,935,269	640,144	944,508	500,651	5,840,966	326	401	352,498	4,800	2,028,530
29 Cars and general shop construction and repairs by steam railroad companies	42	2,527,256	348,620	877,176	676,944	624,516		182	147,119	3,938	2,026,000
30 Cars and general shop construction and repairs by street railroad companies	6	166,574	39,000	33,000	33,574	51,000		8	10,160	227	114,129
31 Cars, steam railroad, not including operations of railroad companies	4	6,698,209	736,000	824,875	780,330	4,352,004		107	145,795	3,187	1,409,530
32 Charcoal	14	854,658	157,967	57,540	12,513	126,638	14	5	5,120	400	133,461
33 Cheese and butter, urban dairy products	4	15,900	5,000	6,250	2,150	2,500	5			1	300
34 Cheese, butter, and condensed milk, factory product	286	1,250,897	52,656	340,299	446,224	411,718	203	92	25,360	503	222,245
35 Chemicals	51	7,503,853	1,047,500	1,631,264	3,258,405	1,666,624	46	143	215,999	2,897	1,162,634
36 China decorating	5	1,852	150	150	827	1,225	5				
37 Cleansing and polishing preparations	8	2,585			260	2,325	6	1	300	5	2,900
38 Clothing, men's, custom work and repairing	703	1,144,571	91,493	126,426	90,918	835,734	805	94	58,012	2,378	1,017,150
39 Clothing, men's, factory product	40	1,461,590	20,450	46,880	130,248	1,264,012	49	133	125,731	2,008	601,646
40 Clothing, women's, dressmaking	367	257,287	23,555	58,659	39,900	135,173	415	31	28,255	1,488	350,773
41 Clothing, women's, factory product	31	599,194	3,750	22,600	100,945	466,899	43	120	122,499	1,540	391,623
42 Coffee and spice, roasting and grinding	4	60,113		2,000	11,059	47,054	4	8	6,194	34	12,170
43 Coffins, burial cases, and undertakers' goods	18	673,166	62,265	86,781	88,333	435,237	18	57	54,620	380	165,971
44 Confectionery	113	776,551	38,660	72,925	166,044	493,922	134	137	79,626	748	215,780
45 Cooperage	109	1,163,741	190,202	169,674	241,069	561,856	113	38	36,300	1,446	533,144
46 Copper, smelting and refining	3	1,623,407	35,000	1,096,107	196,307	195,993	1	17	25,500	462	364,647
47 Corsets	14	1,260,343	22,000	51,315	125,741	1,061,787	10	143	151,386	1,489	375,613
48 Cutlery and edge tools	8	94,400	9,250	23,150	26,350	35,650	8	9	3,940	103	38,710
49 Druggists' preparations, not including prescriptions	10	2,051,503	123,523	374,210	431,033	1,972,709	6	568	544,755	1,588	646,298
50 Dyeing and cleaning	50	82,205	10,300	12,700	24,320	34,885	59	5	2,953	90	32,073
51 Electrical apparatus and supplies	12	547,310	12,800	43,472	104,907	386,140	9	29	28,962	184	86,138
52 Electrical construction and repairs	27	156,271		500	28,450	127,321	27	43	32,413	324	135,452
53 Electroplating	13	28,505	2,500	4,100	15,400	6,505	13	18	11,026	65	25,935
54 Emery wheels	4	90,074	11,450	11,000	18,922	48,702	1	15	9,991	57	34,405
55 Engraving and diesinking	5	1,350			785	565	5			4	1,051
56 Engraving, wood	4	3,200			1,500	1,700	7	1	1,200	2	1,162

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
176	\$86,490	21	\$5,304	17	\$2,185	\$15,882	\$2,836	\$2,893	\$9,653		\$558,705	\$587,610	\$16,095	\$827,163
738	375,480	6	1,616	8	445	154,079	1,765	36,735	114,329	\$1,250	997,147	988,879	8,268	1,902,786
1,315	663,890	164	34,516	46	6,783	135,365	13,722	10,845	109,637	1,161	1,701,391	1,674,178	27,213	2,877,799
854	171,846	49	10,080	1	149	24,402	3,493	4,072	16,669	168	788,972	763,617	25,355	1,260,414
954	124,267	123	22,174	34	4,185	29,126	6,142	3,860	18,554	570	785,205	719,881	15,324	1,181,984
1,637	711,202	601	126,207	11	1,388	337,678	41,699	18,343	167,410	110,226	2,650,999	2,605,249	45,750	4,778,190
46,155	18,650,132	10,742	2,419,712	1,334	179,244	11,672,607	842,162	471,009	9,516,459	842,977	58,181,550	56,162,546	1,969,004	111,898,788
1,343	600,854	48	11,123	12	1,977	129,204	4,957	40,251	88,996		2,015,879	2,008,807	7,072	3,821,775

SPECIFIED INDUSTRIES: 1900.

136,627	\$60,885,081	23,092	\$5,289,149	2,636	\$393,637	\$25,495,423	\$1,802,993	\$1,835,198	\$20,058,714	\$1,798,518	\$190,659,905	\$194,282,961	\$5,276,944	\$256,944,082	1
1,939	951,213	4	1,273	1	150	1,829,520	2,503	32,129	1,258,627	36,271	2,482,235	2,429,712	52,523	6,839,508	2
10	6,450					2,249	1,360	89	850		2,110	1,620	490	19,031	3
71	33,250	43	12,128	1	156	13,775	4,591	697	8,287	200	118,907	117,677	1,230	216,997	4
20	9,015	13	3,285			8,900	1,864	98	6,947		32,374	32,367	637	83,892	5
854	111,487	64	13,585	32	4,263	16,236	513	3,140	12,688		137,270	136,059	1,211	357,294	6
61	29,950	5	1,321			16,973	2,840	1,928	12,295		297,784	294,812	2,972	894,272	7
276	113,514			10	1,503	44,536	29,328	1,911	11,432	1,865	237,061	238,576	8,485	691,832	8
294	138,457	17	3,182			59,485	2,693	1,353	49,501	5,938	945,735	938,530	7,135	627,658	9
1,384	759,136			7	1,445	98,073	60,761	13,086	23,650	1,176	876,974	863,177	73,797	3,022,876	10
101	41,547	89	20,611	5	655	24,506	5,265	678	9,062	9,501	80,168	84,793	1,375	285,056	11
201	82,522	2	250	2	325	40,662	33,251	2,047	4,970	204	221,906	218,971	7,935	699,992	12
691	272,398	417	112,634	9	1,132	200,504	3,455	4,385	192,404	260	1,163,863	1,155,811	8,052	1,915,179	13
80	85,252			1	240	15,067	4,113	1,693	9,261		226,561	225,463	1,098	329,345	14
69	23,506	121	23,227	22	4,191	26,206	1,461	767	23,928		82,888	81,124	1,764	157,873	15
95	31,269	373	62,719	100	12,832	16,129	5,985	1,813	8,331		142,246	137,941	4,305	357,964	16
1,124	859,523	49	11,768	95	17,392	87,842	3,854	7,957	75,971	60	1,464,176	1,468,462	5,714	2,287,495	17
846	358,159			6	800	106,845	8,205	6,413	91,167	1,060	968,244	952,965	15,249	1,730,273	18
273	102,892	48	9,063	2	563	35,946	179	1,310	33,857	690	151,026	145,289	5,737	418,163	19
1,075	632,563	212	45,251	42	7,181	238,135	73,572	12,900	141,463	200	2,253,154	2,180,533	72,621	4,008,108	20
1,396	472,170	19	3,277	28	4,339	55,197	12,088	6,672	36,062	375	238,566	22,586	195,970	1,155,569	21
104	48,703					2,859	324	236	1,799		76,855	72,898	3,957	148,498	22
254	98,708	199	25,895	14	1,410	30,166	4,886	2,463	22,837		264,872	261,505	3,367	540,585	23
3,113	1,634,580	2	317	2	355	549,522	12,740	5,821	46,147	484,814	2,940,232	2,931,504	8,728	6,071,740	24
49	16,540	31	6,270	1	128	4,554	2,953	240	1,361		16,447	14,539	1,908	87,796	25
1,240	495,918	2	675	10	2,332	77,369	7,420	4,363	65,516	100	960,664	941,970	18,694	1,767,298	26
86	38,885	3	900			6,392	410	699	5,283		46,416	45,661	752	111,749	27
4,755	1,986,932	130	40,703	5	895	495,520	24,902	37,714	386,694	46,210	6,016,981	6,528,090	88,001	11,205,602	28
3,934	2,024,760	4	1,240			39,642	300	1,827	33,572	3,943	2,120,166	2,046,845	73,321	4,332,927	29
227	114,129					17,021		2,773	856	13,392	157,621	154,121	3,500	298,931	30
3,187	1,409,580					227,774		34,023	191,751	2,000	7,272,761	7,178,371	94,390	9,920,780	31
490	193,461					1,910	200	895	595	220	168,237	168,237		370,356	32
1	300					213	110	92	11		12,235	12,011	214	17,964	33
392	186,596	109	35,328	2	321	37,001	3,424	6,367	27,085	125	3,274,264	3,225,543	48,721	3,918,995	34
2,851	1,155,673	46	6,961			503,732	3,085	25,674	471,183	3,790	2,707,461	1,868,758	838,706	5,364,724	35
						418	364	12	42		1,621	1,449	172	5,175	36
6	2,900					1,091	516	575			5,815	5,800	45	17,500	37
1,456	774,321	900	239,747	22	3,082	236,098	128,527	7,810	72,949	26,812	1,379,189	1,360,970	18,219	3,622,840	38
324	174,879	1,661	324,185	20	2,582	234,687	25,095	7,265	119,696	82,631	1,738,145	1,727,445	10,700	2,990,103	39
32	30,151	1,445	319,495	11	1,132	61,111	40,876	1,870	17,333	1,632	428,799	421,439	7,360	1,141,849	40
153	68,463	1,388	322,272	4	888	155,264	11,710	3,072	124,471	16,011	1,219,429	1,210,437	8,992	2,194,078	41
21	9,846	12	2,168	1	156	7,399	2,200	665	4,615		164,685	162,165	2,520	222,198	42
320	154,945	46	9,151	14	1,875	58,299	3,962	6,269	24,268	23,800	363,153	357,823	5,335	790,743	43
365	142,756	381	72,674	2	350	129,039	40,281	4,885	74,878		998,490	981,165	17,325	1,723,815	44
1,394	323,530	13	7,720	39	4,894	62,395	1,519	7,337	53,539		899,576	894,400	5,176	1,779,231	45
462	364,047					33,685	6,705	6,705	26,980		16,751,220	16,626,740	127,480	17,340,011	46
149	66,609	1,335	308,309	5	700	184,260	11,228	3,893	169,139		705,982	698,837	7,145	1,702,633	47
93	37,073	9	1,332	1	300	7,930	515	820	6,595		36,471	33,181	3,290	120,030	48
601	275,200	972	270,123	15	875	1,038,536	18,332	31,033	993,551		1,998,238	1,983,417	14,821	4,921,913	49
47	21,836	43	10,247			13,820	10,274	609	2,862	75	14,227	11,312	2,915	120,372	50
170	81,269	11	4,513	3	406	38,314	3,024	1,451	30,289	3,000	182,452	178,881	3,571	438,144	51
323	185,156					90,882	7,908	684	24,656		318,613	317,873	1,040	673,395	52
63	25,123	2	862			3,153	2,103	173	872		6,525	6,525	2,159	70,227	53
57	34,405					1,554	140	294	1,220		74,335	71,439	2,896	142,047	54
2	803			2	248	506	636	30	30		75	75		6,050	55
2	1,162					597	474	88	88		437	423	14	9,200	56

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.
57 Explosives	5	\$351,000	\$9,680	\$47,200	\$50,598	\$244,452	1	24	\$12,580	118	\$60,282
58 Fancy articles, not elsewhere specified	6	9,916	25	275	8,525	6,001	8	8	700	104	18,335
59 Fish, canning and preserving	4	6,800	700	1,850	250	4,000	6	8		19	7,961
60 Flavoring extracts	6	71,175			7,075	64,100	8	14	8,868	36	13,440
61 Flax, dressed	4	71,496	2,850	17,150	9,700	42,296	8	12	6,589	211	40,000
62 Flouring and grist mill products	765	7,938,587	1,195,994	1,580,139	2,832,239	2,375,815	979	205	163,461	1,423	718,409
63 Food preparations	25	796,742	44,210	119,130	149,469	486,933	22	99	64,645	373	143,257
64 Foundry and machine shop products	364	19,595,771	1,581,331	2,793,955	4,893,442	10,807,613	351	1,248	1,215,199	13,502	6,527,493
65 Fruits and vegetables, canning and preserving	93	898,668	61,603	204,315	146,649	466,101	122	70	45,279	1,165	240,102
66 Fur goods	28	628,660	21,060	27,100	20,245	550,355	88	98	69,063	583	225,759
67 Furnishing goods, men's	4	81,942			28,243	53,699	4	16	12,024	133	23,837
68 Furniture, cabinetmaking, repairing, and upholstering	172	210,835	10,160	31,810	36,600	123,265	206	13	6,070	219	97,934
69 Furniture, factory product	124	13,900,789	809,820	2,520,613	1,522,303	9,048,048	85	754	824,829	11,870	4,570,713
70 Furs, dressed	9	110,715	2,300	6,500	11,925	89,990	12	12	13,700	115	50,299
71 Gas, illuminating and heating	38	16,295,053	440,968	800,244	14,863,423	600,418	227	227	142,307	653	293,976
72 Gas machines and meters	5	85,650	500		6,550	28,400	7	8	4,600	52	16,892
73 Glass, cutting, staining, and ornamenting	6	22,968	500	1,500	6,957	14,011	8	1	550	43	19,726
74 Gloves and mittens	6	29,241			2,180	27,061	5	3	700	33	12,206
75 Grease and tallow	6	74,446	29,800	15,080	16,471	12,195	7	3	2,300	20	8,370
76 Hairwork	11	15,760	800	1,000	460		11			23	5,212
77 Hand stamps	8	15,692			8,710	6,882	9	4	2,184	15	5,175
78 Hardware	11	559,193	41,408	81,869	127,939	307,937	4	30	32,363	417	125,627
79 Hats and caps, not including fur hats and wool hats	9	161,956	8,000	20,000	25,223	113,723	14	22	28,710	220	80,190
80 Hosiery and knit goods	32	2,135,916	90,922	194,090	495,552	1,355,352	4	201	187,574	2,509	580,129
81 House furnishing goods, not elsewhere specified	8	845,175	56,639	63,825	136,147	598,564	4	63	74,562	686	190,996
82 Instruments, professional and scientific	6	9,300	1,000	1,000	2,809	4,500	5	3	1,725	14	5,976
83 Iron and steel	10	3,859,050	256,687	569,186	655,820	2,377,357	7	72	95,076	1,972	941,091
84 Ironwork, architectural and ornamental	9	702,081	20,000	50,000	269,406	362,675	9	88	40,710	619	257,763
85 Jewelry	5	24,060			11,520	12,540	7	2	7,488	23	17,450
86 Leather goods	5	96,014	3,500	4,000	30,780	67,734	2	16		112	29,402
87 Leather, tanned, curried, and finished	27	5,214,042	204,447	638,179	471,193	3,900,223	19	72	95,507	1,427	659,142
88 Lime and cement	20	3,157,906	1,031,817	557,574	1,218,993	349,522	15	90	94,086	542	231,038
89 Liquors, malt	77	6,235,484	674,609	1,808,812	1,820,343	1,933,720	49	242	297,150	980	599,319
90 Liquors, vinous	5	53,700	500	2,200	9,000	42,000	5	6	2,085	5	1,975
91 Lithographing and engraving	3	337,296			199,052	138,244		40	49,230	343	149,110
92 Lock and gun smithing	42	46,522	9,170	8,660	16,675	12,017	44			31	15,119
93 Looking-glass and picture frames	67	330,535	19,067	52,366	34,076	225,026	78	35	40,404	267	112,535
94 Lumber and timber products	1,705	67,379,698	24,979,990	2,867,280	9,813,801	29,718,627	2,161	1,207	1,206,765	26,190	11,122,030
95 Lumber, planing mill products, including sash, doors, and blinds	235	8,571,453	622,037	829,850	1,171,160	5,948,397	288	871	943,116	5,281	2,012,754
96 Malt	4	1,236,655	215,500	333,180	87,500	600,475	2	8	10,660	53	31,370
97 Marble and stone work	39	322,086	68,375	28,005	49,223	180,863	51	9	8,932	277	182,369
98 Masonry, brick and stone	103	433,107	61,375	28,225	61,401	291,196	207	34	23,133	1,788	615,607
99 Matches	3	899,952	89,500	207,000	856,000	247,452	15	25	26,812	639	155,336
100 Mattresses and spring beds	20	209,874	12,680	35,000	87,468	124,126	22	38	20,734	236	91,135
101 Millinery, custom work	705	367,041	75,335	140,542	41,745	609,419	783	87	20,005	1,306	313,794
102 Mineral and soda waters	75	336,000	52,400	50,500	129,039	104,068	93	25	13,238	164	67,227
103 Mirrors	5	170,781	8,400	19,333	80,896	111,652	5	27	25,010	127	53,111
104 Models and patterns	9	89,010			15,550	73,460	12	18	13,979	135	68,340
105 Monuments and tombstones	97	400,959	54,387	42,330	41,452	262,790	121	32	19,892	263	154,639
106 Mucilage and paste	4	7,450	100	700	2,050	4,600	7	1	624	11	2,700
107 Musical instruments and materials, not specified	5	52,918	700	600	12,133	39,435	6	1	920	33	15,371
108 Musical instruments, organs and materials	4	538,354	4,300	21,752	34,330	477,472	2	34	40,509	242	93,330
109 Musical instruments, pianos and materials	7	673,818	18,250	64,933	50,069	540,566	2	29	28,502	518	284,780
110 Oil, essential	22	227,496	38,246	57,390	25,010	56,850	28	13	9,290	97	23,667
111 Optical goods	3	265,948	60,000	15,000	15,896	115,052	6	32	25,020	175	49,030
112 Painting, house, sign, etc	404	479,912	44,705	62,945	64,449	307,813	501	66	30,515	1,408	706,875
113 Paints	18	1,559,545	111,299	230,969	159,074	1,057,603	4	133	135,265	834	129,690
114 Paper and wood pulp	27	4,605,741	360,219	973,918	1,660,725	1,520,879	9	107	142,812	2,014	806,326
115 Paper goods, not elsewhere specified	3	161,215	15,231	16,532	53,759	75,692	1	13	16,140	136	86,331
116 Paper hanging	31	39,995	1,150	8,580	5,421	24,574	38	5	858	133	61,653
117 Patent medicines and compounds	33	1,500,562	46,641	159,408	175,301	1,119,212	87	232	242,968	540	194,292
118 Paving and paving materials	113	854,537	258,090	113,566	144,867	333,014	137	63	48,558	1,060	727,262
119 Perfumery and cosmetics	12	253,599	10,000	25,000	23,535	195,064	8	101	67,355	188	44,227
120 Photography	337	619,709	40,060	85,130	199,610	294,909	371	50	31,995	369	149,652
121 Photolithographing and photoengraving	8	52,920			19,640	33,280	8	13	9,660	82	89,110
122 Pickles, preserves, and sauces	16	192,962	13,425	39,225	36,161	103,851	12	40	48,077	216	61,892
123 Plastering and stuccowork	39	50,536	4,125	7,200	12,190	27,021	44	11	7,715	201	111,566
124 Plumbers' supplies	13	484,290	13,375	42,971	110,993	266,751	5	55	50,231	557	222,713
125 Plumbing, and gas and steam fitting	295	863,610	62,475	88,400	180,508	587,227	378	89	38,384	1,260	640,195
126 Pottery, terra cotta, and fire-clay products	9	280,185	44,300	33,399	63,336	89,150	5	16	13,150	149	51,144

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		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.										
108	\$64,749	5	\$1,583			\$19,893	\$200	\$1,183	\$14,250	\$4,200	\$501,584	\$494,853	\$6,781	\$691,766	57
7	1,400	97	11,935			2,929	875	18	536	1,500	4,906	4,606	800	29,495	58
18	7,886			1	\$75	1,818	100	51	1,077	90	52,949	52,272	677	65,077	59
21	9,720	15	3,720			16,435	2,275	205	13,955		76,296	76,891	405	129,895	60
177	41,560	9	2,100	25	2,310	2,481	324	361	1,796		91,032	91,032		158,050	61
1,417	717,354	1	255	5	890	896,484	33,678	67,392	286,380	9,034	19,924,980	19,724,911	200,069	28,593,991	62
255	116,268	117	26,839	1	150	354,152	969	3,225	349,958		677,875	640,529	37,346	1,891,616	63
18,274	6,485,120	93	18,700	135	23,676	1,540,950	67,331	92,695	1,816,611	64,313	8,222,862	7,894,642	328,220	20,615,864	64
878	121,412	665	95,054	222	23,636	123,514	7,331	8,731	112,368	34	1,182,060	1,182,060		1,760,875	65
204	117,221	377	107,338	7	1,200	69,944	20,206	3,347	45,391	1,000	1,176,392	1,172,335	3,557	1,806,004	66
18	5,804	115	18,033			4,321	3,203	200	921		55,638	54,735	908	170,700	67
192	92,175	20	4,807	7	952	27,019	16,454	1,420	7,475	1,670	182,025	178,351	3,674	438,445	68
11,519	4,511,568	88	21,108	263	88,037	875,069	34,375	82,032	754,162	4,500	6,727,378	6,600,480	126,898	14,614,506	69
56	26,816	53	23,658	1	425	5,063	856	467	3,740		192,840	192,840	1,638	293,896	70
657	293,672	1	304			380,397	1,300	65,345	813,752		298,321	269,774	28,547	1,472,737	71
48	16,182	4	620			3,598	1,235	126	2,161	76	28,942	28,218	724	63,400	72
45	18,736	3	990			4,766	2,345	277	2,144		20,602	20,126	476	65,061	73
9	4,148	27	7,740	2	312	1,782	1,160	72	530		27,980	27,567	418	54,850	74
20	8,870					8,508	1,920	491	6,097		57,982	56,123	1,859	86,827	75
		23	5,212			6,570	4,020	59	2,491		12,248	11,932	316	82,945	76
9	4,333	1	168	5	624	2,980	1,940	73	917	50	7,110	6,988	122	28,815	77
352	115,887	50	7,889	15	1,854	37,742	1,518	2,651	32,823	750	291,767	285,847	5,920	554,359	78
102	56,550	117	23,462	1	178	11,317	3,393	526	6,893		187,170	184,800	2,310	366,712	79
498	172,085	1,873	301,345	138	16,699	265,124	10,227	9,912	209,852	35,133	1,459,378	1,420,230	30,148	2,791,257	80
548	182,905	38	8,001			95,597	838	5,033	89,176	500	422,224	418,196	4,028	970,003	81
18	5,816	1	160			1,242	712	30	500		3,245	2,935	310	10,934	82
1,972	941,091					277,827	4,000	31,842	296,101	6,384	3,770,213	3,770,213	395,634	5,002,053	83
513	256,283	1	460	5	1,000	30,732	4,112	3,911	12,709		6,669,889	562,139	7,750	1,017,077	84
23	17,450					8,265	2,463	75	727		15,439	15,131	308	46,200	85
66	22,394	40	5,810	6	1,252	5,986	765	177	5,054		72,827	72,340	487	147,697	86
1,425	558,498			2	644	248,297	800	30,881	216,616		4,697,367	4,671,213	26,154	6,015,590	87
537	230,845	4	133	1	60	87,811	322	3,433	77,226	1,250	357,782	357,782	117,154	1,070,145	88
655	591,186	25	8,133			2,402,632	51,767	61,076	2,289,809		1,187,770	1,075,084	112,686	5,296,825	89
5	1,075					1,400	390	310	710		6,878	6,826	52	15,109	90
258	182,533	85	10,627			65,886	7,919	2,728	41,667	13,572	153,053	150,879	2,174	469,775	91
28	14,141	2	614	1	364	5,253	4,173	850	735		13,406	12,445	961	59,229	92
294	100,776	43	11,135	5	624	24,674	12,708	2,764	9,202		215,605	213,377	2,228	487,888	93
25,685	11,013,076	252	54,384	202	54,570	2,823,961	41,114	645,059	1,629,188	13,600	29,439,931	29,431,569	8,362	54,290,520	94
5,121	1,978,713	33	7,230	127	26,761	509,357	20,562	51,432	405,593	22,770	8,341,834	8,290,218	51,616	12,469,632	95
53	31,870					25,486		4,747	20,739		605,451	587,452	17,999	741,436	96
277	182,898					48,365	3,166	2,440	13,659	29,100	279,215	273,664	5,551	610,095	97
1,786	915,497			2	200	295,510	2,956	3,414	13,623		1,343,233	1,340,335	2,898	3,053,541	98
296	90,433	218	46,633	125	18,750	133,497	3,946	3,946	129,811		1,039,854	1,039,854	2,700	1,745,030	99
169	74,523	34	16,183	3	429	32,324	3,414	1,486	27,424		332,025	328,046	3,979	540,966	100
4	2,265	1,290	310,136	12	1,393	175,045	120,874	8,321	45,742	108	1,269,208	1,256,569	12,639	2,843,360	101
149	63,722	4	1,310	11	2,195	25,583	7,412	2,425	15,746		132,076	128,248	3,828	392,735	102
116	51,522	2	475	9	1,114	5,322	2,400	838	2,284		133,985	132,124	1,861	232,712	103
130	67,280	5	1,500			5,055	3,944	307	804		43,885	42,034	1,851	174,700	104
263	154,689					33,951	5,439	2,519	15,708	10,285	376,854	372,957	3,897	780,396	105
8	2,200	3	500			810	372	172	266		10,781	10,691	90	19,111	106
31	14,747	2	624			6,107	1,205	70	3,209	1,623	6,885	5,900	485	87,710	107
238	91,950	2	600	2	780	76,987	4,726	2,099	70,162		188,745	185,647	3,098	403,058	108
480	272,934	38	11,796			47,186	5,929	2,931	38,276		285,801	277,305	7,096	776,789	109
93	23,032	3	560	1	75	7,308	10	1,376	5,982		124,803	122,807	1,996	208,568	110
85	31,937	55	11,248	35	5,825	14,196	2,330	1,755	10,936	75	112,190	111,007	1,123	228,147	111
1,402	705,925	2	365	4	585	65,266	35,597	3,218	25,699	917	566,185	562,533	3,652	1,802,260	112
298	111,194	80	16,837	11	1,059	220,482	5,604	7,325	207,653		1,153,783	1,142,053	11,730	1,826,742	113
1,534	608,722	479	91,823	1	261	264,373	3,420	24,957	209,030	26,966	2,707,827	2,441,512	269,315	4,217,869	114
27	11,759	100	24,572			62,162	600	1,341	60,221		59,631	57,752	1,779	202,008	115
132	61,167	1	336			5,744	3,068	237	2,499		54,976	54,737	239	157,561	116
228	113,589	302	79,518	10	1,185	393,783	11,330	6,322	358,566	17,515	662,391	652,475	9,916	1,613,984	117
1,653	726,244	7	1,913	7	1,018	48,797	6,091	3,615	25,183	13,908	874,862	862,330	12,482	2,012,445	118
36	13,709	151	30,418	1	100	72,761	2,762	6,325	65,474		233,054	237,356	1,293	542,495	119
219	110,723	146	38,322	4	607	94,471	52,779	3,445	37,131	1,050	274,497	264,929	9,568	889,073	120
80	38,198	2	912			12,121	2,371	182	9,063		12,942	10,622	2,320	97,735	121
92	39,579	120	21,732	4	581	27,533	5,467	1,576	20,495		614,421	607,252	7,169	881,938	122
194	110,190	7	1,375			15,704	2,497	412	5,181		90,660	89,617	1,049	270,870	123
508	211,468	51	11,250			100,260	4,825	3,643	91,801	7,614	588,971	523,892	15,079	1,017,911	124
1,243	633,369	6	1,012	6	314	37,582	46,734	6,232	34,166	350	1,430,100	1,417,326	12,774	2,746,904	125
146	50,384	3	260	3		10,647	1,715	2,688	6,244		36,771	36,240	28,531	145,021	126

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.
127 Printing and publishing, book and job.	201	\$2,648,103	\$28,475	\$71,896	\$1,522,505	\$1,030,667	233	506	\$221,077	1,571	\$676,183
128 Printing and publishing, newspapers and periodicals.	591	4,114,760	176,957	352,416	2,053,919	1,501,438	614	836	685,533	2,916	1,302,493
129 Pumps, not including steam pumps.	11	17,880	2,300	3,405	5,300	6,875	14			17	6,644
130 Refrigerators.	9	1,608,190	94,700	280,200	233,635	999,635	6	38	46,101	963	314,280
131 Regalia and society banners and emblems.	6	59,011			6,606	62,405	6	12	8,775	99	30,560
132 Roofing and roofing materials.	34	825,207	53,849	36,802	51,782	182,774	46	25	27,694	224	98,765
133 Rubber and elastic goods.	3	34,172	898	2,572	4,544	26,158	7	7	4,104	18	7,356
134 Saddlery and harness.	543	1,157,900	120,412	238,524	107,011	701,050	601	34	20,155	757	342,166
135 Salt.	53	4,739,865	280,432	884,428	1,067,072	2,528,233	29	91	37,249	1,440	619,389
136 Sausage.	5	30,500	7,000	13,500	4,300	5,700	9	1	208	17	7,399
137 Saws.	9	108,845	10,310	16,922	30,974	50,639	14	4	3,400	51	28,120
138 Scales and balances.	3	102,625	4,000	20,000	28,225	50,400	3	15	5,210	33	15,753
139 Sewing machine repairing.	7	2,220		400	400	1,700	9	1	182	1	499
140 Ship and boat building, wooden.	51	805,855	149,965	252,956	118,545	284,389	53	32	26,368	1,120	474,521
141 Shipbuilding, iron and steel.	3	3,087,164	703,115	729,017	803,403	651,629	41	41	50,020	1,796	869,366
142 Shirts.	14	558,483			76,621	481,862	16	58	41,516	462	149,725
143 Show cases.	4	42,265		500	9,340	32,425	6	4	3,722	58	33,375
144 Slaughtering and meat packing, wholesale.	8	1,265,151	123,945	103,040	100,771	874,395	11	63	57,741	375	186,473
145 Slaughtering, wholesale, not including meat packing.	21	173,200	30,750	41,025	18,625	82,800	18	8	8,920	81	44,164
146 Soap and candles.	12	565,151	36,800	98,998	142,828	286,525	9	47	32,338	122	49,435
147 Sporting goods.	6	16,748	3,000	4,600	5,798	3,450	6			27	7,940
148 Springs, steel, car and carriage.	5	368,093	18,926	48,659	135,574	164,934	16	16	15,781	351	158,661
149 Stamped ware.	4	202,861	3,010	6,136	67,813	135,022	10	10	5,976	70	22,022
150 Starch.	4	408,921	74,911	102,488	132,050	99,772	35	35	35,740	83	30,166
151 Steam fittings and heating apparatus.	13	2,031,613	105,000	433,041	548,938	945,234	12	111	144,181	1,257	616,383
152 Stereotyping and electrotyping.	3	17,000			11,500	5,500	4	3	726	19	8,530
153 Sugar and molasses, beet.	9	4,013,343	143,036	925,980	2,414,319	530,378	4	118	101,693	473	216,704
154 Sugar and molasses, refining.	3	4,725	700	900	3,000	125	4			3	320
155 Surgical appliances.	9	11,803	125	1,000	2,680	8,000	14	45	8,800	28	6,477
156 Taxidermy.	3	1,275			275	1,000	3			2	317
157 Tinsmithing, coppersmithing, and sheet-iron working.	467	1,120,878	116,024	223,682	284,019	497,153	549	62	62,434	1,091	475,705
158 Tobacco, chewing, smoking, and snuff.	8	804,400	49,611	102,295	152,406	500,088	3	156	202,689	1,173	322,817
159 Tobacco, cigars and cigarettes.	600	1,957,635	78,932	119,587	86,978	1,672,138	674	207	196,321	4,109	1,416,238
160 Tools, not elsewhere specified.	18	202,848	4,650	21,150	73,544	103,504	19	20	23,107	214	81,482
161 Toys and games.	3	61,630	1,500	6,500	8,035	45,595	4	2	2,200	90	40,389
162 Trunks and valises.	6	200,482	2,000	8,000	13,955	176,527	8	29	29,466	233	87,957
163 Umbrellas and canes.	7	40,322			3,291	37,031	7	8	5,728	86	20,765
164 Upholstering materials.	5	74,987	2,892	12,511	17,550	42,004	4	7	4,130	76	27,009
165 Varnish.	4	934,470	28,500	107,837	53,796	684,237	10	65	150,400	106	49,416
166 Vinegar and cider.	106	335,061	24,205	84,252	128,144	98,463	130	5	3,930	137	40,927
167 Washing machines and clothes wringers.	8	58,207	5,550	13,650	11,066	27,041	5	10	5,139	61	21,211
168 Watch, clock, and jewelry repairing.	438	330,699	33,335	51,605	117,967	136,762	467	3	801	287	148,416
169 Windmills.	6	64,149	8,750	5,200	9,878	40,321	7	7	5,484	47	14,917
170 Window shades.	5	115,670	7,000	26,000	23,720	58,950	10	10	10,276	82	82,700
171 Wirework, including wire rope and cable.	31	990,916	61,136	118,813	144,901	666,066	34	129	91,818	597	237,687
172 Wood, turned and carved.	56	787,066	68,631	160,984	284,733	272,688	59	46	49,781	918	305,538
173 Woodenware, not elsewhere specified.	11	211,253	30,100	49,320	78,363	63,470	5	12	9,412	229	75,263
174 Woolen goods.	16	775,609	14,200	111,438	187,235	462,186	16	23	18,099	337	108,168
175 All other industries <sup>1</sup> .	100	4,013,537	323,388	511,520	1,056,424	2,122,205	89	231	224,057	2,789	929,997

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

TABLE 8.—MANUFACTURES IN CITIES

BAY CITY.

1 All industries	376	\$5,645,525	\$365,503	\$633,786	\$1,106,111	\$3,540,175	403	233	\$201,312	3,307	\$1,466,328
2 Bicycle and tricycle repairing	9	7,220	160	600	3,438	3,032	9			8	3,904
3 Blacksmithing and wheelwrighting	23	15,587	5,650	3,075	3,467	3,395	24			15	8,000
4 Boots and shoes, custom work and repairing.	25	15,356	4,510	6,590	2,090	2,166	25			8	3,268
5 Bottling.	6	17,625	2,700	4,450	2,360	8,115	6			13	5,440
6 Bread and other bakery products.	14	83,655	5,050	9,655	44,731	24,219	18	7	4,197	40	13,857
7 Bridges.	3	18,500			14,000	4,500	4	2	1,100	24	12,850
8 Carpentering.	31	34,974	5,635	9,505	11,191	8,743	36	3	1,824	132	70,675
9 Carriages and wagons.	6	11,475	1,000	1,625	1,875	6,975	8			15	7,083
10 Clothing, men's, custom work and repairing.	26	57,590	2,855	2,285	4,203	48,747	29	7	4,368	121	50,247
11 Clothing, women's, dressmaking.	9	7,820	200	650	1,653	4,817	11	1	1,000	57	14,656

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,164	\$569,822	367	\$81,103	40	\$5,213	\$227,672	\$66,684	\$10,122	\$85,476	\$65,390	\$677,823	\$951,065	\$20,753	\$2,365,030	127
2,186	1,126,233	553	154,227	177	22,043	591,407	80,168	27,468	385,632	98,119	1,023,853	959,316	61,607	5,119,710	128
17	6,644	2	1,000	15	2,560	1,358	280	111	967	---	12,876	11,979	897	31,837	129
946	310,720	72	17,548	---	---	95,992	---	6,529	89,463	---	710,107	706,907	9,200	1,425,876	130
27	13,812	---	---	---	---	11,570	3,320	105	5,395	2,750	95,065	94,673	392	179,214	131
222	98,087	2	618	---	---	47,020	1,648	1,763	40,915	2,694	293,409	260,341	3,068	532,402	132
13	6,512	5	814	---	---	5,530	70	70	5,381	---	25,110	24,424	632	45,651	133
733	336,736	19	4,295	5	1,145	87,742	43,987	11,995	81,411	319	1,077,984	1,062,653	15,331	1,994,300	134
1,340	595,041	71	16,027	33	8,315	193,915	650	29,217	140,548	23,500	1,006,780	821,725	274,055	2,460,533	135
17	7,399	---	---	---	---	1,410	540	100	770	---	85,363	84,178	1,185	112,220	136
51	28,120	---	---	---	---	5,774	1,000	1,040	3,635	---	48,684	45,458	3,226	112,863	137
32	15,613	---	---	1	145	15,244	500	248	14,496	---	28,294	27,396	898	78,885	138
1	409	---	---	---	---	1,033	818	8	207	---	2,737	2,637	100	7,141	139
1,116	473,291	4	1,230	---	---	99,868	6,463	11,058	45,434	36,913	543,535	538,776	4,759	1,402,893	140
1,796	869,366	---	---	---	---	109,687	1,275	15,699	92,713	---	1,054,348	1,028,047	25,701	3,029,203	141
76	43,714	386	106,011	---	---	151,320	2,950	970	15,600	131,800	680,915	677,131	3,784	1,169,766	142
57	33,271	---	---	1	104	7,965	1,630	700	4,435	1,200	47,888	47,211	677	134,110	143
973	186,023	2	450	---	---	76,659	745	10,054	65,800	---	3,325,734	3,305,856	19,878	3,724,761	144
80	44,114	---	---	1	50	10,632	676	1,808	8,648	---	1,444,906	1,441,639	3,217	1,612,656	145
97	44,605	17	3,970	8	860	54,241	2,303	2,641	47,737	1,560	472,372	460,732	11,640	706,238	146
25	7,815	2	625	---	---	1,188	243	90	805	---	3,564	3,234	330	18,095	147
351	158,661	---	---	---	---	21,163	1,520	2,427	17,156	---	311,904	289,409	22,495	554,339	148
67	21,562	3	460	---	---	7,017	1,200	377	5,440	---	109,566	107,565	2,001	106,006	149
51	25,166	32	5,000	---	---	54,056	---	768	53,288	---	161,089	155,078	6,011	390,183	150
1,245	614,583	12	1,800	---	---	55,509	3,186	8,337	43,786	250	866,826	828,310	38,486	2,116,760	151
14	7,570	---	---	5	960	1,277	652	67	558	---	5,277	4,187	1,090	26,500	152
471	215,834	1	120	1	760	77,262	---	2,678	72,474	2,110	1,109,903	1,018,934	90,969	1,602,266	153
3	920	---	---	---	---	89	---	14	25	---	2,325	2,055	270	4,150	154
1	200	28	0,977	---	---	58,324	1,306	22	55,796	1,200	17,549	17,397	152	141,508	155
1,048	469,048	1	117	---	---	385	---	---	97	---	1,235	1,249	86	4,150	156
474	189,647	3	480	40	6,177	95,967	40,194	7,274	47,054	1,445	1,032,132	1,016,585	15,597	2,103,034	157
1,939	930,837	698	132,962	1	208	1,935,032	10,080	18,808	1,906,144	---	1,174,039	1,132,664	41,375	3,746,045	158
170	71,557	1,970	494,597	200	20,804	1,041,321	66,015	10,608	957,054	8,214	1,992,331	1,979,400	13,931	5,588,982	159
80	35,789	41	9,325	---	---	31,219	2,074	3,321	25,124	700	124,209	119,606	4,603	339,060	160
188	78,629	10	4,600	---	---	4,365	20	205	4,080	---	63,029	61,579	1,450	122,650	161
26	9,913	41	8,600	4	728	40,033	7,550	853	31,630	---	194,067	193,341	726	427,155	162
74	26,809	60	10,732	---	---	7,162	6,060	385	750	---	140,352	140,352	630	191,591	163
95	46,736	11	2,680	2	200	5,911	690	773	4,448	---	31,580	27,750	5,830	96,020	164
124	38,860	12	1,917	1	150	262,401	180	10,296	251,925	---	814,857	811,152	3,705	1,561,150	165
58	20,275	12	1,917	1	150	11,026	1,010	1,999	7,742	275	215,707	206,959	8,748	374,223	166
267	144,576	3	936	---	---	7,122	250	444	2,374	4,054	42,174	40,944	1,230	98,832	167
47	14,947	15	3,449	5	421	60,236	45,242	2,336	10,741	1,917	107,103	102,106	4,997	556,290	168
53	25,200	---	---	---	---	6,247	1,000	626	4,259	362	36,942	35,920	1,022	81,844	169
506	220,123	29	7,500	---	---	3,614	3,140	236	5,238	---	207,150	205,125	2,024	290,610	170
829	288,826	62	14,534	29	2,880	97,521	8,610	3,067	89,945	899	628,983	621,646	7,337	1,394,464	171
181	65,235	87	16,432	2	300	35,079	3,504	4,938	26,321	316	286,771	274,811	11,960	924,366	172
193	71,726	48	9,023	---	---	8,070	290	1,135	6,735	---	65,505	64,745	760	209,489	173
1,976	782,371	144	36,432	86	5,354	29,717	650	5,632	23,435	---	406,726	390,495	16,231	626,836	174
---	---	727	141,772	---	---	289,843	21,323	21,032	230,391	17,087	4,321,047	4,200,309	120,738	6,774,933	175

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

BY SPECIFIED INDUSTRIES: 1900.

BAY CITY.

3,021	\$1,395,041	279	\$70,204	7	\$1,083	\$385,641	\$38,420	\$12,365	\$283,076	\$21,782	\$3,820,599	\$3,765,276	\$55,323	\$7,087,624	1
8	8,904	---	---	---	---	897	456	47	394	---	8,536	8,331	205	20,027	2
15	8,000	---	---	---	---	2,513	1,523	241	744	---	14,262	13,513	749	47,095	3
8	5,208	---	---	---	---	1,072	1,015	133	519	---	7,357	7,083	274	22,226	4
13	5,440	---	---	---	---	2,955	290	320	2,345	---	26,119	25,965	154	89,030	5
29	11,884	11	1,983	---	---	8,464	1,911	639	5,914	---	64,168	61,644	2,524	115,358	6
24	12,850	---	---	---	---	962	---	12	950	---	12,740	10,650	2,090	35,000	7
132	76,675	---	---	---	---	6,084	1,640	420	1,444	2,580	98,624	98,940	684	222,211	8
15	7,083	---	---	---	---	1,429	864	125	440	---	13,276	13,276	225	30,370	9
41	25,345	80	24,902	---	---	7,903	4,348	339	3,166	---	45,482	44,898	589	143,343	10
1	600	56	14,056	---	---	2,525	1,276	16	533	700	27,530	27,382	148	55,547	11

TABLE 8.—MANUFACTURES IN CITIES

BAY 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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
12 Dyeing and cleaning	4	\$1,165			\$940	\$225	4		1	\$358	
13 Foundry and machine shop products	11	763,392	\$87,850	\$183,472	179,322	863,218	7		507	293,389	
14 Furniture, cabinetmaking, repairing, and upholstering.	11	6,870	1,775	1,085	1,774	2,236	10	\$93,612	9	5,030	
15 Lumber and timber products	10	1,106,824	60,500	65,500	117,900	862,924	14	20,120	445	194,278	
16 Lumber, planing mill products, including sash, doors, and blinds.	10	1,351,175	88,904	68,887	90,511	1,157,873	5	84,337	417	143,144	
17 Masonry, brick and stone	3	13,750	5,800	4,000	1,050	2,900	3	2,016	79	44,000	
18 Millinery, custom work	9	18,600	8,600	4,150	410	10,440	9		47	13,182	
19 Mineral and soda waters	5	26,702	8,000	6,000	10,862	6,300	2	1,500	11	4,032	
20 Painting, house, sign, etc	23	16,272	1,325	2,180	3,940	9,427	28		70	39,410	
21 Paving and paving materials	12	14,473	2,215	4,335	3,162	4,761	18		171	78,082	
22 Photography	4	17,600	3,000	9,000	3,000	2,600	5		7	2,176	
23 Plumbing, and gas and steam fitting	7	42,792	2,400	1,700	4,950	33,742	11	1,888	28	15,900	
24 Printing and publishing, book and job.	6	37,950	1,000	5,000	23,500	8,450	6	3,484	26	12,155	
25 Printing and publishing, newspapers and periodicals	8	88,996	1,400	1,200	61,038	25,868	6	11,900	48	29,792	
26 Saddlery and harness	8	10,790	2,000	2,500	1,440	4,850	9		8	8,198	
27 Salt	8	272,922	14,000	89,593	193,839	85,490	10	4,342	69	30,495	
28 Ship and boat building, wooden	4	9,125	1,000	2,950	1,335	3,790	4	1,500	63	26,000	
29 Tinsmithing, coppersmithing, and sheet-iron working.	14	41,932	2,700	5,550	14,523	19,157	14	520	55	26,143	
30 Tobacco, cigars and cigarettes	14	32,720	2,600	4,550	1,745	23,825	16	600	49	24,859	
31 Watch, clock, and jewelry repairing	9	6,850	300	500	3,400	2,650	9		8	4,020	
32 All other industries <sup>1</sup>	46	1,495,263	102,884	188,149	339,015	845,216	48	73,004	756	310,265	

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

DETROIT.

1 All industries	2,847	\$71,751,193	\$5,736,368	\$8,399,579	\$21,571,058	\$36,044,193	3,123	5,448	\$5,042,289	45,707	\$18,718,081
2 Awnings, tents, and sails	5	49,125			4,473	44,652	6	13	6,473	71	25,956
3 Baking and yeast powders	6	29,970	4,100	8,060	7,750	10,060	6	20	3,219	25	9,125
4 Baskets, and rattan and willow ware	10	26,471	7,000	4,050	5,546	9,875	10	2	490	28	8,559
5 Bicycle and tricycle repairing	69	36,413	9,330	6,000	85,239	45,844	77	6	4,836	81	36,366
6 Blacksmithing and wheelwrighting	130	165,770	60,800	41,685	23,223	41,062	150			209	116,362
7 Bookbinding and blank book making	8	22,731			14,150	8,581	11	6	3,488	55	16,716
8 Boots and shoes, custom work and repairing.	149	50,529	15,100	11,805	12,177	11,447	160	1	364	52	21,466
9 Boots and shoes, factory product	6	740,682	60,900	130,059	75,256	474,467	12	33	33,379	645	235,157
10 Bottling	7	24,234	2,900	4,800	4,634	11,900	8	2	780	12	4,903
11 Boxes, cigar	8	89,967	7,000	21,441	17,000	44,526	4	4	3,972	152	93,561
12 Boxes, fancy and paper	5	190,543	28,800	42,900	27,109	91,734	4	14	14,580	381	69,801
13 Boxes, wooden packing	9	407,780	130,867	63,000	123,526	144,837	4	16	16,225	251	85,852
14 Brass castings and brass finishing	17	1,038,765	25,036	120,976	246,304	646,339	18	62	85,403	803	332,750
15 Bread and other bakery products	160	805,738	98,422	115,900	411,882	179,534	168	95	84,611	603	273,789
16 Brick and tile	3	103,698	70,000	4,000	9,500	20,198	3	1	240	35	18,605
17 Brooms and brushes	12	95,659	9,200	8,650	12,616	66,198	15	12	9,166	152	50,173
18 Carpentery	143	334,793	67,175	45,421	48,649	173,548	175	16	10,045	950	471,133
19 Carpets, rug	15	21,465	5,000	11,000	2,675	2,130	14	2	850	19	6,482
20 Carriages and sleds, children's	3	12,032	1,250	1,800	1,143	3,839	3	2	1,000	8	8,118
21 Carriages and wagons	20	554,643	48,900	79,595	41,240	884,908	26	23	30,948	318	150,135
22 Cheese and butter, urban dairy products.	4	15,900	5,000	6,250	2,150	2,500	5			1	800
23 Cleansing and polishing preparations	3	2,585			260	2,325	6	1	300	5	2,900
24 Clothing, men's, custom work and repairing.	186	391,879	30,300	31,350	21,630	308,599	211	53	36,282	827	359,271
25 Clothing, men's, factory product	26	316,980	13,950	27,254	62,271	723,505	33	74	68,550	1,307	294,939
26 Clothing, women's, dressmaking	99	149,074	10,800	24,950	12,330	100,994	124	21	23,030	609	182,192
27 Clothing, women's, factory product	10	178,205	4,500	14,000	22,686	137,019	16	81	27,006	637	127,779
28 Coffee and spice, roasting and grinding	3	45,983			8,189	37,794	4	6	4,794	24	8,670
29 Coffins, burial cases, and undertakers' goods.	7	211,872	22,300	12,900	23,400	153,272	8	20	26,550	117	47,385
30 Confectionery	35	391,727	13,300	34,100	76,932	267,395	36	94	47,641	407	109,127
31 Cooperage	11	131,143	25,200	20,899	8,048	76,996	12	4	1,900	124	55,905
32 Corsets	3	277,644			35,711	241,933	3	31	31,236	436	130,008
33 Druggists' preparations, not including prescriptions.	9	2,944,393	123,526	374,210	480,858	1,965,709	4	568	544,755	1,533	544,453
34 Dyeing and cleaning	18	41,680			12,970	28,710	22	4	2,748	55	19,821
35 Electrical apparatus and supplies	9	432,641	6,500	7,201	60,181	358,759	8	20	22,470	122	60,406
36 Electrical construction and repairs	16	109,971			23,725	86,246	19	28	21,245	249	95,979
37 Electroplating	4	12,700			8,000	4,700	4	7	5,744	44	16,588
38 Emery wheels	3	34,619	11,000	10,600	17,322	45,697	1	13	9,211	56	33,985
39 Engraving and diesinking	5	1,350			785	565	5			4	1,051
40 Fancy articles, not elsewhere specified	3	4,216			1,625	2,591	2	1	400	78	8,400
41 Flouring and grist mill products	5	262,400	34,800	39,130	39,000	149,470	9	12	8,330	55	27,764

BY SPECIFIED INDUSTRIES: 1900—Continued.

BAY CITY—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1	\$358					\$816	\$761		\$55		\$1,119	\$1,030	\$80	\$1,411	12
507	263,389					47,181	245	\$7,001	39,710	\$225	279,675	272,372	7,303	807,117	13
9	5,030					1,377	914		811		9,024	8,881	143	21,620	14
445	194,278					50,693	3,000	12,793	34,900		783,429	783,429		1,259,617	15
416	142,664	1	\$480			53,000	1,200	6,434	45,376		1,003,248	1,061,043	2,205	1,441,101	16
79	44,900					3,528		617	761	2,150	55,780	55,655	65	117,724	17
		47	13,132			4,497	3,380	250	855		27,418	27,268	150	67,795	18
11	4,092					2,680	90	561	2,023		4,790	4,217	573	16,047	19
70	89,440					4,377	2,275	173	1,929		27,343	26,998	850	98,624	20
171	73,082					3,690	575	206	949	2,100	46,541	46,429	112	148,850	21
4	1,562	8	614			1,907	600	882	925		6,296	6,296		18,850	22
28	15,900					3,894	1,148	821	2,425		51,026	49,884	1,142	90,045	23
22	11,540	8	468	1	\$147	3,712	1,586	441	1,735		10,858	10,238	620	42,917	24
44	29,000	8	662	1	130	11,886	1,706	412	9,208	560	21,131	19,425	1,706	105,621	25
6	2,892			2	306	883	641	90	152		7,076	7,026	50	16,803	26
66	29,995			8	500	24,900	150	2,023	13,940	8,877	45,706	81,036	14,610	131,905	27
68	31,600					611	285	106	220		21,290	20,770	820	132,909	28
55	20,143					2,708	1,860	220	1,123		34,081	33,541	540	82,500	29
41	23,391	8	1,478			10,783	770	151	9,862		29,791	29,668	126	79,899	30
8	4,020					1,324	1,122	84	238		3,080	2,980	50	14,060	31
689	297,836	67	12,429			115,400	3,322	7,693	90,925	4,590	972,674	955,318	17,326	1,073,472	32

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

DETROIT.

\$3,943	\$16,177,088	10,460	\$2,366,768	1,295	\$174,235	\$10,844,058	\$312,065	\$131,403	\$3,785,906	\$314,984	\$52,349,347	\$51,344,784	\$1,004,563	\$100,892,893	1
45	19,290	20	6,666			9,392	2,628	274	6,490		69,217	68,512	705	123,225	2
14	6,215	11	2,910			7,380	1,140	78	6,162		14,146	13,660	485	55,792	3
20	8,167	1	192	2	200	1,567	409	405	5,693		5,398	5,398	205	22,986	4
80	84,165			1	201	15,908	11,056	359	3,463	1,000	71,525	69,437	2,088	186,545	5
207	115,920			2	442	20,897	16,521	1,326	2,747		98,442	88,662	4,780	374,692	6
16	9,858	36	6,427	3	430	4,426	1,986	88	402	2,000	12,009	11,686	873	48,506	7
51	21,354			1	112	11,767	10,476	398	843	50	44,075	42,504	1,571	143,455	8
395	169,947	248	75,078	2	132	176,021	2,275	2,578	171,508	260	702,272	698,972	3,800	1,212,742	9
12	4,963					9,827	870	641	2,610		22,480	22,161	819	43,608	10
45	12,982	85	16,388	22	4,191	28,973	400	630	22,893		49,853	49,063	790	118,561	11
50	18,592	231	38,377	100	12,832	10,740	3,526	1,298	5,916		85,018	83,127	1,891	230,433	12
208	76,733			43	8,619	17,818	2,475	2,059	13,284		233,896	233,049	8,847	376,034	13
798	332,100			6	650	103,075	7,025	6,206	88,784	1,000	920,192	907,499	12,693	1,632,783	14
489	250,019	86	19,231	28	4,539	87,240	37,888	6,048	48,309		1,008,908	972,586	31,322	1,876,952	15
32	13,080	8	525			865	600	265	265		4,992	4,992	4,500	25,400	16
106	42,627	34	6,392	12	1,214	8,558	3,950	879	3,724		129,482	128,107	1,825	228,967	17
950	471,193					270,772	5,046	2,266	13,957	249,504	839,162	838,121	1,041	1,863,216	18
17	5,853					1,385	804	44	487		4,093	3,685	408	19,795	19
8	3,118	2	624			632	360	53	119		6,680	6,482	198	14,094	20
811	147,405	7	2,730			24,298	5,578	4,525	13,882	813	351,821	347,906	3,915	672,665	21
1						213	110	92			12,226	12,011	214	17,964	22
5	2,900					1,091	516	67	575		5,845	5,800	45	17,500	23
557	292,219	256	65,019	14	2,033	104,139	67,070	2,645	31,796	12,628	482,124	477,682	4,442	1,302,015	24
165	37,615	1,123	204,801	19	2,523	166,353	17,200	4,851	67,803	76,499	1,049,768	1,042,842	6,921	1,829,292	25
29	27,942	578	153,450	7	300	35,604	21,892	1,129	12,443	200	248,907	246,176	2,732	596,937	26
80	16,160	605	111,263	2	856	51,692	5,670	839	29,172	10,011	400,757	398,791	1,966	692,293	27
13	6,746	10	1,783	1	156	6,775	2,100	610	4,065		142,873	140,658	2,220	193,198	28
101	43,930	11	2,580	5	875	34,396	2,440	1,462	7,194	23,800	70,912	69,332	1,580	232,740	29
181	68,837	225	40,140	1	150	80,192	28,410	2,836	48,946		510,617	501,466	9,151	880,289	30
122	55,437			2	468	5,386	300	1,278	3,808		141,810	140,776	1,034	242,359	31
43	21,408	443	100,560			81,423	6,800	1,251	23,872		217,879	215,930	1,449	481,730	32
597	273,768	971	269,823	15	875	1,037,486	13,137	30,998	993,351		1,996,473	1,981,662	14,821	4,915,913	33
29	12,687	26	7,134			7,895	6,947	126	1,422		5,097	3,883	1,214	66,116	34
114	56,560	5	3,500	3	406	23,610	2,904	1,159	20,856	3,600	153,838	151,134	2,700	382,921	35
249	95,979					84,390	5,110	513	21,633	57,634	244,205	243,588	617	527,189	36
44	16,538					1,781	1,256	16	509		4,503	3,303	1,200	36,845	37
56	33,985					1,475	140	260	1,075		72,421	69,621	2,800	137,577	38
2	803					566	536	30	30		75	75		6,050	39
7	1,400	71	7,000	2	248	2,372	659		213	1,500	1,136	1,018	120	16,295	40
55	27,754					17,179	120	2,559	14,500		1,250,284	1,253,614	5,620	1,462,070	41

TABLE 8.—MANUFACTURES IN CITIES

DETROIT—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.
42 Food preparations	5	\$95,767	\$3,050	\$4,030	\$11,730	\$43,957	5	7	\$7,832	26	\$10,872
43 Foundry and machine shop products	71	9,220,842	847,250	1,192,437	1,637,965	6,623,190	71	540	574,723	5,933	2,883,453
44 Fur goods	15	848,777	1,150	1,100	10,232	396,275	22	88	54,772	378	153,298
45 Furnishing goods, men's	3	75,575			27,761	47,874	2	15	11,024	126	22,153
46 Furniture, cabinetmaking, repairing, and upholstering.	46	70,814	4,500	3,525	7,837	54,902	54	7	5,100	100	46,867
47 Furniture, factory product	22	1,419,554	184,042	309,554	186,555	789,403	25	135	137,181	1,404	641,765
48 Furs, dressed	3	4,140			1,250	2,890	5			13	5,477
49 Glass, cutting, staining, and ornamenting.	5	20,568	500	500	6,537	13,011	7	1	550	44	17,726
50 Hardware	5	12,100			150	11,950	5			22	4,900
51 Hand stamps	6	14,732			8,050	6,682	7	4	2,181	15	5,175
52 Hats	5	36,253	1,000	1,500	9,352	23,501	2	7	5,160	31	9,553
53 Hats and caps, not including fur hats and wool hats.	5	68,083			6,253	61,830	10	8	5,510	94	46,590
54 Hosiery and knit goods	8	241,272	500	10,911	75,152	154,709	2	14	15,296	426	85,038
55 Instruments, professional and scientific.	3	3,200			1,150	2,050	1	3	1,725	8	4,250
56 Iron and steel	4	1,793,631	115,000	133,893	423,004	1,121,814		25	28,105	1,121	595,040
57 Ironwork, architectural and ornamental.	8	627,081	16,000	46,000	234,406	330,675	9	34	43,710	441	221,763
58 Liquors, malt	20	2,800,062	320,912	638,836	859,996	980,318	12	115	132,803	412	257,188
59 Lock and gun smithing	12	12,545	5,700	2,200	2,470	2,175	12			11	5,170
60 Looking-glass and picture frames	19	273,682	16,537	49,166	28,390	178,959	22	27	34,700	239	92,225
61 Lumber and timber products	5	251,195	54,000	15,575	42,200	139,420	6	21	18,500	137	86,590
62 Lumber, planing mill products, including sash, doors, and blinds.	30	941,857	143,809	129,751	100,866	507,931	20	50	45,165	970	383,655
63 Malt	3	1,216,655		214,500	85,500	586,475	1	7	9,869	51	30,650
64 Marble and stone work	15	214,375	43,400	12,850	32,050	126,075	22	2	1,900	186	192,263
65 Masonry, brick and stone	61	256,356	25,300	9,750	34,210	187,096	66	16	19,025	740	399,359
66 Matches	3	899,052	80,500	207,000	356,000	247,452	15	15	26,812	639	151,830
67 Mattresses and spring beds	3	155,009	10,000	31,500	27,537	85,932		26	21,802	117	51,193
68 Millinery, custom work	90	149,000	21,730	22,550	4,650	99,949	97	39	12,641	268	61,060
69 Mineral and soda waters	15	90,855	21,500	8,000	30,830	24,725	23	14	8,472	53	21,753
70 Models and patterns	7	17,260			4,550	12,710	10	1	625	92	46,480
71 Monuments and tombstones	7	51,659	12,000	8,050	11,700	19,009	9	2	1,312	35	25,000
72 Optical goods	7	204,189	60,000	18,000	15,737	113,452	6	32	25,020	174	48,850
73 Painting, house, sign, etc.	123	254,588	20,970	23,350	26,420	183,848	163	46	22,912	638	343,686
74 Paints	17	1,500,856	108,799	227,163	147,951	1,016,137	1	173	130,349	369	123,149
75 Paper hanging	17	19,920	250	1,450	3,555	15,074	20	1	208	86	38,619
76 Patent medicines and compounds	32	557,282	15,312	60,519	70,094	411,327	30	164	124,521	320	90,050
77 Paving and paving materials	18	245,591	8,700	10,938	46,529	179,424	19	23	18,878	446	234,915
78 Perfumery and cosmetics	7	213,172	10,000	25,000	11,850	106,322	4	94	60,543	170	38,318
79 Photography	35	269,300	8,000	22,125	49,220	189,745	38	39	21,365	143	65,008
80 Photolithographing and photoengraving.	6	46,921			15,800	31,121	6	13	9,660	68	34,396
81 Pickles, preserves, and sauces	5	100,001	3,000	1,500	10,951	93,640	2	32	41,257	178	48,189
82 Plastering and stuccowork	23	41,638	2,900	3,800	10,570	24,368	26	11	7,715	174	96,511
83 Plumbers' supplies	7	296,149	6,050	19,000	88,776	182,323	1	36	34,901	444	185,717
84 Plumbing, and gas and steam fitting	97	296,348	31,525	35,750	35,830	197,243	115	37	16,484	463	246,050
85 Printing and publishing, book and job.	91	927,233	1,325	1,500	441,822	482,686	102	426	165,476	831	394,501
86 Printing and publishing, newspapers and periodicals.	37	857,725	62,000	83,000	393,050	319,675	23	450	427,271	373	243,850
87 Regalia and society banners and emblems.	3	29,851			4,176	25,675	4	8	7,200	33	27,012
88 Roofing and roofing materials	15	237,471	40,598	18,102	88,897	139,934	22	16	22,730	131	56,266
89 Saddlery and harness	37	127,600	19,700	17,150	13,076	77,674	43	8	7,952	134	69,420
90 Scales and balances	3	102,625	4,000	20,000	28,225	50,400	3	15	6,210	33	15,753
91 Sewing machine repairing	3	1,075			300	775	4	1	182		
92 Ship and boat building, wooden	10	75,021	16,750	10,100	5,185	42,086	10	8	5,556	91	47,836
93 Shirts	3	24,117			6,585	17,532	2	4	3,756	34	7,609
94 Slaughtering and meat packing, wholesale.	3	1,092,001	78,895	109,890	91,321	811,895	2	56	51,221	291	150,482
95 Slaughtering, wholesale, not including meat packing.	13	92,775	28,600	20,100	5,525	38,550	16	5	5,860	47	27,374
96 Soap and candles	5	818,240	20,000	68,000	88,945	146,295	4	24	20,652	72	30,082
97 Steam fittings and heating apparatus	11	2,021,313	104,500	432,541	546,038	938,234	5	111	144,181	1,251	613,238
98 Tinsmithing, coppersmithing, and sheet-iron working.	72	471,350	37,500	62,900	133,210	237,740	33	30	33,189	469	176,784
99 Tobacco, chewing, smoking, and snuff	3	894,300	49,611	192,205	152,406	500,088	3	156	202,689	1,173	322,817
100 Tobacco, cigars and cigarettes	184	1,035,825	85,400	47,850	38,357	914,128	195	141	154,587	2,360	630,186
101 Tools, not elsewhere specified	5	66,074	900	750	37,036	27,388	3	4	6,800	42	20,691
102 Trunk and valises	3	88,301			9,055	79,246	5	14	18,466	103	40,657

BY SPECIFIED INDUSTRIES: 1900—Continued.

DETROIT—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
23	\$10,312	3	\$560			\$16,540	\$180	\$1,035	\$15,325		\$198,874	\$191,618	\$7,256	\$264,198	42
5,750	2,319,593	60	12,647	117	\$21,178	604,085	40,018	39,867	601,346	\$12,854	3,379,132	3,202,939	86,193	8,948,311	43
126	76,002	245	76,036	7	1,200	47,599	16,290	2,302	28,007	1,000	880,927	879,446	1,481	1,352,243	44
16	4,920	110	17,233			3,890	2,995	200	695		50,894	50,026	868	161,200	45
88	48,465	12	2,670	5	782	11,025	7,822	444	2,801	458	74,555	73,728	807	187,600	46
1,273	521,833	37	8,850	94	11,023	147,301	15,505	12,164	117,132	2,500	796,269	779,464	16,805	1,865,280	47
13	5,477					1,361	616	50	695		112,461	111,862	599	126,320	48
41	16,736	8	990			4,586	2,340	217	2,029		19,697	19,251	446	61,064	49
9	4,353	22	4,900	5	624	5,550	3,270	31	2,240		10,690	10,430	260	28,100	50
		1	168			2,710	1,802	78	835		6,710	6,588	122	21,995	51
21	8,224	5	824	5	510	3,358	893	38	1,672	750	14,334	13,562	772	41,594	52
69	40,560	24	5,552	1	178	6,117	3,250	276	2,591		122,480	121,400	1,080	202,212	53
23	9,915	350	68,936	53	6,237	46,376	7,557	701	28,053	10,065	223,539	220,898	2,641	441,850	54
8	4,260					665	440	225	225		1,010	700	310	12,595	55
1,121	695,040					123,711	8,750	13,745	99,832	6,384	2,158,854	1,908,539	190,315	3,198,881	56
440	221,283	1	480			16,032	4,112	3,711	8,200		504,142	496,692	7,450	881,077	57
999	252,510	13	4,076			1,277,931	47,767	30,820	1,199,344		547,378	502,350	45,028	2,593,093	58
9	1,764	1	442	1	364	2,005	1,750	174	171		2,554	2,247	307	16,095	59
193	82,108	42	9,619	4	468	13,459	5,265	2,296	5,898		162,469	160,964	1,505	364,885	60
137	86,590					16,221	4,860	4,571	6,790		271,095	270,495	600	417,863	61
938	378,225	11	2,586	26	2,924	140,915	8,260	7,062	102,993	22,600	936,394	927,112	9,282	1,684,220	62
51	80,680					24,944		4,522	20,419		592,611	575,392	17,219	723,286	63
186	132,263					37,202	2,366	1,500	4,146	29,100	203,652	203,652	2,120	420,467	64
740	399,359					113,354	2,339	10,309	10,309	98,736	482,165	480,324	1,841	1,188,649	65
296	90,453	218	46,633	125	18,750	133,417	3,686	3,686	129,811		1,042,554	1,039,854	2,700	1,745,030	66
89	43,308	26	7,488	2	312	25,316	420	1,088	23,808		198,116	196,282	1,834	337,883	67
		261	60,155	7	925	35,519	26,266	1,216	7,937	100	241,889	240,093	1,796	458,155	68
57	24,648			1	85	11,251	3,876	411	6,967		39,363	39,363	541	127,377	69
92	46,480					2,735	1,824	107	804		4,485	4,485	451	67,500	70
35	25,096					4,427	191	417	3,569	250	23,417	22,990	427	75,236	71
84	31,777	55	11,218	35	5,825	13,996	2,180	1,725	10,016	75	110,768	109,657	1,111	225,952	72
636	348,364	1	130	1	192	35,170	17,767	1,686	15,602	115	241,406	240,500	906	814,941	73
279	104,153	79	16,337	11	1,659	216,216	3,804	7,022	205,390		1,096,789	1,086,078	10,711	1,737,300	74
85	98,263	1	386			3,502	2,094	79	1,320		26,494	26,346	148	85,658	75
100	40,599	217	49,051	3	400	166,821	6,860	2,302	142,359	15,300	255,310	251,347	3,963	859,358	76
446	234,945					23,880	1,560	975	14,345	7,000	415,186	413,588	1,598	768,617	77
90	11,111	139	27,138	1	100	69,106	5,770	2,762	60,574		201,078	203,060	1,618	474,702	78
102	55,187	37	9,211	4	607	37,010	15,863	1,204	19,898	75	77,113	75,626	1,487	277,889	79
67	98,796	1	600	4		11,298	2,451	174	8,673		11,308	9,213	2,095	89,035	80
65	29,157	113	19,032			26,562	5,414	976	20,172		555,163	551,339	3,824	707,869	81
167	95,165	7	1,376			14,578	2,281	306	4,857	7,134	71,312	70,382	930	220,708	82
404	178,017	40	7,700			76,360	4,585	2,847	68,928		349,234	337,275	11,959	700,086	83
462	245,914			1	136	29,077	17,107	1,128	10,792	50	471,676	467,635	4,041	971,981	84
612	347,151	191	43,204	28	3,946	128,959	42,336	5,254	31,696	49,664	883,638	870,509	13,124	1,417,275	85
358	240,644	6	2,016	9	1,190	237,291	14,739	6,870	148,611	67,071	285,512	272,856	12,656	1,603,652	86
24	12,480	59	14,532			9,635	2,580	60	4,495	2,500	66,808	66,588	270	185,251	87
129	55,648	2	618			36,158	886	1,230	32,848	1,194	159,333	158,130	1,203	328,890	88
122	50,392	10	2,471	2	457	17,846	7,560	3,244	7,012		136,067	133,566	2,501	262,946	89
32	15,013			1	145	15,244	600	248	14,496		28,294	27,396	898	78,885	90
						739	624		115		1,213	1,158	55	3,143	91
91	47,836					9,426	2,820	635	6,271	200	35,983	35,214	769	123,635	92
2	1,404	32	6,205			2,592	990	203	1,399		26,464	26,274	190	44,846	93
291	150,482					62,793	720	8,193	53,880		2,344,089	2,328,667	15,422	3,167,430	94
47	27,374					7,794	496	924	6,434		784,351	783,302	1,049	880,319	95
53	26,340	14	3,242	5	500	27,606	2,140	1,491	23,975		274,555	268,099	6,456	409,813	96
1,289	611,458	12	1,800			54,808	2,636	8,310	43,666	250	823,845	823,845	85,536	2,104,066	97
432	171,100			37	5,684	45,062	12,557	2,733	29,737	85	458,978	458,225	5,753	847,365	98
474	159,647	698	132,962	1	208	1,935,032	10,080	18,808	1,906,144		1,174,039	1,132,664	41,375	3,746,045	99
602	254,489	1,029	411,546	148	14,151	641,981	27,794	6,180	608,637		900,230	895,131	5,099	2,790,268	100
88	13,266	4	1,425			11,848	1,082	502	10,264		7,651	7,651	8,953	56,332	101
88	35,729	10	3,600	4	728	11,148	6,700	558	3,890		93,281	97,730	651	208,455	102

TABLE 8.—MANUFACTURES IN CITIES

DETROIT—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.
102 Umbrellas and canes.....	4	\$36,475			\$2,825	\$33,650	4	8	\$3,728	74	\$16,338
103 Varnish.....	3	914,906	\$27,500	\$164,497	51,650	671,259	7	61	150,000	102	47,700
104 Watch, clock, and jewelry repairing.....	62	43,565	1,800	2,500	15,860	23,405	68	2	676	74	44,845
105 Wirework, including wire rope and cable.	10	197,857	21,100	69,950	23,600	83,207	9	18	16,990	217	64,244
106 Wood, turned and carved.....	14	45,510	7,100	7,200	18,075	13,135	18	1	500	43	19,912
107 All other industries <sup>1</sup> .....	128	25,182,919	1,816,202	2,136,609	12,470,868	8,729,180	126	681	648,535	8,225	8,515,617

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

GRAND RAPIDS.

		\$23,493,760	\$1,879,079	\$3,460,600	\$5,741,799	\$12,352,282	877	1,197	\$1,166,472	14,361	\$5,904,670
1 All industries.....	824										
2 Bicycle and tricycle repairing.....	21	10,785			6,998	3,795	25			14	5,843
3 Bicycles and tricycles.....	3	265,099	3,500	24,105	57,895	179,699	1	25	16,611	197	87,902
4 Blacksmithing and wheelwrighting.....	49	63,433	19,200	16,655	7,828	9,750	57			39	22,590
5 Bookbinding and blank book making.....	3	27,197			12,334	14,863	6			32	16,473
6 Boots and shoes, custom work and repairing.	54	14,843	2,345	3,275	4,178	5,045	56			10	8,715
7 Boxes, wooden packing.....	3	21,959	20	30	7,062	14,847	3	2	850	94	10,508
8 Bread and other bakery products.....	40	509,780	39,675	94,450	247,959	127,696	40	56	34,779	169	85,843
9 Brooms and brushes.....	6	169,745	12,232	16,650	20,518	114,345	8	12	12,528	256	56,514
10 Carpentering.....	38	71,467	1,600	2,700	14,374	62,783	48	5	1,615	286	109,753
11 Carpets, rag.....	6	2,593	300	300	925	1,068	7			8	1,202
12 Carriages and wagons.....	10	906,008	48,250	105,903	81,223	670,632	9	21	21,276	289	123,635
13 Clothing, men's, custom work and repairing.	43	72,584	3,150	3,000	4,112	57,322	50	4	3,852	147	61,407
14 Clothing, men's, factory product.....	3	109,500			7,000	102,500	2	4	6,580	141	47,300
15 Clothing, women's, dressmaking.....	14	8,009			1,725	6,284	16			90	18,415
16 Confectionery.....	9	167,870	1,400	1,200	44,120	121,150	11	17	15,170	126	41,572
17 Cooperage.....	3	58,519	18,200	9,700	7,818	22,801	2	3	3,550	73	26,110
18 Dyeing and cleaning.....	3	17,100	6,000	7,000	2,000	2,100	3			16	4,300
19 Electrical construction and repairs.....	3	28,600			1,700	26,900	1	9	7,507	26	13,765
20 Flouring and grist mill products.....	9	664,514	313,432	78,850	105,500	166,682	14	22	20,285	92	44,924
21 Foundry and machine shop products.....	28	1,368,190	96,249	254,695	395,126	622,030	23	106	71,316	870	381,945
22 Fur goods.....	4	19,925			1,775	18,150	5	1	1,000	30	10,308
23 Furniture, cabinetmaking, repairing, and upholstering.	9	5,365			1,464	3,901	12	1	400	18	6,086
24 Furniture, factory product.....	84	3,361,964	528,475	1,546,863	708,740	5,577,886	11	923	418,299	6,236	2,581,667
25 Hats and caps, not including fur hats and wool hats.	4	93,878	3,000	20,000	18,976	51,898	4	14	18,200	126	33,600
26 Hosiery and knit goods.....	5	324,113	16,627	32,476	90,085	184,925		16	18,886	253	79,334
27 Leather, tanned, curried, and finished.	3	477,511	18,789	30,217	20,659	357,846	1	3	11,340	101	46,324
28 Lock and gun smithing.....	5	12,105	2,000	5,000	2,350	2,255	5			8	4,100
29 Looking-glass and picture frames.....	7	19,829	2,000	1,000	1,486	15,343	8	3	4,500	13	6,682
30 Lumber and timber products.....	3	689,304	119,418	36,336	119,291	364,709	2	25	24,468	255	130,485
31 Lumber, planing mill products, including sash, doors, and blinds.	8	513,926	42,500	57,700	49,031	364,695	6	19	19,334	255	116,927
32 Masonry, brick and stone.....	14	15,143	900	1,550	6,383	6,310	20	2	825	169	73,394
33 Millinery, custom work.....	21	43,950	400	3,100	1,775	38,675	24	3	1,950	122	38,173
34 Mineral and soda waters.....	3	10,850		50	9,600	1,300	4			7	3,920
35 Monuments and tombstones.....	6	22,062	1,200	875	2,685	17,302	4	6	3,180	15	9,649
36 Painting, house, sign, etc.....	31	33,682	4,050	6,860	5,651	17,121	40	7	3,132	93	40,485
37 Patent medicines and compounds.....	9	405,701	15,934	43,619	57,455	288,693	7	33	34,055	87	34,419
38 Paving and paving materials.....	18	56,362	900	2,200	7,375	45,887	25	1	400	211	83,944
39 Photography.....	17	46,615	800	2,400	17,700	25,745	20	5	5,664	44	19,943
40 Plastering and stucco work.....	3	1,355			630	725	5			3	1,560
41 Plumbing, and gas and steam fitting.....	20	87,193	4,900	4,400	3,362	69,531	29	9	3,998	128	67,948
42 Printing and publishing, book and job.	22	1,062,557	1,500	5,000	737,436	318,721	14	20	21,530	244	88,789
43 Printing and publishing, newspapers and periodicals.	16	249,209			135,593	113,611	21	80	53,131	209	128,183
44 Saddlery and harness.....	21	76,332	9,200	8,000	3,040	56,092	22	3	3,000	41	18,373
45 Shirts.....	6	43,772			8,000	35,772	6	33	19,094	122	40,314
46 Smithing, coppersmithing, and sheet-iron working.	31	137,833	25,884	51,090	15,886	44,973	42	5	2,550	77	87,144

BY SPECIFIED INDUSTRIES: 1900—Continued.

DETROIT—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.					MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.		Fuel and rent of power and heat.
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
29	\$7,788	51	\$8,550			\$5,980	\$4,990	\$380	\$620		\$138,431	\$137,960	\$171	\$180,594
91	45,020	11	2,680			260,620	180	10,190	250,250		780,882	786,302	8,580	1,518,000
68	42,861	10	2,178	1	\$306	16,860		140	2,231	\$1,762	18,715	17,794	921	121,859
182	48,954	66	12,980	29	2,880	18,799	2,664	1,686	14,459		95,799	93,194	2,605	228,761
48	19,912					2,587	1,295	276	776	250	19,423	17,593	1,890	62,114
7,558	8,896,819	498	91,634	229	27,164	1,089,703	69,811	111,905	882,896	31,091	18,884,511	18,619,778	264,733	21,320,972

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

GRAND RAPIDS.

12,625	\$5,518,600	1,613	\$365,885	123	\$20,125	\$1,950,456	\$162,152	\$111,798	\$1,538,536	\$137,970	\$12,848,978	\$12,107,893	\$241,585	\$24,824,042	1
14	5,848					3,026	1,989	9	658	375	10,759	10,393	366	32,248	2
180	84,720	17	8,182			40,581	1,200	859	34,084	4,438	158,638	154,478	4,160	329,556	3
69	22,590					4,537	3,146	484	907		23,290	21,806	1,394	98,027	4
16	9,124	16	7,349			13,422	983	114	4,824	7,501	9,411	9,051	800	45,855	5
10	8,715					8,471	2,995	67	409		13,484	12,780	754	43,820	6
88	10,408			1	100	2,253	725	3	1,525		54,269	58,749	520	74,124	7
137	79,976	52	5,867			76,230	4,817	1,387	70,035		432,626	432,626	9,801	752,123	8
92	37,186	164	19,328			19,768	385	1,417	17,966		78,664	77,127	1,537	200,088	9
286	109,753					24,890	1,528	82	1,850	20,980	255,173	264,450	723	452,047	10
2	490	6	812			809	226	13	70		1,113	1,044	69	5,564	11
289	123,635					31,325	1,891	3,039	29,852	100	389,373	376,830	13,043	682,992	12
98	49,293	47	11,834	2	280	21,175	10,655	878	5,398	4,944	88,390	87,694	696	280,721	13
48	28,400	93	28,900			6,648	2,723	500	3,420		114,467	113,985	482	210,000	14
		90	18,418			2,151	1,880		274		38,163	37,998	225	71,855	15
71	28,486	55	18,086			24,023	7,630	728	16,665		241,210	238,600	2,610	301,971	16
73	26,110					1,478	63	405	1,010		66,988	66,288	750	103,900	17
5	2,860	11	1,500			1,135	480	280	375		2,892	2,616	376	13,000	18
26	18,765					4,022	1,392	130	2,560		33,964	33,870	94	66,781	19
92	44,024					65,432	125	4,651	60,656		1,618,049	1,603,822	14,227	1,886,283	20
801	879,945	9	2,000			124,788	9,596	6,820	102,272	6,100	494,224	467,487	26,787	1,240,690	21
6	8,782	24	6,576			4,270	2,764	71	1,485		27,850	27,750	100	49,490	22
18	6,036					1,729	1,239	8	482		8,885	8,589	246	24,051	23
6,126	2,500,145	44	10,572	60	10,950	433,016	13,508	45,957	373,461		8,344,888	8,278,278	66,610	7,494,607	24
88	15,630	93	17,910			5,200	648	250	4,302		64,690	63,460	1,230	164,500	25
109	44,201	144	85,133			86,703	1,370	965	29,683	4,785	315,982	308,033	7,949	488,058	26
101	46,324					24,697		1,919	22,778		562,548	562,198	350	697,525	27
7	3,928					785	516	79	193		1,625	1,420	205	12,338	28
13	6,612	1	172			3,644	2,078	241	1,825		17,308	17,041	267	40,000	29
240	126,575			15	3,910	30,674	820	4,487	25,657		290,488	280,488		538,632	30
245	115,727			10	1,200	40,000	900	8,171	39,529		595,472	593,319	2,153	865,930	31
167	73,194			2	200	44,898	190	29	2,458		158,020	157,920	100	344,704	32
4	2,265	114	35,543	4	360	27,051	14,849	1,061	11,141		131,392	130,708	684	215,025	33
7	3,920					1,068	860	15	633		4,500	4,365	135	20,000	34
15	9,649					1,435	1,000	74	861		11,790	11,287	503	35,892	35
93	40,455					4,224	1,339	167	1,511		31,384	31,145	239	106,664	36
54	26,148	33	8,271			113,655	1,670	1,741	110,029	215	164,649	161,787	2,862	424,917	37
211	83,944					2,403	170	42	1,691	500	139,013	139,013	598	284,218	38
28	14,547	10	5,396			7,019	4,727	143	2,749		29,846	28,176	1,670	83,948	39
3	1,560					201	56		145		2,483	2,470	13	6,825	40
127	67,827			1	121	12,882	4,384	466	7,882	150	115,047	114,552	495	254,430	41
187	75,258	55	13,137	2	244	26,651	9,597	801	14,827	1,423	84,609	80,859	3,750	278,431	42
193	122,237	12	5,496	4	450	52,335	5,646	677	93,007	7,405	87,077	80,746	6,331	400,910	43
41	18,373					5,584	2,884	548	2,152		88,146	81,713	1,433	139,170	44
28	17,310					14,049	1,648	127	6,874		45,688	44,913	775	145,054	45
77	37,144	94	23,504			6,635	3,293	662	2,020	60	64,521	63,670	851	147,300	46

STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

GRAND RAPIDS—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 Tobacco, cigars and cigarettes	36	\$113,191	\$2,000	\$4,100	\$2,923	\$104,168	86	16	\$9,092	226	\$79,164
48 Tools, not elsewhere specified	4	5,707		300	1,198	4,209	2	1	300	5	2,138
49 Watch, clock, and jewelry repairing	20	14,873			4,838	10,035	19			20	12,394
50 Wood, turned and carved	12	218,121	18,396	46,200	78,508	80,017	10	22	22,160	272	109,240
51 All other industries <sup>1</sup>	86	5,723,099	494,603	827,701	2,590,010	1,810,695	91	255	250,141	2,111	885,772

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

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1 All industries	291	\$1,617,656	\$273,428	\$625,426	\$920,187	\$2,798,615	309	389	\$362,462	4,206	\$1,066,680	
2 Bicycle and tricycle repairing	4	6,575	200	600	4,100	1,675	4	1	300	8	4,062	
3 Blacksmithing and wheelwrighting	23	11,074	1,948	2,850	8,485	2,821	27			19	11,472	
4 Boots and shoes, custom work and repairing	14	2,982	50	435	1,500	997	14			3	1,103	
5 Bread and other bakery products	12	100,062	6,125	23,200	50,682	20,055	10	4	2,621	38	18,291	
6 Brooms and brushes	4	2,187	25	75	525	1,562	4			6	1,850	
7 Carpentering	14	19,972	200	2,000	9,500	8,272	15			86	41,316	
8 Carriage and wagon materials	3	281,082	1,500	13,988	52,529	213,067	1	16	18,235	991	154,950	
9 Carriages and wagons	3	854,960	40,000	82,213	61,155	671,592	2	68	48,811	636	241,125	
10 Clothing, men's, custom work and repairing	14	22,453			2,325	20,128	15	1	400	41	20,040	
11 Clothing, women's, dressmaking	7	1,950			725	1,225	7			26	5,202	
12 Clothing, women's, factory product	6	205,911	2,000		41,374	162,537	6	44	56,978	413	123,109	
13 Corsets	5	395,535	8,500	29,615	44,852	312,568	3	61	62,658	481	119,886	
14 Dyeing and cleaning	3	3,940	1,000	2,000	850	90	3			2	750	
15 Flouring and grist mill products	4	103,594	10,290	24,000	32,500	80,804	3	10	7,996	26	13,618	
16 Foundry and machine shop products	11	334,674	46,100	70,200	79,084	139,290	12	30	29,570	185	57,555	
17 Furniture, cabinetmaking, repairing, and upholstering	5	3,025			1,400	1,625	7			9	4,551	
18 Lumber, planing mill products, including sash, doors, and blinds	4	98,650	7,100	23,900	33,825	33,825	5	7	4,836	55	80,742	
19 Masonry, brick and stone	3	21,755	1,000	1,000	2,725	17,030	3	6	8,184	58	28,947	
20 Millinery, custom work	17	43,026	1,000	3,000	2,375	36,051	22	1	624	53	14,077	
21 Mineral and soda waters	8	18,500	5,000	7,000	3,500	3,000	8	2	716	6	2,984	
22 Monuments and tombstones	3	35,732		300	5,300	30,123	3	2	1,200	46	18,450	
23 Painting, house, sign, etc	13	6,220	500	500	3,330	1,890	14	1	500	55	26,597	
24 Paving and paving materials	3	7,300	200	600	5,850	650	5			26	10,750	
25 Photography	8	13,110			9,600	3,510	9			8	2,871	
26 Plumbing, and gas and steam fitting	7	23,021	1,000	2,000	2,300	18,621	11	1	500	30	23,736	
27 Printing and publishing, book and job	3	14,286			11,792	2,494	6			15	7,997	
28 Printing and publishing, newspapers and periodicals	6	73,361	5,000	9,000	31,302	28,059	4	25	17,216	54	30,071	
29 Saddlery and harness	7	11,923			2,498	9,425	11	1	150	11	5,820	
30 Tinsmithing, coppersmithing, and sheet-iron working	14	13,150	300	450	4,275	8,125	21	1	260	30	16,879	
31 Tobacco, cigars and cigarettes	7	16,087	1,100	2,325	486	12,176	11	1	250	25	8,429	
32 Watch, clock, and jewelry repairing	8	5,715	500	1,000	2,500	1,715	9			9	4,075	
33 All other industries <sup>1</sup>	43	1,864,944	126,170	323,177	411,984	1,003,613	39	100	105,462	1,347	577,842	

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

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1 All industries	268	\$5,796,195	\$527,727	\$578,947	\$1,200,380	\$3,489,141	279	513	\$413,407	4,293	\$1,617,299
2 Agricultural implements	6	154,507	11,500	19,500	23,703	99,864	9	35	22,441	38	18,653
3 Bicycle and tricycle repairing	3	3,410			1,410	2,000	3			7	3,476
4 Blacksmithing and wheelwrighting	21	9,275	1,000	1,950	2,270	4,055	25			13	6,614
5 Boots and shoes, custom work and repairing	17	2,770		200	1,175	1,395	18			4	1,314
6 Bread and other bakery products	11	17,040	1,800	4,300	4,950	5,990	11	3	780	42	16,492
7 Carpentering	10	22,325	1,675	2,050	3,450	15,150	13			66	29,200
8 Carriage and wagon materials	4	192,858	7,000	29,343	44,636	111,879	4	6	1,961	237	71,873
9 Carriages and wagons	6	999,233	247,406	76,591	31,820	643,446	8	52	51,392	524	218,888
10 Clothing, men's, custom work and repairing	6	16,450			750	15,700	7	2	2,260	44	23,161
11 Clothing, women's, dressmaking	10	1,970			640	1,330	10			38	7,370

BY SPECIFIED INDUSTRIES: 1900—Continued.

GRAND RAPIDS—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
102	\$47,714	124	\$31,450	-----	-----	\$48,468	\$4,819	\$489	\$38,210	-----	\$136,329	\$135,710	\$619	\$304,789	47
5	2,138	-----	-----	-----	-----	1,045	222	11	812	-----	1,678	1,508	70	6,792	48
20	12,331	-----	-----	-----	-----	5,980	4,926	211	843	-----	8,354	8,178	176	30,117	49
272	100,240	-----	-----	-----	-----	12,301	1,178	1,356	9,767	-----	96,602	90,673	5,929	844,728	50
1,776	768,015	319	65,447	16	\$2,310	512,488	21,789	24,717	435,814	\$30,163	1,647,718	1,591,400	56,318	8,972,882	51

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

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2,914	\$1,321,023	1,270	\$342,211	22	\$3,416	\$480,757	\$48,780	\$22,448	\$344,807	\$64,722	\$4,223,891	\$4,106,325	\$117,566	\$7,587,526	1
8	4,032	-----	-----	-----	-----	1,124	732	47	315	-----	2,472	2,074	393	13,300	2
19	11,473	-----	-----	-----	-----	2,248	1,961	46	241	-----	11,124	10,177	947	40,772	3
3	1,102	-----	-----	-----	-----	807	746	2	59	-----	5,103	5,000	103	12,782	4
31	10,710	7	1,581	-----	-----	8,745	1,816	567	6,962	-----	68,191	65,830	2,361	185,365	5
5	1,850	-----	-----	-----	-----	151	140	4	7	-----	5,101	5,123	63	10,975	6
86	44,346	-----	-----	-----	-----	7,442	607	79	756	6,000	122,874	122,152	722	194,465	7
857	151,118	-----	-----	4	837	15,201	3,195	818	11,188	-----	297,462	289,486	7,976	628,042	8
620	234,953	16	6,172	-----	-----	57,185	2,378	4,838	42,664	7,905	814,175	798,687	15,488	1,808,958	9
23	18,411	18	6,629	-----	-----	3,700	2,678	81	1,041	-----	21,146	20,917	229	59,789	10
-----	-----	20	5,202	-----	-----	1,083	642	-----	441	-----	2,440	2,375	65	11,900	11
19	9,429	392	118,148	2	532	34,694	3,027	418	31,249	-----	277,440	274,715	2,725	558,370	12
52	22,086	424	96,000	5	700	83,069	3,145	1,148	78,776	-----	241,193	238,899	2,294	584,718	13
1	600	1	150	-----	-----	480	156	60	214	-----	448	448	43	2,920	14
26	13,648	-----	-----	-----	-----	9,475	750	987	7,733	-----	404,056	398,431	5,625	455,239	15
171	84,726	14	2,829	-----	-----	22,623	2,080	2,237	15,271	3,035	114,724	109,898	4,826	279,008	16
8	4,481	1	120	-----	-----	1,138	570	5	593	-----	7,715	7,356	359	15,880	17
55	30,742	-----	-----	-----	-----	1,913	270	-----	819	-----	70,243	68,407	1,836	118,280	18
58	28,947	-----	-----	-----	-----	810	-----	28	782	-----	36,845	36,745	100	98,632	19
6	2,984	53	14,077	-----	-----	9,131	5,191	243	3,692	-----	49,333	49,534	349	86,321	20
-----	-----	-----	-----	-----	-----	834	120	295	419	-----	5,766	5,591	175	18,669	21
46	18,450	-----	-----	-----	-----	11,558	421	110	1,027	10,000	19,505	18,955	550	55,030	22
55	26,597	-----	-----	-----	-----	1,414	795	10	609	-----	14,929	14,739	190	60,400	23
26	10,750	-----	-----	-----	-----	734	150	64	520	-----	32,336	32,156	180	62,950	24
2	791	6	2,083	-----	-----	2,489	1,693	33	763	-----	5,909	5,610	299	18,845	25
89	23,796	-----	-----	-----	-----	2,149	1,446	74	629	-----	42,744	42,549	195	77,840	26
13	7,477	2	520	-----	-----	1,091	848	38	205	-----	5,677	5,206	471	21,935	27
48	28,667	4	1,204	2	200	13,716	1,606	455	10,224	1,431	21,835	20,611	1,194	94,979	28
11	5,820	-----	-----	-----	-----	1,435	1,206	5	224	-----	11,677	11,548	84	20,605	29
30	16,879	-----	-----	-----	-----	2,588	1,871	87	430	200	33,429	33,107	262	70,600	30
18	7,552	-----	-----	7	877	8,486	396	99	7,941	-----	16,572	16,356	216	41,312	31
9	4,075	-----	-----	-----	-----	1,148	738	30	382	-----	2,512	2,475	37	12,375	32
1,039	490,046	306	87,496	2	300	172,196	7,508	8,711	119,226	36,751	1,458,375	1,391,651	66,724	2,525,760	33

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

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2,990	\$1,324,700	1,267	\$286,918	36	\$5,681	\$624,914	\$49,238	\$29,121	\$459,287	\$37,268	\$4,257,010	\$4,142,764	\$114,246	\$3,056,908	1
86	17,493	2	560	-----	-----	36,344	1,090	833	34,871	-----	82,135	79,235	2,900	188,506	2
7	3,476	-----	-----	-----	-----	923	750	31	142	-----	4,065	3,877	188	11,940	3
13	6,644	-----	-----	-----	-----	2,580	2,333	73	89	85	7,552	6,926	620	33,957	4
4	1,814	-----	-----	-----	-----	1,023	959	-----	24	40	5,031	4,821	210	14,286	5
38	15,700	3	702	1	90	8,314	2,469	151	694	-----	67,058	64,987	2,071	106,880	6
66	29,200	-----	-----	-----	-----	10,655	60	46	149	10,400	80,041	79,853	188	143,130	7
236	71,678	-----	-----	1	195	29,871	865	1,336	28,170	-----	153,648	143,339	4,759	278,141	8
503	212,239	21	6,649	-----	-----	49,130	1,284	2,582	45,264	-----	732,578	727,443	5,195	1,159,991	9
87	20,539	7	2,625	-----	-----	5,194	1,612	79	3,303	-----	21,735	21,438	350	59,940	10
-----	-----	38	7,370	-----	-----	1,132	961	11	160	-----	4,306	4,105	201	17,805	11

TABLE 8.—MANUFACTURES IN CITIES

KALAMAZOO—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					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 Clothing, women's, factory product	8	\$28,100			\$5,500	\$22,600	8	7	\$4,160	72	\$25,558
13 Flouring and grist mill products	5	36,759	\$8,500	\$3,950	13,425	10,884	5	5	2,992	10	5,329
14 Foundry and machine shop products	17	480,807	51,600	54,432	104,044	276,731	11	92	\$1,748	462	213,425
16 Furniture, factory product	4	7,575	50	2,400	2,700	4,425	4			10	5,282
16 Looking-glass and picture frames	3	4,614			250	4,364	4	4	1,000	6	3,472
17 Lumber, planing mill products, including sash, doors, and blinds	5	224,975	88,265	20,950	20,822	127,538	5	18	14,368	218	91,180
18 Masonry, brick and stone	4	80,085	500	500	2,490	26,595	8			84	44,880
19 Millinery, custom work	8	17,387			160	17,227	9	8	2,212	31	9,805
20 Painting, house, sign, etc	13	8,326	1,050	900	1,416	4,960	17			27	13,094
21 Patent medicines and compounds	3	844,150	6,800	89,900	6,900	296,550	2	35	46,320	69	49,483
22 Paving and paving materials	3	1,075			125	950	4			6	1,680
23 Photography	6	8,874			1,875	2,000	6	1	416	8	3,052
24 Plumbing, and gas and steam fitting	5	20,250			3,850	16,400	6	6	2,266	24	12,870
25 Printing and publishing, book and job	10	203,239	6,000	17,000	82,230	98,009	15	26	14,114	153	55,738
26 Printing and publishing, newspapers and periodicals	3	41,600	3,000	3,000	20,400	15,200	1	21	15,908	31	13,880
27 Saddlery and harness	5	10,590	2,000	2,000	440	6,150	5			4	2,160
28 Tinsmithing, coppersmithing, and sheet-iron working	6	7,200			2,500	4,700	7	1	780	23	11,576
29 Tobacco, cigars and cigarettes	19	84,304	250	375	1,127	82,552	14	6	5,828	161	96,868
80 Watch, clock, and jewelry repairing	5	21,650	10,000	3,000	1,800	1,850	6			6	3,470
81 All other industries <sup>1</sup>	53	2,793,706	129,331	280,206	804,522	1,570,617	40	185	172,431	1,863	557,773

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

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1	All industries	200	\$4,602,300	\$1,089,428	\$444,264	\$882,399	\$2,242,209	203	172	\$153,976	3,235	\$1,185,697
2	Bicycle and tricycle repairing	3	3,125			2,700	425	4			4	1,560
3	Blacksmithing and wheelwrighting	16	12,508	2,975	4,450	2,605	2,478	17			11	4,853
4	Boots and shoes, custom work and repairing	11	3,205	325	1,400	1,035	445	12			1	265
5	Bread and other bakery products	7	9,050	1,200	4,400	1,100	2,350	7			19	6,828
6	Carpentering	12	9,250	100	325	2,200	6,625	11			69	28,427
7	Clothing, men's, custom work and repairing	10	16,570	5,000	3,000	1,110	7,460	14			31	12,664
8	Clothing, women's, dressmaking	12	10,035	2,000	6,500	1,320	205	15			45	9,376
9	Confectionery	4	17,002	200	400	2,725	14,277	5	2	3,328	22	7,341
10	Foundry and machine shop products	4	152,472	12,200	80,800	35,018	74,454	1	12	11,819	99	39,946
11	Furniture, factory product	4	272,805	4,600	37,350	47,835	182,420	1	12	9,810	268	93,381
12	Looking-glass and picture frames	5	1,878			398	1,480	7			8	678
13	Lumber and timber products	3	1,715,057	878,000	59,600	123,524	655,033	10	23	25,755	622	240,601
14	Lumber, planing mill products, including sash, doors, and blinds	3	183,613	37,692	23,482	40,075	86,764	8	7	8,060	132	48,280
15	Masonry, brick and stone	4	5,080			650	4,430	5			60	25,618
16	Millinery, custom work	8	9,533	200	1,000	103	8,140	7	3	327	22	5,236
17	Painting, house, sign, etc	16	5,613	625	710	1,420	2,852	18	1	34	33	18,231
18	Photography	4	5,050	600	100	3,600	750	5			6	3,137
19	Plumbing, and gas and steam fitting	4	17,725			4,225	13,500	3	2	598	25	11,681
20	Printing and publishing, newspapers and periodicals	4	14,783			9,750	5,033	7			35	17,181
21	Saddlery and harness	3	6,250	500	1,600	650	3,500	3			2	1,090
22	Tinsmithing, coppersmithing, and sheet-iron working	5	6,667	1,000	1,000	1,395	3,272	1			9	5,321
23	Tobacco, cigars and cigarettes	11	20,949	3,600	3,700	1,055	12,594	12	2	1,000	40	15,321
24	Watch, clock, and jewelry repairing	7	4,534			2,175	2,359	5			4	2,034
25	All other industries <sup>1</sup>	35	2,093,286	132,811	264,047	544,975	1,161,453	30	108	93,715	1,678	580,648

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

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1	All industries	480	\$7,658,806	\$531,125	\$917,919	\$1,658,744	\$4,451,018	505	394	\$371,741	4,300	\$1,936,558
2	Bicycle and tricycle repairing	7	6,445	100	200	2,370	3,775	8			12	4,159
3	Blacksmithing and wheelwrighting	80	45,895	12,490	16,425	5,810	11,170	34			22	9,370
4	Bookbinding and blank book making	3	6,794			4,700	2,094	3			11	3,175
5	Boots and shoes, custom work and repairing	7	1,965		150	1,150	665	8			2	680
6	Bottling	15	21,296	3,450	6,200	2,943	8,703	17			16	6,936

BY SPECIFIED INDUSTRIES: 1900—Continued.

KALAMAZOO—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
9	\$5,548	63	\$19,810			\$2,726	\$880	\$110	\$1,786		\$51,580	\$51,180	\$450	\$112,050	12
10	5,329					1,385	280	590	575		110,968	109,418	1,550	131,703	13
462	213,425					48,516	2,792	2,876	37,848		301,569	290,956	10,613	761,771	14
10	5,282					865	640	60	175		5,362	5,172	180	15,400	15
6	8,472					1,035	814	40	181		4,504	4,739	65	13,564	16
188	86,180			80	\$5,000	12,468	1,000	1,733	9,680	\$50	244,020	241,170	2,850	401,261	17
84	44,880					75,095		10	85	75,000	78,420	78,360	60	226,975	18
		84	9,805			6,405	4,477	417	1,511		96,893	96,483	350	71,700	19
27	18,094					683	466	44	173		12,133	12,122	66	39,787	20
40	32,719	29	16,764			29,808	5	1,509	27,794		128,948	127,350	1,598	306,200	21
6	1,680					1,208				1,208	8,966	8,966		14,950	22
5	2,076	8	976			1,892	1,804	30	508	50	6,194	5,999	193	17,875	23
24	12,870					2,348	1,850	103	895		23,628	23,365	263	57,200	24
113	48,202	45	7,586			15,125	2,409	1,059	11,657		75,055	73,605	1,450	194,448	25
29	13,470	1	260	1	100	6,092	890	883	4,419	400	14,644	13,829	815	66,985	26
4	2,160					1,149	910	122	117		7,368	7,234	134	14,700	27
23	11,576					1,555	1,330	101	124		16,010	15,903	102	86,777	28
140	92,078	20	4,680	1	110	16,032	3,036	101	12,895		124,295	123,869	426	283,144	29
5	3,470					722	544	143	35		4,276	4,164	112	12,200	30
865	348,406	1,001	209,181	2	186	205,139	13,778	14,563	236,763	85	1,848,748	1,772,404	76,389	3,275,066	31

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

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2,558	\$1,057,066	560	\$113,911	122	\$15,320	\$386,488	\$16,687	\$41,708	\$315,631	\$12,562	\$2,631,279	\$2,556,585	\$74,694	\$5,097,059	1
4	1,560					415	348		67		2,461	2,301	70	6,566	2
11	4,953					1,029	716	204	109		7,359	6,740	619	24,145	3
1	265					552	520	82			2,978	2,794	184	9,460	4
17	6,574	2	254			954	640	114	200		19,476	18,904	482	38,089	5
69	28,427					109	54	5	50		58,566	58,566		104,951	6
21	9,589	10	3,075			1,272	807	202	263		10,917	10,759	158	34,657	7
12	4,931	45	9,376			518	292	142	84		2,210	1,918	292	22,133	8
99	39,946	10	2,407			1,677	804	155	718		37,853	37,372	481	56,205	9
248	92,006	2	500	13	878	18,718	1,086	2,163	10,469		57,522	52,047	5,475	127,441	10
2	510	1	168			984	720	32	232		2,292	2,204	88	6,400	12
622	246,591					98,878		19,523	74,955	4,400	605,834	605,834		1,223,918	13
127	47,380			5	900	7,231		1,389	5,842		58,743	58,713	30	134,041	14
60	25,618					851			851		53,989	53,989		107,838	15
		22	5,286			1,090	1,433	151	406		20,884	20,708	126	38,525	16
33	18,231					469	404	17	48		10,117	10,102	15	45,023	17
5	2,775	1	362			707	636	31	100		2,855	2,735	120	9,800	18
25	11,684					2,336	680	1,367	289		42,163	41,613	555	65,300	19
30	14,991	6	2,190			4,402	1,029	220	2,991	162	8,235	7,755	480	37,502	20
2	1,090					719	540	117	62		2,788	2,693	90	6,605	21
9	5,821					1,114	518	100	496		9,378	9,293	85	20,783	22
34	14,087	2	800	4	437	8,604	1,240	64	7,800		21,017	20,733	234	56,337	23
4	2,034					1,128	845	12	271		3,058	2,983	75	11,172	24
1,118	478,500	460	88,943	100	13,165	231,460	8,375	13,548	206,537	8,000	1,471,198	1,410,947	60,251	2,642,424	25

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

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4,288	\$1,823,485	547	\$107,505	31	\$5,568	\$504,269	\$51,166	\$42,825	\$479,746	\$20,532	\$5,316,237	\$5,711,066	\$105,171	\$10,034,499	1
12	4,159					1,485	1,058	167	260		9,214	8,338	376	18,400	2
21	9,770					8,402	1,416	999	987		14,837	12,979	1,358	55,174	3
4	2,000	7	1,175	1	100	524	340	8	176		1,250	1,230	20	10,045	4
2	680					575	564		11		2,323	2,303	20	6,615	5
16	6,936					2,430	781	213	1,486		20,924	20,751	173	36,599	6

TABLE 8.—MANUFACTURES IN CITIES

SAGINAW—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND VILLAGES.	Number of establishments.	CAPITAL.					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.
7 Bread and other bakery products.....	15	\$11,340	\$8,300	\$19,500	\$8,585	\$5,005	15	1	\$260	81	\$18,477
8 Carpentering.....	24	88,850	5,000	10,710	5,080	17,580	25			88	49,075
9 Carriages and wagons.....	11	114,169	5,700	22,063	16,281	70,125	10	15	8,700	68	26,924
10 Clothing, men's, custom work and repairing.	21	41,190	1,600	4,500	2,880	32,210	25	1	800	81	39,571
11 Clothing, women's, dressmaking.....	26	6,488	200	500	2,928	2,805	26	2	1,500	127	21,348
12 Confectionery.....	4	8,850			3,600	5,250	4	4	560	20	5,712
13 Coopers.....	7	216,665	41,304	20,522	65,821	89,518	8	5	4,520	204	69,208
14 Flouring and grist mill products.....	4	194,700	19,000	48,500	64,200	68,000	4	11	9,000	35	19,664
15 Foundry and machine shop products.....	10	1,093,773	48,116	102,785	252,846	690,025	7	70	88,721	575	285,750
16 Fur goods.....	3	8,018	200	200	648	6,975	6			10	2,794
17 Furniture, cabinetmaking, repairing, and upholstering.	11	24,885	275	1,000	5,790	17,320	11	5	868	7	2,525
18 Furniture, factory product.....	4	92,077	2,000	15,000	14,561	60,516	5	6	6,000	92	36,187
19 Liquors, malt.....	5	271,208	20,700	65,000	70,518	114,990	4	11	13,960	45	26,809
20 Looking-glass and picture frames.....	4	3,725		200	425	3,100	8			5	1,980
21 Lumber and timber products.....	8	965,816	85,450	57,100	109,660	713,616	10	29	25,759	388	159,899
22 Lumber, planing mill products, including sash, doors, and blinds.	10	1,465,959	58,180	116,870	110,837	1,180,572	10	56	56,746	576	210,267
23 Masonry, brick and stone.....	18	7,110	900	2,550	1,185	2,475	14			81	38,770
24 Millinery, custom work.....	14	31,145	1,500	7,000	7,000	23,675	16	10	3,522	66	13,037
25 Mineral and soda waters.....	3	12,650	500	1,000	8,800	2,350	4			8	4,436
26 Painting, house, sign, etc.....	21	33,770	3,200	7,475	4,340	18,755	22	7	2,782	84	37,874
27 Patent medicines and compounds.....	4	3,592	400	1,400	252	1,540	5			5	500
28 Paving and paving materials.....	10	37,002	2,200	8,100	9,882	22,320	15	8	3,000	68	31,138
29 Photography.....	12	9,880		750	3,050	1,060	14			8	2,450
30 Plumbing, and gas and steam fitting.....	11	29,937	650	1,750	3,910	23,627	14	3	1,440	43	23,302
31 Printing and publishing, book and job.	11	105,717	2,500	17,596	68,774	22,847	16	2	1,100	57	23,527
32 Printing and publishing, newspapers and periodicals.	8	68,783	500	1,500	40,524	26,259	5	27	26,530	64	39,912
33 Saddlery and harness.....	11	18,944	1,800	750	7,925	8,469	10	1	600	52	22,440
34 Salt.....	10	181,569	47,789	42,900	41,000	49,880	6	8	4,840	68	31,662
35 Smithing, coppersmithing, and sheet-iron working.	18	81,840	3,400	7,500	7,750	13,190	20	8	4,436	42	18,418
36 Tobacco, cigars and cigarettes.....	19	56,510	2,005	3,650	1,848	49,007	20	3	2,000	117	50,332
37 Tools, not elsewhere specified.....	8	114,521	2,250	18,200	30,710	63,364	4	14	14,507	145	47,577
38 Watch, clock, and jewelry repairing.....	15	4,675	100	200	2,900	1,475	16			12	5,728
39 All other industries <sup>1</sup> .....	68	2,138,125	149,366	298,678	673,356	1,021,730	62	97	90,595	1,551	550,451

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

TABLE 9.—MANUFACTURES IN CITIES AND

	4,393	\$65,566,709	\$9,074,136	\$8,207,854	\$18,982,463	\$38,702,816	4,861	\$,067	\$2,555,181	37,529	\$15,813,371
2 Total for cities and villages.....											
1 Adrian.....	165	1,756,050	117,561	278,002	400,371	960,116	191	196	129,328	1,151	499,870
3 Albion.....	61	1,420,593	35,982	166,643	276,447	941,521	70	85	67,447	520	221,915
4 Allegan.....	54	193,463	29,185	30,595	51,960	82,313	66	9	5,166	184	65,871
5 Alpena.....	98	2,585,307	251,307	328,646	613,235	1,392,288	120	60	48,351	1,004	420,334
6 Ann Arbor.....	281	1,804,694	125,153	213,073	379,714	586,754	278	88	56,297	1,187	462,181
7 Au Sable.....	6	9,380	2,655	1,150	3,575	2,000	6	2	2,700	88	17,700
8 Battle Creek.....	177	7,954,492	322,031	634,529	808,225	5,589,707	190	448	409,557	2,328	1,079,934
9 Benton Harbor.....	89	1,215,244	69,656	163,256	524,691	457,641	98	58	47,550	700	247,166
10 Bessener.....	27	87,975	2,700	6,800	10,400	68,075	25	8	9,000	43	28,992
11 Big Rapids.....	59	554,666	52,877	99,524	185,108	267,157	64	22	17,848	454	180,285
12 Cadillac.....	63	2,553,064	862,073	91,048	330,432	1,269,516	86	34	28,858	788	362,660
13 Charlotte.....	65	360,900	18,895	51,925	116,314	173,766	82	43	23,363	327	120,069
14 Cheboygan.....	61	1,845,540	143,502	179,482	347,997	1,174,559	69	38	40,549	665	280,188
15 Chelsea.....	40	207,550	14,200	30,100	50,050	113,200	47	26	18,254	188	70,415
16 Coldwater.....	119	1,925,720	251,227	283,661	972,348	403,484	132	72	71,428	846	324,889
17 Dowagiac.....	71	1,215,933	20,550	54,690	77,594	1,054,099	81	78	55,316	667	383,495
18 East Tawas.....	23	193,176	24,250	24,450	34,270	106,131	24	10	8,800	71	25,686
19 Eaton Rapids.....	40	124,037	8,325	26,038	42,120	47,564	44	4	2,379	90	30,232
20 Flint.....	154	2,605,428	134,046	211,460	375,822	1,834,106	174	98	74,220	2,186	895,186
21 Grand Haven.....	56	576,910	43,950	104,082	152,854	276,624	64	23	15,324	533	194,478
22 Greenville.....	90	542,117	51,767	60,385	87,047	342,918	107	39	41,882	388	170,856
23 Hastings.....	57	350,792	7,650	40,594	80,018	222,580	66	14	12,935	347	125,772
24 Hillsdale.....	88	606,278	38,238	93,212	165,129	309,099	96	33	28,555	332	152,337
25 Hudson.....	74	395,090	21,546	43,765	90,197	239,582	85	28	18,105	227	106,860
26 Ironwood.....	47	163,090	30,285	20,000	33,375	78,980	52	2	1,720	134	66,288
27 Ishpeming.....	55	192,887	13,200	29,800	53,537	96,350	60	5	6,600	191	97,256
28 Lansing.....	164	2,018,219	129,229	291,740	570,375	1,026,875	188	176	138,613	1,575	647,788
29 Ludington.....	61	1,852,865	513,150	142,900	333,180	863,635	56	30	32,195	763	360,674
30 Manistee.....	140	5,608,707	2,055,805	625,423	930,553	1,996,926	133	105	99,194	1,745	772,354
31 Marine City.....	88	249,362	16,975	74,000	77,370	81,017	44	9	5,620	148	69,582

BY SPECIFIED INDUSTRIES: 1900—Continued.

SAGINAW—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			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.										
27	\$12,555	4	\$922			\$4,888	\$795	\$674	\$2,919		\$41,973	\$40,385	\$1,588	\$74,280	7
88	49,075					2,401	314	378	1,009	\$700	69,488	69,013	475	151,475	8
58	26,921					15,295	912	818	12,865	700	48,920	46,595	2,325	140,861	9
71	86,055	8	2,591	2	\$925	7,519	4,495	127	2,927		47,652	47,490	163	126,680	10
1	600	125	20,628	1	120	8,116	2,805	7	804		24,660	24,859	801	68,100	11
10	4,399	10	1,813			1,055	791	24	240		17,528	17,210	318	89,500	12
193	66,499			11	2,704	8,253	190	1,328	6,735		120,987	120,847	140	234,179	13
35	19,664					7,475		1,275	6,200		845,953	841,023	4,930	412,962	14
572	285,266			3	484	100,815	350	5,413	85,052	10,000	721,805	698,985	22,820	1,256,183	15
8	850	7	1,944			1,033	780	96	157		5,132	5,102	30	20,890	16
7	2,525					1,813		617	115		6,835	5,910	425	16,164	17
90	35,667	2	520			7,212	1,460	840	5,412		58,738	57,540	1,198	131,280	18
45	26,809					82,565	2,000	2,318	78,247		42,281	37,410	4,871	206,155	19
2	1,030	3	950			1,154	405	81	718		8,310	3,785	25	8,175	20
988	159,899					32,589	1,120	7,928	28,541		457,965	457,965		799,223	21
574	209,467	2	800			54,613	800	5,720	48,593		1,430,691	1,427,646	3,045	1,848,233	22
81	38,770					1,219	100	40	509	600	118,868	118,793	75	184,200	23
3	4,436	55	12,920	1	108	7,933	5,850	800	1,783		39,088	38,778	310	82,377	24
88	37,724			1	150	1,475	298	84	1,093		5,256	4,986	270	14,970	25
						4,626	2,684	809	1,633		48,958	48,783	170	110,287	26
				5	500	3,470	170	50	3,250		5,937	5,882	55	15,918	27
68	81,138					3,529	120	172	2,637	600	95,032	94,732	300	147,073	28
6	1,900	2	550			1,866	62	438	6		6,333	6,258	80	21,245	29
42	23,652	1	250			3,265	1,956	132	1,177		58,594	58,402	192	106,700	30
45	21,263	12	2,261			5,237	2,025	892	3,320		27,096	25,413	1,683	81,073	31
59	37,466	3	1,196	2	250	16,494	2,295	280	9,169	4,750	20,044	18,981	1,063	136,003	32
51	22,164			1	282	3,817	1,794	133	1,631	259	74,650	74,170	480	117,974	33
67	31,487			1	175	6,318		2,487	3,861		70,413	47,194	23,219	146,023	34
41	18,175			1	243	2,732	1,729	184	819		41,670	41,203	467	85,819	35
92	45,632	24	4,573			90,136	1,733	114	27,939		59,533	59,147	386	177,787	36
105	39,077	40	8,500	1	127	12,927	560	320	12,047	350	75,469	73,959	1,510	186,346	37
11	5,676	1	150			1,043	871	25	147		3,129	3,075	54	18,059	38
1,310	504,196	241	46,255			147,480	5,772	9,262	129,878	2,573	1,574,706	1,544,010	30,696	2,751,260	39

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

VILLAGES UNDER 20,000 IN POPULATION: 1900.

32,834	\$14,759,078	4,341	\$1,002,847	854	\$51,946	\$5,790,973	\$306,806	\$490,869	\$4,530,553	\$372,745	\$42,158,807	\$11,214,865	\$914,502	\$70,867,077	1
974	464,979	168	33,197	11	1,703	164,183	14,219	8,050	127,305	14,612	1,041,707	1,018,662	23,045	2,424,678	2
491	215,632	26	5,587	8	431	118,588	5,691	6,210	106,800	337	493,367	493,367	10,612	1,080,426	3
161	61,160	23	4,211			15,195	2,963	2,548	9,651	33	218,375	207,935	10,440	863,278	4
935	409,158	52	11,903	17	2,273	125,462	6,953	16,024	103,485		1,476,613	1,443,121	33,492	2,445,890	5
941	407,762	239	53,536	7	883	209,967	24,271	7,679	76,461	101,556	1,233,260	1,214,663	23,597	2,340,188	6
35	17,150	3	550			621	70	353	108		25,644	25,469	175	57,725	7
1,353	989,991	363	83,634	7	1,309	1,467,700	22,759	26,312	1,404,049	13,980	2,851,015	2,296,231	54,784	6,753,208	8
587	224,047	101	22,011	12	1,108	65,298	3,000	4,659	46,349	6,200	737,546	721,449	16,097	1,269,243	9
40	23,452	2	440	1	100	6,552	2,233	316	4,003		70,659	68,358	2,301	141,466	10
429	175,116	24	5,049	1	120	32,699	3,539	4,693	24,694	363	401,546	393,859	2,686	761,634	11
733	351,135	44	10,403	6	1,122	104,501	4,368	34,024	66,109		1,364,339	1,360,471	3,868	2,164,787	12
274	103,155	58	11,914			23,851	4,620	2,742	13,989	2,000	235,638	279,869	5,769	538,317	13
646	276,065	18	3,323	3	791	118,522	5,434	11,381	101,107		1,054,867	1,040,138	8,729	1,730,843	14
171	67,120	15	3,000	2	235	3,705	1,643	882	6,230		123,785	120,118	3,667	233,452	15
695	294,992	142	27,921	9	1,476	104,760	9,136	5,194	90,305	115	1,200,058	1,178,280	21,778	1,935,543	16
639	326,741	26	6,490	2	324	103,823	4,506	4,633	94,684		601,115	599,069	12,046	1,389,216	17
58	23,152	11	2,335	2	99	14,758	794	1,878	11,403	633	61,713	59,543	1,865	170,810	18
61	23,925	29	6,307			3,418	3,267	777	4,374		156,641	154,293	2,348	240,919	19
1,918	826,621	259	67,560	9	1,005	262,543	19,177	12,127	183,314	47,925	3,003,486	2,969,865	36,571	5,198,827	20
466	181,261	37	11,449	30	1,763	48,427	2,242	6,301	39,939	946	417,929	406,137	11,792	820,165	21
346	162,966	40	7,095	2	825	82,846	3,634	3,956	31,807	23,309	452,764	449,345	3,419	851,688	22
269	105,769	73	20,003			37,413	6,545	1,677	29,101		382,962	370,122	12,840	691,046	23
237	120,421	93	31,291	2	625	27,701	6,100	1,245	18,803	550	1,047,550	1,031,070	16,480	1,894,462	24
206	101,025	21	5,335			29,077	4,123	1,199	23,139	1,310	311,418	307,047	4,371	610,152	25
118	63,908	16	2,380			8,371	4,173	1,494	2,704		103,224	100,895	2,329	250,463	26
165	90,344	24	6,190	2	222	17,540	8,044	816	8,580	100	186,010	182,213	3,797	404,916	27
1,358	592,250	212	54,733	5	785	188,227	23,182	12,232	136,282	11,631	1,364,831	1,333,108	31,723	2,827,342	28
674	332,658	71	16,216	18	1,805	83,810	4,210	18,990	60,959	9,651	1,188,534	1,146,677	42,177	2,133,412	29
1,637	749,652	76	16,763	32	5,939	265,974	9,026	97,484	154,990	3,574	1,840,630	1,807,968	32,662	3,886,420	30
141	67,832	7	1,750			14,347	3,680	2,112	8,555	500	173,740	155,039	18,701	285,537	31

## STATISTICS OF MANUFACTURES.

TABLE 9.—MANUFACTURES IN CITIES AND

CITIES AND VILLAGES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
82 Marquette.....	78	\$1,565,390	\$420,012	\$214,277	\$289,648	\$641,453	87	61	\$71,416	646	\$344,930
83 Marshall.....	86	461,692	58,250	111,486	117,789	179,217	97	100	87,940	386	144,280
84 Menominee.....	90	5,451,446	1,683,550	413,541	715,250	2,639,105	88	93	133,565	1,968	912,016
85 Monroe.....	86	374,889	20,954	56,842	105,664	191,429	97	82	17,817	372	139,505
86 Mt. Clemens.....	78	403,278	57,580	84,440	101,835	159,918	92	20	13,394	328	180,212
87 Mt. Pleasant.....	53	242,598	20,175	92,392	85,321	104,765	51	17	15,716	262	90,626
88 Negaunee.....	32	68,467	7,700	22,877	12,335	25,555	34	2	480	68	35,374
39 Niles.....	78	901,507	187,300	167,750	324,590	281,867	78	34	26,218	620	223,093
40 Otsego.....	25	531,776	21,775	94,865	108,485	307,201	27	24	19,886	458	143,282
41 Owosso.....	111	1,685,715	91,134	285,103	257,509	1,051,969	114	81	85,323	1,260	618,275
42 Pontiac.....	106	1,893,867	75,185	180,248	264,676	873,758	114	110	79,726	1,315	612,161
43 Port Huron.....	186	3,301,954	290,975	620,807	836,645	1,553,527	189	227	143,447	2,417	1,119,320
44 Reed City.....	55	272,790	28,035	32,165	88,299	124,291	69	6	4,095	260	103,051
45 St. Clair.....	36	395,180	47,400	70,732	93,025	184,023	37	23	17,615	238	101,995
46 St. Johns.....	59	476,258	23,670	78,500	135,263	238,325	63	11	13,535	295	95,409
47 St. Joseph.....	75	954,419	64,218	107,938	284,289	497,974	81	34	82,058	983	353,591
48 St. Louis.....	37	60,040	16,050	11,760	15,625	16,615	42	2	1,216	47	16,306
49 Sault Ste. Marie.....	34	723,936	813,106	49,475	157,255	204,100	102	38	22,913	472	262,532
50 Sargis.....	56	337,252	13,935	54,040	59,902	209,325	66	15	13,726	323	120,507
51 Tawas City.....	11	161,715	14,350	40,750	42,340	63,775	17	7	5,222	108	48,440
52 Tecumseh.....	61	264,815	33,050	68,850	57,060	105,855	65	12	7,640	293	123,348
53 Three Rivers.....	67	561,558	49,035	138,500	140,009	234,014	66	31	33,536	491	201,498
54 Traverse City.....	30	1,004,581	177,411	137,801	256,403	432,911	94	53	44,900	878	374,396
55 West Ray City.....	121	2,323,910	460,575	473,175	882,914	517,246	124	56	66,024	2,153	868,504
56 Wyandotte.....	50	679,947	63,813	118,031	138,396	359,704	63	31	36,555	493	187,822
57 Ypsilanti.....	110	398,161	69,450	150,621	237,823	390,267	121	64	54,619	681	233,013

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

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
604	\$330,334	41	\$14,546			\$186,411	\$11,487	\$6,797	\$140,951	\$18,226	\$1,128,736	\$1,058,598	\$70,198	\$2,005,486	82
276	130,793	59	18,831	1	\$156	135,842	5,553	3,294	124,995	2,000	322,695	315,517	7,118	820,254	83
1,895	894,872	63	15,844	10	1,800	287,816	10,218	62,460	214,698	450	2,615,523	2,601,404	14,124	4,685,824	84
333	134,533	29	4,982	5	840	40,001	6,880	2,445	30,376	800	824,186	813,733	10,453	632,495	85
312	126,723	14	3,196	2	293	48,410	7,803	2,164	88,247	196	220,980	213,743	7,237	533,207	86
245	87,291	17	3,335			18,178	3,254	3,241	11,533	150	187,168	185,483	1,675	389,916	87
56	32,790	10	2,784	2	300	5,583	2,506	415	1,542	1,120	67,417	65,734	1,683	143,432	88
502	201,259	117	22,144	1	200	29,273	4,618	6,270	18,210	175	731,415	690,322	41,093	1,183,793	89
319	115,841	139	27,441			56,385	9,918	6,595	23,306	25,566	858,713	823,731	25,982	663,451	90
1,121	455,455	104	22,937	35	4,833	118,037	9,707	8,707	99,613		1,380,606	1,361,734	18,772	2,265,498	91
1,132	474,814	180	36,807	3	540	96,587	9,975	7,938	75,279	3,400	1,754,532	1,730,202	24,270	2,793,499	92
2,177	1,063,613	225	54,219	16	1,638	249,935	23,711	11,933	199,006	10,345	2,078,896	2,016,258	62,638	4,298,743	93
235	97,318	18	4,192	7	1,546	30,567	2,476	2,093	15,998	10,000	291,488	288,662	2,826	596,451	94
134	92,240	42	9,455	2	300	21,354	1,085	2,782	17,537		279,689	252,676	27,013	515,968	95
267	89,332	27	6,937	1	100	27,507	3,488	3,020	13,299	2,700	304,482	296,231	8,251	539,252	96
682	290,112	234	60,291	17	3,188	73,343	6,145	4,311	61,837	1,500	606,969	583,179	18,790	1,308,277	97
39	15,111	6	1,039	2	150	4,133	1,477	890	1,816		94,818	93,345	1,473	149,854	98
415	247,924	54	14,194	3	464	56,234	10,883	3,525	41,826		491,004	480,048	4,961	1,160,700	99
307	117,812	16	2,635			14,401	2,762	1,565	9,374	100	233,542	227,573	5,969	473,093	100
107	48,240	1	200			3,513	229	675	2,609		95,173	93,274	1,899	173,715	101
264	117,042	23	6,162	1	144	24,863	2,202	1,475	17,696	3,400	190,394	184,330	6,014	429,035	102
454	193,599	87	7,989			49,317	7,520	5,624	34,100	2,031	828,266	806,389	21,880	1,238,245	103
794	333,319	127	32,956	17	3,121	53,601	9,248	8,115	35,233	1,000	629,634	622,015	7,619	1,302,860	104
2,069	351,532	48	19,544	36	6,378	214,327	9,767	24,737	146,133	33,700	2,294,065	2,262,763	31,300	3,763,622	105
860	160,244	122	26,138	11	1,440	33,743	2,762	3,272	74,842	8,367	542,419	517,856	24,563	956,055	106
367	170,236	314	62,727			95,235	11,483	6,838	63,409	3,500	725,907	713,707	12,200	1,313,793	107

# MINNESOTA.

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

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

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	11, 114	7, 505	8, 493	2, 270	562	5	48.1	114.9	53.9	303.9	11, 140.0
Capital	\$165, 832, 246	\$127, 656, 618	\$31, 004, 811	\$11, 908, 729	\$2, 388, 310	\$94, 000	29.9	811.8	158.5	402.2	2, 440.8
Salaries of officials, clerks, etc., number	7, 819	19, 839	(2)	(2)	(2)	(2)	225.6				
Salaries	\$6, 554, 424	\$7, 818, 116	(2)	(2)	(2)	(2)	16.2				
Wage-earners, average number	77, 234	69, 790	21, 247	11, 200	2, 123	63	10.7	228.5	88.2	431.8	3, 269.8
Total wages	\$35, 484, 825	\$30, 371, 123	\$8, 613, 094	\$4, 052, 837	\$712, 214	\$18, 540	16.8	252.6	112.5	469.0	3, 741.5
Men, 16 years and over	66, 889	63, 522	18, 937	10, 892	2, 104	(2)	5.8	235.4	73.9	417.7	
Wages	\$32, 905, 947	\$23, 689, 508	(2)	(2)	(2)	(2)	14.7				
Women, 16 years and over	9, 558	5, 508	1, 636	259	19	(2)	73.4	236.7	531.7	1, 233.2	
Wages	\$2, 461, 400	\$1, 533, 443	(2)	(2)	(2)	(2)	54.8				
Children, under 16 years	792	760	674	139	(2)	(2)	4.2	12.8	381.9		
Wages	\$127, 478	\$8, 172	(2)	(2)	(2)	(2)	29.9				
Miscellaneous expenses	\$18, 273, 648	\$12, 136, 612	(4)	(4)	(4)	(4)	9.4				
Cost of materials used	\$178, 425, 615	\$118, 481, 941	\$55, 600, 681	\$18, 842, 902	\$1, 904, 070	\$24, 300	46.4	112.9	302.1	627.0	7, 735.7
Value of products, including custom work and repairing	\$262, 655, 881	\$192, 033, 478	\$76, 065, 193	\$23, 110, 700	\$3, 373, 172	\$58, 300	36.8	152.5	229.1	585.1	5, 685.9
Total population	1, 741, 986	1, 801, 826	780, 773	439, 706	172, 023	6, 077	33.8	66.7	77.6	155.6	2, 730.7
Wage-earners engaged in manufactures	77, 234	69, 790	21, 247	11, 200	2, 123	63	10.7	228.5	88.2	431.8	3, 269.8
Per cent of total population	4.4	5.4	2.7	2.6	1.2	1.0					
Assessed value of real estate	\$192, 275, 174	\$196, 558, 366	\$203, 446, 781	\$62, 079, 537	\$25, 291, 771	\$97, 303	60.9	144.1	227.7	145.5	25, 376.8
Value of land and buildings invested in manufactures <sup>7</sup>	\$43, 399, 090	\$39, 900, 494	(2)	(2)	(2)	(2)	23.8				
Per cent of assessed value	10.0	8.0									

<sup>1</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

<sup>2</sup> Not reported separately.

<sup>3</sup> Decrease.

<sup>4</sup> Not reported.

<sup>5</sup> Exclusive of 9,408 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

<sup>6</sup> As given for the year 1899, in the Legislative Manual, State of Minnesota, 1901, page 601.

<sup>7</sup> Does not include value of rented property.

Table 1 shows that there has been a steady growth in the manufacturing and mechanical industries of Minnesota during the half century. The population during these years increased from 6,077 to 1,741,986, while the average number of wage-earners employed in manufacturing establishments increased from 63 to 77,234, embracing, in 1900, 4.4 per cent of the entire population, compared with 1 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 118,509, or 6.5 per cent of the total population of the state. The greatest absolute increase in the value of products, \$115,968,280, is shown for the decade ending with the year 1890.

The development of Minnesota's manufactures is due in

part to its native forests of white and Norway pine and to its fertile valleys for the growing of grain; to its water-power; to cheap transportation by way of the Great Lakes; to the early construction of railroads connecting the state with the agricultural sections of the West and Southwest, and with the great centers of population of the East and South; to its geographical position; and to its corporation laws.

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

## STATISTICS OF MANUFACTURES.

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.....	13,021	\$167,842,210	14,365	77,896	\$35,517,803	\$13,330,926	\$174,021,253	\$96,553,401	\$72,519,524	\$4,948,323	\$263,670,536
Hand trades <sup>1</sup> .....	5,138	9,193,847	5,905	15,032	7,372,128	2,043,700	13,832,022	346,819	13,066,566	478,637	29,806,800
Educational, eleemosynary, and penal institutions.....	8	664,730	.....	16	4,440	3,006	434,417	396,952	33,627	3,838	522,436
Establishments with a product of less than \$500.....	1,899	845,234	2,112	646	28,638	54,272	161,221	17,070	144,151	.....	492,269
All other establishments.....	6,976	156,638,399	6,348	62,202	23,112,697	11,229,948	159,533,593	95,792,600	59,275,180	4,465,853	232,349,081

<sup>1</sup> Includes bicycle and tricycle repairing, 200; blacksmithing and wheelwrighting, 1,862; boots and shoes, custom work and repairing, 468; carpentering, 454; clothing, men's, custom work and repairing, 525; clothing, women's, dressmaking, 494; dyeing and cleaning, 23; furniture, cabinetmaking, repairing, and upholstering, 162; lock and gun smithing, 32; masonry, brick and stone, 155; millinery, custom work, 370; painting, house, sign, etc., 287; paper hanging, 34; plastering and stuccowork, 54; plumbing, and gas and steam fitting, 194; sewing machine repairing, 5; taxidermy, 3; typewriter repairing, 6; watch, clock, and jewelry repairing, 315.

Of the 13,021 establishments of all classes shown in this table, 7,037, or 54 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

\$30,299,069, or only 11.5 per cent of the total value of the products of the state.

In addition to the 13,021 active establishments in the state during the census year, with a capital of \$167,842,210, shown in Table 2, there were 59 idle establishments, with a capital of \$4,296,797, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Agricultural implements.....	1	\$1,900,812	Ironwork, architectural and ornamental.....	1	\$500,000
Boots and shoes, factory product.....	1	6,900	Liquors, distilled.....	1	125,000
Brick and tile.....	14	207,800	Lumber and timber products.....	8	19,760
Cheese, butter, and condensed milk, factory product.....	18	43,660	Oil, linseed.....	1	15,000
Flouring and grist mill products.....	4	13,540	All other industries.....	8	5,659
Iron and steel.....	2	1,449,776			

TABLE 3.—COMPARATIVE SUMMARY OF ELEVEN 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	2,500	\$110,654,790	35,862	\$17,523,938	\$7,253,936	\$130,594,541	\$177,172,025
	1890	1,405	80,149,167	30,334	11,820,227	5,667,915	80,491,966	111,052,701
Increase, 1890 to 1900.....		1,095	30,505,623	5,528	5,703,711	1,586,071	50,102,575	66,119,324
Per cent of increase.....		77.9	38.1	18.2	48.3	28.0	62.2	59.5
Per cent of total of all industries in state.....	1900	22.5	66.7	46.4	49.4	54.6	75.3	67.5
	1890	18.7	62.8	43.5	38.9	46.7	67.9	67.8
Boots and shoes, factory product.....	1900	16	2,237,540	2,025	719,281	151,042	2,378,156	3,615,801
	1890	8	1,794,711	1,099	524,978	99,962	1,090,722	2,032,314
Cars and general shop construction and repairs by steam railroad companies.....	1900	39	4,933,805	4,700	2,599,387	95,561	3,380,441	6,319,379
	1890	18	2,926,860	1,951	1,219,325	.....	1,305,136	2,623,174
Cheese, butter, and condensed milk, factory product.....	1900	506	2,264,956	740	393,224	102,096	7,188,711	8,479,896
	1890	106	606,184	783	353,701	50,849	2,168,307	2,958,476
Flouring and grist mill products.....	1900	512	24,125,781	4,086	2,383,380	1,300,270	74,509,733	83,377,709
	1890	307	19,518,743	3,509	1,743,115	1,712,017	52,333,867	60,158,938
Foundry and machine shop products.....	1900	175	4,267,322	3,139	1,512,579	306,025	2,753,777	5,975,077
	1890	92	2,403,725	1,289	795,675	140,618	1,030,332	2,335,024
Liquors, malt.....	1900	78	3,539,722	856	417,332	1,996,040	867,901	4,456,928
	1890	66	3,625,239	543	295,955	526,786	751,907	2,206,366
Lumber and timber products.....	1900	488	52,095,923	15,140	7,140,571	1,732,439	26,047,781	43,585,161
	1890	392	39,442,925	16,170	4,155,522	1,916,798	15,170,349	25,075,132
Lumber, planing mill products, including sash, doors, and blinds.....	1900	61	2,439,374	1,639	667,091	133,850	2,619,348	3,983,276
	1890	54	4,379,061	2,530	1,335,242	201,324	2,566,791	4,943,451
Oil, linseed.....	1900	5	1,963,231	155	81,981	76,474	2,951,004	3,272,598
	1890	3	1,017,114	90	41,738	67,152	1,140,450	1,547,719
Printing and publishing, newspapers and periodicals.....	1900	560	6,332,125	2,714	1,304,229	1,219,343	1,073,934	5,790,143
	1890	341	3,698,259	2,143	1,230,284	391,956	771,151	4,157,026
Slaughtering: Total.....	1900	20	1,355,011	668	303,977	90,796	6,823,255	7,310,555
	1890	13	741,346	222	119,792	60,453	2,032,954	2,510,431
Slaughtering and meat packing, wholesale.....	1900	13	1,211,086	627	280,463	79,062	5,956,871	6,303,112
	1890	13	696,746	202	107,984	56,350	1,557,171	1,926,137
Slaughtering, wholesale, not including meat packing.....	1900	7	143,925	41	23,514	11,734	866,884	1,007,443
	1890	6	44,600	20	11,808	4,103	505,788	584,294

The 11 leading industries of the state in 1900, as shown in Table 3, embraced 2,500 establishments, or 22.5 per cent of the total number in the state; used a capital of \$110,654,790, or 66.7 per cent of the total; gave employment to 35,862 wage-earners, or 46.4 per cent of the total number; and paid \$17,528,938, or 49.4 per cent of the total wages. The value of their products was \$177,172,025, or 67.5 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that flour and grist milling is the most important industry in the state. The 512 establishments reported in 1900 gave employment to 4,086 wage-earners, or 5.3 per cent of the wage-earners employed in the state, and their products were valued at \$83,877,709, or 31.9 per cent of the total value of the products of the state. In 1890 there were 307 establishments, 3,509 wage-earners, and products valued at \$60,158,088. The increase in the value of products during the decade was \$23,719,621, or 39.4 per cent. This is a greater absolute increase than is shown for any other industry.

In 1900 Minnesota had 11 per cent of the total capital invested in the manufacture of flouring and grist mill products in the United States, and led the states in this regard. In 1890 this percentage was 9.4, New York and Pennsylvania preceding in the order named. The value of the products of the Minnesota mills in 1900 was 15 per cent of the total value of the flouring and grist mill products of the United States. In 1890 this percentage was 11.7. In 1900 no other state approached Minnesota's total, New York, the second in rank, having a value aggregating a little more than one-half.

The first manufactory established in Minnesota was a sawmill, constructed in 1821 for the use of the United States garrison at Fort Snelling.<sup>1</sup> It stood upon the west side of the falls of St. Anthony, in what is now a part of the city of Minneapolis. In 1823 it was fitted up for grinding flour, at an expense of \$270.33 for the millstones and the cost of transporting them from St. Louis. The labor of erecting this mill and placing the stones in position was performed by the garrison, with no additional outlay. From this beginning have developed two of the greatest manufactures of the state—the milling of flour and grist and the sawing of lumber and timber. These, with the manufacture of planing mill products, furnished a trifle over one-half of the value of the manufactured products of the state in 1900.

The development of the flour and grist milling industry was very slow. For a long time little faith was placed in the future of Minnesota agriculture, and for many years the state did not raise sufficient wheat to feed its own population.<sup>2</sup> The second gristmill was erected in 1843, but, like the one built twenty years before, it had no bolting apparatus. The first bolting cloth was introduced in 1846 by Mr. Samuel Bowles, a miller in Washington

county. The development began about 1858, in which year the first considerable shipments of wheat were made to other states. Wheat raising was stimulated by the high price which prevailed during the early sixties. The wheat then raised in Minnesota was the same variety as is now grown in that state, and was known as spring wheat. By the methods of milling in general use prior to 1870, the hard outer covering of this wheat was more or less pulverized, and passed through the bolting cloth with the flour. As a result, the flour made from spring wheat was darker than that made from winter wheat, and made a darker bread, while the fine particles of bran mixed with the flour attracted moisture in hot or damp climates, so that the flour soon spoiled. Therefore, it could not be readily exported. For these reasons its value was considerably less than that of flour manufactured from winter wheat. In the markets of Chicago and Buffalo 5 bushels of spring wheat seldom sold for as much as 4 bushels of winter wheat of the same general grade.<sup>3</sup>

Prior to 1870 practically all of the flour of the world was made by what is now known as the old process of low grinding, in which the upper millstone was set low, or very close to the lower, and the wheat was reduced to flour by one operation. Between 1870 and 1890 this method of making flour gave place to what is usually called the new process of milling, or the manufacture of flour by medium high grinding. This, in turn, gave way to the use of rollers.

The new process of making flour was introduced into the United States by Mr. N. La Croix, a French millwright who settled at Faribault, Minn., about 1860.<sup>4</sup> It attracted little attention until after the destruction by flood of his small mill, when he removed to Minneapolis and entered the service of Mr. Christian, who at once adopted his method. Other millers of that city soon followed, and thereafter the growth of the milling industry was phenomenal. The mills attracted the wheat of the state to the village by the Falls of St. Anthony, and in a few years, with the accompanying stimulus to other trades and industries, created a flourishing city. The new process spread over the United States and attracted the attention of the world. Large quantities of flour were exported, whereas previously very little had found a foreign market, the exports of breadstuffs being chiefly in the shape of grain.

Briefly outlined, the new process as introduced consisted of reducing grain to flour by two or more successive and distinct grindings. As a result of the first grinding, the grain was reduced to small particles or granules. The resulting chop, as it is called, was passed through the bolting apparatus and separated into its component parts, flour, middlings, and bran. The flour thus obtained was of an inferior grade. The middlings, containing the more valuable portion of the wheat, were reground on separate stones. Later, rollers were substituted for stones, but the

<sup>1</sup> Report of the Minnesota Bureau of Labor Statistics, 1891-1892, page 165.

<sup>2</sup> Ibid., page 166.

<sup>3</sup> Report of the Minnesota Bureau of Labor Statistics, 1891-1892, pages 190 to 221.

<sup>4</sup> Ibid., page 172.

principle governing their use remains substantially the same as in the system of high grinding with stones. It is the gradual reduction of the grain to flour by a number of distinct processes, instead of by one grinding, as was the time-honored custom. By this system the bran is removed as completely from spring wheat flour as from flour made from winter wheat. With this change, spring wheat flour at once began to sell for a higher price than flour made from winter wheat, for it was richer in gluten and otherwise more valuable. The relative prices which the two kinds of wheat had commanded were reversed. The average price of Minnesota wheat advanced to from 20 to 30 cents a bushel above the price of wheat grown in most other states. This advance was shared by the wheat growers of the Dakotas and northern Wisconsin; hence the rapid development of that section under the stimulus of the new process of milling. The millers of Minneapolis obtained their power from the Falls of St. Anthony, and found markets for their products at a profit not realized by the flour makers of any other section. The increase in the number of mills during the past decade has been principally outside of Minneapolis. However, the mills of that city have, by the introduction of new and improved milling machinery, greatly increased their capacity.

The manufacture of lumber and timber products ranks second among the industries of the state, with 438 establishments, 15,140 wage-earners, and products valued at \$48,585,161. In 1890 there were 392 establishments, 16,170 wage-earners, and products valued at \$25,075,132. The increase in the value of products during the decade was \$18,510,029, or 73.8 per cent. This industry was started in 1821, two years before the milling industry began. It led the latter industry until La Croix's invention stimulated the production of wheat in the Northwest and advanced milling to the foremost place among the manufacturing industries of Minnesota. Minnesota is one of the leading lumber-producing states of the nation, its characteristic products being white and Norway pine. Within its borders the state now includes, in all probability, a greater quantity of merchantable forest pine than any other state. The timber country is studded with innumerable small lakes and streams, many of them connected with the St. Louis and Cloquet rivers, or with Lake Superior. The Minnesota lumber mills are also reached by large rafts of logs from the northern and southern shores of Lake Superior. In 1900 the quantity of lumber sawed in the state, including custom sawing but not including lath, shingles, etc., was 2,342,338,000 feet; in Minneapolis, the great center of lumber manufacture in the state, it was 623,000,000 feet.

There were 596 establishments engaged in the factory manufacture of cheese, butter, and condensed milk, the industry third in rank, with 740 wage-earners, and products valued at \$8,479,896. In 1890 there were 106 establishments, 783 wage-earners, and products valued at \$2,958,476. The increase in the value of products during the decade was \$5,521,420, or 186.6 per cent. One of the features of the revolution in Minnesota agriculture in the past thirty years is the development of the dairy industry.

This growth has been accompanied, in the last twenty years, by a marked increase of cheese, butter, and condensed milk factories, which in 1880 numbered only 27, with a capital of \$71,149, and products valued at \$62,094. This increase marks the growth of dairying on farms, and the substitution of a system of diversified farming for the old single-crop husbandry. The great value of the products reflects the fact that Minnesota butter, like Minnesota flour, is an important adjunct to the prosperity of the farmers and the development of the state.

There were 20 establishments engaged in slaughtering and meat packing in 1900, with 668 wage-earners, and products valued at \$7,810,555. In 1890 there were 18 establishments, 222 wage-earners, and products valued at \$2,510,431. The increase in the value of products during the decade was \$5,300,124, or 211.1 per cent. The slaughtering industry has shown even greater development in the last decade than the making of butter and cheese in factories. Its development is due in part to the factors that have contributed to the growth of the dairy industry, and in part to the favorable location of St. Paul and Minneapolis with reference to the slaughtering of cattle from the great ranges of the far West.

There were 39 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 4,700 wage-earners, and products valued at \$6,319,876. In 1890 there were 18 establishments, 1,951 wage-earners, and products valued at \$2,628,174. The increase in the value of products during the decade was \$3,691,702, or 140.5 per cent. The marked increase in this industry is a result of the growth of the state's commercial cities, which are the centers of numerous and rapidly developing lines of railroads.

There were 175 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 3,139 wage-earners, and products valued at \$5,975,077. In 1890 there were 92 establishments, 1,289 wage-earners, and products valued at \$2,835,024. The increase in the value of products during the decade was \$3,140,053, or 110.8 per cent. Few industries in the state show a greater progress than this. The increased use of iron and steel in all industries, and the transportation facilities of the 3 leading cities of Minnesota, contributed to its rapid and continuous growth. Minnesota has vast deposits of red hematite. Only one state in the Union mined more iron ore in 1899 than Minnesota, and yet very little has ever been smelted within the state, because there are no coal and limestone deposits in proximity to the ore.

There were 560 establishments engaged in the printing and publishing of newspapers and periodicals in 1900, with 2,714 wage-earners, and products valued at \$5,790,148. In 1890 there were 341 establishments, 2,143 wage-earners, and products valued at \$4,157,026. The increase in the value of products during the decade was \$1,633,122, or 39.3 per cent. The growth of the 3 commercial cities, Duluth, Minneapolis, and St. Paul, has been attended by a natural development of the newspaper business in these cities and also in the minor cities of the state.

There were 78 establishments engaged in the manufacture of malt liquors in 1900, with 856 wage-earners, and products valued at \$4,456,928. In 1890 there were 66 establishments, 548 wage-earners, and products valued at \$2,206,866. The increase in the value of products during the decade was \$2,250,562, or 102 per cent.

There were 61 establishments engaged in the manufacture of planing mill products, including sash, doors, and blinds, in 1900, with 1,639 wage-earners, and products valued at \$3,988,276. In 1890 there were 54 establishments, 2,530 wage-earners, and products valued at \$4,943,451. The decrease in the value of products during the decade was \$955,175, or 19.3 per cent.

There were 16 establishments engaged in the manufacture of boots and shoes, factory product, with 2,025 wage-earners, and products valued at \$3,615,801. In 1890 there were 8 establishments, 1,099 wage-earners, and products valued at \$2,032,814. The increase in the value of products during the decade was \$1,582,987, or 77.9 per cent. When, in the decade 1870-1880, the shoemaking industries, centralized in Massachusetts, began to develop in other sections, Minnesota profited by the change, and in 1880 had 5 factories. The facilities furnished by the manufacturing centers of Minnesota for securing raw

materials at a low cost for transportation, and the natural advantages of the same centers for marketing the goods in flourishing agricultural communities, have assisted in this development.

There were 5 establishments engaged in the manufacture of linseed oil in 1900, with 155 wage-earners, and products valued at \$3,272,598. In 1890 there were 3 establishments, 90 wage-earners, and products valued at \$1,547,719. The increase in the value of products during the decade was \$1,724,879, or 111.4 per cent. The stimulus given to agriculture by the introduction of the new process of milling wheat has been followed, in many parts of the state, by a radical revolution in the methods of agriculture, which is reflected in manufactures. Flaxseed has been found most profitable when rotated with other cereals, and its cultivation has led to the establishment of linseed-oil mills at the centers of wheat milling.

#### URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Duluth, Minneapolis, and St. Paul, as returned at the censuses of 1890 and 1900, with the percentages of increase.

## STATISTICS OF MANUFACTURES.

TABLE 4.—COMPARATIVE SUMMARY, DULUTH, MINNEAPOLIS, AND ST. PAUL, 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	11, 114	\$165, 832, 240	77, 234	\$35, 484, 825	\$13, 273, 648	\$173, 425, 615	\$262, 655, 831
Per cent of increase.....	1890	7, 505 48.1	127, 686, 618 29.9	69, 790 10.7	30, 371, 123 16.8	12, 136, 612 9.4	118, 481, 941 46.4	192, 035, 478 36.8
Duluth.....	1900	433	8, 872, 040	3, 998	2, 145, 444	572, 266	5, 861, 499	10, 623, 957
Per cent of increase.....	1890	278 55.8	5, 332, 447 66.4	3, 315 20.6	1, 750, 577 22.6	412, 496 88.7	5, 435, 654 7.8	8, 811, 723 20.6
Minneapolis.....	1900	2, 368	57, 708, 204	26, 608	12, 708, 523	5, 237, 162	78, 175, 735	110, 913, 043
Per cent of increase.....	1890	2, 723 13.0	42, 043, 764 35.3	23, 703 12.3	11, 674, 553 8.9	3, 682, 928 42.2	54, 592, 210 43.2	82, 922, 974 33.8
St. Paul.....	1900	1, 591	28, 208, 389	17, 593	7, 669, 805	3, 668, 047	19, 464, 570	38, 541, 030
Per cent of increase.....	1890	1, 442 10.3	22, 501, 211 25.4	16, 279 8.1	3, 894, 560 8.6	1, 740, 518 110.7	15, 867, 573 22.7	33, 035, 073 16.7
Total for 3 cities.....	1900	4, 392	94, 789, 533	48, 199	22, 523, 772	9, 477, 475	103, 501, 804	160, 113, 030
Per cent of increase.....	1890	4, 443 1.1	70, 477, 422 34.5	43, 297 11.3	21, 819, 680 8.2	5, 833, 942 62.4	76, 893, 437 36.4	124, 769, 770 28.3
Per cent of 3 cities to total for state.....	1900	39.5	57.2	62.4	63.6	71.4	59.7	61.0
	1890	59.2	55.2	62.0	71.8	48.1	64.1	65.0

<sup>1</sup> Decrease.

It appears from Table 4 that there has been an increase during the past decade in the manufactures of the 3 principal cities of the state. Although the number of establishments decreased from 4,443 to 4,392, or 1.1 per cent, the average number of wage-earners increased from 43,297 to 48,199, or 11.3 per cent, and the value of products from \$124,769,770 to \$160,113,030, or 28.3 per cent.

In Minneapolis, the leading manufacturing city in the state, the number of establishments decreased from 2,723 to 2,368, or 13 per cent, but the number of wage-earners increased from 23,703 to 26,608, or 12.3 per cent, and the value of products from \$82,922,974 to \$110,943,043, or 33.8 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 21.3, 34.5, and 42.2 per cent, respectively, of the totals for the state. Minneapolis leads in two of the most important manufacturing industries of the state, the manufacture of flour and grist mill products, and the manufacture of lumber and timber products. It was in these industries that the city found the first important factors in its development. Minneapolis holds a prominent position also in the manufacture of foundry and machine shop products, malt liquors, and linseed oil.

In St. Paul the number of establishments increased from 1,442 to 1,591, or 10.3 per cent; the number of wage-earners from 16,279 to 17,593, or 8.1 per cent; and the value of products from \$33,035,073 to \$38,541,030, or 16.7 per cent. St. Paul early became the principal northwestern depot of the Hudson Bay Fur Company, and from that beginning it has developed into an important fur manufacturing center. It also leads the cities of the state in the factory manufacture of boots and shoes, and of men's clothing; in the printing and publishing of newspapers and periodicals; and in railroad repair shop work.

Duluth made the greatest gains in number of establishments, capital, number of wage-earners, and wages. The city is an important center for the manufacture of lumber. In 1900 the quantity sawed in Duluth was 305,000,000 feet, the product of what is known as the Duluth district being much larger.

Table 5 presents the totals for the manufacturing industries of the 27 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	11,114	\$165,832,246	12,253	77,234	\$35,484,825	\$13,273,648	\$173,425,615	\$262,655,881	100.0	11,741,986	100.0		
Total for urban manufactures	6,112	125,497,831	6,836	61,880	28,490,929	11,389,763	134,007,167	205,170,094	78.1	564,487	32.4		
Albert Lea	83	466,426	98	336	146,104	28,777	402,032	750,100	23	0.3	4,500	18	0.3
Anoka	47	620,833	57	291	123,908	56,246	1,451,288	1,847,812	14	0.7	3,769	21	0.2
Austin	69	469,671	85	265	107,206	26,065	474,286	757,455	22	0.3	5,474	15	0.3
Brainerd	54	1,924,045	62	989	528,012	102,130	1,112,037	1,948,962	12	0.7	7,524	10	0.4
Crookston	60	761,047	67	349	191,410	59,071	685,330	1,102,004	16	0.4	5,359	17	0.3
Duluth	493	8,872,940	478	3,998	2,145,444	572,266	5,861,499	10,628,057	3	4.0	52,969	3	3.0
Furbault	102	880,867	123	482	222,234	47,862	2,014,715	2,687,812	7	1.0	7,868	8	0.5
Fergus Falls	91	429,254	108	264	114,367	43,892	685,883	1,062,397	17	0.4	6,072	12	0.4
Hastings	59	298,372	65	172	70,764	36,872	1,024,025	1,270,209	15	0.5	3,811	20	0.2
Little Falls	62	2,508,745	53	603	264,555	93,261	1,416,892	2,139,427	10	0.8	5,774	13	0.3
Mankato	135	1,871,907	162	683	242,742	87,620	1,513,182	2,242,000	9	0.9	10,599	6	0.6
Minneapolis	2,368	57,708,204	2,603	26,608	12,708,523	5,237,162	78,175,735	110,943,043	1	42.2	202,718	1	11.6
Moorhead	23	134,034	24	77	39,010	9,525	372,341	490,243	27	0.2	3,730	22	0.2
New Ulm	90	1,097,616	111	423	188,987	128,660	1,706,462	2,328,347	8	0.9	5,403	16	0.3
Watsonia	82	484,200	97	257	103,935	34,582	486,828	788,927	20	0.3	5,561	14	0.3
Red Wing	79	1,657,336	84	765	297,140	109,907	1,383,140	2,120,303	11	0.8	7,525	9	0.4
Rochester	116	471,994	144	331	125,891	65,489	886,215	728,160	24	0.3	6,843	11	0.4
St. Cloud	96	789,946	112	650	343,062	63,422	1,229,824	1,895,202	13	0.7	8,663	7	0.5
St. Louis Park	6	1,228,875	6	224	133,660	28,601	271,292	606,736	25	0.2	1,325	27	0.1
St. Paul	1,561	28,208,389	1,747	17,593	7,669,865	3,668,047	19,464,570	33,541,030	2	14.7	163,065	2	9.4
St. Peter	61	374,700	74	199	77,085	31,815	274,104	509,471	26	0.2	4,302	19	0.3
South St. Paul	11	927,504	6	573	262,485	61,437	5,168,573	5,714,757	5	2.2	2,322	25	0.1
Süllwater	114	5,451,915	128	2,803	1,122,330	203,523	2,508,559	4,904,792	6	1.9	12,318	5	0.7
Wabasha	44	349,984	52	89	39,449	35,046	581,886	761,165	21	0.3	2,528	24	0.2
Waseca	69	230,614	92	172	83,292	15,749	707,954	970,007	18	0.4	5,103	23	0.2
West Minneapolis	15	1,665,907	16	476	211,129	134,959	345,070	853,823	19	0.3	1,648	26	0.1
Winona	162	6,192,386	182	2,214	928,400	404,187	4,292,845	6,576,382	4	2.5	19,714	4	1.1
Total for state exclusive of urban manufactures	5,002	40,334,415	5,417	15,354	6,993,896	1,888,885	39,418,448	57,485,787	21.9	1,177,499	67.6		
Per cent of urban manufactures to total for state	55.0	75.7	55.8	80.1	80.3	85.8	77.3	78.1		32.4			

<sup>1</sup> Exclusive of 9,408 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

Of the 11,114 establishments in the state, 6,112, or 55 per cent, were located in these 27 cities and villages. They furnished employment to 61,880 wage-earners, or 80.1 per cent of the total for the state; and the value of their products, \$205,170,094, formed 78.1 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

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

Table 8 shows the totals for the cities of Duluth, Minneapolis, and St. Paul by specified industries.

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

TABLE 6.—MANUFACTURES

COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
The State.....	11,114	\$165,832,246	\$29,548,954	\$19,850,186	\$37,953,948	\$78,479,218	12,263	7,819	\$6,554,424	77,284	\$85,484,825
Aitkin.....	25	321,523	127,845	12,475	53,696	127,507	32	3	1,574	130	63,337
Anoka.....	58	1,235,894	62,345	153,877	322,909	696,763	62	29	29,791	590	236,485
Becker.....	42	443,038	52,555	40,065	132,100	213,318	51	9	8,945	167	74,680
Beltrami.....	58	391,014	75,707	16,775	125,325	173,147	77	13	8,430	339	126,997
Benton.....	80	870,017	47,700	30,555	84,525	207,237	33	14	8,632	214	103,685
Bigstone.....	51	141,594	12,000	25,000	52,360	52,234	59	3	2,100	88	41,769
Blue Earth.....	231	1,959,638	322,455	339,339	581,593	716,251	265	137	114,779	1,313	437,470
Brown.....	170	1,838,700	97,910	550,520	479,572	710,698	185	60	67,970	679	298,720
Carlton.....	23	5,890,086	3,519,577	164,593	646,053	1,559,863	19	50	66,979	1,051	491,697
Carver.....	98	381,856	39,040	84,714	137,438	120,664	121	9	2,072	160	64,553
Cass.....	23	2,559,174	672,095	109,230	323,796	1,410,053	30	19	36,965	639	464,461
Chippewa.....	58	183,120	43,480	55,085	68,031	62	9	5,990	87	33,186	
Chicago.....	64	297,116	30,336	74,238	84,079	108,413	69	15	5,840	107	44,463
Clay.....	78	271,121	28,395	57,345	118,056	67,325	80	12	9,033	202	110,291
Cook.....	5	40,207	1,600	3,250	7,100	23,257	3	3	950	117	60,750
Cottonwood.....	32	143,835	10,570	30,765	61,970	40,530	31	9	3,385	39	16,680
Crow Wing.....	68	2,031,144	214,000	221,320	460,311	1,138,013	78	58	68,688	1,205	594,130
Dakota.....	110	1,378,695	31,270	222,475	190,323	931,627	116	110	98,550	864	389,624
Dodge.....	67	200,593	22,315	43,035	71,175	64,083	69	9	3,380	102	45,227
Douglas.....	88	370,670	42,485	96,236	111,722	120,227	96	11	8,405	151	67,993
Faribault.....	108	604,462	35,102	123,977	185,572	251,811	99	43	25,857	213	96,437
Hennepin.....	205	525,363	51,231	127,965	152,935	194,232	237	14	6,345	240	39,318
Houston.....	157	622,182	78,530	134,855	135,412	233,385	152	44	18,329	416	132,763
Isanti.....	192	1,976,303	174,141	409,694	403,072	978,401	202	91	86,384	917	368,106
Itasca.....	29	76,969	4,310	20,365	26,745	25,549	29			23	8,543
Jackson.....	2,463	60,734,343	8,515,563	7,220,973	14,256,080	30,741,727	2,637	2,735	2,570,218	27,867	13,081,514
Kanabec.....	75	216,790	20,050	77,585	67,350	42,505	91	4	1,380	64	23,184
Kandiyohi.....	31	1,672,530	994,670	40,105	131,390	506,371	37	24	26,080	453	196,855
Kittson.....	89	120,930	5,235	27,425	47,355	40,915	34	7	1,645	47	20,693
Lac qui Parle.....	32	312,704	13,320	7,120	176,040	116,224	36	9	7,200	434	212,701
Lake.....	68	183,477	14,745	43,277	74,741	55,714	70	10	1,085	61	26,689
Lake Superior.....	19	55,345	6,105	6,105	23,315	20,605	29	1	159	27	10,370
Lyon.....	82	271,972	29,655	57,011	100,665	84,641	78	19	4,467	129	60,343
MacLeod.....	18	56,345	6,800	10,030	14,000	24,355	25			12	5,039
Marshall.....	62	139,954	12,425	27,757	54,649	45,123	75	5	1,600	34	15,994
Martin.....	5	2,010,782	968,800	865,450	224,693	452,314	2	14	10,630	415	209,686
McLeod.....	122	721,617	67,890	145,943	210,158	297,656	134	31	38,621	252	126,607
Mower.....	26	69,290	7,540	16,000	21,585	18,155	23			14	6,720
Murray.....	82	282,009	25,360	45,350	84,339	127,560	34	8	5,800	161	67,254
Nobles.....	138	422,558	37,277	92,320	140,210	152,751	154	12	3,532	185	66,364
Norman.....	49	186,200	15,811	35,079	48,198	87,202	54	4	3,400	50	23,097
Oak.....	34	279,234	39,336	64,669	87,733	87,496	78	21	4,242	160	65,985
Oliver.....	98	278,173	26,170	63,574	101,767	87,662	97	12	2,150	138	51,287
Pennington.....	49	1,419,524	662,145	37,730	126,372	693,277	54	15	16,050	259	142,680
Pine.....	102	2,662,384	1,392,740	136,780	274,341	853,423	112	32	41,705	663	288,149
Pope.....	146	651,295	56,130	184,286	165,684	245,195	167	30	15,661	341	141,966
Polk.....	55	145,536	17,755	32,975	46,748	48,078	60	3	737	57	27,239
Ramsey.....	100	493,336	50,795	107,713	115,105	220,223	109	21	11,856	265	100,325
Red Lake.....	56	138,088	15,774	37,490	42,664	42,664	66	1	900	61	24,093
Redwood.....	44	197,444	12,339	26,227	52,871	106,457	48	6	3,400	59	23,630
Renville.....	181	623,444	57,755	117,071	185,613	263,005	208	26	12,731	413	163,863
Rice.....	188	753,038	63,695	157,230	236,523	295,620	222	23	22,313	374	157,519
Rock.....	42	1,236,243	234,530	78,845	223,829	646,019	58	28	26,785	358	166,573
Scott.....	51	119,920	11,950	27,160	41,000	39,810	67	6	2,425	73	31,353
St. Louis.....	122	1,230,365	132,100	193,712	293,594	607,959	128	45	35,770	536	232,248
Stearns.....	80	56,404	2,672	13,735	26,485	16,512	34			15	6,260
Swift.....	1,065	28,890,285	2,173,917	3,859,616	8,375,263	14,476,489	1,757	2,320	2,054,400	18,065	7,873,578
Todd.....	43	1,744,097	379,135	59,810	209,395	595,697	44	24	24,410	342	171,665
Traverse.....	85	216,330	13,690	48,633	37,946	61,571	91	9	2,564	73	31,979
Wadena.....	95	346,516	21,654	70,825	141,619	112,413	104	19	7,543	96	41,319
Wabasha.....	168	1,144,731	109,895	229,119	373,327	432,450	223	34	62,866	614	271,910
Washington.....	81	93,566	6,133	26,115	32,180	29,073	84	2	3,000	43	15,474
Watsonwan.....	19	45,773	3,255	4,972	29,316	7,735	32	1	420	23	9,945
Webster.....	504	11,699,733	3,714,112	900,322	2,381,141	4,704,215	539	321	324,331	6,044	3,116,393
Winona.....	101	572,333	53,067	142,800	173,973	197,483	116	23	19,396	230	110,255
Wright.....	29	144,910	16,110	22,000	40,425	66,375	27	4	3,940	72	26,793
Yakone.....	73	244,300	22,660	61,325	82,710	77,605	30	9	2,394	84	35,624
Zippin.....	233	1,626,361	176,360	305,590	470,019	668,392	323	80	57,229	1,042	503,330
Other.....	118	568,999	61,640	110,725	154,658	241,978	116	39	22,354	310	136,111
Unincorporated.....	17	55,487	3,925	8,500	24,740	13,322	21	1	120	28	12,017
Swift.....	76	246,196	21,465	48,090	80,360	96,371	33	7	3,915	93	37,929
Todd.....	45	193,626	33,045	35,315	75,240	49,126	53			79	26,016
Traverse.....	45	113,740	12,915	20,475	30,263	50,085	52	3	2,370	33	20,373
Wabasha.....	153	744,533	48,070	95,632	153,366	442,185	134	17	12,364	286	122,311
Wadena.....	53	174,332	13,020	23,800	64,014	73,543	65	1	1,200	63	25,500
Waseca.....	124	624,667	28,345	94,667	173,350	322,805	133	35	24,174	246	123,593
Washington.....	157	6,977,224	1,842,963	241,773	734,099	4,153,384	138	147	166,274	3,045	1,231,915
Watsonwan.....	75	245,755	11,405	44,400	82,900	107,650	89	14	5,804	129	57,310

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.										
66,880	\$32,905,947	9,553	\$2,451,400	792	\$127,478	\$13,278,648	\$1,554,035	\$340,570	\$9,128,314	\$1,744,720	\$178,425,615	\$170,851,640	\$2,673,975	\$262,655,881	1
128	63,019	2	318			9,388	896	2,033	6,349	100	100,751	108,696	1,055	252,100	2
558	227,995	37	8,490			108,569	4,993	6,446	83,170	13,960	1,982,934	1,871,085	91,219	2,381,028	3
162	73,218	4	1,212	1	200	18,410	1,508	1,856	11,693	3,533	457,612	452,902	3,740	617,694	4
831	125,267	7	1,640	1	100	9,456	1,844	2,291	5,221		291,608	290,964	644	497,707	5
212	103,240	1	245	1	200	12,496	1,007	2,194	9,295		370,121	372,784	3,337	648,083	6
86	41,324	2	415			16,167	1,504	1,574	12,999		406,682	395,960	10,722	526,566	7
1,125	447,074	140	32,647	48	6,849	104,879	15,783	12,986	74,839	1,271	2,280,456	2,221,385	59,071	3,461,174	8
622	285,652	52	12,416	5	658	173,125	11,911	8,423	150,292	2,494	3,213,412	3,159,515	53,897	4,195,201	9
1,042	490,232	4	650	5	725	194,635	314	43,888	150,093	850	2,498,697	2,489,316	9,381	3,897,797	10
154	63,372	1	200	5	781	10,726	1,149	1,784	7,318	475	609,388	576,272	33,116	838,899	11
630	464,461					115,468	248	13,945	96,275		1,632,448	1,630,378	2,070	2,507,295	12
78	36,522	6	1,324	8	340	11,556	1,167	1,516	8,785	85	410,333	400,314	9,519	550,085	13
102	43,742	3	430	2	296	13,085	847	1,841	10,397		436,885	426,014	10,871	577,965	14
192	108,859	4	884	6	518	13,731	2,971	1,396	9,359	5	525,667	506,102	19,565	769,130	15
117	60,750					1,068		60	1,002		37,971	37,953	18	118,702	16
34	15,630	4	1,050			4,232	953	1,010	2,299		174,881	168,253	6,628	281,357	17
1,187	589,325	12	3,425	6	880	115,833	5,935	7,459	102,489		1,161,080	1,142,792	18,288	2,085,615	18
834	383,260	19	4,282	11	2,082	106,019	13,766	9,014	80,489	2,750	6,411,830	6,365,322	46,508	7,849,321	19
98	44,441	3	679	1	104	10,471	1,307	1,014	7,077	830	314,901	306,064	7,937	448,164	20
137	56,632	11	1,630	3	336	43,418	2,207	3,048	38,163		433,396	424,000	9,396	666,418	21
198	92,269	10	2,328	10	1,840	46,596	13,272	5,255	25,584	2,485	1,058,771	1,025,328	33,443	1,420,758	22
202	82,513	36	6,009	2	196	29,145	8,817	4,139	15,064	3,125	506,225	555,360	10,865	893,069	23
360	170,442	52	11,557	4	764	38,158	10,032	3,744	23,989	337	1,055,017	1,037,025	27,992	1,580,734	24
875	348,709	38	8,328	4	469	128,990	16,935	16,168	95,654	233	2,158,002	2,061,956	96,046	3,139,582	25
18	7,352	3	880	2	316	5,444	818	800	3,826		70,052	68,445	1,607	100,569	26
23,082	11,983,677	4,004	1,061,329	191	86,508	5,406,281	672,666	220,425	3,714,780	798,410	78,950,897	78,188,822	762,075	112,655,633	27
49	20,781	11	1,630	4	813	8,995	874	1,600	6,591	30	240,700	236,554	4,146	352,869	28
451	193,351	7	1,601	4		10,230	1,331	4,156	4,740		683,928	683,168	760	1,021,699	29
44	20,023	9	670			4,952	521	3,828	4,149	100	156,068	151,910	4,158	235,514	30
431	212,473	1	408	2	180	22,617	1,983	1,861	18,773		527,366	526,936	430	891,612	31
52	24,778	6	1,370	8	546	9,736	2,705	1,200	5,745	86	185,569	177,470	8,099	283,841	32
26	10,170	1	200			1,879	506	171	1,176	26	66,057	61,265	4,792	96,064	33
112	56,417	15	8,653	2	243	16,637	2,336	1,724	11,411	66	432,391	418,067	14,324	607,374	34
12	6,039					2,156	508	238	1,410		39,546	37,706	1,840	66,054	35
33	15,474	1	520			7,339	1,982	938	4,074	150	123,307	118,527	4,780	208,468	36
415	209,686					29,935	2,680	4,500	13,965		487,592	480,834	6,758	635,327	37
241	124,628	4	1,233	7	716	49,240	2,489	3,334	43,417		1,718,679	1,687,105	31,574	2,155,837	38
43	6,520	1	200			2,213	148	358	1,737		83,965	81,936	1,969	116,600	39
148	68,908	13	3,336	2	692	13,576	4,094	2,692	6,633	157	553,820	540,416	13,404	772,247	40
168	61,647	27	4,034	5	663	36,074	3,412	2,273	29,621	768	618,631	608,362	10,269	894,477	41
49	22,047	1	450			7,903	1,585	1,569	4,749		201,881	194,434	7,447	281,719	42
188	61,050	21	3,915	1	120	16,955	2,090	1,603	11,086	1,576	973,651	964,012	9,639	563,371	43
120	50,876	9	2,000	3	405	21,247	3,728	1,819	15,002	98	496,938	484,636	12,302	707,794	44
250	141,889	13	3,800			37,089	1,576	25,748	9,705		699,792	661,693	38,099	1,046,046	45
645	284,328	12	3,164	6	637	93,690	6,105	42,278	49,292	1,015	1,577,612	1,556,946	20,666	2,356,438	46
285	181,467	58	10,099	3	340	35,744	7,799	2,531	25,389	25	840,491	804,574	35,917	1,253,148	47
49	20,015	7	1,171	1	50	5,151	1,564	844	2,539	213	135,197	131,213	3,984	214,400	48
225	91,956	32	7,690	1	1,239	89,389	4,182	2,672	30,415	2,120	491,270	472,602	18,668	801,959	49
56	22,703	4	1,190	1	200	7,057	1,675	811	5,171		121,916	116,772	5,144	208,400	50
56	28,140	4	1,350	1	140	8,726	666	1,212	6,748	200	204,297	201,940	2,357	296,805	51
365	155,124	27	8,109	6	630	72,105	9,837	4,092	41,678	16,498	697,022	677,305	19,717	1,160,379	52
385	146,939	30	8,238	9	2,342	61,679	8,121	5,672	40,226	7,660	1,125,137	1,108,074	21,483	1,711,609	53
353	165,457	1	156	4	940	63,778	333	5,958	56,887	100	805,749	802,980	2,769	1,223,558	54
57	27,263	14	3,757	2	338	7,250	2,384	832	3,627	407	128,375	125,235	3,140	225,960	55
507	274,278	23	7,285	6	740	84,237	6,080	3,619	67,938	1,600	977,750	951,438	26,312	1,686,260	56
14	6,070	1	190			1,734	707	343	678	6	79,668	76,900	2,768	113,871	57
13,861	6,791,819	3,924	1,046,326	280	40,433	3,719,450	436,307	117,687	2,372,703	792,853	19,981,846	19,594,115	387,731	30,425,798	58
336	170,874	1	250	5	571	76,784	9,159	9,981	68,644		1,072,206	1,069,418	2,788	1,430,552	59
62	80,001	7	1,390	4	519	11,451	2,803	1,176	7,257	215	301,602	294,260	7,342	442,577	60
84	38,960	8	1,609	4	750	19,666	2,860	1,670	14,831	205	576,313	556,978	19,336	774,095	61
539	261,277	68	12,725	7	998	64,659	14,820	6,982	40,241	2,616	2,395,995	2,356,873	39,122	3,255,735	62
36	14,104	4	900	3	470	5,565	682	780	4,123		98,206	94,680	3,526	158,713	63
22	9,561	1	334			384	152	653	1,638		99,250	88,036	11,214	138,346	64
5,716	3,031,855	281	73,136	47	12,092	744,808	116,247	63,443	500,468	64,650	8,709,223	8,519,563	189,662	15,177,070	65
272	108,990	4	765	4	500	48,041	2,419	3,734	41,574	314	1,102,399	1,075,475	26,924	1,520,232	66
71	26,648	1	150			10,216	784	1,055	8,865	12	277,247	275,795	1,512	310,643	67
81	35,234	1	250	2	140	12,937	2,080	1,324	9,475	68	398,547	386,654	11,893	540,769	68
1,004	494,421														

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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
80 Wilkin	28	\$102,860	\$6,840	\$33,460	\$31,550	\$31,010	31	3	\$2,520	48	\$26,022
81 Winona	235	6,485,150	967,512	612,882	942,279	3,912,477	259	209	194,061	2,905	969,054
82 Wright	137	360,031	29,790	69,995	167,835	92,411	166	13	3,221	185	48,459
83 Yellow Medicine	66	182,428	15,460	41,490	59,235	66,243	77	2	1,375	62	28,407

TABLE 7.—MANUFACTURES BY

		\$165,832,246	\$29,548,954	\$19,850,136	\$37,953,948	\$78,479,213	12,253	7,319	\$6,554,424	77,234	\$35,484,825
1 All industries	11,114										
2 Agricultural implements	18	3,730,055	111,066	319,719	110,569	3,188,701	10	182	189,832	928	423,051
3 Artificial limbs	9	25,036		100	10,223	12,713	10	15	14,048	26	14,610
4 Awnings, tents, and sails	18	110,135	14,600	6,500	6,660	82,375	19	19	13,622	165	39,515
5 Baskets, and rattan and willow ware	4	829	25	60	220	625	4				
6 Belting and hose, leather	3	179,840	8,800	10,365	24,783	135,892	1	14	21,056	50	28,241
7 Bicycle and tricycle repairing	200	201,014	15,415	15,820	65,654	104,225	235	11	4,341	212	85,873
8 Bicycles and tricycles	4	35,295			7,433	30,772	4	2	2,320	47	8,440
9 Blacksmithing and wheelwrighting	1,962	1,685,773	309,798	413,487	361,361	601,132	1,580	4	1,701	827	887,487
10 Bookbinding and blank book making	20	110,325			65,300	45,025	19	16	10,516	201	92,628
11 Boots and shoes, custom work and repairing	468	193,829	41,000	48,930	50,334	53,665	498	1	180	170	73,700
12 Boots and shoes, factory product	16	2,237,540		2,100	337,236	1,898,204	13	146	154,945	2,025	719,231
13 Bottling	19	191,810	34,250	49,400	42,303	65,857	18	20	14,554	84	46,741
14 Boxes, cigar	4	25,500			3,500	17,000	4	3	1,780	44	13,060
15 Boxes, fancy and paper	4	158,559	3,000	6,000	49,699	99,860	5	16	14,012	234	61,233
16 Boxes, wooden packing	12	209,056	1,250	6,220	73,123	115,058	11	11	15,040	232	71,620
17 Brass castings and brass finishing	4	21,450			15,600	5,850	7	1	900	11	6,392
18 Bread and other bakery products	170	1,559,471	85,996	151,422	379,681	452,372	199	207	112,653	972	393,427
19 Brick and tile	104	1,040,656	948,158	211,435	170,670	310,393	125	34	23,800	349	328,810
20 Bridges	14	339,631	60,100	13,109	72,300	189,181	23	25	39,481	394	205,999
21 Brooms and brushes	27	82,619	7,905	8,765	7,185	58,824	31	10	5,600	92	45,929
22 Carpentering	454	1,885,466	123,040	119,020	203,936	1,234,470	511	74	73,821	3,013	2,030,151
23 Carpets, rag	22	13,748	1,150	2,725	7,945	2,823	25			30	13,292
24 Carpets, wood	4	7,500			900	6,600	6			27	13,370
25 Carriage and wagon materials	5	101,032	1,200	5,925	18,023	75,879	5	4	9,600	112	30,240
26 Carriages and sleds, children's	6	83,500	200	6,300	2,200	80,100	9	11	4,650	52	22,142
27 Carriages and wagons	194	1,860,594	216,095	321,456	215,456	1,107,587	268	50	49,724	1,066	451,235
28 Cars and general shop construction and repairs by steam railroad companies	39	4,933,305	453,700	2,117,592	1,117,309	1,245,204		264	243,448	4,700	2,599,837
29 Cheese, butter, and condensed milk, factory product	596	2,264,956	70,101	630,629	1,089,986	474,240	210	341	59,284	740	398,224
30 China decorating	10	11,260	100	500	595	10,065	11	1	160	1	300
31 Cleansing and polishing preparations	6	8,265	2,000	1,300	265	4,700	7			3	822
32 Clothing, men's, custom work and repairing	525	981,000	68,200	95,500	77,448	744,852	601	70	53,761	1,654	880,530
33 Clothing, men's, factory product	25	1,174,446	1,200		160,004	1,013,242	45	118	131,610	1,716	508,374
34 Clothing, women's, dressmaking	494	853,089	26,700	40,202	57,075	223,712	564	18	17,594	1,711	449,748
35 Clothing, women's, factory product	8	85,863			26,591	59,272	17	17	12,760	616	123,520
36 Coffee and spice, roasting and grinding	10	401,025		500	43,625	356,900	10	95	90,715	146	53,240
37 Coffins, burial cases, and undertakers' goods	6	404,482	29,533	55,640	29,979	289,330	3	25	25,448	157	66,236
38 Confectionery	53	419,782	14,350	20,724	33,527	301,181	60	172	115,448	485	181,336
39 Cooperage	42	534,170	107,826	122,481	70,335	233,528	33	36	27,615	615	312,959
40 Corsets	6	30,950			3,700	27,250	8	2	480	49	12,392
41 Dyeing and cleaning	23	41,765	4,000	10,000	15,230	12,495	29	5	2,856	120	43,097
42 Electrical apparatus and supplies	12	79,935			29,300	50,575	11	13	7,976	86	45,340
43 Electrical construction and repairs	17	67,305	150	150	9,675	57,330	27	10	9,505	83	39,455
44 Electroplating	6	14,950			9,450	5,500	10	2	900	23	12,334
45 Enameling and enameled goods	4	3,050			1,075	1,975	6			13	5,925
46 Engraving, steel, including plate printing	3	9,300			4,300	5,000	2	3	1,040	35	12,232
47 Engraving, wood	3	2,025			1,575	450	5			1	400
48 Fancy articles, not elsewhere specified	4	55,410			16,210	39,200	6	12	14,624	82	22,234
49 Flavoring extracts	10	210,799			8,360	112,439	16	16	12,717	27	11,722
50 Flouring and grist mill products	512	24,123,781	1,225,645	3,091,009	9,104,731	10,704,396	630	606	730,637	4,086	2,863,336
51 Food preparations	19	221,533	11,425	22,700	53,537	133,341	17	32	30,200	193	44,346
52 Foundry and machine shop products	175	4,267,322	482,359	538,920	1,220,143	1,975,895	199	298	200,563	3,139	1,512,679
53 Fruits and vegetables, canning and preserving	4	43,650	1,800	10,000	11,300	20,550	3	2	1,600	15	8,523
54 Fur goods	46	1,235,579	26,000	18,100	52,950	1,139,129	55	147	121,218	347	320,133
55 Furniture, cabinetmaking, repairing, and upholstering	152	406,191	51,750	67,915	41,453	235,073	136	20	8,600	343	250,656
56 Furniture, factory product	32	1,720,401	207,994	256,514	251,473	1,004,420	33	120	114,511	1,148	451,131
57 Furs, dressed	8	67,750	9,000	13,700	22,050	13,000	7	5	6,800	94	41,988
58 Gas and lamp fixtures	8	36,300			3,900	32,900	10	11	7,072	44	25,338
59 Gas, illuminating and heating	11	8,399,676	441,404	1,839,461	6,146,832	421,329	53	53	48,354	375	168,558
60 Gas machines and meters	5	26,300			2,550	23,750	5	6	3,145	14	8,002
61 Glass, cutting, staining, and ornamenting	7	17,410		150	4,560	12,700	10	2	1,020	37	19,060

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
42	\$24,924	5	\$948	1	\$150	\$4,331	\$1,010	\$830	\$2,491		\$128,006	\$124,866	\$3,230	\$105,368	80
2,131	930,374	148	26,721	26	2,959	414,435	22,805	51,460	332,620	\$7,550	4,599,124	4,548,866	50,258	7,030,636	81
164	61,793	20	8,511	1	125	15,613	3,256	2,074	9,688	45	589,583	566,857	13,729	834,474	82
61	25,789	9	2,414	2	204	7,865	1,738	1,177	4,900	50	193,501	187,426	6,075	233,740	83

SPECIFIED INDUSTRIES: 1900.

66,889	\$32,905,947	9,553	\$2,451,400	792	\$127,478	\$13,273,648	\$1,554,035	\$846,570	\$9,128,314	\$1,744,729	\$173,425,615	\$170,851,640	\$2,578,975	\$262,655,881	1
924	421,637	3	1,300	1	117	241,888	1,504	7,792	229,602	2,490	718,004	695,273	23,331	1,763,780	2
25	14,410	1	300			9,401	2,101	185	7,162		19,448	19,098	350	96,700	3
42	20,626	63	18,839			13,370	5,525	492	7,600	350	106,204	104,847	1,357	218,682	4
						212	204	4	4		917	827	90	2,780	5
50	28,241					6,155	2,100	967	3,088		285,682	283,624	2,068	378,919	6
203	83,863	4	1,200	5	810	38,195	24,810	1,027	9,327	3,031	176,576	171,159	5,417	438,019	7
47	8,440					4,673	1,184	74	915	2,500	30,997	30,120	877	66,555	8
818	883,712			9	1,775	85,380	44,993	11,274	28,415	707	643,694	587,092	56,602	2,211,666	9
105	65,170	95	27,305	1	144	10,638	10,014	625	4,799	4,300	195,210	194,018	1,192	356,735	10
168	73,330			2	370	34,456	20,803	1,373	4,467	1,813	156,226	149,224	7,002	465,681	11
1,438	536,588	566	179,423	21	2,815	151,042	28,936	3,060	100,086	13,960	2,378,156	2,362,314	15,342	3,615,801	12
81	46,741					25,500	3,428	3,243	20,129		184,970	181,240	3,730	863,354	13
16	6,840	28	7,120			2,133	1,446	122	565		40,110	39,385	725	69,848	14
78	82,630	144	26,505	12	2,158	19,317	6,418	1,178	11,660	61	68,381	65,996	2,385	196,001	15
232	71,620					25,100	7,090	504	17,506		283,132	283,767	4,365	401,704	16
11	6,392					1,480	1,125	45	310		42,172	41,857	815	61,850	17
674	331,484	286	50,291	12	2,652	200,133	53,959	6,652	138,577	1,000	1,532,116	1,485,195	46,921	2,700,489	18
310	322,040	5	1,170	31	5,630	32,387	539	6,761	23,487	2,250	185,284	85,697	149,587	772,308	19
394	205,999					26,787	1,576	1,870	18,241	10,100	535,417	527,509	7,908	917,754	20
90	45,610	1	175	1	144	6,338	1,374	375	4,589		110,001	109,317	774	196,548	21
3,909	2,029,151	1	260	3	740	800,749	22,764	5,555	64,605	716,825	5,169,694	5,148,847	25,847	9,216,347	22
27	8,613	17	4,670			2,659	1,487	85	7,038		6,302	6,302	646	86,121	23
22	13,370					1,352	1,020	12	920		17,077	16,800	277	36,750	24
111	80,140	1	100			985	220	144	621		96,606	96,070	536	177,675	25
49	21,142	3	1,000			5,273	2,010	210	2,463	600	54,480	53,825	655	112,350	26
1,052	456,247	8	3,000	6	2,048	104,319	17,640	10,936	73,379	2,355	877,885	850,886	26,999	1,959,974	27
4,696	2,598,359	1	312	8	716	95,561		15,031	30,530		3,380,441	3,269,402	121,039	6,319,876	28
724	395,179	7	1,560	9	1,485	102,096	12,794	10,214	75,326	3,762	7,188,711	7,040,425	148,286	8,479,896	29
1	432	1	300	1	160	2,005	1,836	24	188	17	6,885	6,640	245	15,955	30
		1	230			1,185	331	54	750		7,595	7,540	55	15,040	31
1,443	809,795	208	70,275	3	406	205,980	113,753	5,854	46,888	39,585	1,080,409	1,066,726	19,683	2,880,488	32
135	91,899	1,501	395,695	80	20,780	127,332	22,780	3,692	50,960	50,000	1,376,545	1,364,687	11,858	2,182,101	33
61	48,376	1,644	400,288	6	579	82,318	64,226	1,432	16,560	650	553,850	543,926	9,924	1,536,703	34
19	14,980	492	113,030	5	610	23,309	6,186	213	17,410	90	185,510	183,640	1,870	427,000	35
85	40,340	61	12,900			83,100	13,107	3,108	66,885		307,500	307,500	9,655	1,250,300	36
185	59,062	22	7,174			22,499	300	1,225	20,974		147,345	144,205	3,140	277,487	37
202	31,030	261	47,999	22	2,907	60,504	29,601	1,953	28,950		789,443	772,475	16,968	1,419,009	38
605	310,364	2	500	8	2,135	28,701	2,909	3,635	17,537	4,000	1,013,205	1,001,129	12,136	1,595,527	39
2	1,140	47	11,252			3,435	1,565	69	1,801		17,700	17,500	200	43,850	40
77	35,851	40	11,746	8	500	16,964	6,434	471	10,009		20,313	19,470	843	130,179	41
86	45,340					9,585	3,365	565	5,655		121,782	117,923	3,859	228,076	42
86	38,798	1	480	1	177	17,793	4,621	212	2,960	10,000	140,317	139,007	710	265,733	43
18	12,334					2,573	1,324	44	705		10,313	9,113	1,205	37,400	44
23	5,625					1,209	855	6	343		1,612	1,382	230	15,055	45
20	8,532	15	3,700			3,102	1,930	80	1,142		2,327	2,303	24	25,800	46
1	400					287	272		15		705	705		6,800	47
41	14,804	41	7,480			3,233	2,220	49	469	500	43,672	43,402	270	36,250	48
17	8,880	9	2,512	1	830	6,100	1,612	910	3,641		137,490	135,955	1,544	137,621	49
3,986	2,332,946	147	50,440	3	450	1,800,270	89,654	110,313	1,148,023	2,275	74,509,733	73,777,831	731,902	89,377,709	50
59	27,546	129	16,800			108,039	4,064	654	103,321		483,343	482,069	6,271	700,509	51
3,121	1,507,163	12	4,520	6	806	306,025	45,001	23,645	220,124	17,255	2,753,777	2,616,577	137,200	5,975,077	52
17	6,670	26	1,590	2	263	1,452	75	166	1,211		17,929	17,340	589	49,200	53
317	176,374	492	142,647	8	1,162	166,991	27,019	3,931	84,807	51,234	1,234,569	1,229,662	4,907	2,106,031	54
328	244,727	18	5,635	2	294	47,830	25,712	2,374	17,940	1,854	340,340	340,506	6,334	313,424	55
1,138	417,904	5	2,250	5	977	163,635	12,230	9,498	141,407	500	943,312	924,455	18,857	1,982,188	56
93	41,855	1	133			4,136	1,206	489	2,441		30,219	26,671	3,548	125,396	57
36	23,330	7	2,040	1	463	6,826	3,715	126	2,835	100	34,158	33,482	671	96,152	58
375	168,558					146,195	100	29,461	116,634		303,868	272,463	31,405	1,075,652	59
14	8,002					2,910	940	25	825	1,120	9,596	9,542	54	25,410	60
36	17,860	1	1,200			3,135	2,354	83	698		23,963	23,335	628	36,489	61

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.
Gloves and mittens	8	\$13,487			\$3,158	\$10,279	11	2	\$550	23	\$4,497
Grease and tallow	6	18,700	\$550	\$2,000	10,750	4,800	7	1	1,500	13	7,420
Hairwork	11	44,765	150	50	1,150	43,415	13	4	1,302	17	5,335
Hand stamps	7	50,580			26,200	24,380	8	3	3,410	46	23,302
Hats and caps, not including fur hats and wool hats.	4	16,100		400	4,200	11,500	4	5	3,280	38	9,837
Hosiery and knit goods	8	481,004	29,000	78,000	120,858	256,151	1	21	26,657	293	77,589
Iron and steel	3	713,806	56,000	169,717	167,477	330,612	20	20	25,320	409	175,264
Ironwork, architectural and ornamental.	9	803,994	99,409	95,186	162,423	446,976	8	57	44,206	436	239,618
Jewelry	7	43,850		4,000	16,850	23,000	11	5	1,000	56	23,762
Leather, tanned, curried, and finished.	9	23,060	1,765	12,000	4,000	5,205	9			18	3,550
Lime and cement	19	362,528	140,225	61,209	46,744	114,350	19	32	34,095	161	72,662
Liquors, malt	78	8,539,722	2,202,783	2,541,442	1,170,589	2,624,908	85	154	213,544	356	417,822
Lithographing and engraving	3	84,840			65,225	19,655	3	10	10,938	99	54,902
Lock and gun smithing	22	40,865	1,600	12,800	11,150	15,315	34	8	900	33	18,360
Looking-glass and picture frames	39	76,830	2,975	5,900	8,775	59,180	51	20	10,286	79	33,494
Lumber and timber products	433	52,095,923	19,295,059	1,547,493	6,105,488	25,147,885	519	604	751,057	15,140	7,140,571
Lumber, planing mill products, including sash, doors, and blinds.	61	2,489,374	431,633	347,601	439,418	1,270,720	75	143	127,288	1,639	667,091
Malt	5	314,387	13,600	109,000	23,071	108,716	2	9	11,160	28	13,855
Marble and stone work	62	812,603	195,979	69,877	221,524	325,223	59	54	56,562	1,311	611,697
Masonry, brick and stone	165	1,044,302	68,740	67,370	197,125	721,067	165	66	44,471	2,642	1,446,680
Mattresses and spring beds	15	335,631	40,600	51,945	31,395	211,741	20	23	18,377	214	84,300
Millinery and lace goods	5	77,900			7,650	70,250	7	11	6,750	135	34,466
Millinery, custom work	370	601,604	44,685	96,817	24,797	435,375	424	64	28,860	688	176,512
Mineral and soda waters	71	398,871	42,050	69,130	141,084	146,607	37	34	28,736	172	64,510
Models and patterns	8	12,555	800	1,150	5,025	5,580	11			11	5,925
Monuments and tombstones	80	352,961	53,025	32,710	30,430	236,796	97	32	27,774	280	145,190
Musical instruments and materials, not specified.	8	13,150			3,625	9,525	7	3	1,000	16	8,270
Musical instruments, organs and materials.	8	68,490	4,200	15,600	16,591	32,139	8	4	3,020	35	12,430
Oil, lincseed	5	1,963,231	228,000	295,000	661,000	779,231	5	45	71,375	155	81,081
Oil, not elsewhere specified	7	122,162	16,000	15,000	9,300	81,862	6	26	12,082	30	11,667
Optical goods	12	30,663			11,550	19,113	15	11	11,593	24	14,280
Painting, house, sign, etc	237	509,027	34,600	52,474	64,034	357,919	850	60	43,902	1,168	584,948
Paints	6	325,083	5,329	27,085	44,874	247,795	5	29	28,398	62	20,306
Paper hanging	34	75,909	2,700	2,150	6,127	61,923	41	23	9,967	141	76,273
Patent medicines and compounds	71	1,071,643	15,750	21,100	26,148	1,008,645	81	189	117,384	177	63,473
Paving and paving materials	49	276,201	36,297	16,850	49,100	173,954	60	18	8,501	560	268,620
Photography	203	466,359	51,775	80,295	169,115	165,174	284	29	14,111	245	101,257
Photolithographing and photoengraving.	10	28,875			15,550	13,325	12	3	744	53	20,380
Pickles, preserves, and sauces	5	131,850	3,000	30,600	28,900	119,350	3	31	29,690	77	24,324
Plastering and stuccowork	54	60,362	10,255	11,335	11,045	27,227	61	3	2,700	260	105,417
Plumbers' supplies	3	164,992	6,000	14,200	36,469	108,323	11	11	10,900	86	35,800
Plumbing, and gas and steam fitting	194	905,880	71,350	171,350	95,024	657,256	234	104	81,637	1,111	619,895
Pottery, terra cotta, and fire-clay products.	8	539,042	59,882	177,667	85,164	216,329	6	15	24,050	427	152,663
Printing and publishing, book and job.	145	1,196,561	12,600	13,600	620,191	550,170	174	270	193,615	1,074	502,939
Printing and publishing, newspapers and periodicals.	560	6,882,125	309,400	778,091	1,948,076	3,286,558	617	933	750,386	2,714	1,364,229
Printing materials	8	13,800			8,225	5,575	3			11	6,890
Refrigerators	4	193,945	22,662	44,000	11,619	53,664	2	6	12,400	90	31,890
Roofing and roofing materials	15	243,599	36,250	20,600	60,136	126,563	14	25	24,306	108	49,383
Saddlery and harness	512	1,597,941	192,442	373,768	164,669	1,267,062	583	68	66,166	834	367,367
Sewing machine repairing	5	2,855			805	2,050	4			3	2,010
Ship and boat building, wooden	25	161,967	24,050	29,975	44,732	63,210	28	7	7,580	137	74,317
Shirts	12	79,030			9,410	69,620	13	23	18,780	173	63,974
Show cases	3	13,900		6,000	4,250	3,650	3	1	500	14	7,200
Slaughtering and meat packing, wholesale.	13	1,211,086	62,000	180,510	120,442	842,104	21	110	97,889	627	289,463
Slaughtering, wholesale, not including meat packing.	7	143,925	9,150	60,400	11,760	62,625	6	6	4,820	41	28,514
Soap and candles	9	363,061	57,800	96,868	121,008	87,890	8	25	33,312	60	20,971
Starch	8	209,274	9,975	55,000	59,825	87,474	6	5	2,730	57	23,287
Steam fittings and heating apparatus	6	77,810			15,700	62,050	6	9	8,560	73	37,260
Stereotyping and electrotyping	5	85,694			35,270	50,424	3	18	6,507	60	32,342
Sugar and molasses, refining	11	166,945	315	4,185	24,475	127,470	14	17	36,500	71	28,775
Surgical appliances	3	5,100			1,900	3,200	2			5	2,420
Taxidermy	3	7,035	1,233	1,650	540	3,735	3			4	2,464
Tinsmithing, coppersmithing, and sheet-iron working.	398	1,162,594	133,740	174,230	304,978	649,666	501	71	70,037	1,265	599,941
Tobacco, chewing, smoking, and snuff.	3	5,895			195	5,700	3	1	600	3	1,434
Tobacco, cigars and cigarettes	305	1,218,805	98,955	160,610	38,367	920,973	342	91	33,348	1,559	630,444
Tools, not elsewhere specified	5	33,945	15,200	19,100	20,425	29,220	7	2	1,600	30	17,169
Trunks and valises	8	76,075			4,975	71,100	10	10	7,000	60	30,842
Typewriter repairing	6	12,625			670	11,955	2			13	7,324
Upholstering materials	14	119,825	28,350	22,300	39,800	33,875	14	6	4,955	83	35,773
Vinegar and cider	6	142,750	47,150	29,000	31,100	35,500	4	28	19,130	19	10,050

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.					MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.		
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.		Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
5	\$1,470	16	\$2,922	2	\$105	\$2,180	\$909	\$72	\$1,149		\$11,677	\$11,472	\$205	\$24,328	62
13	7,220					1,702	585	166	951		47,172	41,962	2,210	63,480	63
1	600	16	4,635			7,876	5,782	62	1,082	\$500	15,824	15,155	1,189	46,064	64
83	20,838	5	1,774	3	780	18,754	4,837	142	9,175	100	20,290	19,595	695	85,488	65
19	6,780	25	8,207			1,644	826	30	688		17,806	16,935	371	42,500	66
51	18,553	206	53,876	36	5,160	81,470	899	1,297	29,111	163	197,184	190,320	6,864	410,092	67
409	178,261					87,474		700			867,122	675,196	191,926	989,416	68
435	239,156	1	862			153,245	1,460	1,690	148,195	2,000	507,218	497,174	10,044	1,141,646	69
46	21,712	10	2,050			5,517	2,510	837	2,170	500	29,339	28,305	1,034	79,890	70
18	3,550					483	10	191	282		9,803	9,091	712	19,396	71
159	72,352	2	300			15,761	658	2,263	12,630	200	181,865	101,596	80,269	297,806	72
843	414,895	13	2,937			1,996,010	646	39,332	1,927,987	28,075	867,901	773,880	94,021	4,466,928	73
70	45,394	19	5,928	10	3,640	8,002	4,420	427	3,105	50	51,524	49,854	1,670	134,511	74
31	17,730	1	520	1	100	9,671	5,918	1,886	1,827	40	25,006	23,510	1,496	87,832	75
73	82,115	1	832	5	1,047	14,907	9,772	535	8,750	850	104,639	103,834	805	201,262	76
15,087	7,127,900	15	2,985	93	9,686	1,782,489	45,654	339,448	1,397,387		26,047,781	26,041,189	6,592	43,565,161	77
1,627	663,839	2	560	10	2,692	133,850	5,474	15,766	103,915	9,905	2,619,845	2,593,681	26,167	3,988,276	78
28	18,855					10,548	600	1,976	7,972		166,553	159,898	6,655	241,932	79
1,896	610,637			5	1,060	60,093	3,464	4,142	36,395	11,092	296,981	288,695	18,286	1,177,464	80
2,510	1,446,376	2	304	2		833,423	10,860	3,446	25,423	293,694	2,570,446	2,557,101	13,345	4,932,553	81
177	78,881	85	10,199	2	220	52,163	4,062	1,163	46,998		273,106	269,658	3,448	505,191	82
20	5,240	126	29,226			11,207	3,790	222	7,195		88,213	87,503	710	170,800	83
91	11,864	668	163,274	10	1,374	108,245	81,637	4,158	22,430	20	707,661	699,379	8,282	1,391,214	84
169	64,160	1	150	2	230	42,668	3,231	3,111	33,326	3,000	168,995	164,336	4,659	485,584	85
10	5,725	1	200			2,288	771	35	1,462	20	3,065	2,713	352	25,461	86
278	144,935			2	255	16,514	4,779	2,042	8,923	770	270,230	261,510	5,720	630,261	87
16	8,270					2,329	1,753	93	508		6,153	4,861	292	33,976	88
31	12,112	1	324			3,016		366	2,650		25,610	23,570	2,040	53,370	89
155	81,981					76,474	2,500	4,233	69,741		2,951,004	2,921,177	29,827	3,272,508	90
30	11,667					7,928	1,055	183	6,190	500	161,141	160,426	715	270,122	91
22	19,876	1	106	1	208	13,943	6,400	459	7,084		29,037	28,299	738	122,749	92
1,159	582,726	9	1,225	6	997	79,064	33,432	2,020	42,618	1,564	569,117	565,393	3,724	1,683,621	93
42	17,557	10	2,749			61,331	7,215	778	51,138	2,200	209,145	205,949	3,196	357,816	94
144	70,275					12,715	7,686	222	4,907		69,874	69,537	337	213,482	95
105	43,538	70	19,629	2	246	146,908	13,620	1,947	131,336		300,511	297,301	3,210	887,619	96
558	267,972			2	618	16,724	4,187	1,547	10,990		450,672	447,186	3,486	892,026	97
155	75,405	83	25,495	2	357	66,949	44,304	2,090	19,165	1,300	205,445	199,179	7,266	681,552	98
49	27,797	3	1,261	1	225	7,128	3,304	78	2,596	1,150	9,739	9,196	543	70,373	99
41	18,052					14,557	895	740	12,922		191,032	192,559	1,448	284,045	100
200	108,417	80	5,750	6	522	9,834	722	357	4,655	4,100	113,997	112,790	1,207	302,208	101
86	35,800					4,440	1,050	370	3,020		57,540	54,740	2,800	134,400	102
1,107	649,195			4	700	108,299	43,336	3,912	41,289	19,762	1,568,913	1,557,999	10,914	2,991,864	103
422	151,692	5	1,011			17,788		4,050	13,738		154,378	154,882	49,496	446,435	104
868	443,266	178	49,904	28	4,769	245,041	57,247	3,595	46,468	137,731	554,982	533,678	21,304	1,800,676	105
2,137	1,195,120	313	90,561	214	18,545	1,219,343	181,267	29,669	816,800	241,607	1,073,934	1,015,234	58,700	5,790,143	106
10	6,150	1	150			1,028	589	38	401		4,098	3,907	191	13,160	107
86	31,010			4	880	5,732	1,180	324	4,223		56,808	55,349	1,459	130,950	108
108	49,338					18,478	2,223	1,145	14,605	500	257,859	252,053	5,806	425,697	109
850	353,617	29	7,730	5	1,000	103,947	43,325	13,207	42,007	403	1,504,213	1,487,728	16,485	2,613,361	110
3	2,010					583	488	20	75		3,174	3,078	96	7,375	111
137	74,817					11,401	2,485	1,529	2,572	4,815	84,962	82,296	2,666	223,971	112
17	13,368	156	50,506			17,053	5,725	248	11,065	20	98,551	97,493	1,058	237,771	113
14	7,290					1,333	451	243	642		15,950	15,380	570	29,680	114
610	276,191	8	2,400	9	1,872	79,062	2,600	6,843	69,114	500	5,956,871	5,917,509	38,362	6,808,112	115
40	22,914	1	600			11,784	2,301	688	8,395		866,884	862,906	3,978	1,007,443	116
92	14,769	26	5,852	2	350	8,680	12	2,058	6,510		269,219	263,567	5,652	470,280	117
57	23,287					10,570		1,057	9,513		250,594	241,650	8,944	329,566	118
73	37,260					8,277	2,614	178	4,345	1,140	78,361	77,210	1,151	161,760	119
50	32,312					23,334	3,330	173	8,547	11,784	10,772	9,886	2,886	30,172	120
59	26,663	12	2,107			18,363	4,253	380	13,725		470,284	466,934	3,350	605,603	121
3	1,848	2	572			1,576	316	23	1,237		2,132	2,095	37	10,305	122
4	2,464					743	373	46	319		1,895	1,796	99	26,720	123
1,135	515,163	126	45,210	5	568	211,778	40,281	6,614	161,540	3,343	1,165,701	1,146,920	18,781	2,581,792	124
2	1,218	1	216			1,447	313	17	1,117		4,527	4,407	120	13,700	125
1,159	565,982	344	86,812	56	7,950	383,643	36,920	4,636	296,707	380	949,616	941,301	8,315	2,457,942	126
30	17,169					3,492	540	487	2,465		29,005	27,855	1,150	88,525	127
60	30,842					14,887	3,600	316	5,471		60,029	59,549	480	144,883	128
13	7,324					3,063	1,315	38	1,715		3,790	3,755	35	19,025	129
88	35,773					3,082	166	475	2,441		51,873	49,838	2,035	123,591	130
18	9,760					10,331	2,640	609	7,082		87,473	84,285	3,188	171,225	131

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.
132 Watch, clock, and jewelry repairing	315	\$384,020	\$41,470	\$57,975	\$111,059	\$174,116	348		176	\$99,010	
133 Window shades	5	101,948	15,000	17,000	4,514	65,434	4	9	36	17,878	
134 Wirework, including wire rope and cable.	8	97,725	5,010	15,240	16,125	61,350	11	5	49	19,938	
135 Wood, turned and carved	7	13,887	350	2,400	7,425	8,712	10		19	8,368	
136 Woolen goods	19	762,825	178,900	138,092	183,005	267,828	6	20	300	90,662	
137 All other industries	79	3,498,668	264,074	453,163	960,378	1,821,053	67	165	2,073	675,535	

<sup>1</sup> Embraces artificial feathers and flowers, 1; axle grease, 1; bags, other than paper, 2; baking and yeast powders, 2; billiard tables and materials, 1; blacking, 2; bluing, 1; boot and shoe uppers, 1; brassware, 1; buttons, 2; butter, reworking, 2; calcium lights, 1; cars and general shop construction and repairs by street railroad companies, 2; charcoal, 1; cordials and syrups, 2; cutlery and edge tools, 1; dentists' materials, 2; druggists' preparations, not including prescriptions, 1; emery wheels, 1; envelopes, 2; fertilizers, 1; fire extinguishers, chemical, 1; fireworks, 2; furnishing goods, men's, 2; hammocks, 1; hand knit goods, 1; hardware, 1; house furnishing goods, not elsewhere specified, 2; ink, printing, 1; instruments, professional and scientific, 1; labels and tags, 2; lard, refined, 1; lead, bar, pipe, and

TABLE 8.—MANUFACTURES IN CITIES

DULUTH.

1	All industries	433	\$3,372,940	\$2,728,821	\$618,712	\$1,615,678	\$3,909,729	478	245	\$245,448	3,998	\$2,145,441
2	Bicycle and tricycle repairing	6	4,317			1,892	2,425	10			2	891
3	Blacksmithing and wheelwrighting	22	17,655	800	5,265	8,880	7,760	25			28	17,407
4	Boots and shoes, custom work and repairing	26	8,225		1,075	3,120	4,030	27			18	5,876
5	Bread and other bakery products	5	17,152		2,000	5,508	9,644	6	9	4,624	41	21,649
6	Bridges	5	243,337	56,000	15,800	47,800	124,237	9	10	21,881	231	117,298
7	Carpentering	34	176,820		6,550	10,970	158,800	40	6	4,110	424	270,284
8	Carrriages and wagons	7	11,270	800	2,050	1,345	7,075	7			14	8,312
9	Clothing, men's, custom work and repairing	30	53,875	4,500	7,225	5,225	36,925	33	1	675	102	71,631
10	Clothing, women's, dressmaking	27	17,607	400	800	2,668	13,639	31			103	27,372
11	Confectionery	5	28,398		150	4,207	24,041	5	14	10,868	46	13,589
12	Dyeing and cleaning	3	2,150		300	1,200	650	4			10	3,802
13	Foundry and machine shop products	8	273,442		9,700	62,728	201,014	5	37	29,980	503	195,008
14	Fur goods	3	26,415			1,100	25,315	3			16	6,288
15	Furniture, cabinetmaking, repairing, and upholstering	5	2,270			360	1,910	6			4	2,540
16	Lock and gun smithing	4	3,060			1,725	1,335	4			2	568
17	Lumber and timber products	12	5,749,754	2,412,739	259,725	598,487	2,478,803	9	37	44,075	1,276	652,501
18	Lumber, planing mill products, including sash, doors, and blinds	4	157,812	49,000	19,000	52,674	62,674	4	5	3,624	51	23,500
19	Marble and stone work	5	4,000		1,200	1,375	1,425	6			18	11,537
20	Masonry, brick and stone	9	43,910	2,500	2,000	7,810	31,600	11	4	3,000	85	67,667
21	Millinery, custom work	17	27,157	1,500	4,267	1,590	19,800	15			31	10,090
22	Mineral and soda waters	4	22,775	2,000	1,150	12,200	7,425	4			12	7,581
23	Painting, house, sign, etc	23	38,105	700	2,400	3,065	31,940	31	7	6,035	100	65,882
24	Paper hanging	3	16,924			1,539	15,365	4	3	1,548	22	6,644
25	Photography	13	13,160		650	9,300	8,310	14			19	10,363
26	Plumbing, and gas and steam fitting	18	46,086			4,685	41,401	18	9	12,380	72	44,576
27	Printing and publishing, book and job	10	82,262			51,600	27,662	12	9	7,317	93	48,193
28	Printing and publishing, newspapers and periodicals	10	105,879			69,877	39,002	11	8	13,150	104	63,549
29	Saddlery and harness	7	31,100			7,200	23,900	7	3	2,400	43	22,011
30	Ship and boat building, wooden	5	89,482	8,600	11,685	17,272	42,925	5	7	7,580	71	41,700
31	Shirts	3	3,400			1,650	1,750	4			27	7,318
32	Thsmithing, coppersmithing, and sheet-iron working	18	27,693	200	450	8,575	18,468	19	5	5,020	60	31,412
33	Tobacco, cigars and cigarettes	13	31,310	475	1,510	1,205	28,120	11	4	3,600	64	36,716
34	Watch, clock, and jewelry repairing	16	10,355		1,900	4,250	4,205	19			6	4,099
35	All other industries	63	1,487,353	188,607	262,460	620,162	416,124	59	67	64,081	505	230,932

<sup>1</sup> Embraces artificial limbs, 1; awnings, tents, and sails, 2; bookbinding and blank book making, 2; boots and shoes, factory product, 1; bottling, 1; boxes, wooden packing, 2; brass castings and brass finishing, 1; brooms and brushes, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 2; cars and general shop construction and repairs by street railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 1; electrical apparatus and supplies, 1; electrical construction and repairs, 2; flavoring extracts, 1; flouring and grist mill products, 2; furniture, factory product, 2; gas and lamp fixtures, 1; gas, illuminating and heating, 1; glass, cutting, staining, and

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1	All industries	2,368	\$57,708,204	\$8,424,632	\$6,917,174	\$13,766,617	\$28,599,781	2,603	2,606	\$3,428,896	26,608	\$12,708,523
2	Agricultural implements	7	317,116	15,890	64,000	25,960	211,266	5	27	26,780	151	64,766
3	Artificial limbs	4	18,266			7,903	10,363	4	13	12,880	15	9,210
4	Awnings, tents, and sails	6	66,425	18,500	3,200	3,650	46,075	5	15	11,512	63	24,610
5	Belting and hose, leather	3	179,840	8,800	10,365	24,738	185,892	1	14	21,056	50	28,211
6	Bicycle and tricycle repairing	77	67,454	4,050	1,660	24,227	37,517	86	7	1,491	101	39,623
7	Blacksmithing and wheelwrighting	182	102,887	21,350	21,635	22,580	37,322	154	1	150	143	87,414
8	Bookbinding and blank book making	3	48,950			29,900	19,050	7	7	5,456	78	36,351
9	Boots and shoes, custom work and repairing	113	82,882	5,900	9,835	10,251	6,896	124	1	180	55	23,725
10	Boots and shoes, factory product	5	410,840		2,100	99,395	308,845	4	20	16,490	577	213,665
11	Bottling	7	100,240	24,600	29,900	10,375	29,365	3	8	4,520	37	19,046

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
160	\$97,277	5	\$1,120	5	\$613	\$55,924	\$35,368	\$2,640	\$15,197	\$2,724	\$104,047	\$98,891	\$5,216	\$458,979
32	16,140	3	1,634	1	104	3,909	720	509	2,680	—	133,517	130,871	2,646	238,507
48	19,214	—	—	1	114	3,596	425	76	3,095	—	41,598	40,478	1,120	78,574
19	8,308	—	—	—	—	1,052	871	100	681	—	6,421	5,361	1,060	20,994
160	60,196	119	27,081	21	3,385	36,178	1,255	3,894	31,029	—	272,488	263,477	9,008	496,812
1,619	584,309	441	89,252	13	1,964	218,638	54,571	17,877	133,292	12,898	4,090,636	4,081,946	58,690	5,709,184

sheet, 1; leather goods, 2; linen goods, 1; mats and matting, 1; mirrors, 2; mucilage and paste, 2; musical instruments, pianos and materials, 1; paper and wood pulp, 2; perfume and cosmetics, 2; photographic apparatus, 1; pocketbooks, 1; printing and publishing, music, 1; regalia and society banners and emblems, 1; rubber and elastic goods, 1; sausage, 1; sewing machines and attachments, 1; soda water apparatus, 1; sporting goods, 1; steam packing, 1; sugar and molasses, beet, 1; toys and games, 1; umbrellas and canes, 2; varnish, 1; washing machines and clothes wringers, 2; wheelbarrows, 1; windmills, 1; wool pulling, 1.

BY SPECIFIED INDUSTRIES: 1900.

DULUTH.

3,682	\$2,063,098	275	\$71,426	41	\$10,920	\$572,266	\$112,221	\$41,543	\$358,882	\$64,620	\$5,861,499	\$5,792,369	\$60,130	\$10,628,957	1
2	891	—	—	—	—	1,412	1,166	18	233	—	4,313	4,255	58	9,400	2
29	17,407	—	—	—	—	2,673	2,323	85	265	—	17,577	16,657	920	60,568	3
13	5,870	—	—	—	—	1,902	1,712	63	127	—	11,013	10,803	210	31,414	4
34	19,612	7	2,087	—	—	4,733	3,605	960	768	—	73,415	71,390	2,019	121,352	5
231	117,298	—	—	—	—	16,276	696	1,404	4,076	10,100	291,677	286,959	4,718	501,824	6
424	270,284	—	—	—	—	28,599	2,179	178	3,697	22,250	799,792	799,095	697	1,262,546	7
14	8,312	—	—	—	—	1,165	860	58	247	—	10,018	9,772	246	26,857	8
98	70,168	4	1,466	—	—	11,711	8,305	265	3,141	—	66,196	65,283	913	185,765	9
7	7,092	96	20,380	—	—	5,028	4,443	82	403	—	58,617	58,404	213	121,927	10
23	8,384	23	5,214	—	—	9,049	4,240	130	4,679	100	86,170	80,936	5,234	148,460	11
7	2,992	2	680	1	190	2,997	1,776	86	585	—	2,593	2,205	388	11,800	12
302	191,859	—	—	1	160	18,595	13,275	602	4,718	—	191,227	182,311	11,916	475,848	13
4	2,918	12	3,370	—	—	2,126	1,363	55	653	50	19,400	19,390	10	41,500	14
4	2,540	—	—	—	—	898	771	8	119	—	7,460	7,420	40	14,800	15
2	508	—	—	—	—	783	470	5	308	—	1,458	1,364	94	5,578	16
1,255	645,319	—	—	21	7,185	163,100	2,016	25,766	135,288	—	2,086,842	2,086,842	—	8,800,442	17
51	23,050	—	—	—	—	3,249	1,200	1,101	948	—	113,276	112,176	1,100	172,943	18
18	11,537	—	—	—	—	530	530	—	—	—	15,425	14,795	630	28,624	19
85	67,637	—	—	—	—	1,170	100	97	979	—	128,596	128,508	88	224,940	20
—	—	31	10,099	—	—	5,509	4,322	66	1,121	—	46,953	46,777	176	78,259	21
12	7,584	—	—	—	—	841	290	101	450	—	12,585	12,313	272	46,451	22
100	55,882	—	—	—	—	5,915	4,781	216	818	—	42,512	42,305	147	148,869	23
22	6,641	—	—	—	—	1,572	1,186	45	341	—	7,970	7,957	13	23,575	24
13	8,120	—	—	—	—	4,095	3,348	72	625	50	14,925	14,776	150	41,470	25
71	44,450	6	2,237	—	—	8,806	4,201	239	4,366	—	126,871	126,418	453	229,784	26
73	44,911	16	3,712	4	570	10,376	5,159	540	2,427	2,250	31,057	29,686	1,372	133,614	27
99	66,699	4	2,700	1	150	17,483	5,383	925	10,600	1,175	31,817	29,802	2,015	135,831	28
40	21,381	1	300	2	360	5,285	4,717	124	444	—	74,541	74,299	242	121,586	29
71	41,760	—	—	—	—	8,055	1,860	553	1,612	4,000	30,990	29,385	1,605	102,316	30
3	1,600	24	5,748	—	—	1,053	840	18	200	—	17,231	17,008	223	30,220	31
59	31,202	1	210	—	—	5,812	4,674	180	908	100	38,648	38,091	557	101,179	32
51	34,317	5	954	8	1,445	12,218	1,890	101	10,227	—	50,060	49,915	151	122,849	33
6	1,090	—	—	—	—	3,079	2,631	80	865	—	6,717	6,511	206	22,345	34
460	217,823	43	12,419	2	750	207,000	15,876	8,630	158,009	24,545	1,340,551	1,308,497	32,054	2,005,475	35

ornamenting, 1; hand stamps, 1; hosiery and knit goods, 1; house furnishing goods, not elsewhere specified, 1; lime and cement, 1; liquors, malt, 2; looking-glass and picture frames, 1; mattresses and spring beds, 2; millinery and lace goods, 1; monuments and tombstones, 1; optical goods, 2; paving and paving materials, 1; plastering and stuccowork, 2; roofing and roofing materials, 2; show cases, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 1; taxidermy, 1; trunks and valises, 2.

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22,323	\$11,612,118	4,000	\$1,060,101	190	\$36,304	\$5,237,162	\$670,649	\$216,351	\$3,560,745	\$789,417	\$78,175,785	\$77,458,060	\$722,675	\$110,943,043	1
148	63,466	3	1,300	—	—	16,404	1,380	904	13,630	490	112,485	109,623	2,862	302,319	2
15	9,210	—	—	—	—	8,252	1,500	115	6,637	—	11,865	11,585	280	66,400	3
25	12,373	38	12,232	—	—	10,517	3,580	422	6,365	150	66,276	65,516	760	137,670	4
50	23,241	—	—	—	—	6,165	2,100	967	3,088	—	235,682	233,624	2,058	378,919	5
97	38,424	3	1,000	1	109	17,884	12,111	197	4,012	1,504	80,982	78,886	2,096	190,978	6
142	37,298	—	—	1	146	20,619	15,779	947	3,693	200	91,298	85,785	5,483	325,952	7
42	25,971	35	10,819	1	144	11,287	4,410	201	3,516	3,100	17,928	17,331	597	85,778	8
54	23,571	—	—	1	203	10,624	8,579	190	792	1,063	40,745	39,659	1,086	124,778	9
371	154,115	191	57,980	15	1,570	25,404	6,874	706	18,324	—	663,326	659,487	3,839	1,008,007	10
37	19,046	—	—	—	—	14,911	1,580	520	12,311	—	65,524	64,635	889	151,500	11

TABLE 8.—MANUFACTURES IN CITIES

MINNEAPOLIS—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 Boxes, wooden packing.....	5	\$127,696			\$46,038	\$81,658	4	9	\$12,910	165	\$49,917
13 Bread and other bakery products.....	62	801,960	\$33,511	\$51,317	496,075	220,897	70	94	63,307	481	190,064
14 Brick and tile.....	8	173,410	82,100	18,275	21,775	51,260	9	4	2,150	88	36,012
15 Bridges.....	7	65,344	1,100	600	20,300	45,144	11	19	15,200	118	68,409
16 Brooms and brushes.....	8	17,835	2,400	8,100	1,325	10,710	8	1	800	33	10,830
17 Carpentering.....	176	940,988	53,720	42,470	109,186	741,562	105	49	55,461	2,851	1,175,806
18 Carpets, rag.....	6	5,265		100	4,225	810	7			25	8,375
19 Carpets, wood.....	3	5,100			500	4,600	4			22	11,200
20 Carriages and sleds, children's.....	8	2,400			300	2,100	4	1	300	7	2,712
21 Carriages and wagons.....	23	172,790	12,630	28,700	22,800	113,610	28	10	10,865	192	73,005
22 Cars and general shop construction and repairs by steam railroad companies.....	4	1,333,949	129,000	552,263	318,773	833,913		71	65,412	1,268	656,332
23 Cheese, butter, and condensed milk, factory product.....	15	42,464		200	17,570	24,694	22	7	3,020	26	12,513
24 China decorating.....	7	4,825	100	500	420	3,805	7			1	300
25 Cleansing and polishing preparations.....	5	8,265	2,000	1,900	255	4,050	6			3	822
26 Clothing, men's, custom work and repairing.....	139	304,373	13,450	17,675	28,895	334,363	171	50	35,016	717	387,000
27 Clothing, men's, factory product.....	13	236,976			57,590	179,386	18	23	19,050	465	143,416
28 Clothing, women's, dressmaking.....	204	203,391	18,000	20,900	25,511	143,050	224	13	14,374	855	206,015
29 Clothing, women's, factory product.....	5	67,063			20,791	46,272	11	15	11,710	431	96,430
30 Coffee and spice, roasting and grinding.....	8	32,000			3,600	28,400	5	15	12,365	22	11,000
31 Confectionery.....	21	170,065	5,000	8,000	98,520	118,485	22	69	39,650	180	68,582
32 Cooperage.....	14	322,615	68,676	78,681	34,500	140,858	7	26	20,315	441	241,463
33 Corsets.....	4	16,700			800	15,900	6	2	480	17	6,352
34 Dyeing and cleaning.....	8	19,375	3,000	4,000	7,950	4,425	11	2	316	73	29,400
35 Electrical apparatus and supplies.....	7	69,195			23,445	45,750	5	11	6,976	70	37,740
36 Electrical construction and repairs.....	9	10,880	150	150	4,750	5,830	16	1	260	25	10,370
37 Electroplating.....	3	9,000			4,950	4,050	4	2	900	16	7,650
38 Enameling and enameled goods.....	3	2,875			1,000	1,875	4			9	4,325
39 Flavoring extracts.....	6	7,465			1,830	5,635	11	5	1,217	6	2,732
40 Flouring and grist mill products.....	12	14,322,061	646,517	1,096,811	5,450,624	7,128,019	4	240	327,300	2,071	1,321,898
41 Food preparations.....	10	156,411	625	10,500	30,975	106,211	5	26	25,500	159	28,954
42 Foundry and machine shop products.....	62	1,642,754	254,767	179,852	479,408	728,727	56	155	136,325	1,309	558,418
43 Fur goods.....	16	127,866	4,000	4,000	7,260	112,606	18	4	2,604	139	49,668
44 Furniture, cabinetmaking, repairing, and upholstering.....	59	214,348	24,800	17,900	33,753	137,890	69	12	7,500	217	177,694
45 Furniture, factory product.....	12	749,867	116,642	112,806	108,179	412,240	13	53	54,494	536	217,994
46 Gas and lamp fixtures.....	5	27,600			2,700	24,900	4	8	6,732	87	21,751
47 Gas machines and meters.....	4	6,300			2,950	3,350	5	2	1,200	9	5,600
48 Glass, cutting, staining and ornamenting.....	4	7,135		150	435	6,600	5	1	520	16	9,480
49 Gloves and mittens.....	4	3,855			1,555	2,300	7			10	2,210
50 Hairwork.....	7	31,140	150	50	525	30,415	9	1	312	11	3,555
51 Hand stamps.....	3	27,780			14,000	13,780	4	2	910	24	11,734
52 Hosiery and knit goods.....	4	273,860	23,000	45,000	72,374	133,486		9	18,950	139	40,256
53 Ironwork, architectural and ornamental.....	5	769,515	98,409	94,186	148,503	428,417	6	50	37,626	373	210,657
54 Jewelry.....	5	37,850		4,000	14,850	19,000	8	1	500	45	18,362
55 Liquors, malt.....	4	4,195,408	1,737,040	1,263,775	443,708	745,885	1	44	66,967	194	124,315
56 Lock and gun smithing.....	11	25,285		12,000	4,450	8,335	11	6	556	17	12,530
57 Looking-glass and picture frames.....	14	40,350			4,350	36,000	15	18	9,610	52	20,667
58 Lumber and timber products.....	13	12,900,046	3,581,147	237,952	937,996	3,059,953	7	103	177,368	3,017	1,490,262
59 Lumber, planing mill products, including sash, doors, and blinds.....	14	1,244,311	259,147	172,646	201,416	611,102	14	79	80,486	900	380,973
60 Marble and stone work.....	17	280,635	21,179	31,827	93,924	133,705	15	13	13,602	409	224,681
61 Masonry, brick and stone.....	53	390,150	14,725	9,910	54,535	310,980	61	45	22,031	1,128	645,330
62 Mattresses and spring beds.....	4	235,935	38,500	44,545	23,167	129,723	8	9	7,830	146	59,630
63 Millinery, custom work.....	35	154,474	1,000	10,000	4,507	138,967	38	36	19,834	247	75,175
64 Mineral and soda waters.....	8	66,695	14,200	11,700	17,300	23,495	10	7	6,400	28	15,466
65 Models and patterns.....	6	7,355	300	150	3,425	3,480	9			9	4,850
66 Monuments and tombstones.....	12	37,760	3,460	2,800	3,335	28,176	11	3	3,124	39	19,701
67 Musical instruments and materials, not specified.....	5	6,200			2,375	3,825	5			7	3,050
68 Oil, linsed.....	3	1,123,032	125,000	165,000	466,000	372,032		39	66,815	104	54,491
69 Oil, not elsewhere specified.....	5	104,712	16,000	15,000	6,800	66,912	4	18	6,032	23	6,917
70 Optical goods.....	6	18,100			4,200	13,900	7	7	7,118	12	7,280
71 Painting, house, sign, etc.....	104	132,352	7,850	11,655	25,012	138,335	114	24	18,561	419	199,055
72 Paints.....	4	67,025	915	2,000	15,741	48,369	3	12	8,078	14	6,568
73 Paper hanging.....	22	48,946	1,800	1,650	2,543	42,953	26	20	8,419	107	55,566
74 Patent medicines and compounds.....	36	385,588	1,500	5,050	5,780	372,638	39	101	57,492	55	21,886
75 Paving and paving materials.....	25	99,125	7,900	7,810	16,735	66,680	32	5	2,605	211	124,464
76 Photography.....	55	91,145	12,900	6,000	12,735	39,070	60	20	9,332	61	30,585
77 Photolithographing and photoengraving.....	6	18,750			9,550	9,200	7	3	744	41	22,531
78 Plastering and stuccowork.....	21	27,422	2,255	4,500	5,885	14,782	24	3	2,700	75	42,196
79 Plumbing, and gas and steam fitting.....	66	318,168	900	2,000	35,444	309,824	32	63	49,378	562	326,539
80 Printing and publishing, book and job.....	73	474,357	100	200	289,413	184,644	37	63	57,296	548	233,200
81 Printing and publishing, newspapers and periodicals.....	79	1,731,793	173,300	201,700	439,630	917,113	77	304	293,342	588	341,115

BY SPECIFIED INDUSTRIES: 1900—Continued.

MINNEAPOLIS—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.										
165	\$19,947					\$20,900	\$6,160	\$277	\$14,562		\$157,142	\$154,612	\$2,530	\$276,900	12
801	153,268	173	\$34,694	7	\$2,102	142,988	26,619	2,597	118,772		731,706	711,427	20,279	1,287,251	13
88	36,012					4,567		1,954	2,613		21,598	5,638	16,935	79,155	11
118	53,400					8,127	750	61	7,286		225,940	225,110	830	355,150	15
32	16,686			1	144	1,008	290	83	695		86,096	86,096	200	58,925	16
2,348	1,174,926	1	260	2	620	537,792	10,718	2,485	45,129	\$179,460	3,191,616	3,170,986	20,660	5,412,038	17
12	4,510	13	8,765			1,453	655	23	775		2,273	1,987	280	16,712	18
22	11,200					1,551	780	6	765		13,015	13,750	265	30,760	19
7	2,742					1,173	860	20	293		4,455	4,375	80	15,350	20
189	71,405	3	1,600			17,308	6,460	912	8,940	935	161,121	157,544	8,777	332,401	21
1,268	656,932					52,166		305	51,861		776,003	740,697	35,306	1,550,513	22
25	12,288			1	225	9,580	4,420	179	4,981		105,508	163,833	1,675	211,843	23
		1	300			900	736	12	135	17	2,910	2,740	170	9,755	24
1	492	1	230	1	160	1,149	845	54	750		7,445	7,390	55	14,380	25
611	349,527	104	37,056	2	417	108,467	52,836	2,426	19,810	33,895	460,793	453,357	7,436	1,227,838	26
47	35,009	418	108,407			13,815	7,942	1,125	5,948		160,229	157,746	2,483	448,681	27
29	18,784	823	187,001	3	250	42,184	29,573	894	11,467	200	314,592	309,843	4,749	747,012	28
11	8,920	415	86,900	5	610	17,360	8,820	190	19,230	90	110,310	108,640	1,670	302,000	29
16	8,900	6	2,100			17,050	6,000	650	10,400		335,730	331,830	3,900	397,400	30
85	33,354	92	19,385	3	843	23,880	11,555	874	11,451		375,598	369,232	6,276	619,033	31
432	239,003	2	500	7	1,960	21,093	1,970	2,208	12,815	4,600	852,568	849,545	9,023	1,814,635	32
49	22,480	17	5,252			1,035	1,229	25	681		3,890	3,865	25	14,350	33
70	37,740	23	6,790	1	130	10,880	3,180	299	7,401		11,075	8,123	2,950	72,325	34
24	10,133			1	177	7,759	2,245	209	5,305		110,425	107,055	3,370	189,836	35
						2,054	1,405	42	607		28,859	28,455	404	54,438	36
16	7,650					1,685	1,124	26	635		8,635	7,858	777	26,700	37
9	4,625					899	555	6	338		1,172	1,082	90	12,156	38
4	2,080	1	312	1	330	1,968	922	30	1,016		12,145	12,005	140	21,451	39
1,939	1,276,058	132	45,940			725,766	10,520	46,189	660,057		45,218,238	44,914,121	304,117	49,673,568	40
30	13,374	129	15,610			102,310	2,650	280	99,380		415,122	410,779	4,343	555,804	41
1,204	553,352	12	4,820	3	546	161,049	17,100	10,550	118,269	15,130	1,142,298	1,112,106	30,192	2,570,601	42
45	24,116	93	25,510	1	72	15,982	6,416	485	9,081		166,603	165,240	1,363	263,252	43
206	174,500	9	2,900	2	294	29,724	14,316	1,093	13,461	854	199,985	195,219	3,766	470,037	44
530	216,644	2	670	4	677	56,833	6,810	4,068	45,455	500	894,800	876,849	7,951	827,286	45
29	19,246	7	2,040	1	468	6,332	3,290	97	2,845	100	28,242	27,776	466	80,800	46
9	5,500					1,729	796	18	395		4,872	4,842	30	15,035	47
15	8,280	1	1,200			1,727	1,444	63	220		12,133	11,870	263	36,050	48
1	570	8	1,560	1	80	768	498	5	265		3,937	3,811	126	9,628	49
		11	8,555			4,728	3,532	36	680	500	10,477	10,355	122	28,300	50
19	10,590	2	364	3	780	5,811	2,381	64	3,376		5,905	5,668	237	38,600	51
26	9,280	118	30,973			23,723	264	545	21,914		118,939	116,582	2,107	257,078	52
373	210,057					148,780	580	1,369	146,331		480,494	471,729	8,765	1,076,286	53
35	16,812	10	2,050			4,286	2,285	308	1,443	300	22,044	21,184	860	62,500	54
186	123,048	8	1,797			711,942	96	16,409	695,497		252,107	233,337	18,770	1,507,720	55
16	12,000	1	520			3,989	3,196	321	432	40	17,159	16,423	731	51,655	56
47	18,893	1	332	4	837	8,752	6,039	251	1,612	850	65,983	65,550	433	123,030	57
3,009	1,488,917	8	1,345	9	2,512	415,036	25,569	45,574	348,893		7,155,402	7,149,402	6,000	12,285,305	58
891	378,458					60,663	8,290	7,399	49,974		1,547,059	1,532,114	14,945	2,329,769	59
409	224,881					40,268	5,651	1,216	24,941	8,460	83,732	79,015	4,717	415,441	60
1,126	645,026			2	804	114,864	8,299	1,464	15,097	95,004	1,300,823	1,255,987	5,736	2,267,773	61
126	53,593	18	5,817	2	220	44,541	1,282	895	42,364		169,700	167,982	1,768	333,191	62
18	11,364	227	63,403	2	408	42,337	32,287	1,313	8,787		280,762	229,001	1,761	473,300	63
28	15,460					5,950	885	1,013	1,552	3,000	19,425	18,995	430	65,540	64
8	4,650	1	200			1,911	631	13	1,247	20	2,374	2,092	282	20,961	65
39	19,701					2,573	1,128	208	1,037	200	59,378	59,182	196	99,503	66
7	3,050					1,075	654	13	408		2,448	2,336	112	11,095	67
104	54,491					70,681	2,500	4,022	64,109		1,818,314	1,798,695	19,679	2,014,214	68
23	5,947					4,573	700	133	3,240	500	84,430	83,820	610	166,080	69
12	7,280					10,653	4,375	271	6,007		17,831	17,423	408	78,700	70
415	193,283			4	772	87,599	18,210	450	23,589	350	284,578	233,060	1,513	664,397	71
10	5,635	4	933			7,021	1,000	111	3,710	2,200	58,952	57,676	1,276	96,829	72
107	55,566					10,151	5,735	118	4,243		63,447	53,256	191	162,067	73
25	12,043	29	9,732	1	106	63,370	7,580	492	60,298		109,659	107,889	1,770	376,108	74
240	124,176			1	288	8,607	2,192	561	5,854		199,152	196,743	2,409	387,824	75
43	24,403	17	6,025	1	157	21,502	15,182	383	5,687	250	53,899	52,520	1,379	178,466	76
89	21,787	2	744			5,402	2,100	47	2,105	1,150	7,584	7,354	230	50,570	77
75	42,196					5,190	240	94	1,356	3,500	58,110	57,283	827	186,950	78
660	326,129			2	410	50,151	22,517	1,095	17,689	8,850	700,994	695,560	5,434	1,441,553	79
433	216,002	103	34,917	12	2,281	68,706	28,211	1,618	17,263	21,619	209,474	199,003	10,471	770,839	80
521	923,093	47	14,995	20	3,027	448,307	48,194	5,069	299,659	95,885	328,869	316,776	12,093	1,792,955	81

TABLE 8.—MANUFACTURES IN CITIES

MINNEAPOLIS—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.
82 Roofing and roofing materials	6	\$178,499	\$32,100	\$12,800	\$35,186	\$93,913	4	14	\$17,986	64	\$30,078
83 Saddlery and harness	83	173,166	3,000	20,885	36,252	104,079	85	18	17,940	176	84,323
84 Ship and boat building, wooden	3	1,365	650	200	300	125	3			1	420
85 Shirts	6	60,790			5,860	54,930	7	21	17,280	112	46,461
86 Soap and candles	4	78,261	5,500	12,768	18,653	36,310	1	13	13,612	22	8,321
87 Steam fittings and heating apparatus	4	43,650			8,900	35,550	5	5	5,000	52	24,895
88 Taxidermy	4	3,705	800	500	345	2,060	4			8	1,760
89 Tinsmithing, coppersmithing, and sheet-iron working	68	174,211	13,200	7,305	39,984	108,722	85	12	6,004	264	135,235
90 Tobacco, cigars and cigarettes	42	206,203	2,200	5,200	9,438	189,365	51	28	22,058	335	152,385
91 Trunks and valises	3	19,825			1,025	18,800	3	5	3,000	20	12,182
92 Typewriter repairing	4	2,275			320	1,955	2			7	3,824
93 Watch, clock, and jewelry repairing	51	34,193	3,400	2,200	16,130	12,413	50			52	86,196
94 Window shades	3	36,800	7,000	13,000	1,200	15,600	3	2	1,300	11	4,900
95 Wood, turned and carved	3	5,737			4,025	1,712	5			8	4,368
96 All other industries <sup>1</sup>	88	7,376,824	643,827	2,016,467	2,435,094	2,251,446	78	213	215,644	1,906	830,165

<sup>1</sup>Embraces artificial feathers and flowers, 1; bags, other than paper, 2; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; bicycles and tricycles, 1; blacking, 1; bluing, 1; boot and shoe uppers, 1; boxes, cigar, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 2; buffings, 1; butter, reworking, 1; calcium lights, 1; cars and general shop construction and repairs by street railroad companies, 1; coffins, burial cases, and undertakers' goods, 2; cordials and sirups, 2; dentists' materials, 1; engraving, steel, including plate printing, 2; engraving, wood, 2; envelopes, 2; fancy articles, not elsewhere specified, 1; fire extinguishers, chemical, 1; fireworks, 1; furnishing goods, men's, 2; furs, dressed, 2; gas, illuminating and heating, 2; hats and caps, not including fur hats and wool hats, 1; labels and tags, 1; lard, refined, 1; leather goods, 1; lime and cement, 2; lithographing and engraving, 2; millinery and lace goods, 1; mirrors, 2;

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1 All industries	1,591	\$28,208,339	\$2,134,257	\$3,733,941	\$8,289,147	\$14,051,044	1,747	2,292	\$2,012,674	17,593	\$7,669,895
2 Artificial limbs	3	2,500			1,200	1,300	4	2	1,168	8	3,540
3 Awnings, tents, and sails	8	29,810			1,510	28,300	7	4	2,110	32	10,355
4 Bicycle and tricycle repairing	31	23,590			9,870	13,720	37	1	960	45	22,650
5 Blacksmithing and wheelwrighting	71	57,895	9,650	13,925	10,415	47,805	81	2	804	79	47,072
6 Bookbinding and blank book making	7	51,350			29,000	22,350	6	9	5,060	115	53,248
7 Boots and shoes, custom work and repairing	101	26,564	2,900	4,000	9,495	10,079	106			89	17,947
8 Boots and shoes, factory product	4	1,294,435			131,164	1,113,271	5	80	90,805	1,019	377,458
9 Bottling	5	48,175	7,000	10,000	12,300	18,875	8	8	7,600	21	14,540
10 Boxes, cigar	3	18,500			5,500	13,000	3	2	1,580	33	10,760
11 Boxes, wooden packing	3	39,010		20	12,090	26,900	3	2	2,100	45	15,693
12 Bread and other bakery products	40	473,912	13,700	84,500	292,377	158,385	48	78	81,015	263	122,682
13 Brick and tile	4	87,785	31,200	22,525	12,560	19,500	5	4	5,400	40	17,260
14 Brooms and brushes	8	49,784	2,850	2,800	3,130	41,004	10	3	4,450	39	20,769
15 Carpentering	106	269,775	43,400	27,325	36,500	162,550	116	9	6,730	626	331,656
16 Carpets, rag	4	3,010		200	1,380	1,430	6			12	4,174
17 Carriages and wagons	14	270,709	76,000	59,531	27,470	107,708	28	11	10,640	173	80,729
18 Cars and general shop construction and repairs by steam railroad companies	7	1,595,840	172,200	780,272	237,847	846,521	28	68	68,927	1,401	817,302
19 Cheese, butter, and condensed milk, factory product	5	175,054			67,542	107,512	6	14	11,800	46	20,020
20 China decorating	3	6,435			175	6,260	4	1	160		
21 Clothing, men's, custom work and repairing	103	201,832	2,175	3,125	12,440	184,092	119	18	17,470	432	248,726
22 Clothing, men's, factory product	9	896,470			98,614	797,856	21	92	109,400	1,209	355,750
23 Clothing, women's, dressmaking	172	91,216	6,700	8,300	22,006	54,210	197	5	3,220	597	130,737
24 Clothing, women's, factory product	8	18,800			5,800	13,000	6	2	1,650	85	32,190
25 Coffee and spice, roasting and grinding	6	344,300		500	33,300	310,500	5	75	72,350	118	40,040
26 Confectionery	13	154,403	6,000	4,000	29,059	115,344	16	68	48,266	208	47,921
27 Cooperage	9	121,575	26,800	23,400	14,815	56,560	7	6	5,000	77	37,578
28 Dyeing and cleaning	6	17,480	1,000	5,500	4,060	6,920	7	3	2,010	34	13,036
29 Electrical apparatus and supplies	4	10,325			5,625	4,700	5	1	400	12	6,800
30 Electrical construction and repairs	5	47,250			4,200	43,050	6	7	7,530	53	24,000
31 Electroplating	3	5,950			4,500	1,450	6			7	5,194
32 Food preparations	7	19,582	300	200	7,912	11,170	11	6	4,700	24	6,302
33 Foundry and machine shop products	25	1,529,715	139,577	273,934	413,708	702,496	25	72	90,987	997	515,623
34 Fur goods	17	1,011,125	20,000	10,000	41,525	939,600	23	141	110,864	641	253,382
35 Furniture, cabinetmaking, repairing, and upholstering	26	29,165	2,100	1,400	4,510	21,155	25	8	1,100	70	45,285
36 Furniture, factory product	8	287,273	45,777	31,273	58,101	152,122	10	31	26,980	225	94,556
37 Furs, dressed	4	60,600	9,000	13,700	18,500	14,400	4	2	1,800	71	31,475
38 Hairwork	3	12,625			525	12,000	3	8	990	6	1,680
39 Ironwork, architectural and ornamental	3	30,179		200	11,920	18,059	1	7	6,680	61	28,461
40 Liquors, malt	7	2,355,460	264,543	512,677	303,889	1,274,346	5	44	71,460	276	115,532
41 Lock and gun smithing	10	5,720			2,175	3,545	12	2	344	9	8,620
42 Looking-glass and picture frames	7	11,420			1,350	10,070	13	2	676	20	10,194
43 Lumber, planing mill products, including sash, doors, and blinds	7	657,624	103,911	89,132	95,980	368,601	3	36	26,048	330	129,079
44 Marble and stone work	5	144,900	22,500	15,300	34,000	73,100	6	9	11,250	122	53,300
45 Masonry, brick and stone	50	544,175	39,700	53,420	125,785	325,270	61	17	19,440	1,055	584,800
46 Mattresses and spring beds	3	76,441			2,893	73,548	3	14	10,497	46	15,517

BY SPECIFIED INDUSTRIES: 1900—Continued.

MINNEAPOLIS—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.									
64	\$30,078					\$8,558	\$800	\$962	\$6,791		\$193,710	\$190,153	\$3,566	\$208,114
164	80,738	9	\$2,750	3	\$610	20,846	11,711	1,751	6,881		300,827	297,509	3,318	499,875
1	420					99	60	10	29		743	735	8	2,395
12	10,128	100	36,823			14,605	8,890	170	10,525	\$20	65,950	65,285	665	170,043
14	6,619	6	1,352	2	850	4,441	2	1,169	3,270		98,395	96,190	2,205	155,380
62	24,895					6,287	1,894	108	3,645	1,140	62,616	62,300	316	115,800
3	1,760					410	234	25	755		804	804	49	10,550
263	145,052			1	213	23,189	11,895	856	9,825	618	226,361	223,868	2,498	520,483
201	112,359	181	39,736	3	290	68,844	11,338	498	57,008		173,272	172,041	1,231	582,491
20	12,182					4,038	1,020	130	2,888		16,389	16,289	100	38,698
7	8,821					683	675	8			1,535	1,535		4,725
52	36,196					18,597	10,095	224	1,791	1,487	17,848	16,535	1,313	101,014
10	4,240	1	750			1,704	300	868	1,036		39,500	38,880	620	84,500
8	4,908					1,055	736	30	289		2,268	1,670	598	8,794
1,429	696,173	485	123,655	52	10,337	295,645	66,383	81,138	197,563	561	4,139,889	4,077,871	62,018	6,228,624

muclage and paste, 1; paper and wood pulp, 1; perfumery and cosmetics, 2; pickles, preserves, and sauces, 2; plumbers' supplies, 2; pocketbooks, 1; pottery, terra cotta, and fire-clay products, 1; printing and publishing, music, 1; printing materials, 2; sausage, 1; sewing machine repairing, 2; show cases, 1; slaughtering and meat packing, wholesale, 1; soda water apparatus, 1; sporting goods, 1; steam packing, 1; stereotyping and electrotyping, 2; sugar and molasses, refining, 1; surgical appliances, 2; tobacco, chewing, smoking, and snuff, 2; tools, not elsewhere specified, 2; umbrellas and canes, 1; upholstering materials, 1; vinegar and cider, 1; washing machines and clothes wringers, 1; wheelbarrows, 1; wirework, including wire rope and cable, 2; woolen goods, 1; wool pulling, 1.

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13,391	\$6,583,370	3,922	\$1,046,002	280	\$40,433	\$3,668,047	\$135,990	\$115,650	\$2,323,554	\$792,858	\$19,464,570	\$19,008,732	\$365,838	\$38,541,030	1
7	3,310	1	200			485	460	25			4,045	4,000	45	22,300	2
11	5,460	21	5,506			2,706	1,710	81	965		26,608	26,287	321	56,429	3
44	21,825			1	225	7,903	5,130	111	1,255	1,467	34,712	33,859	853	89,829	4
79	47,072					9,892	7,843	453	1,611	55	42,417	42,417	2,986	174,114	5
59	87,693	56	15,555			6,237	4,908	229	1,040		172,169	171,699	470	257,757	6
88	17,785			1	162	8,206	6,707	180	829	400	30,066	28,677	1,389	101,427	7
697	273,287	820	103,834	2	387	86,779	16,617	4,590	65,672		1,002,502	993,824	8,678	1,645,999	8
24	14,500					8,009	1,460	2,409	4,140		38,838	37,908	930	78,088	9
11	4,840	22	5,920			1,398	966	82	350		30,040	29,630	410	51,848	10
45	15,603					2,577	630	102	1,845		58,257	56,632	1,625	87,808	11
199	107,834	63	14,700	1	118	81,530	15,458	1,711	13,361	1,000	479,908	467,733	12,175	875,903	12
40	17,260					6,552	20	832	5,700		17,364	5,514	11,850	54,485	13
38	20,584	1	175			5,027	1,084	168	8,775		49,672	49,279	393	96,601	14
625	381,536	8	614	1	120	194,423	6,401	1,407	9,245	177,310	557,507	536,233	1,274	1,365,991	15
9	3,560					856	624	10	222		1,605	1,505	100	607,116	16
178	80,729					17,834	8,770	1,784	12,030	250	110,269	105,459	4,810	320,548	17
1,398	816,586			3	716	13,396		10,602	2,794		1,192,187	1,155,420	36,767	2,036,312	18
46	20,020					11,379	4,160	748	6,471		433,022	427,066	5,956	517,790	19
386	234,031	36	14,695			1,165	1,100	12	53		3,975	3,900	75	6,200	20
						53,491	32,873	819	14,684	5,215	272,547	263,636	8,911	744,259	21
78	53,610	1,051	281,360	80	20,780	112,849	14,828	2,501	45,020	50,000	1,171,891	1,163,821	9,070	1,647,000	22
21	22,600	570	167,808	8	329	23,618	24,260	261	3,742	350	147,003	143,735	3,268	552,811	23
8	6,070	77	26,130			6,539	2,366	23	4,150		75,200	75,000	200	125,000	24
65	29,840	53	10,200			63,372	6,207	2,375	54,790		615,225	610,020	5,205	807,900	25
75	27,509	131	20,248	2	864	23,104	11,330	717	11,057		252,113	248,428	3,685	519,236	26
77	87,578					4,985	525	807	3,653		73,025	71,910	1,115	130,920	27
18	9,480	15	4,276	1	180	2,722	700	136	1,885		5,895	5,142	753	38,274	28
12	5,600					1,266	880	86	350		10,138	10,567	429	81,600	29
53	24,900					14,243	2,100	130	2,013	10,000	87,267	87,127	140	173,200	30
7	5,184					888	700	18	170		1,683	1,255	428	11,100	31
14	5,172	10	1,190			3,210	1,414	105	1,691		24,111	23,230	881	44,140	32
990	515,778			1	150	90,784	10,929	5,902	71,962	2,000	1,018,266	944,831	73,435	2,016,937	33
289	145,046	345	107,246	7	1,090	145,438	17,498	3,145	73,661	51,184	997,435	994,416	3,019	1,892,193	34
67	42,555	3	2,410			8,370	6,254	147	1,569	400	63,460	63,386	1,074	169,989	35
223	93,276	2	1,280			40,594	5,280	1,583	33,781		269,910	266,210	3,700	517,289	36
71	31,475					1,597	309	437	860		24,923	22,543	2,380	90,750	37
1	600	5	1,080			2,538	2,100	21	417		4,387	4,375	12	16,664	38
60	28,099	1	362			4,300	880	131	1,289	2,000	25,479	24,375	1,104	62,260	39
276	115,532			1	100	678,186		5,948	672,233		234,722	211,124	23,598	1,335,293	40
8	8,500					4,312	1,896		908		4,210	3,705	505	20,072	41
19	9,984			1	210	2,922	2,050	138	734		16,340	16,193	147	41,292	42
337	128,519	2	560			37,931	60	4,412	27,474	5,935	598,299	594,484	3,815	841,955	43
122	58,300					6,245	860	735	4,150	500	108,660	106,875	1,785	196,200	44
1,055	584,800					208,451	6,735	1,776	7,680	192,290	814,005	806,574	7,431	1,898,817	45
85	12,684	11	2,863			6,511	1,980	90	4,441		77,317	76,922	395	116,312	46

TABLE 8.—MANUFACTURES IN CITIES

ST. PAUL—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND VILLAGES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
47	Millinery and lace goods	3	\$67,200			\$2,450	\$64,750	5	9	\$5,500	99	\$23,616
48	Millinery, custom work	25	86,365	\$500	\$500	3,015	32,550	29	20	6,240	87	20,734
49	Monuments and tombstones	7	22,156	600		2,455	19,131	8	2	1,800	26	14,025
50	Musical instruments and materials, not specified.	3	6,950			1,250	5,700	2	3	1,000	9	5,220
51	Painting, house, sign, etc	80	188,568	13,175	22,779	22,758	129,856	93	26	17,556	435	236,415
52	Paper hanging	4	3,840	100	300	725	2,215	6	6	6,050	10	5,218
53	Patent medicines and compounds	21	55,942	900	800	4,208	50,936	24	34	27,862	49	15,633
54	Paving and paving materials	9	147,621	21,897	4,575	27,000	98,349	9	13	6,896	261	111,350
55	Photography	26	110,901	6,000	7,000	39,820	58,081	28	6	3,979	72	33,417
56	Photolithographing and photoengraving.	4	10,125			6,000	4,125	5	6		12	6,755
57	Pickles, preserves, and sauces	3	30,850		5,600	3,900	21,350	2	6	6,050	22	6,292
58	Plastering and stuccowork	21	24,650	7,100	5,485	3,210	8,875	24	21	13,814	97	58,410
59	Plumbing, and gas and steam fitting	50	291,260	60,000	45,430	20,370	165,460	61	21	127,902	257	170,755
60	Printing and publishing, book and job.	47	577,997	7,500	8,900	246,878	914,721	53	195	127,902	395	188,888
61	Printing and publishing, newspapers and periodicals.	44	2,816,189	100,600	394,281	500,473	1,820,835	30	503	402,911	900	473,327
62	Refrigerators	3	14,850			2,750	12,100	2	4	8,100	31	10,529
63	Roofing and roofing materials	3	33,850	500	1,800	16,550	15,000	1	7	6,920	34	14,380
64	Saddlery and harness	19	444,940	16,000	46,900	47,995	334,045	21	44	44,500	290	113,663
65	Ship and boat building, wooden	3	18,125	3,500	4,000	1,500	4,125	3	2	1,500	5	2,428
66	Shirts	3	14,900			1,900	13,000	2	2	1,500	34	10,173
67	Slaughtering and meat packing, wholesale.	3	199,773	41,000	52,000	11,500	95,273	5	12	7,890	69	32,378
68	Slaughtering, wholesale, not including meat packing.	3	51,225	3,000	23,300	4,800	20,125	2	4	8,500	15	9,574
69	Soap and candles	3	279,700	51,800	77,500	100,150	50,250	3	12	19,700	34	11,100
70	Stereotyping and electrotyping	3	65,194			22,270	42,924	1	11	4,570	26	16,014
71	Tinsmithing, coppersmithing, and sheet-iron working.	54	573,309	58,750	77,545	163,922	273,092	64	46	56,543	660	248,161
72	Tobacco, cigars and cigarettes	60	513,471	60,050	39,500	6,618	357,303	67	52	52,480	562	230,627
73	Trunks and valises	3	47,500			3,700	43,800	5	5	4,000	31	15,000
74	Vinegar and cider	4	122,250	47,150	24,000	26,100	25,000	2	22	16,480	12	7,500
75	Watch, clock, and jewelry repairing	41	51,240	3,800	10,250	19,085	18,165	46			89	26,717
76	All other industries <sup>1</sup>	92	3,133,778	574,347	316,697	4,646,450	2,146,284	79	259	262,640	2,175	662,348

<sup>1</sup> Embraces baking and yeast powders, 1; baskets, and rattan and willow ware, 2; bicycles and tricycles, 2; billiard tables and materials, 1; blacking, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 1; brassware, 1; bridges, 1; butter, reworking, 1; carpets, wood, 1; carriage and wagon materials, 2; carriages and sleds, children's, 1; cleansing and polishing preparations, 1; coffins, burial cases, and undertakers' goods, 1; dentists' materials, 1; druggists' preparations, not including prescriptions, 1; emery wheels, 1; enameling and enameled goods, 1; engraving, steel, including plate printing, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 2; fireworks, 1; flavoring extracts, 2; flouring and grist mill products, 1; fruits and vegetables, canning and preserving, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 2; hand stamps, 2; hardware, 1; hats and caps, not including fur hats and wool hats, 2; house furnishing goods, not elsewhere specified, 1; ink, printing, 1; instruments, professional and scientific, 1; iron

TABLE 9.—MANUFACTURES IN CITIES AND

	Total for cities and villages	1,720	\$30,708,298	\$5,294,075	\$3,536,340	\$5,266,818	\$16,611,065	2,008	1,163	\$1,115,070	13,631	\$5,967,157
2	Albert Lea	83	466,426	63,300	76,250	100,292	226,584	98	21	14,363	336	146,164
3	Anoka	47	620,333	22,270	70,360	136,532	391,671	57	11	11,873	291	123,399
4	Austin	69	469,671	41,420	137,080	108,871	181,300	85	19	13,293	265	107,296
5	Brainerd	54	1,924,045	209,810	219,010	409,372	1,085,858	62	55	59,288	939	528,612
6	Crookston	60	761,047	92,734	107,665	141,026	419,622	67	22	15,040	349	191,419
7	Fairbault	102	880,867	81,100	167,564	270,524	361,679	123	65	56,090	482	222,234
8	Fergus Falls	91	423,254	26,775	78,325	119,440	204,714	108	19	19,688	264	114,267
9	Hastings	59	238,372	13,670	63,300	87,726	128,676	65	12	10,022	172	70,761
10	Little Falls	52	2,508,745	1,372,320	104,105	213,306	819,014	58	32	41,705	603	264,553
11	Mankato	135	1,371,907	169,205	250,724	401,033	550,395	162	92	78,185	633	242,712
12	Moorhead	23	134,034	17,050	19,400	56,219	41,365	24	6	4,310	77	39,010
13	New Ulm	90	1,097,016	57,725	363,650	267,107	409,134	111	42	55,279	423	183,982
14	Owatonna	32	434,260	53,700	71,600	93,850	210,110	97	19	16,720	257	108,955
15	Red Wing	79	1,657,336	144,461	321,994	313,982	876,899	84	78	78,603	765	297,190
16	Rochester	116	471,994	38,975	74,962	141,075	216,982	144	21	11,506	331	125,891
17	St. Cloud	96	780,946	86,800	145,915	209,033	343,193	112	56	39,193	650	343,062
18	St. Louis Park	6	1,223,875	48,975	144,945	431,005	603,950	6	41	60,225	224	134,660
19	St. Peter	61	374,760	32,707	80,883	81,040	180,070	74	13	10,600	199	77,685
20	South St. Paul	11	927,594	8,050	119,200	102,725	697,529	6	93	80,954	573	263,485
21	Sillwater	114	5,451,915	1,712,851	190,275	625,082	2,923,707	128	128	144,735	2,303	1,122,530
22	Wabasha	44	349,954	17,925	24,102	70,330	237,627	52	11	10,780	83	39,449
23	Waseca	69	260,614	16,700	39,410	61,115	143,389	92	15	11,360	172	89,292
24	West Minneapolis	15	1,665,907	25,210	122,314	11,639	1,506,634	16	83	79,807	476	211,129
25	Winona	162	6,192,386	938,222	543,307	866,384	3,847,473	182	204	192,051	2,214	628,400

BY SPECIFIED INDUSTRIES: 1900—Continued.

ST. PAUL—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.										
4	\$2,910	95	\$20,676			\$9,825	\$2,600	\$200	\$7,025		\$65,770	\$85,860	\$410	\$127,700	47
2	600	82	19,998	8	\$296	17,163	13,992	223	2,948		64,871	63,845	526	134,872	48
26	14,025					2,139	1,320	54	690	\$75	24,714	24,034	680	51,557	49
9	5,220					1,254	1,104	50	100		2,705	2,525	180	27,881	50
432	285,190	8	1,225			27,389	11,158	715	14,802	1,214	197,378	196,281	1,097	591,460	51
10	5,240					847	180	27	140		3,369	3,301	68	14,400	52
22	9,012	26	6,461	1	140	45,726	4,389	302	41,035		45,357	44,756	601	219,637	53
260	111,010			1	360	6,749	1,848	886	4,515		203,909	208,477	522	395,653	54
49	25,023	22	8,224	1	200	14,249	10,685	218	2,968	880	44,340	43,343	992	161,043	55
10	6,010	1	520	1	225	1,726	1,204	81	401		2,155	1,842	313	19,803	56
19	5,452	8	750			8,946	645	204	8,097		55,692	55,340	348	81,420	57
97	53,440					4,189	384	221	2,984	600	44,881	44,526	365	130,216	58
256	170,586			1	170	30,505	9,076	1,289	9,817	10,823	861,738	859,410	2,328	689,039	59
336	177,393	48	9,607	11	1,808	163,324	22,659	1,175	25,628	113,862	289,164	280,817	8,347	923,908	60
711	439,848	84	29,581	105	4,398	645,166	40,585	14,565	446,444	143,572	381,434	361,592	19,842	2,258,427	61
81	10,520					2,701	1,180	18	1,508		7,265	6,657	608	88,250	62
81	14,300					8,608	890	81	7,637	500	50,563	48,485	2,078	101,928	63
280	108,983	19	4,680			21,745	6,749	1,305	12,865		565,512	562,959	2,553	835,193	64
5	2,428					190	70	46	71		6,492	6,382	110	10,275	65
2	1,740	32	8,435			1,895	995	60	340		15,370	15,200	170	37,500	66
67	31,778	2	600			12,716		700	11,516	500	591,214	589,154	2,060	821,158	67
15	0,874					8,981	2,300	251	5,830		398,535	397,205	1,330	464,206	68
14	6,600	20	4,500			3,979		819	3,160		162,575	159,525	3,050	302,800	69
20	16,014					20,244	1,230	83	7,147	11,781	7,236	6,850	1,386	56,372	70
534	202,984	125	45,000	1	180	157,726	9,505	2,725	143,286	2,200	649,970	641,077	8,899	1,582,499	71
887	199,774	158	37,124	17	3,079	190,547	10,371	1,975	118,201		885,446	882,954	2,492	865,567	72
34	15,000					8,239	5,660	140	2,433		38,990	38,610	380	91,000	73
12	7,500					7,845	720	505	6,320		66,513	63,838	2,675	127,200	74
35	26,204			4	513	9,608	6,551	256	1,761	1,037	20,008	19,509	499	60,235	75
1,743	597,976	403	60,409	29	4,133	325,971	33,407	27,088	259,676	5,900	3,549,719	3,491,287	58,432	5,006,825	76

and steel, 1; jewelry, 1; labels and tags, 1; lead, bar, pipe, and sheet, 1; lime and cement, 1; lithographing and engraving, 1; lumber and timber products, 2; malt, 1; mats and matting, 1; mineral and soda waters, 2; models and patterns, 2; muelage and paste, 1; musical instruments, organs and materials, 1; oil, linseed, 2; oil, not elsewhere specified, 2; optical goods, 2; paints, 2; plumbers' supplies, 1; printing materials, 1; regalia and society banners and emblems, 1; rubber and elastic goods, 1; sewing machine repairing, 1; sewing machines and attachments, 1; show cases, 1; steam fittings and heating apparatus, 1; sugar and molasses, refining, 1; surgical appliances, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; toys and games, 1; typewriter repairing, 2; umbrellas and canes, 1; varnish, 1; washing machines and clothes wringers, 1; window shades, 2; wirework, including wire rope and cable, 2; wood, turned and carved, 1.

VILLAGES UNDER 20,000 IN POPULATION: 1900.

12,792	\$5,782,058	761	\$167,234	128	\$17,865	\$1,012,288	\$172,791	\$221,990	\$1,447,098	\$60,806	\$90,505,368	\$20,979,323	\$526,040	\$15,057,064	1
282	184,287	51	11,817	3	550	28,777	8,770	2,830	17,177		402,082	389,406	12,566	750,100	2
254	115,413	87	8,400			56,240	4,983	5,580	31,723	13,960	1,451,288	1,438,856	12,432	1,817,812	3
216	97,937	48	9,019	2	250	26,065	5,970	1,062	18,438		474,286	447,688	26,598	767,455	4
972	524,802	12	3,425	5	785	102,130	5,455	6,892	89,865		1,112,037	1,093,784	18,253	1,943,962	5
334	187,145	13	3,975	2	290	59,071	4,940	6,890	45,701	1,600	635,330	621,059	14,271	1,102,064	6
434	213,958	43	7,881	5	400	47,852	9,962	5,648	30,002	2,240	2,014,715	1,986,000	28,715	2,687,312	7
230	104,411	20	5,058	5	1,898	43,892	6,876	8,580	25,826	7,600	685,833	676,397	10,436	1,062,397	8
158	68,842	11	1,312	8	230	36,872	12,216	2,185	19,721	2,750	1,024,625	1,010,712	13,913	1,270,209	9
587	260,951	11	2,961	5	607	93,261	5,229	41,090	45,942	1,000	1,418,892	1,399,816	17,576	2,139,427	10
603	204,696	187	32,197	48	5,849	87,620	14,210	9,614	62,659	1,137	1,513,132	1,472,676	40,507	2,242,000	11
71	38,098	3	581	3	928	9,525	2,189	727	6,609		372,841	362,183	10,158	490,249	12
895	178,615	25	5,074	3	298	128,660	7,473	5,644	118,618	1,925	1,706,462	1,666,103	40,859	2,328,347	13
242	105,020	14	2,465	1	250	34,582	7,050	2,209	25,200	24	486,828	475,645	11,183	788,927	14
739	290,819	24	6,056	2	265	109,007	8,199	13,344	87,302	62	1,383,140	1,297,625	85,515	2,120,908	15
281	117,740	46	7,921	4	230	65,439	8,694	3,197	57,138	16,460	986,215	973,173	13,042	728,166	16
632	388,012	18	5,050			63,422	8,556	6,772	46,624	1,470	1,229,824	1,207,278	22,546	1,895,202	17
219	132,310	4	1,200	1	150	28,601	655	1,202	17,996	8,748	271,292	264,081	7,208	606,736	18
168	69,236	27	7,210	4	639	34,815	8,684	2,083	27,003	2,045	274,104	264,268	9,836	509,471	19
558	258,293	7	2,409	8	1,792	61,437	598	6,123	54,716		5,168,573	5,138,987	29,586	5,714,757	20
2,767	1,112,689	85	9,591	1	50	203,523	17,805	39,641	145,332	745	2,508,559	2,496,153	12,401	4,904,792	21
74	37,711	9	1,738			35,646	2,463	1,604	31,879	200	581,336	572,736	9,150	761,105	22
160	80,871	9	2,116	8	305	15,749	4,168	1,499	10,882		767,954	755,408	11,846	976,007	23
475	210,939	1	170			134,959	475	1,888	132,366		345,070	329,619	15,451	833,328	24
2,042	899,260	147	26,501	25	2,639	404,187	21,194	50,166	325,277	7,550	4,292,845	4,249,903	42,942	6,576,382	25