

# TEXAS.

Table 1 shows the manufacturing and mechanical industries of the state of Texas 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 .....	12,289	5,268	2,996	2,399	988	809	133.3	75.8	24.9	144.0	218.1
Capital .....	\$90,433,882	\$46,815,181	\$9,245,561	\$5,284,110	\$3,272,450	\$599,200	93.2	406.4	75.0	61.5	596.8
Salaried officials, clerks, etc., number .....	8,560	14,681	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	93.9				
Salaries .....	\$3,229,075	\$3,437,848	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	96.1				
Wage-earners, average number .....	48,153	34,794	12,150	7,927	3,449	1,066	38.4	186.2	53.4	129.8	223.5
Total wages .....	\$20,552,355	\$15,148,495	\$3,343,087	\$1,787,835	\$1,163,756	\$322,368	35.7	353.1	87.0	51.8	260.7
Men, 16 years and over .....	44,190	31,845	11,645	7,450	3,338	1,042	38.8	173.5	56.3	123.2	226.3
Wages .....	\$19,669,788	\$14,521,346	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	33.4				
Women, 16 years and over .....	2,913	1,977	116	157	111	24	47.3	1,004.3	26.1	41.4	362.5
Wages .....	\$787,863	\$502,291	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	46.8				
Children, under 16 years .....	1,041	972	398	320	( <sup>2</sup> )	( <sup>2</sup> )	7.1	144.2	24.4		
Wages .....	\$145,250	\$121,858	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	19.2				
Miscellaneous expenses .....	\$6,144,924	\$3,594,940	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	70.9				
Cost of materials used .....	\$37,102,760	\$36,152,308	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	85.6	179.0	106.5	86.3	753.3
Value of products, including custom work and repairing .....	\$119,414,982	\$70,483,551	\$20,719,928	\$11,517,302	\$6,577,202	\$1,168,538	69.5	230.9	79.9	75.1	462.0
Total population .....	3,048,710	2,285,523	1,591,740	818,579	604,215	212,592	36.4	40.4	94.5	35.5	184.2
Wage-earners engaged in manufactures .....	48,153	34,794	12,150	7,927	3,449	1,066	38.4	186.2	53.4	129.8	223.5
Per cent of total population .....	1.6	1.6	0.8	1.0	0.6	0.5					
Assessed value of real estate .....	\$306,904,488	\$523,893,098	\$205,508,924	\$97,186,568	\$112,476,013	\$23,149,671	27.3	154.9	111.5	113.6	299.0
Value of land and buildings invested in manufactures <sup>4</sup> .....	\$28,034,873	\$14,585,723	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	92.2				
Per cent of assessed value .....	4.2	2.8									

<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> 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.

Although Texas is an agricultural and stock-raising state, Table 1 shows that there has been a large growth in its manufacturing and mechanical industries during the half century. The population during these years increased from 212,592 to 3,048,710, while the average number of wage-earners employed in manufacturing establishments increased from 1,066 to 48,153, embracing, in 1900, 1.6 per cent of the entire population, compared with five-tenths of 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 77,995, or 2.6 per cent of the total population of the state. The greatest percentage of increase in the value of products is shown for the decade ending with 1860, but the greatest absolute increase was between the years 1880 and 1890.

Manufacturing in Texas is chiefly a result of the state's

abundance of raw materials, especially lumber, cotton, and wheat, the leading industries being those which are more or less dependent upon these materials. The large area of the state, and the heavy freight charges, tend to encourage local production, while abundant fuel is available for power in the vicinity of Fort Worth and Dallas. There were 883,832 short tons of coal mined in the state in 1899, or nearly seven times the production of 1889.<sup>1</sup>

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

<sup>1</sup> United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 502.

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	16,245	\$92,747,845	18,800	52,085	\$20,697,998	\$8,201,861	\$67,683,062	\$27,550,627	\$36,156,424	\$3,976,011	\$121,015,480
Hand trades <sup>1</sup>	4,588	4,851,855	5,159	6,872	8,477,727	654,802	7,049,023	91,790	6,713,030	244,203	15,756,310
Eleemosynary and penal institutions	28	767,826		945	82,218	581	809,097	64,058	159,186	85,003	652,282
Establishments with a product of less than \$500	3,933	1,546,187	4,226	2,987	68,425	56,556	271,196	43,628	221,364	6,204	948,266
All other establishments	7,706	85,582,527	8,915	41,281	17,074,628	5,490,122	60,053,746	27,850,251	29,062,894	8,640,601	108,658,672

<sup>1</sup> Includes bicycle and tricycle repairing, 66; blacksmithing and wheelwrighting, 2,100; boots and shoes, custom work and repairing, 340; carpentering, 397; clothing, men's, custom work and repairing, 276; clothing, women's, dressmaking, 81; dyeing and cleaning, 56; furniture, cabinetmaking, repairing, and upholstering, 101; lock and gun smithing, 62; masonry, brick and stone, 96; millinery, custom work, 421; painting, house, sign, etc., 166; paper hanging, 1; plastering and stucco work, 24; plumbing, and gas and steam fitting, 87; sewing machine repairing, 8; taxidermy, 2; typewriter repairing, 1; watch, clock, and jewelry repairing, 298.

Of the 16,245 establishments of all classes shown in this table, 8,516, or 52.4 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

\$16,704,576, or only 13.8 per cent of the total value of the products of the state.

In addition to the 16,245 active establishments in the state during the census year, with a capital of \$92,747,845, shown in Table 2, there were 177 idle establishments, with a capital of \$1,158,574, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Brick and tile	14	\$54,055	Lumber and timber products	11	\$52,830
Cotton, compressing	3	105,375	Oil, cottonseed and cake	1	50,000
Cotton, ginning	94	207,250	Petroleum, refining	1	25,000
Flouring and grist mill products	16	79,815	Sugar and molasses, refining	7	252,415
Iron and steel	1	274,000	Woolen goods	1	10,000
Lime and cement	1	30,000	All other industries	27	24,884

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	5,798	\$60,176,510	30,119	\$12,602,437	\$3,445,302	\$11,904,972	\$73,024,696
	1890	2,503	30,284,764	21,737	8,687,063	2,328,867	24,165,537	43,189,273
Increase, 1890 to 1900		3,295	29,941,786	8,382	4,005,374	1,816,495	17,739,435	29,835,363
Per cent of increase		127.4	99.0	38.6	46.1	66.5	73.4	69.1
Per cent of total of all industries in state	1900	47.1	66.5	62.5	61.8	59.3	62.4	61.2
	1890	47.5	64.6	62.5	57.3	64.8	66.8	61.3
Cars and general shop construction and repairs by steam railroad companies.	1900	56	8,730,792	6,633	4,004,769	183,838	8,578,536	8,314,691
Clay products:	1890	81	1,140,049	2,354	1,674,786		1,223,074	2,860,285
Total	1900	171	1,406,066	1,869	496,996	59,308	278,398	1,212,266
	1890	148	1,139,561	2,072	563,980	56,722	267,143	1,811,270
Brick and tile	1900	143	1,293,271	1,579	419,578	47,014	284,617	1,020,205
	1890	124	1,051,414	1,956	510,753	58,868	249,132	1,214,690
Pottery, terra cotta, and fire-clay products	1900	28	203,895	280	77,423	12,294	43,376	192,061
	1890	19	85,147	116	48,227	2,854	18,011	96,580
Cotton, ginning <sup>1</sup>	1900	3,222	9,282,101	4,295	648,157	282,614	1,578,911	5,886,928
	1890	572	1,568,902	2,440	805,061	90,477	294,792	1,172,298
Flouring and grist mill products	1900	289	4,278,490	705	398,908	243,390	10,372,887	12,333,780
	1890	690	4,052,802	1,626	409,000	260,816	8,294,003	9,903,455
Foundry and machine shop products	1900	99	2,809,524	1,343	728,558	94,490	1,181,042	2,682,422
	1890	59	1,580,156	782	513,083	80,101	785,001	1,874,059
Liquors, malt	1900	9	4,439,012	585	854,682	1,210,381	646,794	2,689,606
	1890	7	1,534,775	401	205,628	879,809	495,807	1,702,087
Lumber and timber products	1900	637	19,161,265	7,924	8,094,917	368,437	9,668,343	16,296,473
	1890	514	11,176,551	7,455	2,656,119	490,984	6,420,878	11,942,566
Lumber, planing mill products, including sash, doors, and blinds	1900	76	992,860	657	382,288	40,632	900,302	1,605,297
	1890	62	1,169,445	949	541,032	81,848	1,554,926	2,700,941
Oil, cottonseed and cake	1900	103	7,986,962	2,478	380,766	550,225	10,872,753	14,005,524
	1890	13	2,858,615	866	320,140	238,070	2,531,911	3,262,596

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

## STATISTICS OF MANUFACTURES.

TABLE 3.—COMPARATIVE SUMMARY OF ELEVEN 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.			
Printing and publishing:								
Total	1900	772	\$8,806,168	2,547	\$1,298,180	\$503,188	\$966,268	\$1,577,110
	1890	447	2,575,882	2,069	1,211,099	529,553	998,021	3,971,410
Book and job	1900	118	827,095	718	882,151	111,863	334,886	1,189,700
	1890	56	904,945	469	821,030	85,083	483,386	1,213,888
Newspapers and periodicals	1900	654	2,479,078	1,829	916,029	391,325	631,382	3,387,410
	1890	391	1,670,937	1,600	890,069	441,470	514,635	2,757,822
Saddlery and harness	1900	359	2,757,700	1,093	504,221	153,769	2,066,243	3,420,790
	1890	165	1,939,016	693	397,135	125,987	1,349,881	2,488,556

The 11 leading industries of the state in 1900, as shown by Table 3, embraced 5,793 establishments, or 47.1 per cent of the total number in the state; used a capital of \$60,176,540, or 66.5 per cent of the total; gave employment to 30,119 wage-earners, or 62.5 per cent of the total number; and paid \$12,692,437, or 61.8 per cent of the total wages. The value of their products was \$73,024,636, or 61.2 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that the manufacture of lumber and timber products is the most important industry in the state. The 637 establishments reported in 1900 gave employment to 7,924 wage-earners, or 16.5 per cent of the wage-earners employed in the state, and the products were valued at \$16,296,473, or 13.6 per cent of the total value of the products of the state. In 1890 there were 314 establishments, 7,485 wage-earners, and products valued at \$11,942,566. The increase in the value of products during the decade was \$4,353,907, or 36.5 per cent.

The greatest increase took place during the last two or three years of the decade, 243 of the 637 establishments reported in 1900 having been erected during the census year. The industry is confined almost entirely to the counties composing the extreme eastern part of the state. The 215 mills in this section, from Bowie county on the north to Jefferson and Harris counties on the south, reported products valued at \$13,930,298 in 1900, or 85.5 per cent of the total for the state, the industry centering chiefly around the towns of Beaumont and Orange. Forests of shortleaf pine extend from the Texarkana district southward to a point about 100 miles north of Beaumont, and average about 4,000 feet of merchantable timber per acre. From this point southward to Jefferson county, and extending across the Sabine River into Louisiana, lies the finest continuous area of longleaf pine in the United States, the average stand of merchantable timber ranging from 6,000 to 35,000 feet per acre. Many of the mills use considerable quantities of timber brought from the pine forests of western Louisiana. The small quantities of hard-wood lumber manufactured in Texas—chiefly oak, ash, and elm—were reported mainly from the counties lying along and near the Red River, in the northwestern portion of the state.

The manufacture of cottonseed oil and cake ranks second among the industries of the state in 1900, with 103 establishments, 2,478 wage-earners, and products valued at \$14,005,324. In 1890 there were 13 establishments, 860 wage-earners, and products valued at \$3,262,596. The increase in the value of products during the decade was \$10,742,728, or 329.3 per cent. Allied to this industry is the ginning of cotton, with 3,222 establishments in 1900, and 4,295 wage-earners. The receipts for ginning and other work done amounted to \$5,886,923. In 1890 there were 572 establishments and 2,440 wage-earners, and the receipts for ginning and other work done amounted to \$1,172,298. The increase in these receipts during the decade was \$4,714,625, or 402.2 per cent. These figures do not include the operations of many private plantation ginneries, or ginneries connected with saw, grist, or cottonseed-oil mills. For the full number of ginneries in operation reference should be made to the special report on cotton ginning. In each of these 2 industries Texas ranks first in the United States—a natural result of its preeminence in cotton growing. There were 2,658,555 commercial bales of cotton grown and ginned in the state in 1899, or 27.9 per cent of the production of the United States.<sup>1</sup> The cotton belt in Texas extends from Travis county, near the center of the state, in a northeasterly direction to Grayson, Fannin, and Lamar counties, bordering upon Indian Territory. The ginneries in the counties of this belt handled 38 per cent of the entire cotton production of the state in 1899. Three of the largest ginneries in the United States, ginning annually over 7,000 round bales each, are located at Waco, Farmersville, and Granger, and in the average size of its ginneries Texas is exceeded only by Oklahoma and Indian Territory. Nowhere, except in these territories, are automatic gins so largely used, or have the ginneries so generally adopted the custom of pressing the cotton after ginning into the so-called "round bales." This process was first introduced in 1894, in Texas, and since then has been very widely adopted in other states. "Round bales" are ready for shipment when they leave the gin, and the work of cotton compressors is therefore dispensed with. Of the 93,325,729 gallons of cottonseed oil produced in the United States during the census year,

<sup>1</sup> Special Report on Cotton Ginning (Crop of 1899).

24,354,695 gallons, or 26.1 per cent, were produced in Texas.<sup>1</sup> Large quantities of this oil are shipped each year from Galveston to Mediterranean ports. The cake and meal are not so largely used as fertilizers in Texas as they are in the cotton states east of the Mississippi River. This is due to the more recent development of the Texas soils, and the greater demand in this state for cottonseed meal and cake as food for cattle. It is estimated that half a million cattle are annually fattened on hulls and meal in the cotton states west of the Mississippi River.<sup>2</sup>

There were 289 establishments engaged in the manufacture of flouring and grist mill products, the industry third in rank in 1900, with 705 wage-earners, and products valued at \$12,333,730. In 1890 there were 690 establishments, 1,626 wage-earners, and products valued at \$9,903,455. The increase in the value of products during the decade was \$2,430,275, or 24.5 per cent. There were 12,228,132 bushels of wheat and 3,565,933 bushels of corn ground in the mills of Texas during the census year. During the years 1898, 1899, and 1900 Texas rose to a leading position among the wheat producing states, ranking twenty-second in the United States in 1898, nineteenth in 1899, and sixth in 1900.<sup>3</sup> The large wheat production of Oklahoma and Indian Territory is also available, and is drawn upon to supply the mills of Texas. The most extensive operations outside the city of Galveston are in the counties which are near these territories. Waterpower is used in only a few establishments, steam supplying 85.5 per cent of the total power used. In many of the smaller mills cotton ginning is combined with flour and grist milling, and the total value of products includes \$12,955 received for custom cotton ginning.

There were 56 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 6,633 wage-earners, and products valued at \$8,314,691. In 1890 there were 31 establishments, 2,354 wage-earners, and products valued at \$2,860,235. The increase in the value of products during the decade was \$5,454,456, or 190.7 per cent. The immense area of Texas was traversed by 9,886 miles of railroads in 1900, a greater mileage than that of any other state in the Union except Illinois and Pennsylvania.<sup>4</sup> This has necessitated a large number of repair shops, and accounts for the importance of this industry in the state. The establishments reported in 1900 were located in 37 different counties. In addition to the general repair work carried on in these shops, 412 freight cars, 11 passenger cars, and 9 locomotives were built during the census year.

<sup>1</sup> Special Report on Cottonseed Products.

<sup>2</sup> Cotton and Cotton Oil, by D. A. Tompkins, page 372.

<sup>3</sup> Yearbook of the Department of Agriculture, 1898, page 681; 1899, page 766; and 1900, page 767.

<sup>4</sup> Interstate Commerce Commission: Statistics of Railways in the United States, 1900, page 12.

There were 772 establishments engaged in printing and publishing in 1900, with 2,547 wage-earners, and products valued at \$4,577,110. In 1890 there were 447 establishments, 2,069 wage-earners, and products valued at \$3,971,410. The increase in the value of products during the decade was \$605,700, or 15.3 per cent.

There were 359 establishments engaged in the manufacture of saddlery and harness in 1900, with 1,093 wage-earners, and products valued at \$3,420,790. In 1890 there were 165 establishments, 693 wage-earners, and products valued at \$2,488,356. The increase in the value of products during the decade was \$932,434, or 37.5 per cent. This industry is carried on extensively in the city of Dallas, and its products find a market in nearly all the states and territories west of the Mississippi River.<sup>5</sup>

There were 9 establishments engaged in the manufacture of malt liquors in 1900, with 585 wage-earners, and products valued at \$2,689,606. In 1890 there were 7 establishments, 401 wage-earners, and products valued at \$1,702,087. The increase in the value of products during the decade was \$987,519, or 58 per cent. There was no malt produced in the breweries of Texas during the census year, these establishments being dependent on outside sources for this most important material.

There were 99 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 1,343 wage-earners, and products valued at \$2,682,426. In 1890 there were 59 establishments, 782 wage-earners, and products valued at \$1,874,059. The increase in the value of products during the decade was \$808,367, or 43.1 per cent.

There were 76 establishments engaged in the manufacture of planing mill products in 1900, with 657 wage-earners, and products valued at \$1,605,297. In 1890 there were 62 establishments, 949 wage-earners, and products valued at \$2,700,941. The decrease in the value of products during the decade was \$1,095,644, or 40.6 per cent.

There were 171 establishments engaged in the manufacture of clay products in 1900, with 1,859 wage-earners, and products valued at \$1,212,266. In 1890 there were 143 establishments, 2,072 wage-earners, and products valued at \$1,311,270. The decrease in the value of products during the decade was \$99,004, or 7.6 per cent.

#### URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of Dallas, Fort Worth, Galveston, Houston, and San Antonio, as returned at the censuses of 1890 and 1900, with the percentages of increase.

<sup>5</sup> Annual Report of the Dallas Commercial Club, 1899, page 22.



TABLE 4.—COMPARATIVE SUMMARY, DALLAS, FORT WORTH, GALVESTON, HOUSTON, AND SAN ANTONIO, 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	12,289	\$90,493,882	48,153	\$20,552,355	\$6,144,924	\$67,102,769	\$119,414,982
Per cent of increase.....	1890	5,268	46,815,181	34,794	15,148,495	3,594,940	30,152,308	70,433,551
		183.3	93.2	38.4	35.7	70.9	85.6	69.5
Dallas.....	1900	373	6,897,015	3,756	1,852,485	665,954	6,270,870	11,480,499
Per cent of increase.....	1890	312	5,250,118	3,554	2,015,369	595,257	4,354,769	9,054,766
		19.6	81.4	5.7	8.1	11.9	44.0	26.8
Fort Worth.....	1900	209	2,668,045	1,449	845,477	392,377	3,348,550	5,832,804
Per cent of increase.....	1890	316	3,194,032	2,368	1,618,073	286,452	3,435,446	6,826,083
		133.9	106.5	138.8	147.7	137.0	12.5	121.9
Galveston.....	1900	295	6,073,845	2,058	981,827	477,229	2,618,995	5,016,360
Per cent of increase.....	1890	190	5,122,612	1,679	962,093	405,270	3,253,088	5,724,545
		55.3	18.6	22.6	2.1	17.8	119.5	12.4
Houston.....	1900	509	6,955,350	4,588	2,400,250	668,426	5,792,571	10,611,575
Per cent of increase.....	1890	210	3,609,434	2,711	1,353,628	318,114	3,638,205	6,832,943
		142.4	98.2	69.2	78.0	111.9	59.2	55.7
San Antonio.....	1900	312	4,252,197	3,073	1,755,008	654,389	3,284,524	6,821,797
Per cent of increase.....	1890	309	3,004,425	2,022	1,216,936	494,744	2,387,984	5,623,612
		1.0	41.6	52.0	44.2	32.3	87.5	21.3
Total for 5 cities.....	1900	1,698	26,846,452	14,924	7,844,047	2,853,325	21,315,511	39,293,035
Per cent of increase.....	1890	1,337	20,080,621	12,334	7,166,099	2,094,837	17,069,492	34,061,949
		27.0	33.7	21.0	9.5	86.2	24.9	15.4
Per cent of 5 cities to total for state.....	1900	13.8	29.7	31.0	38.2	46.4	31.8	32.9
	1890	25.4	42.9	35.4	47.3	58.8	47.2	48.4

<sup>1</sup> Decrease.

It appears from Table 4 that there has been an increase during the past decade in the combined manufactures of these 5 cities. The number of establishments increased from 1,337 to 1,698, or 27 per cent; the average number of wage-earners from 12,334 to 14,924, or 21 per cent; and the value of products from \$34,061,949 to \$39,293,035, or 15.4 per cent. The percentage of increase in each of these particulars was smaller in these 5 cities than in the state as a whole. Fort Worth shows a decrease in each of these particulars, and Galveston a decrease in the value of products. Houston shows the greatest growth, the value of products having increased from \$6,832,943 in 1890 to \$10,641,575 in 1900, or 55.7 per cent. In Dallas, the leading manufacturing city, the number of establish-

ments increased from 312 to 373, or 19.6 per cent; the number of wage-earners from 3,554 to 3,756, or 5.7 per cent; and the value of products from \$9,054,766 to \$11,480,499, or 26.8 per cent. The number of establishments, number of wage-earners, and value of products, in this city in 1900, constituted 3, 7.8, and 9.6 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 30 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.

	Num- ber of estab- lish- ments.	Capital.	Propri- etors and firm mem- bers.	WAGE-EARNERS.		Miscella- neous 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 .....	12,289	\$80,433,882	14,074	48,153	\$20,552,355	\$6,144,924	\$67,102,769	\$119,414,982	-----	100.0	8,048,710	-----	100.0
Total for urban manufactures.....	3,448	49,593,595	3,598	26,916	13,384,086	4,458,268	40,397,960	70,862,826	-----	59.3	891,299	-----	12.8
Austin .....	279	825,293	298	967	471,818	162,199	896,750	1,921,853	10	1.6	23,258	6	0.7
Beaumont .....	51	8,113,766	48	954	439,078	71,167	1,184,094	2,014,501	9	1.7	9,427	11	0.3
Belton .....	53	309,003	58	189	74,462	16,963	279,922	467,504	22	0.4	3,700	23	0.1
Brownsville .....	86	96,905	37	63	17,646	3,478	58,292	108,680	30	0.1	6,305	18	0.2
Bryan .....	37	182,870	43	120	42,387	18,160	142,811	306,362	26	0.3	3,589	24	0.1
Calvert .....	29	150,778	24	101	25,208	14,718	236,767	527,005	20	0.4	3,822	27	0.1
Cleburne .....	75	469,325	75	807	406,011	22,573	593,060	1,202,797	15	1.0	7,493	15	0.2
Corpus Christi .....	39	75,770	40	80	32,210	5,541	73,157	165,589	29	0.1	4,703	20	0.2
Corsicana .....	118	929,030	189	503	262,292	54,812	1,362,281	2,147,116	8	1.8	9,313	12	0.3
Cuero .....	37	187,598	39	86	35,113	9,080	118,191	224,709	28	0.2	3,422	26	0.1
Dallas .....	373	6,897,015	386	3,756	1,852,485	665,954	6,270,870	11,480,499	1	9.6	42,638	3	1.4
Denison .....	87	1,212,851	90	779	402,070	49,287	468,848	1,017,618	16	0.8	11,807	9	0.4
El Paso .....	136	4,550,604	140	2,171	1,036,517	523,095	6,371,489	8,846,045	3	7.4	15,906	8	0.5
Fort Worth .....	209	2,668,045	234	1,449	845,477	392,877	3,348,550	5,332,804	5	4.5	26,688	5	0.9
Gainesville .....	76	733,711	77	338	146,588	55,399	807,208	1,251,291	14	1.0	7,874	13	0.3
Galveston .....	295	6,073,845	315	2,058	981,827	477,229	2,618,996	5,016,360	6	4.2	37,789	4	1.2
Greenville .....	65	528,607	77	240	101,247	47,440	299,069	603,050	19	0.5	6,860	17	0.2
Hearne .....	11	149,918	10	101	27,489	23,797	152,652	252,218	27	0.2	2,129	30	0.1
Houston .....	509	6,955,350	557	4,588	2,409,250	663,426	5,792,571	10,641,575	2	8.9	44,633	2	1.5
Jefferson .....	21	895,904	14	335	94,367	16,006	292,638	408,462	21	0.4	2,850	29	0.1
Marlin .....	40	232,792	40	93	37,042	13,063	182,550	390,570	25	0.3	3,092	28	0.1
Marshall .....	46	892,316	45	638	383,315	51,300	674,750	1,283,847	13	1.1	7,855	14	0.3
Orange .....	18	3,321,868	16	764	366,005	50,055	924,243	1,666,208	12	1.4	8,835	22	0.1
San Antonio .....	312	4,252,197	295	3,073	1,755,008	654,339	3,284,524	6,821,797	4	5.7	53,321	1	1.8
Sherman .....	78	905,742	79	452	198,582	87,946	1,175,693	1,721,280	11	1.4	10,243	10	0.3
Taylor .....	72	184,735	68	207	92,958	21,862	206,917	429,955	28	0.4	4,211	21	0.1
Temple .....	74	700,369	88	328	158,882	36,403	569,580	908,726	17	0.8	7,065	16	0.2
Waco .....	166	2,096,741	164	1,227	469,129	222,681	1,477,642	2,698,907	7	2.3	20,686	7	0.7
Weatherford .....	83	309,550	79	173	72,671	20,177	363,467	609,415	18	0.5	4,786	19	0.2
Yoakum .....	28	201,097	23	271	156,782	8,741	165,378	371,003	24	0.3	3,499	25	0.1
Total for state exclusive of urban manufactures.....	8,841	40,840,287	10,476	21,237	7,168,269	1,686,656	26,704,809	48,552,156	-----	40.7	2,657,411	-----	37.2
Per cent of urban manufac- tures to total for state .....	28.1	54.8	25.6	55.9	65.1	72.6	60.2	59.3	-----	-----	12.8	-----	-----

Of the 12,289 establishments in the state, 3,448, or 28.1 per cent, were located in these 30 cities and towns. They furnished employment to 26,916 wage-earners, or 55.9 per cent of the total number, and the value of their products, \$70,862,826, formed 59.3 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 Austin, Dallas, Fort Worth, Galveston, Houston, San Antonio, and Waco by specified industries.

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

## STATISTICS OF MANUFACTURES.

TABLE 6.—MANUFACTURES

[No manufactures reported from the following counties: Andrews, Aransas, Bailey, Borden, Buchel, Castro, Cochran, Concho, Crane, Dallam, Dawson, Farmer, Randall, Roberts, Schleicher, Sherman, Sterling, Swisher,

COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State.....	12,289	\$90,433,882	\$12,830,367	\$15,154,506	\$34,198,170	\$28,200,839	14,074	3,560	\$3,229,075	48,153	\$20,552,355
2 Anderson.....	104	700,252	52,974	155,110	279,239	272,029	124	86	35,973	615	284,747
3 Angelina.....	38	1,150,386	398,793	60,210	324,308	367,075	33	29	24,220	619	203,845
4 Archer.....	4	8,802		195	1,365	2,242	4			1	220
5 Atascosa.....	14	16,485	435	2,955	12,195	900	16	1	25	12	1,640
6 Austin.....	133	223,646	12,415	42,840	119,270	49,121	154	2	1,243	118	86,979
7 Bandera.....	9	15,203	1,783	8,980	7,950	1,490	12			4	804
8 Bastrop.....	87	201,360	26,955	66,680	118,525	49,200	95	8	5,749	285	106,395
9 Baylor.....	11	82,620	2,100	4,730	14,655	11,135	12	3	1,770	11	4,920
10 Bee.....	5	10,990		2,240	7,100	1,150	7			15	2,111
11 Bell.....	239	1,250,560	90,157	271,240	671,298	217,865	282	44	40,819	643	268,127
12 Bexar.....	333	4,888,318	865,698	808,294	1,223,660	1,990,666	321	215	249,575	3,152	1,778,366
13 Blanco.....	15	26,445	1,470	4,425	17,570	2,980	17	1	70	8	1,254
14 Bosque.....	85	272,888	56,025	63,163	112,171	41,529	105	4	3,233	114	43,423
15 Bowie.....	81	832,351	192,942	93,445	332,019	213,945	88	27	27,005	500	158,901
16 Brazoria.....	87	311,237	5,990	53,855	218,982	32,460	44	7	4,928	113	29,770
17 Brazos.....	71	282,929	11,650	39,150	169,828	62,301	84	12	8,020	220	71,780
18 Briscoe.....	8	1,565	140	325	400	700	4				
19 Brown.....	92	373,420	22,235	76,310	168,350	106,525	94	13	12,058	207	91,483
20 Burleson.....	59	262,944	9,837	92,919	93,838	66,350	61	20	10,103	178	59,958
21 Burnet.....	33	58,614	8,495	7,625	38,845	8,649	50			26	6,587
22 Caldwell.....	85	191,047	12,261	30,285	112,999	35,500	103	7	2,329	105	81,954
23 Calhoun.....	10	7,542	205	375	4,180	2,242	11			4	1,879
24 Callahan.....	92	69,807	6,145	17,425	32,743	13,494	87	5	367	53	23,350
25 Cameron.....	36	96,905	6,680	15,544	42,382	32,299	87	9	2,007	63	17,646
26 Camp.....	51	161,591	16,644	36,500	81,885	26,972	57	6	2,739	118	40,353
27 Cass.....	70	344,786	71,375	24,795	128,255	120,361	88	11	5,348	253	81,562
28 Chambers.....	10	43,952	11,805	2,415	10,441	16,291	15			15	5,615
29 Cherokee.....	89	422,114	68,537	44,600	177,688	131,289	114	11	3,420	317	97,842
30 Childress.....	12	13,792	525	1,675	7,715	3,877	13	1	25	8	3,116
31 Clay.....	32	91,560	3,405	13,970	36,025	38,160	38	1	300	34	11,585
32 Coke.....	9	10,607	219	1,385	7,325	1,678	13			8	552
33 Coleman.....	43	108,343	7,680	20,435	49,327	30,901	54	1	400	82	8,761
34 Collin.....	190	331,035	74,390	175,910	337,025	244,310	223	22	13,884	344	118,120
35 Colorado.....	75	193,245	8,642	34,025	126,940	28,688	88	4	250	101	28,951
36 Comal.....	60	307,137	15,050	67,820	123,235	101,532	68	11	9,063	134	49,224
37 Comanche.....	68	160,321	12,921	30,065	87,415	29,920	83	3	1,240	62	13,831
38 Cooke.....	118	809,559	64,629	205,619	335,280	204,031	129	36	32,075	363	152,078
39 Coryell.....	100	202,727	9,670	31,735	118,452	42,870	114	5	1,173	75	22,190
40 Crockett.....	7	10,215	1,050	2,350	8,625	8,190	11			7	3,744
41 Dallas.....	489	7,178,301	436,321	699,562	1,934,622	3,907,796	535	547	549,071	3,891	1,884,424
42 Delta.....	68	203,403	23,770	35,535	129,975	19,123	90	7	3,321	97	27,683
43 Denton.....	129	642,697	47,105	133,410	256,717	155,465	155	28	15,262	224	82,609
44 Dewitt.....	94	494,195	39,980	95,713	260,369	98,133	108	29	24,631	391	198,944
45 Dimmit.....	3	2,955	225	450	780	1,550	3			1	365
46 Duval.....	7	10,120	1,420	950	2,925	4,825	6	1	520	4	1,324
47 Eastland.....	58	262,002	13,625	46,910	128,829	72,698	74	12	7,295	70	23,177
48 Edwards.....	6	20,849	733	10,650	8,550	9,916	5	4	4,200	31	10,887
49 Ellis.....	203	300,532	50,340	149,159	466,796	134,287	270	52	30,532	401	133,259
50 El Paso.....	143	4,604,231	254,066	1,345,281	1,869,888	1,134,996	160	39	120,850	2,243	1,056,637
51 Erath.....	78	618,423	31,845	211,700	281,798	93,080	81	24	19,257	273	81,536
52 Falls.....	122	500,630	85,850	93,428	198,545	122,807	141	9	4,132	206	65,404
53 Fannin.....	204	761,311	55,250	126,618	410,388	169,125	230	30	20,844	355	113,071
54 Fayette.....	174	592,740	33,927	116,525	361,486	80,802	199	18	11,403	235	106,242
55 Fisher.....	6	7,210	410	1,800	4,400	600	6			2	710
56 Floyd.....	6	4,320	220	500	2,045	1,555	9			1	168
57 Foard.....	4	4,575	275	625	2,975	700	5			1	160
58 Fort Bend.....	57	1,098,603	10,920	163,665	750,025	173,998	50	13	10,271	173	58,561
59 Franklin.....	27	69,444	10,375	6,040	35,449	17,580	40	5	330	47	12,901
60 Freestone.....	48	115,832	2,362	20,625	85,425	7,420	52	4	2,000	53	11,378
61 Frio.....	5	11,625	700	2,000	8,800	25	6			5	602
62 Galveston.....	305	6,089,840	986,638	1,292,132	2,021,922	1,789,148	321	159	186,096	2,075	988,680
63 Gillespie.....	41	46,080	4,260	20,880	50,640	20,300	45	2	1,320	27	7,504
64 Goliad.....	16	54,820	4,145	11,415	31,060	7,000	21	3	844	26	6,907
65 Gonzales.....	107	290,122	12,008	65,105	170,554	42,100	126	6	4,555	168	50,499
66 Grayson.....	301	2,562,172	212,078	561,035	1,238,988	550,076	313	142	112,693	1,430	662,188
67 Gregg.....	48	333,050	27,697	51,400	126,605	127,348	55	22	17,150	200	92,642
68 Grimes.....	63	194,505	13,405	44,570	115,975	20,555	74	11	6,778	111	27,485
69 Guadalupe.....	67	284,617	17,597	69,530	162,200	44,990	82	6	4,538	106	30,304
70 Hale.....	8	5,630	130	550	3,425	1,525	9			2	575
71 Hall.....	10	9,145	295	780	2,595	5,475	14			3	750
72 Hamilton.....	56	189,652	11,267	38,310	82,535	57,540	70	2	1,278	58	17,433
73 Hardeman.....	17	465,383	82,542	167,123	120,249	105,469	14	20	26,823	116	32,918
74 Hardin.....	11	546,061	116,282	32,025	112,585	285,169	8	25	28,480	352	154,769
75 Harris.....	550	8,069,432	895,825	1,597,185	2,633,300	2,943,172	607	346	386,163	5,061	2,646,386
76 Harrison.....	100	1,033,031	67,068	187,140	378,837	419,991	110	38	32,676	741	414,180

## BY COUNTIES: 1900.

Foley, Gaines, Garza, Glasscock, Gray, Hansford, Hockley, Hutchinson, Irion, King, Lamb, Loving, Lubbock, Lynn, McMullen, Martin, Moore, Ochiltree, Oldham, Terry, Upton, Wheeler, Winkler, Yoakum, Zapata, Zavalla.]

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
44,199	\$19,609,793	2,913	\$787,868	1,041	\$145,259	\$6,144,924	\$785,554	\$525,565	\$4,525,880	\$308,425	\$67,102,769	\$64,612,488	\$2,400,281	\$119,414,982	1
597 617	280,956 208,905	11 1	2,760 860	7 1	1,031 180	33,174 10,247	7,044 843	6,735 2,070	18,925 16,334	470	520,010 789,800	505,848 785,642	14,667 1,153	1,081,025 1,306,907	2 8
11 113	1,560 85,799	2	780	1 8	220 400	290 5,799	58 1,548	24 863	163 3,253	45	1,848 95,676	1,818 89,887	80 4,289	4,647 285,887	4 6
8 280 9 9 592	708 105,195 4,670 1,777 255,686	4 1 44	1,080 120 8,553	1 2 5 7	96 120 250 214 888	414 15,587 1,381 586 60,350	90 4,601 268 12 11,285	114 2,026 240 49 9,201	18,925 8,960 873 525 88,194	270 2,380 200 1,700	9,461 134,588 85,570 4,890 953,636	9,215 121,719 34,775 4,146 916,471	246 12,860 795 244 87,165	16,240 349,481 57,418 12,621 1,640,778	7 8 9 10 11
2,860 8 101 485 110	1,710,240 1,251 40,593 151,081 29,280	262 9 4 2	58,881 2,350 1,228 400	80 4 11 1	4,245 480 1,642 90	665,889 233 5,557 22,834 9,587	54,620 36 979 1,392 423	34,177 139 1,311 8,839 2,793	573,911 58 8,067 17,258 6,371	3,181 200 850	3,299,836 5,151 123,471 618,896 162,852	8,186,158 4,608 118,825 499,461 151,878	118,683 543 4,646 13,985 10,474	6,897,629 16,388 258,404 914,650 289,631	12 13 14 15 16
210	69,718	6	1,510	4	557	23,010	8,355	1,714	12,941	5,000	169,298	161,715	7,583	407,856	17
191 177 23	87,206 69,368 5,942	14 2	8,950 430	2 1	812 90 215	21,752 10,894 2,038	4,810 1,438 674	8,515 2,541 358	13,427 6,915 1,011		327,985 862,847 28,935	315,721 839,007 27,428	12,264 23,750 1,512	617,681 1,000,889 66,640	18 19 20
99 8 46 58 107	30,694 1,229 21,518 17,290 37,977	1 6	660 1,760	5 1 5 3	700 150 72 356 376	9,050 929 3,635 3,478 4,086	8,242 423 547 685 680	1,375 21 598 883 1,280	4,133 185 2,390 1,379 2,120	800 581	134,137 2,583 48,484 58,292 182,986	126,385 2,458 42,621 55,817 129,227	7,802 145 963 2,475 3,759	207,592 11,215 103,709 108,680 248,219	21 22 23 24 25
248 15 269 5 29	80,794 5,615 85,952 2,716 10,715	1 89 1 3	90 10,690 180 600	4 10 2 2	678 1,200 220 270	7,018 710 10,608 1,151 6,106	140 72 1,811 578 912	1,717 75 1,762 98 932	5,161 568 6,640 455 4,262		266,487 27,005 275,051 8,806 143,188	266,487 38,900 263,198 8,490 189,573	1,614 105 11,861 316 3,610	485,801 51,279 580,478 21,178 195,208	27 28 29 30 31
2 27 808 93 124	812 7,451 107,689 27,922 47,922	1 5 88 4 5	240 1,300 9,975 620 970	5 5 5 4 5	456 400 332	938 8,107 9,092 10,731	168 779 2,333 1,800	51 574 4,587 963 2,919	719 1,754 30,605 6,806 6,022		2,119 29,887 1,120,791 87,899 627,071	1,862 28,258 1,097,484 81,508 623,285	257 1,629 23,307 6,391 3,836	9,720 74,800 1,643,083 205,891 956,170	32 33 34 35 36
54 837 70 7 3,077	11,841 145,829 21,518 8,744 1,606,719	5 22 8 620	1,510 6,055 441	8 4 2	480 494 231	4,817 57,309 5,711 182 675,605	551 7,257 1,862 36 99,413	950 7,371 955 43 40,175	2,816 42,006 2,894 103 458,829		42,519 828,904 99,976 4,048 77,188	38,871 794,650 94,088 3,793 6,274,100	3,648 29,251 5,885 255 145,607	118,863 1,299,221 214,552 15,362 11,789,053	37 38 39 40 41
91 188 876 1 4	25,963 72,609 196,003 365 1,824	5 36 11	1,600 9,240 2,417	1 5 4	120 760 524	6,706 47,123 23,258 84 499	1,798 5,626 8,072 14 210	1,200 3,498 3,854 20 242	3,698 87,999 11,182 60 942	10 160 10 20	115,875 610,118 807,081 626 6,452	111,138 582,723 286,361 556 6,383	4,737 27,390 20,720 70 69	261,421 934,633 681,808 2,900 14,509	42 43 44 45 46
69 30 373 2,181 265	20,949 10,637 127,204 1,038,637 79,091	6 28 54 8	1,780 5,214 16,096 2,445	4 1 5 13	448 250 851 1,954	12,304 1,411 64,746 524,697 34,305	796 90 13,868 80,238 3,081	2,068 122 5,011 10,471 3,398	9,415 1,199 48,587 483,988 27,831		83,540 12,293 592,187 439,888 27,831	78,759 1,715 560,491 40,088 3,793	4,781 10,678 81,696 871,962 27,408	188,775 41,292 1,072,655 8,910,501 419,185	47 48 49 50 51
198 937 273 2 1	62,583 109,126 108,708 710 168	7 14 8	2,532 3,395 1,820	8 4 4	309 550 624	20,288 47,701 32,995 486 102	3,128 9,251 4,892 118	3,016 5,904 8,563 37 31	14,094 32,446 19,306 81 71	55 100 5,234	271,229 459,381 270,586 2,045 4,068	259,551 435,921 249,554 1,827 3,861	11,678 23,400 20,732 218 202	566,559 927,121 646,208 6,515 8,145	52 53 54 55 56
1 171 46 55 5	160 57,110 12,784 11,062 602	2	780	5 1 3	674 120 310	102 44,447 1,625 4,904 580	60 1,012 208 140 25	28 3,204 838 787 105	19 40,231 984 3,977 450		1,018 193,012 87,179 66,827 2,333	853 149,013 86,179 62,158 2,078	165 44,599 1,000 4,169 255	8,462 363,710 81,999 126,187 8,353	57 58 59 60 61
1,606 23 24 166 1,238	886,977 6,014 6,882 50,079 620,920	336 1 2 1 144	79,006 250 525 800 85,188	133 8 2 1 50	22,697 340 600 120 6,080	478,030 3,416 3,219 11,621 156,305	66,871 513 297 3,279 25,249	48,888 878 297 965 15,816	348,884 2,925 2,922 6,877 113,860	18,387 205	2,627,546 84,089 33,776 151,366 2,068,056	2,580,823 81,724 30,418 135,450 2,000,241	90,723 2,865 3,358 15,916 67,815	5,041,982 133,881 63,906 345,865 3,938,903	62 63 64 65 66
250 105 102 1 1	90,952 26,635 29,575 875 472	4 2	1,690 280	6 2	950 266	11,581 6,121 15,678 413 492	1,850 1,049 3,649 264 251	3,011 1,694 1,077 25 192	6,670 3,378 10,952 124 192		287,282 129,752 181,578 5,898 4,860	284,522 123,141 170,462 5,654 4,650	2,760 6,611 11,121 244 210	502,895 241,495 108,786 12,406 12,180	67 68 69 70 71
53 108 847 4,740 715	16,678 80,818 153,629 2,465,286 408,860	3 8 2 247 16	560 2,100 540 69,639 4,185	2 3 74 10	195 600 10,511 1,185	5,844 53,522 15,853 736,265 56,605	1,728 1,159 280 82,909 5,199	1,399 2,556 1,060 45,098 8,253	2,067 49,807 14,513 597,421 42,058	50	231,755 183,617 325,998 7,711,908 741,132	226,571 160,846 325,781 7,492,329 719,758	5,184 22,771 262 219,579 21,374	312,804 393,524 609,268 18,085,491 1,439,066	72 73 74 75 76

TABLE 6.—MANUFACTURES

	COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Num-ber.	Salaries.	Total.	
											Average num-ber.	Wages.
77	Haskell	4	\$6,149	\$25	\$900	\$4,920	\$604	4			3	\$553
78	Hays	40	170,672	11,645	33,735	97,472	22,820	40	16	\$3,839	64	21,130
79	Henderson	52	161,660	23,828	24,495	86,765	27,072	66	4	1,850	181	41,494
80	Hidalgo	6	12,561	85	970	7,331	4,175	7			12	2,680
81	Hill	190	743,868	48,777	148,590	484,099	112,402	216	40	27,691	800	91,744
82	Hood	49	124,920	9,880	22,130	68,795	24,165	61	2	945	45	12,966
83	Hopkins	108	295,049	12,815	44,210	134,316	53,708	130	13	4,720	202	57,027
84	Houston	69	180,321	38,116	21,540	88,850	31,815	85	3	2,980	123	33,866
85	Howard	11	108,986	8,675	9,825	84,094	61,892	12	3	4,400	74	68,460
86	Hunt	208	1,002,693	70,502	151,968	449,768	330,455	240	40	24,883	434	155,051
87	Jack-	29	95,430	5,580	17,800	40,640	81,460	32	2	1,880	23	8,824
88	Jackson	19	40,702	2,095	8,145	27,265	8,107	27	1	25	11	2,886
89	Jasper	11	19,602	8,977	2,700	6,675	1,250	12			11	3,645
90	Jefferson	60	3,151,971	1,160,084	191,288	457,558	1,343,091	69	69	86,788	998	456,754
91	Johnson	157	741,874	45,480	126,515	441,142	128,237	175	59	51,706	896	429,864
92	Jones	25	71,850	1,960	15,555	88,795	15,600	81	2	760	18	6,514
93	Karnes	38	81,508	8,705	14,498	52,882	10,923	39	3	1,470	84	8,989
94	Kaufman	120	612,956	54,898	112,128	299,144	147,291	132	26	17,492	400	169,420
95	Kendall	24	60,727	5,155	13,025	16,860	15,587	24			10	2,754
96	Kerr	15	34,565	4,040	9,495	14,275	6,755	16			10	4,185
97	Kimble	8	11,915	3,100	2,095	5,370	1,850	9			2	550
98	Kinney	8	4,610	250	1,100	2,310	950	8			2	820
99	Lamar	179	1,008,152	149,647	190,694	470,755	192,056	208	101	39,040	606	203,604
100	Lampasas	60	75,727	6,502	11,500	38,315	19,410	65	5	2,439	35	12,057
101	Lasalle	4	3,030	100	250	1,680	1,000	5			2	672
102	Lavaca	98	275,540	18,688	43,420	165,293	48,139	118	8	3,100	184	48,890
103	Leo	66	182,211	14,848	23,009	78,044	16,815	75	6	1,140	60	18,537
104	Leon	55	75,873	6,789	14,180	50,800	4,604	62	3	270	46	8,105
105	Liberty	13	124,450	42,741	9,015	66,795	15,899	18	3	1,680	96	33,753
106	Limestone	97	271,161	17,140	43,830	184,680	26,011	125	8	8,874	121	86,164
107	Live Oak	8	2,100	25	100	1,925	50	3			2	256
108	Llano	82	87,441	1,429	4,715	18,955	12,842	40	1	750	82	11,321
109	McCulloch	14	20,126	1,186	3,340	11,575	4,075	13	1	70	9	2,065
110	McLennan	302	2,493,624	208,758	425,021	1,016,253	843,489	842	126	114,291	1,881	509,541
111	Madison	26	53,295	1,950	5,080	19,325	11,940	80			23	4,166
112	Marion	44	553,705	143,611	134,755	149,869	125,470	43	34	24,760	478	134,803
113	Mason	29	50,072	2,870	10,689	29,835	6,678	41	2	165	11	2,720
114	Matagorda	21	85,198	1,088	7,540	22,700	8,875	28	2	70	22	5,032
115	Maverick	6	40,180	4,000	10,000	18,860	7,270	5			14	6,678
116	Medina	18	46,905	3,730	10,925	24,500	6,750	23	2	235	14	2,113
117	Menard	6	18,475	900	3,500	4,525	9,550	6			8	987
118	Midland	12	21,895	2,800	3,800	5,270	5,025	13	1	400	15	5,280
119	Milam	122	424,234	15,961	61,819	245,460	100,994	139	10	6,910	193	56,439
120	Mills	11	22,945	930	3,395	15,380	8,240	17			10	2,278
121	Mitchell	19	55,445	2,370	17,650	24,725	10,700	22	2	2,600	86	10,752
122	Montague	96	275,665	14,995	51,795	164,955	43,820	126	5	2,911	107	32,404
123	Montgomery	54	538,925	142,031	90,865	232,209	133,320	71	27	18,890	626	179,999
124	Morris	87	90,438	5,890	11,070	52,677	20,801	66	5	1,432	70	20,829
125	Motley	4	1,605	215	875	555	460	4			1	800
126	Nacogdoches	101	353,819	46,860	85,862	145,372	76,225	120	14	11,700	814	89,532
127	Navarro	224	1,244,280	49,320	145,041	640,943	408,971	208	70	52,846	655	298,287
128	Newton	15	2,815,933	959,533	122,386	799,135	936,984	13	46	47,200	595	284,175
129	Nueces	48	84,070	7,660	10,140	32,643	84,227	44	3	2,520	84	33,270
130	Orange	28	8,918,010	1,898,237	167,615	334,096	1,468,062	21	37	49,055	894	412,323
131	Palo Pinto	47	96,810	14,165	18,550	38,450	25,145	45	8	1,560	56	17,409
132	Panola	80	471,225	75,870	47,935	203,435	143,985	115	18	7,250	387	141,212
133	Parker	135	536,309	32,003	110,726	256,419	137,161	140	25	16,567	319	114,829
134	Polk	36	1,040,692	476,507	43,036	254,773	266,371	47	14	14,700	336	120,521
135	Potter	5	28,190	400	1,750	5,800	20,240	4	2	1,300	17	10,627
136	Presidio	6	10,825	850	1,925	5,050	3,500	7			3	1,080
137	Rains	13	25,720	2,385	4,155	18,255	925	15			15	3,150
138	Red River	186	824,645	44,157	51,525	178,797	55,168	160	11	6,179	207	50,012
139	Reeves	5	19,182	1,850	5,650	6,870	4,812	4	1	1,116	16	8,835
140	Robertson	108	481,176	15,052	69,551	311,239	85,284	99	10	10,028	256	64,774
141	Rockwall	49	89,970	5,210	21,850	52,942	9,968	63	1	215	50	18,578
142	Runnels	23	53,620	2,905	10,265	29,817	11,293	26	1	300	24	9,644
143	Rusk	107	225,694	21,368	26,515	141,465	86,351	132	7	2,300	143	33,136
144	Sabine	16	15,810	1,290	2,725	10,990	4,835	17	1	28	17	2,843
145	San Augustine	22	83,038	10,256	3,650	16,745	2,385	35			20	4,951
146	San Jacinto	86	150,281	41,080	9,215	67,961	81,975	87	6	4,898	178	61,402
147	San Saba	25	46,400	2,149	6,130	25,100	13,111	31			15	4,479
148	Scurry	6	11,210	220	2,725	6,015	2,250	8			7	2,220
149	Shackelford	15	34,730	825	6,390	13,350	9,215	17	1	900	9	2,892
150	Shelby	84	268,553	72,127	22,895	102,811	70,720	112	6	5,300	170	59,621
151	Smith	183	480,612	22,474	75,434	218,938	163,766	154	88	33,624	590	278,265
152	Somervell	7	7,813	375	2,300	4,638	500	7			6	203
153	Starr	3	1,500	150	850	150	850	3			2	670
154	Stephens	18	24,920	790	4,265	15,895	3,970	24	1	32	8	1,664
155	Stonewall	4	4,050	30	930	8,150	490	5			2	272
156	Button	7	8,195	710	600	1,850	5,035	9			8	2,568

RY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
3	\$553					\$192	\$82	\$46	\$64		\$2,658	\$2,505	\$158	\$5,462	77
62	20,735			2	\$305	10,497	885	1,180	8,432		102,779	96,911	5,868	195,131	78
153	46,680	4	\$346	4	508	2,432	122	783	1,377	\$150	46,708	38,519	8,189	164,832	79
12	2,630					1,680		109	1,571		2,510	2,176	384	9,780	80
273	85,155	22	5,795	5	794	48,701	9,549	4,808	34,094	150	411,479	387,359	24,120	840,241	81
43	12,066	2	900			4,922	550	843	3,529		125,507	121,493	4,134	188,285	82
181	52,012	14	3,425	7	690	19,889	3,658	3,233	11,748	1,250	165,910	154,612	12,293	370,130	83
123	38,366					3,849		671	2,034		103,874	99,518	4,356	198,280	84
71	52,060	2	400	1	100	12,511	878	6,024	6,109		76,302	71,150	5,212	155,446	85
410	149,432	19	5,083	5	536	60,810	11,328	6,095	41,200	2,137	750,017	722,819	27,198	1,827,750	86
25	8,124	2	450	1	250	5,883	317	644	4,422		73,420	71,562	1,853	109,997	87
9	2,396			2	440	992	257	244	491		7,600	7,071	533	26,165	88
11	8,645					542	87	115	340		11,996	11,932	64	21,617	89
937	452,179	8	4,090	3	485	72,515	7,990	15,406	48,900	240	1,221,049	1,210,076	10,974	2,104,367	90
870	422,637	19	6,373	7	854	34,720	7,858	4,049	19,038	3,775	745,063	718,216	26,847	1,508,126	91
17	6,154	1	360			2,535	202	304	2,029		105,091	102,053	3,033	146,040	92
31	8,549			3	440	4,650	879	617	2,054	200	16,346	14,030	2,315	61,048	93
355	166,945	2	720	13	1,755	25,537	4,822	3,536	16,979	200	444,149	415,606	28,543	846,585	94
9	2,614	1	140			1,265	340	283	642		26,879	26,226	653	48,758	95
8	3,885			2	250	1,480	448	355	633		56,713	56,423	290	79,597	96
1	350	1	200			273	84	93	146		8,553	8,422	131	8,329	97
532	190,328	60	11,770	14	1,606	485	303	96	81		2,773	2,723	50	8,850	98
23	10,427	4	1,200	3	430	50,844	6,361	6,253	37,545	185	632,022	593,250	38,772	1,226,559	99
2	672					8,950	1,990	640	1,299	80	54,934	52,829	2,105	121,547	100
123	48,072	2	470	3	348	266	182	15	119		636	606	40	3,287	101
57	18,112	2	210	1	215	16,315	1,582	1,699	13,034		180,073	168,890	11,183	371,997	102
45	8,045			1	60	6,523	2,740	827	2,956		90,162	26,671	3,491	112,993	103
93	33,453	1	200	2	100	2,066	877	425	1,264		20,542	17,829	2,713	73,801	104
118	34,783	3	1,381			2,521	193	180	2,148		82,637	82,486	151	141,003	105
1	206			1	50	22,906	1,036	2,582	18,518	170	168,520	168,068	10,452	349,064	106
30	10,889	2	432			172	66	15	91		744	646	98	3,119	107
9	2,065					2,503	1,132	221	1,150		13,183	12,496	687	52,530	108
1,061	445,455	260	56,647	60	7,439	288	65	60	193		4,069	3,519	550	14,217	109
21	3,926			2	240	239,167	37,052	19,222	172,774	10,109	1,709,366	1,631,406	77,960	3,128,554	110
467	132,212	6	1,250	5	1,346	731	142	218	874		11,504	10,157	1,347	39,101	111
11	2,720					18,027	971	2,736	13,257	1,063	395,331	348,621	46,710	631,538	112
21	4,332			1	200	1,774	736	320	718		28,393	21,872	1,521	50,250	113
13	6,580			1	96	1,592	338	299	905		16,043	16,102	641	36,830	114
13	1,948			1	165	1,577	272	159	1,146		4,023	2,773	1,255	20,210	115
3	937	1	150			1,082	235	338	459		6,451	5,614	837	22,380	116
18	5,030	1	150	1	100	486	120	161	205		8,065	2,960	105	11,498	117
190	55,456	2	740	1	243	518	60	187	271		9,520	9,188	332	20,596	118
10	2,278					17,272	4,531	2,758	9,983		236,685	221,758	14,927	496,518	119
27	9,092	7	700	1	60	780	120	192	468		5,352	4,684	648	19,996	120
89	28,961	14	2,895	4	548	4,800	1,151	378	2,771		22,836	20,056	2,330	63,102	121
522	179,311	1	360	3	328	11,109	2,379	2,780	5,950		169,077	160,958	8,124	342,150	122
69	20,589	1	240			17,334	596	2,782	13,931	25	453,804	452,070	834	817,037	123
1	800					1,705	336	359	1,010		37,991	35,914	2,077	92,556	124
291	84,169	14	4,643	9	720	14	10	4	4		489	489	50	2,800	125
597	284,003	41	12,011	17	2,273	8,820	2,141	1,658	4,951	75	291,268	277,158	14,110	513,067	126
592	283,725	1	200	2	250	67,915	13,342	6,373	39,700	3,500	1,521,153	1,468,953	57,200	2,578,180	127
70	31,165	7	1,405	7	700	68,327	30	12,052	56,245		795,121	794,066	155	1,508,893	128
884	409,599	4	1,284	6	1,440	5,711	1,787	517	3,407		74,377	71,203	3,174	169,816	129
42	14,409	5	1,665	9	1,335	69,072	1,594	14,005	53,383		1,158,260	1,151,398	1,862	2,037,813	130
382	140,352	1	160	4	700	6,412	2,469	671	3,010	262	47,798	44,730	3,063	128,194	131
304	110,807	9	2,962	6	560	11,530	945	1,772	8,822		465,270	463,791	1,479	776,013	132
336	120,521					84,177	5,019	2,794	17,444	8,920	410,588	378,972	31,616	744,771	133
16	10,475			1	52	17,576	275	3,528	13,773		588,233	537,539	744	859,657	134
8	1,080					1,553	652	92	809		14,503	14,237	271	37,225	135
14	2,900			1	250	233	50	55	178		3,179	3,040	139	9,215	136
201	50,081	4	635	2	196	825	60	114	151		6,049	5,438	611	20,013	137
16	8,835					12,113	3,607	2,463	6,043		206,193	197,672	8,521	416,979	138
254	64,242	2	532			910	72	250	588		15,765	14,195	1,570	30,085	139
47	12,888	2	600	1	90	44,880	2,946	3,299	38,644		418,301	394,611	23,690	872,540	140
21	9,124	3	522			8,826	939	517	2,136	234	74,691	71,235	3,456	139,491	141
140	36,418	6	1,495	2	223	1,860	938	398	524		28,385	27,084	1,381	60,516	142
16	2,698			1	150	5,619	1,979	673	2,917	50	81,265	76,993	4,272	111,781	143
20	4,951					500	83	78	839		4,553	4,508	237	15,261	144
173	61,402					609	140	132	237		8,109	5,715	894	21,986	145
14	4,419			1	60	2,411	15	610	1,736		126,451	124,433	1,013	226,510	146
6	2,170			1	50	2,598	1,304	233	1,056		40,909	39,600	1,309	63,417	147
7	2,472	1	800	1	120	533	103	59	313	100	2,913	2,573	345	10,095	148
164	53,296	5	1,255	1	70	1,384	533	165	657	24	28,525	27,329	696	42,333	149
559	267,374	20	4,557	11	1,335	5,088	705	909	3,474		172,374	169,412	2,962	323,225	150
6	908					39,796	4,764	3,468	15,564	16,000	453,620	434,429	19,191	913,639	151
2	670					28		23			1,267	934	233	6,571	152
7	1,546	1	120			144	72	17	55		1,150	980	170	2,320	153
2	272					929	135	134	610		10,155	9,496	659		

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.
157	Tarrant	290	\$2,922,090	\$215,804	\$573,964	\$923,808	\$1,208,514	830	143	\$151,597	1,551	\$872,896
158	Taylor	89	185,908	16,793	46,090	95,950	27,165	52	2	1,292	66	22,244
159	Throckmorton	8	4,770	460	925	2,700	685	9			3	790
160	Titus	43	110,885	10,865	28,105	72,400	13,515	55	5	4,700	95	28,829
161	Tom Green	28	94,520	9,601	16,090	34,429	34,400	80	2	1,800	57	29,433
162	Travis	369	1,084,165	57,753	124,446	470,690	381,276	408	65	51,090	1,081	500,465
163	Trinity	35	698,401	236,337	48,485	169,469	244,110	39	19	21,325	374	150,439
164	Tyler	34	1,394,076	602,872	94,669	409,074	287,461	39	38	32,635	699	254,248
165	Upshur	68	426,686	102,923	31,240	196,060	95,863	85	8	10,520	298	86,233
166	Uvalde	7	19,240	3,630	2,520	5,850	7,240	9			8	3,250
167	Valverde	7	9,176	1,500	1,254	4,073	2,349	10			11	3,137
168	Van Zandt	83	424,538	58,199	120,331	155,120	90,883	95	11	16,060	267	81,250
169	Victoria	80	200,001	15,766	37,230	106,279	40,736	81	13	6,280	144	48,367
170	Walker	42	111,452	18,007	14,190	58,385	20,270	45	2	353	71	20,170
171	Waller	38	82,610	7,965	12,900	44,295	17,450	34	3	1,800	40	10,115
172	Washington	138	599,547	32,625	101,467	346,704	118,751	155	85	23,502	328	116,005
173	Webb	28	211,783	14,518	22,000	79,678	27,892	27	9	7,524	395	109,810
174	Wharton	29	83,180	3,615	15,975	57,850	5,740	34	5	1,200	75	12,634
175	Wichita	22	92,614	2,700	19,250	37,700	32,904	23	2	2,500	35	14,986
176	Wilbarger	30	89,289	1,840	19,100	28,655	39,694	37	2	1,200	23	8,011
177	Williamson	233	648,254	39,080	123,515	367,173	113,536	265	23	17,309	541	165,280
178	Wilson	19	170,783	22,006	79,643	49,196	19,938	23	6	6,300	145	30,077
179	Wise	99	229,744	5,485	46,190	136,272	41,797	128	0	1,410	138	27,430
180	Wood	83	301,051	67,911	53,435	158,408	41,302	105	11	6,680	203	63,808
181	Young	24	62,971	4,483	16,255	27,825	14,408	37	2	1,000	20	7,207
182	All other counties <sup>1</sup>	88	89,801	2,317	6,317	19,707	11,460	37	3	2,800	40	25,411

<sup>1</sup> Includes establishments distributed as follows: Armstrong, 2; Brewster, 1; Carson, 1; Collingsworth, 1; Cottle, 2; Crosby, 1; Deaf Smith, 1; Dickens, 1; Donley, 2; Ector, 2; Hartley, 2; Hemphill, 2; Jeff Davis, 1; Kent, 1; Knox, 2; Lipscomb, 2; Nolan, 2; Pecos, 2; Refugio, 2; San Patricio, 1; Ward, 2.

TABLE 7.—MANUFACTURES BY

1	All industries	12,289	\$90,433,882	\$12,880,367	\$15,154,506	\$34,193,170	\$28,200,839	14,074	3,560	\$3,229,075	43,153	\$20,552,353
2	Agricultural implements	5	57,635	1,225	10,650	12,353	33,407	4	5	7,950	28	10,419
3	Artificial limbs	3	3,990			2,520	1,170	3			1	1,000
4	Awnings, tents, and sails	11	53,468	2,300	4,000	9,960	87,200	10	2	2,700	59	20,968
5	Baking and yeast powders	5	170,028	21,400	10,800	11,900	131,928	4	32	41,000	70	16,272
6	Bicycle and tricycle repairing	66	70,005	460	520	22,880	46,205	78	1	600	70	29,769
7	Blacksmithing and wheelwrighting	2,100	1,681,481	276,682	293,724	391,950	719,125	2,474	6	2,890	1,101	460,076
8	Boots and shoes, custom work and repairing	340	162,357	14,475	22,505	54,721	70,656	339	1	390	131	61,825
9	Bottling	8	5,350	500	500	2,500	1,850	8			6	1,750
10	Boxes, wooden packing	9	70,252	1,150	3,500	24,727	35,875	10	6	4,420	74	21,782
11	Bread and other bakery products	178	442,610	69,925	93,338	140,615	138,732	187	26	16,141	457	220,028
12	Brick and tile	143	1,293,271	141,747	453,207	876,550	321,767	161	64	51,491	1,579	419,573
13	Bridges	5	6,817			3,650	3,167	5	4	3,900	40	16,910
14	Brooms and brushes	54	54,477	6,365	10,730	9,952	27,430	62	8	2,139	78	29,977
15	Carpentering	397	555,908	59,785	47,443	108,406	340,292	467	6	6,635	1,740	1,035,035
16	Carriages and wagons	78	416,977	76,078	101,818	62,585	176,496	99	9	7,480	810	168,415
17	Cars and general shop construction and repairs by steam railroad companies	56	3,730,792	437,873	897,579	1,104,433	1,290,857		263	292,398	6,033	4,004,769
18	Cars and general shop construction and repairs by street railroad companies	3	12,400	6,500	3,800	1,300	1,240		2	1,700	12	7,520
19	Charcoal	13	28,145	5,175	14,565	1,900	6,445	12			58	19,990
20	Cheese, butter, and condensed milk, factory product	12	41,070	4,970	15,500	15,800	5,900	9	8	1,800	18	8,570
21	Clothing, men's, custom work and repairing	276	366,551	16,740	20,520	43,806	285,985	305	23	15,858	659	351,983
22	Clothing, men's, factory product	11	514,371	30,090	42,000	66,968	375,408	8	36	33,990	532	130,602
23	Clothing, women's, dressmaking	81	79,394	8,580	3,680	10,341	50,788	85	12	9,300	321	70,977
24	Coffee and spice, roasting and grinding	8	19,090	500	250	3,225	11,015	11	1	900	14	7,890
25	Coffins, burial cases, and undertakers' goods	8	71,994	15,250	15,962	4,643	35,239	2	3	2,655	14	5,390
26	Confectionery	69	382,934	46,300	37,100	95,819	203,715	77	67	45,396	406	163,847
27	Cooperage	23	178,150	26,000	13,319	50,760	87,571	24	11	14,280	190	66,253
28	Cotton, compressing	45	3,355,732	563,950	930,693	1,702,542	158,547	2	154	120,616	923	321,375
29	Cotton, ginning <sup>1</sup>	3,222	8,232,101	393,407	1,651,763	7,067,493	166,433	4,059	295	33,808	4,205	643,157
30	Cotton goods	4	2,227,134	64,869	873,234	922,931	860,090		21	31,388	984	253,630
31	Dyeing and cleaning	56	66,132	23,770	13,502	13,407	10,453	63	45	7,640	92	27,682
32	Electrical construction and repairs	13	36,645	2,000	2,300	6,220	26,125	17	5	2,810	60	31,230
33	Flavoring extracts	8	20,245			1,070	23,175	2	3	5,200	19	7,910
34	Flouring and grist mill products	289	4,273,490	233,704	994,377	1,452,868	1,542,541	329	185	146,638	705	386,908
35	Food preparations	7	34,160	5,500	5,200	15,270	5,190	12	1	720	19	9,126
36	Foundry and machine shop products	99	2,809,524	233,712	322,430	680,907	1,520,475	104	118	184,916	1,343	723,553

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



## BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,450	\$844,874	82	\$25,184	19	\$2,888	\$896,816	\$44,202	\$24,068	\$307,290	\$21,261	\$3,568,712	\$3,458,897	\$109,815	\$5,669,886	157
62	21,835			4	399	7,052	912	958	6,082	150	106,588	102,031	4,657	208,058	166
2	680			1	100	213	86	89	188		2,252	2,074	178	6,761	159
94	28,729			1	100	8,893	407	883	2,853	250	66,842	62,350	4,492	146,298	160
54	29,133			3	800	4,508	1,856	601	2,051		39,209	34,661	4,548	119,244	161
968	471,747	91	26,115	22	2,603	187,936	31,499	8,679	52,195	95,568	961,751	925,028	36,723	2,175,391	162
868	149,520	1	180	5	730	11,585	730	3,511	7,294		568,682	568,099	583	858,030	163
582	251,463	2	880	15	2,455	16,121	84	2,527	18,510		666,105	665,738	427	1,117,417	164
294	85,153	2	900	2	180	20,093	577	929	18,557		261,910	260,168	1,742	587,585	165
8	8,250					1,348	328	127	898		6,664	6,412	252	19,098	166
10	2,962			1	175	1,277	490	130	657		3,588	2,426	1,157	13,000	167
252	76,235	14	4,970	1	75	8,216	1,612	2,785	3,819		174,822	182,060	42,762	869,151	168
133	46,071	8	2,010	3	316	20,263	4,980	1,187	14,081	5	108,916	100,455	8,461	268,046	169
61	19,140	4	780	6	250	4,884	1,923	644	2,717		87,961	85,775	2,186	90,745	170
89	18,905	5	1,850	2	800	3,143	1,017	485	1,691		70,626	68,442	2,184	181,124	171
810	110,661	17	5,780	1	164	27,041	5,534	8,784	17,773		481,074	405,796	25,278	788,258	172
884	168,051	1	240	10	1,019	6,884	2,003	2,082	2,340	450	149,176	138,740	10,436	360,884	173
78	12,184	1	250	1	200	8,327	1,137	863	1,827		16,833	12,817	4,016	66,402	174
32	14,416	2	270	1	300	6,625	1,298	438	4,889		184,840	181,054	3,786	241,808	175
17	7,309	3	850	3	352	8,365	1,070	909	1,386		62,375	60,794	1,581	97,108	176
520	159,601	19	5,885	2	204	46,954	12,462	3,331	21,417	9,754	511,563	489,393	22,460	1,062,337	177
145	80,077					9,128	180	671	8,207	120	29,119	12,454	16,665	113,956	178
120	24,855	11	1,772	7	803	8,237	1,688	1,716	4,883		168,071	161,147	6,924	297,542	179
194	62,460			9	1,848	7,814	824	1,153	5,327	10	209,187	204,795	4,392	378,302	180
19	7,171			1	96	1,562	812	403	847		45,992	44,502	1,490	81,053	181
44	25,094	1	230	1	87	1,987	1,120	298	509	60	25,642	23,993	1,649	71,564	182

## SPECIFIED INDUSTRIES: 1900.

44,199	\$19,669,783	2,918	\$787,868	1,041	\$145,259	\$6,144,924	\$785,554	\$525,565	\$4,525,380	\$308,425	\$67,102,769	\$64,612,488	\$2,490,281	\$110,414,082	1
28	10,419					23,928	120	418	3,190	20,200	66,572	65,017	1,555	117,707	2
1	1,000					540	410	100	80		2,354	2,315	39	13,000	3
20	11,516	89	9,452			4,866	2,568	833	1,465		93,170	92,990	171	158,367	4
87	11,580	80	4,880	3	812	8,224	1,480	800	6,944		154,950	152,962	1,988	299,765	5
61	28,521			9	1,278	13,475	9,477	422	3,576		46,529	45,517	1,012	141,378	6
1,080	487,102			21	2,974	92,759	57,980	11,566	22,409	804	793,186	700,988	92,198	2,822,468	7
127	60,292	2	723	2	810	31,637	26,836	1,414	4,562	325	159,693	158,566	1,067	445,264	8
5	1,680			1	120	746	420	10	815		2,873	2,825	48	7,250	9
62	19,662	4	900	8	1,220	8,446	916	875	2,155		61,488	60,464	1,024	124,049	10
896	205,162	80	9,800	81	5,066	54,582	29,610	3,950	21,022		685,314	667,989	27,325	1,802,615	11
1,582	418,505			47	6,068	47,014	1,715	5,677	38,872	750	234,517	26,789	207,778	1,020,205	12
40	16,940					11,674	440	12	1,196	10,025	80,150	80,150		125,790	13
69	28,176	5	851	4	950	8,230	1,306	841	1,533	50	78,589	78,169	420	150,427	14
1,783	1,085,288	1	120	6	580	161,831	12,529	3,142	19,474	116,186	2,585,963	2,584,316	1,617	4,614,199	15
809	168,815			1	100	22,089	7,604	4,021	10,014	400	197,030	187,568	9,462	555,574	16
6,638	4,004,769					138,888		45,194	77,644	16,000	3,878,586	3,790,560	87,076	8,814,691	17
12	7,520					680	200	275	205		10,288	10,189	49	20,138	18
68	19,990					227	86	6		135	25,687	25,687		58,923	19
18	8,870					1,648	870	282	546		51,464	49,703	1,761	81,017	20
577	328,180	75	22,800	7	1,053	83,641	58,668	2,896	20,977	1,100	474,715	469,129	5,586	1,298,367	21
55	24,161	445	102,283	32	4,208	81,843	4,500	8,401	23,442		346,943	343,025	3,918	616,584	22
14	7,880	813	70,155	8	822	12,614	8,861	583	2,670	500	94,987	94,519	463	240,824	23
14	5,890					2,302	1,230	284	838		43,719	43,016	703	63,646	24
255	129,278	187	32,115	14	2,454	39,411	13,911	2,413	13,087		585,376	528,677	11,699	981,604	25
189	66,063			1	200	6,403	1,947	962	3,494		201,706	197,681	4,025	851,908	26
919	320,145	3	500	6	780	186,292	8,869	29,090	136,046	12,287	148,965	76,495	67,470	1,081,212	27
4,292	647,923			8	234	282,644	41,442	51,973	189,221	8	1,573,911	1,328,468	245,448	5,886,923	28
497	164,825	302	64,997	185	24,808	113,156		6,105	107,051		641,341	602,775	38,566	1,199,993	29
45	19,809	39	7,029	8	844	12,144	7,420	422	4,202	100	14,793	11,459	3,394	115,500	30
59	81,154			1	76	4,534	2,755	105	1,614		38,171	37,408	768	97,200	31
17	7,260	2	650			8,350	1,110	214	7,025		35,467	35,467		64,640	32
705	398,908					243,390	4,663	82,774	205,953		10,372,387	10,218,903	153,484	12,893,730	33
17	8,580	2	596			1,833	804	270	759		31,850	29,685	1,655	51,770	34
1,839	727,851			4	702	94,490	11,348	18,778	68,279	1,090	1,181,042	1,182,369	48,678	2,682,426	35

TABLE 7.—MANUFACTURES BY

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.	
37 Fruits and vegetables, canning and preserving.	10	\$53,852	\$1,575	\$14,310	\$23,100	\$14,867	8	5	\$3,430	111	\$26,823	
38 Furniture, cabinetmaking, repairing, and upholstering.	101	111,262	16,375	26,775	23,377	44,235	111	3	2,330	88	42,546	
39 Furniture, factory product.	8	145,823	13,734	24,805	22,167	84,617	5	14	12,414	152	60,861	
40 Gas, illuminating and heating.	11	1,763,697	206,704	127,794	1,311,890	117,209	41	41	46,037	71	46,166	
41 Hairwork.	3	2,765			255	2,510	3			1	360	
42 Hand stamps.	7	16,400			9,100	7,300	8			7	2,880	
43 Hats and caps, not including fur hats and wool hats.	8	7,155			1,700	5,455	5	3	1,440	7	8,900	
44 Ice, manufactured.	77	2,563,888	267,495	545,848	1,581,367	169,678	35	171	124,671	618	305,282	
45 Ironwork, architectural and ornamental.	6	109,156	44,750	10,600	27,705	26,100	5	7	6,480	89	42,835	
46 Jewelry.	6	17,877			7,120	10,757	8	2	780	21	16,302	
47 Leather, tanned, curried, and finished.	11	24,763	240	2,826	8,016	18,681	12	2	1,300	20	9,216	
48 Lime and cement.	10	483,605	96,192	172,773	101,929	117,711	7	24	30,945	227	74,790	
49 Liquors, distilled.	5	24,426	3,125	8,050	5,400	12,851	5			6	1,955	
50 Liquors, malt.	9	4,439,012	295,635	1,156,821	1,099,179	1,887,377	2	98	130,619	585	354,682	
51 Lock and gun smithing.	62	45,931	4,610	3,850	21,443	16,028	69	1	720	22	11,048	
52 Looking-glass and picture frames.	21	23,235			2,485	20,750	19	2	510	18	8,050	
53 Lumber and timber products.	687	19,161,265	7,287,341	1,020,955	4,562,733	6,290,236	845	338	381,363	7,924	3,094,917	
54 Lumber, planing mill products, including sash, doors, and blinds.	76	932,860	98,721	126,434	233,572	469,033	93	62	51,993	657	382,288	
55 Marble and stone work.	22	116,515	11,625	15,975	19,925	68,990	26	15	10,700	132	119,822	
56 Masonry, brick and stone.	96	184,037	22,260	16,940	32,624	112,213	115	7	7,800	822	602,406	
57 Mattresses and spring beds.	30	165,122	15,216	20,620	40,400	83,886	30	8	5,421	154	51,863	
58 Millinery, custom work.	421	682,951	61,528	103,955	30,619	486,849	415	55	31,040	737	218,240	
59 Mineral and soda waters.	139	500,909	49,025	48,275	230,231	172,778	137	30	25,400	234	89,822	
60 Monuments and tombstones.	66	277,289	35,125	11,452	23,902	206,810	83	43	20,440	203	140,002	
61 Oil, cottonseed and cake.	103	7,986,962	457,027	2,088,043	4,119,546	1,322,346	15	376	375,013	2,478	330,766	
62 Optical goods.	8	30,775			7,400	23,375	8	6	5,580	11	5,534	
63 Painting, house, sign, etc.	166	157,584	22,390	16,800	25,830	92,534	195	13	12,012	458	272,486	
64 Paints.	6	14,976			2,925	12,050	10			13	6,600	
65 Patent medicines and compounds.	30	179,059	11,750	19,900	12,316	135,093	25	22	26,770	81	29,943	
66 Paving and paving materials.	10	50,425		1,900	29,000	19,525	9	10	8,220	209	96,435	
67 Perfumery and cosmetics.	4	5,085			1,830	3,255	5			4	4,200	
68 Photography.	217	216,738	10,225	16,840	121,556	68,147	234	2	943	115	50,600	
69 Pickles, preserves, and sauces.	7	47,498	500	8,800	4,105	39,093	6	7	5,900	21	6,453	
70 Plastering and stucco work.	24	11,015	650	700	2,185	7,480	27			31	56,935	
71 Plumbing, and gas and steam fitting.	87	361,555	12,700	18,900	40,024	289,931	99	37	30,058	352	220,619	
72 Pottery, terra cotta, and fire-clay products.	28	203,395	36,216	95,743	29,956	41,480	81	7	6,900	280	77,423	
73 Printing and publishing, book and job.	113	827,095	14,750	9,475	523,059	279,811	144	67	59,029	713	332,151	
74 Printing and publishing, newspapers and periodicals.	654	2,479,073	110,033	266,930	1,364,615	787,590	775	263	275,910	1,329	916,029	
75 Roofing and roofing materials.	22	104,761	33,800	9,006	14,710	47,245	24	6	5,920	111	49,650	
76 Saddlery and harness.	359	2,757,700	200,137	344,951	132,784	2,029,823	407	108	92,410	1,093	504,221	
77 Salt.	3	327,036	54,493	115,876	80,000	76,667		11	17,070	191	66,679	
78 Sausage.	3	8,750			6,650	2,100	3			7	2,800	
79 Sewing machine repairing.	8	1,540			600	940	7			2	1,100	
80 Ship and boat building, wooden.	7	10,980	270	2,850	2,335	5,475	10			33	19,815	
81 Shirts.	7	13,575			3,775	9,800	10	3	4,500	67	19,638	
82 Show cases.	4	30,679			3,950	26,729	4	2	300	34	13,017	
83 Slaughtering and meat packing, wholesale.	12	1,232,267	53,871	244,323	222,952	711,115	6	49	61,797	414	170,606	
84 Soap and candles.	7	71,944	19,920	9,250	11,668	31,106	6	5	1,565	33	13,394	
85 Sugar and molasses, refining.	44	1,015,658	3,405	118,390	720,345	178,013	46	11	7,445	169	42,314	
86 Tinsmithing, coppersmithing, and sheet-iron working.	344	690,276	88,914	118,668	165,365	317,829	392	23	22,090	616	321,063	
87 Tobacco, cigars and cigarettes.	79	227,175	18,540	16,575	11,660	180,400	94	22	17,590	303	133,333	
88 Trunks and valises.	5	50,975	2,500	2,500	9,475	36,500	4	5	4,720	43	21,272	
89 Watch, clock, and jewelry repairing.	298	306,921	28,375	29,603	103,347	140,593	311	5	2,577	153	102,433	
90 Wirework, including wire rope and cable.	5	22,050	550	600	1,674	19,226	4	3	400	6	2,523	
91 Wood, preserving.	4	418,291	43,637	133,089	99,250	137,315		19	16,640	204	88,823	
92 Wood, turned and carved.	13	31,565	1,400	4,680	19,065	6,330	15	1	600	23	10,406	
93 Woolen goods.	3	285,663	18,250	54,150	112,792	100,471	1	10	15,763	134	40,674	
94 All other industries <sup>1</sup> .	74	5,809,763	199,781	1,536,836	2,214,610	1,858,536	73	113	142,069	1,321	617,163	

<sup>1</sup> Embraces ammunition, 1; bookbinding and blank book making, 1; boot and shoe uppers, 2; boxes, cigar, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 1; carpets, rug, 2; carpets, wood, 1; carriage and wagon materials, 2; china decorating, 1; clothing, women's, factory product, 1; combs, 1; cordage and twine, 1; dentists' materials, 1; electrical apparatus and supplies, 1; electroplating, 2; engraving and die sinking, 2; engraving, steel, including plate printing, 2; fancy articles, not elsewhere specified, 1; fertilizers, 2; fireworks, 1; fish, canning and preserving, 1; furs, dressed, 2; gas machines and meters, 2; glass, cutting, staining, and ornamenting, 1; hosiery and knit goods, 1; iron and steel, 2; ivory and bone work, 1; jute and jute goods, 1; lamps and reflectors, 1; lard, refined, 1; lead,

## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
22	\$9,157	63	\$14,832	26	\$2,839	\$1,245	\$140	\$124	\$681		\$85,275	\$84,268	\$1,007	\$151,104	37
84	41,451	8	970	1	125	13,837	9,498	1,102	3,112	\$125	81,341	80,384	957	222,937	38
139	57,942	3	819	10	2,100	10,089	1,880	748	7,511		77,632	74,737	2,875	185,283	39
71	46,166					56,080	150	17,190	38,740		94,180	85,212	8,968	379,613	40
		1	800			659	504	45	50		1,538	1,490	48	3,750	41
6	2,620	1	260			2,545	1,644	66	835		6,800	6,685	115	24,105	42
4	2,912	2	532	1	156	1,518	1,156	60	302		7,614	7,508	46	20,432	43
607	303,682	1	500	10	1,100	132,435	5,209	22,834	104,892		320,381	116,170	204,211	1,184,332	44
89	42,835					3,432	135	1,002	2,235		56,960	54,120	2,840	135,800	45
20	15,782	1	520			8,599	1,732	58	1,749	60	28,968	28,365	603	68,530	46
25	8,638	1	50	3	528	1,158	469	108	581		52,207	51,964	243	76,508	47
226	74,390	1	400			52,836	800	2,833	48,407	796	74,959	74,847	36,112	282,896	48
6	1,055					10,814		71	10,743		4,445	3,336	1,110	20,677	49
555	349,351	6	471	24	4,860	1,210,381	2,120	23,107	1,180,154		646,794	514,407	182,387	2,689,606	50
21	10,840	1	208			6,810	5,211	300	1,305		18,054	17,888	666	74,011	51
15	7,450			3	609	3,840	2,672	343	825		20,488	20,442	46	41,965	52
7,833	3,087,393	3	296	38	7,223	368,437	5,114	70,168	293,155		9,638,343	9,606,863	1,480	16,230,473	53
651	881,104			6	1,184	40,632	9,814	5,831	25,227	260	900,302	890,929	9,378	1,006,297	54
182	119,822					5,805	1,472	665	3,668		116,274	114,079	2,195	374,267	55
822	502,406					23,057	1,666	907	8,738	16,746	1,012,891	1,012,041	850	1,891,253	56
124	45,837	20	4,519	10	1,507	10,074	2,105	864	7,105		170,104	166,588	3,516	312,429	57
8	3,100	726	214,168	8	977	86,478	54,750	5,193	26,580		814,554	813,088	1,466	1,494,968	58
215	86,578	1	208	18	3,036	51,410	11,812	3,123	86,175	300	223,676	218,038	5,638	646,420	59
260	139,522			8	480	11,028	8,414	1,019	6,010	85	227,899	226,161	1,738	570,131	60
2,464	826,311	13	4,230	1	225	550,225	2,635	50,743	495,634	1,213	10,372,758	10,039,566	333,187	14,005,324	61
11	5,584					6,099	3,180	326	2,593		27,061	26,596	465	77,550	62
458	271,181	1	480	4	725	24,530	13,499	1,047	9,634	350	301,989	301,756	233	849,079	63
13	6,000					2,760	1,240	86	1,434		22,032	21,708	324	39,830	64
50	23,336	27	5,938	4	669	50,390	4,061	1,702	44,355	250	112,133	111,964	769	343,769	65
209	96,435					5,132	452	118	4,562		143,210	141,112	2,098	293,720	66
3	3,600	1	600			1,821	553	210	908	150	6,828	6,768	60	16,463	67
88	43,701	25	6,747	2	152	48,852	23,249	3,780	11,033	760	116,880	116,000	880	427,401	68
13	5,231	8	984	5	440	4,918	1,080	102	3,736		34,887	34,506	381	75,000	69
81	56,985					3,011	930	24	2,057		61,534	61,534		162,940	70
872	224,111	1	480	9	2,028	45,325	21,817	2,935	16,673	3,850	477,551	473,554	3,997	945,462	71
279	77,324			1	99	12,294	580	1,043	10,401	270	43,876	15,031	28,845	192,061	72
579	347,134	108	80,407	33	4,520	111,863	85,194	5,125	35,487	36,057	384,886	322,066	12,820	1,180,700	73
1,453	852,564	99	20,899	277	33,560	391,325	67,211	15,796	243,115	95,208	631,882	599,741	31,641	3,387,410	74
108	49,106	34	6,080	3	544	3,450	2,032	923	5,390	100	121,105	120,327	778	234,332	75
1,039	495,276			20	2,865	153,769	55,933	13,785	78,577	424	2,060,243	2,060,403	5,835	3,420,790	76
179	61,929	12	4,150			6,255		2,235	4,020		141,342	100,943	40,399	256,900	77
6	2,500	1	800			1,133	1,034	14	25		12,090	10,885	1,205	20,000	78
2	1,100					1,009	990	14	5		1,737	1,727	10	6,950	79
33	19,815					1,160	841	9		300	90,845	90,795	50	126,446	80
5	2,800	62	16,888			3,054	1,910	52	1,032		33,077	32,795	282	71,738	81
84	18,047					4,946	1,900	26	3,020		31,969	31,669	300	61,654	82
894	178,488	19	5,867	1	200	66,749	5,120	5,070	50,559		3,170,536	3,116,578	53,958	3,904,491	83
80	12,744	3	650			3,996	1,530	647	1,819		77,119	75,854	1,265	113,172	84
154	41,845	3	831	2	168	40,118		4,098	35,925	100	233,343	200,068	33,280	307,078	85
605	319,345			11	1,710	57,646	30,724	5,113	21,359	450	725,601	714,150	11,442	1,508,560	86
212	116,035	59	12,894	32	4,424	70,666	7,117	974	62,575		203,206	202,747	459	525,959	87
48	21,272					3,775	2,330	258	1,137		8,463	7,860	603	36,809	88
151	101,824	4	817	3	292	46,514	34,953	2,435	8,755	366	95,320	93,843	1,472	462,513	89
6	2,525					1,899	237	80	1,033	49	5,989	5,972	17	11,051	90
204	88,828					15,009		2,609	12,400		1,070,029	1,030,746	39,233	1,352,870	91
23	10,406					1,114	209	140	565	200	12,927	12,173	754	33,996	92
78	29,056	34	8,888	24	3,220	17,428		1,523	15,900		117,327	114,533	2,744	196,340	93
1,632	573,690	143	35,084	46	8,129	539,653	9,861	10,202	519,590		6,546,193	6,106,490	430,708	8,494,470	94

smelting and refining, 1; leather goods, 1; liquors, vinous, 2; lithographing and engraving, 1; mantels, slate, marble, and marbleized, 1; musical instruments and materials, not specified, 2; musical instruments, organs and materials, 1; oleomargarine, 1; paper and wood pulp, 2; paper hanging, 1; petroleum, refining, 1; photolithographing and photoengraving, 1; printing materials, 2; refrigerators, 1; rice, cleaning and polishing, 1; stationery goods, not elsewhere specified, 1; stencils and brands, 1; stereotyping and electrotyping, 1; taxidermy, 2; tools, not elsewhere specified, 1; typewriter repairing, 1; vinegar and cider, 2; washing machines and clothes wringers, 2; window shades, 2.

TABLE 8.—MANUFACTURES IN CITIES

## AUSTIN.

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 .....	279	\$825, 298	\$51, 088	\$84, 496	\$348, 340	\$346, 369	298	00	\$47, 590	967	\$471, 818
2	Blacksmithing and wheelwrighting .....	87	22, 496	7, 780	5, 857	4, 870	3, 989	43			89	15, 821
3	Boots and shoes, custom work and re- pairing.	15	8, 670	150	700	2, 085	785	14			5	2, 875
4	Bread and other bakery products .....	12	6, 670	425	1, 170	2, 525	2, 550	12			19	8, 257
5	Carpentering .....	34	25, 546	2, 465	2, 349	5, 337	15, 395	85			109	56, 091
6	Carriages and wagons .....	3	6, 554			1, 265	5, 289	4			12	5, 900
7	Clothing, men's, custom work and re- pairing.	15	8, 770			1, 940	6, 830	15			21	8, 673
8	Coffee and spice, roasting and grinding .....	5	5, 225	500	250	1, 375	3, 100	8			2	975
9	Confectionery .....	3	12, 750			10, 800	1, 950	2	1	480	10	3, 820
10	Flouring and grist mill products .....	3	3, 450	200	200	1, 000	2, 050	4			2	1, 170
11	Foundry and machine shop products .....	4	75, 265	1, 450	5, 950	23, 700	44, 165	5	10	3, 275	81	15, 550
12	Furniture, cabinetmaking, repairing, and upholstering.	9	9, 000	125	350	1, 905	6, 620	10			15	6, 415
13	Lock and gun smithing .....	5	2, 858	50	25	1, 668	1, 115	7	1	720	6	3, 490
14	Looking-glass and picture frames .....	3	1, 260			210	1, 050	1	1	150	3	1, 300
15	Masonry, brick and stone .....	9	14, 670	450	970	4, 015	9, 235	10			114	62, 105
16	Mattresses and spring beds .....	5	7, 484			5, 492	1, 992	5	1	700	14	3, 156
17	Millinery, custom work .....	7	16, 468	100	350	1, 202	14, 816	8	1	300	52	17, 958
18	Painting, house, sign, etc .....	11	1, 635	50	50	880	655	12			21	11, 412
19	Photography .....	6	15, 225	1, 000	425	7, 250	6, 550	6			5	2, 497
20	Plastering and stuccowork .....	5	1, 057	100	50	452	485	5			5	1, 625
21	Plumbing, and gas and steam fitting .....	7	19, 575			3, 400	16, 175	8	1	1, 000	20	10, 275
22	Printing and publishing, book and job .....	5	82, 200			63, 300	18, 900	9			94	60, 275
23	Printing and publishing, newspapers and periodicals.	15	74, 370	10, 348	900	30, 134	32, 993	11	17	12, 010	55	37, 850
24	Roofing and roofing materials .....	8	9, 200			3, 400	5, 800	8			20	8, 000
25	Tinsmithing, coppersmithing, and sheet-iron working.	5	4, 500			1, 875	2, 625	5			7	4, 704
26	Tobacco, cigars and cigarettes .....	4	4, 360	200	400	510	3, 250	4			4	2, 350
27	Watch, clock, and jewelry repairing .....	9	7, 810			3, 510	4, 300	8	1	240	10	6, 640
28	All other industries <sup>1</sup> .....	40	883, 195	25, 700	64, 500	159, 240	138, 755	44	26	28, 715	272	112, 634

<sup>1</sup> Embraces bicycle and tricycle repairing, 2; brick and tile, 1; bridges, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 2; clothing, men's, factory product, 1; cotton, compressing, 1; cotton, ginning, 1; dentists' materials, 1; dyeing and cleaning, 2; electrical construction and repairs, 1; food preparations, 1; fruits and vegetables, canning and preserving, 1; hairwork, 1; hand stamps, 1; ice, manufactured, 2; ironwork, architectural and ornamental, 1; lumber, planing mill products, including sash, doors, and blinds, 2; mantels, slate,

## DALLAS.

1 All industries .....	373	\$6, 897, 015	\$419, 074	\$845, 097	\$1, 757, 153	\$3, 875, 091	386	540	\$547, 271	3, 756	\$1, 852, 485
2 Awnings, tents, and sails .....	4	36, 405	2, 300	4, 000	8, 105	22, 000	3	2	2, 700	34	10, 820
3 Bicycle and tricycle repairing .....	4	5, 100			2, 200	2, 900	3			6	2, 350
4 Blacksmithing and wheelwrighting .....	40	83, 160	10, 500	3, 700	8, 680	10, 280	46			58	33, 180
5 Boots and shoes, custom work and re- pairing.	20	8, 405	1, 600	750	8, 750	2, 805	20			9	4, 190
6 Bread and other bakery products .....	7	26, 815	7, 000	5, 000	7, 440	7, 375	9			27	15, 278
7 Brooms and brushes .....	3	3, 415			1, 615	1, 800	6			18	5, 200
8 Carpentering .....	15	48, 400			5, 400	43, 000	18	1	2, 500	176	93, 638
9 Carriages and wagons .....	3	18, 150	5, 000	5, 550	1, 800	5, 800	3			19	13, 560
10 Clothing, men's, custom work and re- pairing.	17	42, 440			3, 240	39, 200	18	3	1, 768	81	57, 922
11 Clothing, women's, dressmaking .....	4	38, 885			1, 885	37, 000	3	9	5, 600	76	13, 600
12 Confectionery .....	4	11, 975			4, 725	7, 250	7	6	1, 820	17	6, 827
13 Dyeing and cleaning .....	3	18, 700	4, 400	12, 000	1, 700	600	4	1	800	9	4, 135
14 Electrical construction and repairs .....	3	4, 300			2, 300	2, 000	4			16	8, 090
15 Foundry and machine shop products .....	3	916, 064	25, 900	49, 776	67, 273	778, 112	6	26	85, 757	265	135, 900
16 Furniture, cabinetmaking, repairing, and upholstering.	5	1, 760			825	935	6			3	1, 560
17 Ice, manufactured .....	3	371, 000	27, 000	81, 500	247, 000	15, 500		52	26, 400	68	27, 700
18 Lock and gun smithing .....	4	3, 300			2, 050	1, 250	4			3	1, 928
19 Lumber, planing mill products, includ- ing sash, doors, and blinds.	4	60, 878	4, 900	7, 000	15, 478	33, 500	3	6	5, 648	84	58, 188
20 Marble and stone work .....	3	33, 850	3, 025	1, 125	10, 000	19, 700	3	4	6, 000	72	72, 000
21 Masonry, brick and stone .....	8	20, 475			12, 425	8, 050	12	1	900	116	99, 524
22 Millinery, custom work .....	5	20, 225			1, 725	18, 500	6	10	6, 750	32	12, 670
23 Mineral and soda waters .....	6	33, 700	2, 500	1, 500	5, 800	73, 900	5	14	13, 800	19	10, 656
24 Monuments and tombstones .....	3	24, 950	7, 000	250	700	17, 000	2	4	3, 300	15	8, 990
25 Painting, house, sign, etc .....	10	35, 250	8, 000	4, 200	4, 500	18, 550	10	3	4, 300	69	45, 190
26 Patent medicines and compounds .....	7	46, 825	8, 000	6, 500	2, 725	29, 600	6	7	9, 900	36	18, 280
27 Photography .....	7	11, 685		360	6, 800	4, 525	7			10	5, 292
28 Plumbing, and gas and steam fitting .....	11	38, 100	3, 500	3, 500	3, 300	27, 800	13	8	1, 520	44	27, 760
29 Printing and publishing, book and job.	20	207, 207			152, 047	55, 160	25	21	16, 080	145	78, 225
30 Printing and publishing, newspapers and periodicals.	22	383, 352	15, 000	60, 000	117, 770	190, 582	16	107	122, 196	139	119, 523
31 Roofing and roofing materials .....	4	18, 100	5, 000	1, 000	2, 100	5, 000	4			24	15, 420

BY SPECIFIED INDUSTRIES: 1900.

## AUSTIN.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
854	\$443,100	91	\$26,115	22	\$2,603	\$152,199	\$30,055	\$7,284	\$47,801	\$67,059	\$896,750	\$871,400	\$25,850	\$1,921,853	1
38	15,737			1	84	2,822	2,335	304	83	100	17,246	16,053	1,193	63,121	2
6	2,875					1,125	1,040	25	60		5,134	5,111	23	16,195	3
17	7,907			2	350	1,869	1,715	107	47		24,497	23,359	1,138	47,950	4
109	50,991					40,053	827	123	1,764	37,334	154,763	154,753		281,636	5
12	5,900					1,450	1,380	45	84		7,260	6,995	265	19,560	6
16	7,573	5	1,100			2,717	2,551	115	51		13,473	13,334	139	36,820	7
2	975					275	205	60	10		12,048	11,845	203	15,315	8
9	3,440	1	380			1,532	780	50	752		10,832	10,137	695	20,063	9
2	1,170					539	850	35	151		26,352	25,677	675	31,344	10
31	15,550					3,263	200	323	2,435	300	24,818	22,921	1,897	62,159	11
14	6,115	1	300			1,240	1,085	60	95		5,465	5,465		20,470	12
6	3,490					496	420	28	48		2,506	2,427	79	11,103	13
2	1,060			1	240	385	312	43	25		2,640	2,640		5,015	14
114	62,105					4,987	7	35	870	4,075	98,654	98,604	50	181,828	15
9	2,545	2	203	3	313	1,365	570	23	707		9,013	8,919	94	17,042	16
		52	17,958			1,791	1,495	175	121		39,430	39,430		67,649	17
21	11,412					557	535	14	8		11,662	11,662		35,236	18
3	2,150	1	275	1	72	1,249	849	157	243		4,883	4,883		16,107	19
5	1,625					224	216	2	6		3,550	3,550		8,035	20
20	10,275					5,762	1,231	246	1,385	2,900	33,019	32,827	192	71,675	21
89	58,525	5	1,750			6,006	2,476	640	2,855	35	29,864	28,566	1,258	115,880	22
47	36,662	3	482	5	706	27,131	2,139	470	12,233	12,239	12,657	11,777	880	105,530	23
20	8,000					772	480	255	37		20,900	20,700	200	36,635	24
7	4,704					863	660	51	157		10,225	10,045	180	19,553	25
4	2,350					1,873	170	17	1,186		4,457	4,457		11,426	26
9	6,340	1	300			1,353	1,133	144	21		4,877	4,835	42	20,033	27
243	163,524	20	3,272	9	833	40,986	4,839	3,717	22,354	10,026	306,545	290,393	16,147	583,813	28

marble, and marbleized, 1; marble and stone work, 2; mineral and soda waters, 1; monuments and tombstones, 2; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 1; oil, cottonseed and cake, 1; optical goods, 1; patent medicines and compounds, 2; photolithography and photoengraving, 1; saddlery and harness, 2; soap and candles, 1; trunks and valises, 1.

## DALLAS.

2,947	\$1,666,160	618	\$157,100	191	\$29,166	\$665,954	\$98,383	\$38,631	\$451,747	\$77,188	\$6,270,870	\$6,137,509	\$133,361	\$11,480,499	1
3	5,116	26	5,204			2,301	1,880	231	690		66,156	66,070	86	103,600	2
6	2,350					1,320	850	30	440		2,854	2,709	145	8,450	3
57	33,060			1	120	7,885	5,048	264	2,573		34,916	32,709	2,207	118,340	4
7	3,880			2	310	2,985	2,454	26	505		11,453	11,387	66	32,707	5
25	14,774	1	360	1	144	3,815	2,210	182	1,423		43,824	42,259	1,565	94,590	6
11	4,600			2	600	867	410	32	425		11,945	11,875	70	26,500	7
176	93,938					24,756	1,386	25	3,345	20,000	247,763	247,715	48	477,900	8
19	13,560					1,263	690	108	465		11,545	11,300	245	33,600	9
79	57,097	1	700	1	125	9,806	7,068	283	2,455		49,265	48,780	485	142,570	10
		72	18,000	4	600	3,700	2,420	250	1,030		55,150	55,150		85,500	11
11	5,622	6	1,205			2,727	2,090	75	562		11,473	10,915	558	30,300	12
7	3,770	2	365			2,110	900	160	1,050		1,670	1,325	345	14,500	13
16	8,090					1,370	720		650		8,970	8,495	475	23,000	14
265	135,900					24,950	2,016	2,194	20,740		316,030	312,751	3,279	672,720	15
3	1,560					1,027	672		855		4,090	4,090		11,100	16
63	27,700					14,511		3,411	11,100		47,275	15,875	31,400	149,800	17
2	1,720	1	203			1,001	690	9	305		2,123	2,027	99	7,200	18
84	58,188					6,006	1,680	523	3,303		81,739	80,900	839	176,435	19
72	72,000					2,108	120	73	1,910		44,825	43,225	1,600	196,000	20
116	99,524					2,659	360	114	2,185		141,635	141,535	100	330,000	21
16	9,872	32	12,670			9,144	5,965	6	3,173		58,800	58,800		115,500	22
15	8,090	1	208	2	576	10,891	2,041	350	8,500		57,580	56,535	1,045	130,200	23
63	44,950					740	370	180	190		18,750	18,750		43,000	24
23	11,060	13	2,220	1	240	6,441	3,234	237	2,970		50,243	50,225	18	137,800	25
						10,465	1,143	1,037	8,280		48,950	48,825	125	137,800	26
8	4,464	2	828			3,099	1,940	103	1,058		4,830	4,800	30	22,100	27
43	27,640					4,824	2,638	183	1,998		56,136	55,225	901	115,900	28
117	70,772	24	6,850	4	604	27,870	3,923	1,013	15,724	2,200	74,247	70,993	3,254	234,173	29
126	115,420	7	3,408	6	698	95,294	5,652	2,491	52,933	34,788	168,263	158,034	6,229	631,136	30
24	15,420					2,719	390	79	2,250		31,498	31,375	123	66,000	31

TABLE 8.—MANUFACTURES IN CITIES

## DALLAS—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.
32	Saddlery and harness -----	18	\$1,189,950	\$97,000	\$126,766	\$46,825	\$919,359	16	70	\$63,380	883	\$173,382
33	Shirts -----	3	5,600			2,600	3,000	3	3	4,500	36	7,938
34	Tinsmithing, coppersmithing, and sheet-iron working -----	10	54,855	9,739	4,800	10,735	29,581	11	4	7,200	48	29,420
35	Tobacco, cigars and cigarettes -----	9	20,550	275	200	2,275	17,800	15	11	4,750	76	26,342
36	Watch, clock, and jewelry repairing -----	19	20,920			9,175	11,745	22			27	20,142
37	All other industries <sup>1</sup> -----	62	3,037,269	171,435	465,620	980,182	1,420,032	47	172	199,702	1,501	589,061

<sup>1</sup> Embraces agricultural implements, 1; artificial limbs, 1; baking and yeast powders, 2; bookbinding and blank book making, 1; boot and shoe uppers, 1; bottling, 1; boxes, cigar, 1; boxes, fancy and paper, 1; boxes, wooden packing, 2; brick and tile, 2; cheese, butter, and condensed milk, factory product, 1; clothing, men's, factory product, 2; cooperage, 2; cotton goods, 1; electrical apparatus and supplies, 1; electroplating, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; flouring and grist mill products, 2; gas, illuminating and heating, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 1; hand stamps, 1; hats and caps, not including fur hats and wool hats, 1; ironwork, architectural and ornamental, 1; jewelry, 2; leather, tanned, curried, and finished, 1;

## FORT WORTH.

1	All industries.....	299	\$2,608,045	\$205,014	\$509,469	\$805,858	\$1,147,704	234	131	\$145,904	1,449	\$845,477
2	Bicycle and tricycle repairing.....	4	8,040			1,550	1,490	4			9	3,650
3	Blacksmithing and wheelwrighting.....	24	8,723	1,600	1,330	2,555	3,238	28			25	12,279
4	Boots and shoes, custom work and repairing.....	13	2,459		75	559	1,825	13			3	1,224
5	Bread and other bakery products.....	6	48,325	5,000	10,000	8,000	25,325	6	1	2,100	65	40,940
6	Carpentering.....	11	42,810	2,900	2,225	3,725	38,960	11			95	61,606
7	Carriages and wagons.....	6	78,475	19,000	32,500	3,125	18,850	6			84	19,656
8	Cars and general shop construction and repairs by steam railroad companies.....	4	121,188	11,908	49,585	28,957	80,741		18	10,583	289	142,220
9	Clothing, men's, custom work and repairing.....	8	12,515			1,690	10,825	9	2	780	23	10,686
10	Clothing, women's, dressmaking.....	5	3,566	1,600	900	794	272	5			23	5,841
11	Dyeing and cleaning.....	4	1,650			500	1,150	6				
12	Flouring and grist mill products.....	3	578,409	80,000	147,863	162,799	237,747	8	11	14,780	74	56,540
13	Foundry and machine shop products.....	4	89,469	14,500	11,786	31,083	32,100	7	4	3,960	69	35,348
14	Furniture, cabinetmaking, repairing, and upholstering.....	10	18,955			1,791	12,164	13	2	1,830	12	5,726
15	Ice, manufactured.....	3	155,500	16,000	46,000	79,500	14,000	1	7	11,400	49	29,800
16	Marble and stone work.....	3	25,600	2,000	10,500	4,550	8,600	4			13	15,368
17	Masonry, brick and stone.....	5	20,350	100	200	1,825	18,725	5			88	50,200
18	Millinery, custom work.....	5	8,475			375	8,100	9			13	4,410
19	Mineral and soda waters.....	3	18,800		1,800	9,000	8,000	3			14	8,612
20	Painting, house, sign, etc.....	6	14,585	1,045	8,500	1,425	8,615	10	1	1,200	86	21,997
21	Photography.....	6	8,205			4,625	3,580	6			6	2,830
22	Plumbing, and gas and steam fitting.....	8	39,325	3,000	3,000	1,750	31,575	9	2	1,800	38	21,665
23	Printing and publishing, book and job.....	7	60,793			33,140	27,653	7	11	10,339	50	23,993
24	Printing and publishing, newspapers and periodicals.....	4	37,525			80,100	7,425	14	2	3,000	45	33,384
25	Saddlery and harness.....	6	32,020			2,070	29,950	7	3	1,680	17	11,713
26	Tinsmithing, coppersmithing, and sheet-iron working.....	10	21,002	4,500	2,000	3,532	10,970	12	2	720	81	20,548
27	Tobacco, cigars and cigarettes.....	3	26,817			750	26,067	4			38	22,431
28	Watch, clock, and jewelry repairing.....	10	10,500			7,100	3,400	11			10	5,140
29	All other industries <sup>1</sup> .....	28	1,188,916	91,866	186,205	379,488	581,357	21	65	75,132	380	178,617

<sup>1</sup> Embraces brass castings and brass finishing, 1; confectionery, 1; cooperage, 2; furniture, factory product, 1; gas, illuminating and heating, 1; gas machines and meters, 1; hand stamps, 2; leather goods, 1; lime and cement, 1; liquors, malt, 1; looking-glass and picture frames, 2; lumber, planing mill products, including

## GALVESTON.

1	All industries.....	295	\$6,073,845	\$983,243	\$1,287,357	\$2,016,847	\$1,786,398	315	153	\$188,990	2,058	\$981,827
2	Bicycle and tricycle repairing.....	8	10,995		20	2,875	8,100	10			14	6,068
3	Blacksmithing and wheelwrighting.....	15	8,535	650	1,190	3,250	3,445	17			15	6,473
4	Boots and shoes, custom work and repairing.....	14	5,625		250	3,135	2,240	14			6	2,825
5	Bread and other bakery products.....	24	129,669	12,800	12,975	74,933	29,461	24	11	9,440	89	35,617
6	Carpentering.....	31	47,765	10,050	6,050	9,550	22,115	40	1	900	177	104,475
7	Carriages and wagons.....	5	38,425	11,000	12,500	5,400	9,525	6	4	4,400	32	20,820
8	Clothing, men's, custom work and repairing.....	23	22,687			3,935	18,752	27	2	750	60	34,271
9	Clothing, men's, factory product.....	3	33,800	3,000	12,000	4,300	14,500	3	1	1,000	55	14,013
10	Confectionery.....	6	19,177			8,110	11,067	8			25	8,305
11	Cooperage.....	3	1,785			475	1,310	4			7	2,340
12	Cotton, compressing.....	4	717,904	285,000	255,000	180,000	17,904		12	16,148	32	41,628
13	Flouring and grist mill products.....	4	732,207	65,300	132,324	154,336	329,687	6	9	11,040	69	34,131
14	Foundry and machine shop products.....	6	109,350	13,000	12,750	39,500	44,100	6	3	3,200	53	36,868
15	Lock and gun smithing.....	4	5,910	1,200	300	375	3,535	4			1	480
16	Lumber, planing mill products, including sash, doors, and blinds.....	6	144,232	40,500	22,560	25,506	55,666	4	2	2,460	54	42,637

BY SPECIFIED INDUSTRIES: 1900—Continued.

## DALLAS—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total:	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
372	\$171,182	10	\$2,080	1	\$120	\$37,488	\$9,021	\$7,870	\$20,507		\$684,678	\$682,242	\$2,436	\$1,076,700	32
48	29,420	36	7,938			1,662	1,020	32	610		14,129	13,985	144	34,000	33
						8,835	2,211	239	6,385		48,322	47,744	578	127,674	34
28	18,775	31	5,150	17	2,417	14,446	1,520	75	12,851		42,203	42,165	88	108,850	35
26	20,012			1	100	6,264	4,010	83	1,071	\$200	18,853	18,696	157	64,500	36
1,001	476,894	353	89,775	147	22,392	308,602	15,136	16,648	256,818	20,000	8,708,584	8,633,023	75,561	5,595,949	37

lime and cement, 1; liquors, malt, 1; lithographing and engraving, 1; looking-glass and picture frames, 1; mattresses and spring beds, 1; oil, cottonseed and cake, 2; optical goods, 2; paints, 2; paving and paving materials, 2; perfumery and cosmetics, 2; pickles, preserves, and sauces, 2; plastering and stuccowork, 2; printing materials, 1; show cases, 1; slaughtering and meat packing, wholesale, 2; stereotyping and electrotyping, 1; tools, not elsewhere specified, 1; trunks and valises, 1; typewriter repairing, 1; wirework, including wire rope and cable, 1.

## FORT WORTH.

1,949	\$317,555	82	\$25,184	18	\$2,788	\$392,877	\$42,721	\$23,868	\$905,032	\$21,261	\$3,348,550	\$3,248,310	\$100,240	\$5,332,804	1
8	8,550			1	100	885	825	60			3,060	2,935	125	10,223	2
25	12,279					2,687	2,255	175			11,968	10,584	1,384	47,674	3
3	1,224					1,889	1,801	100		800	5,406	5,346	60	14,865	4
51	86,060	14	4,880			6,716	2,890	662	3,104		108,762	105,238	3,524	187,968	5
95	61,606					20,062	402	82	2,290	17,288	114,178	113,811	867	224,125	6
34	10,656					3,065	420	950	1,590	105	23,017	22,095	922	57,071	7
239	142,220					6,542		1,899	5,143		157,847	153,078	4,769	323,193	8
23	19,686					4,512	3,796	228	438		23,060	22,085	75	64,745	9
		28	5,841			915	527	29	359		951	941	10	10,966	10
						1,818	588	12	718		1,313	1,017	296	9,554	11
74	56,540					27,731	120	3,506	24,105		1,866,000	1,846,618	19,382	1,539,128	12
69	85,348					6,128	462	1,166	3,820	675	30,098	28,403	1,695	101,088	13
12	5,726					3,980	2,880	148	952		11,258	11,221	37	35,950	14
43	29,300	1	500			9,887		1,917	7,470		20,050	2,400	17,650	81,000	15
13	15,368					627	100	160	377		18,560	18,115	435	54,600	16
88	50,200					1,540		60	480	1,000	63,060	63,060		133,068	17
18	8,560	18	4,410	1	52	2,990	2,520	120	350		16,515	16,505	10	38,050	18
36	21,997					2,713	390	113	2,210		4,575	4,455	120	21,545	19
6	2,880					1,528	615	170	491	250	13,755	13,696	59	50,012	20
						2,406	1,600	167	589		5,836	5,756	80	17,180	21
35	20,865	1	480	2	320	3,956	2,045	888	1,523		37,073	36,831	242	77,106	22
39	19,856	10	3,577	4	560	9,380	3,004	418	5,908	50	29,097	27,481	1,606	85,224	23
45	33,884					7,250	1,720	430	3,556	1,544	16,119	13,686	1,434	82,104	24
17	11,713					3,225	2,268	518	439		55,616	55,586	30	101,752	25
31	20,548					2,463	1,768	294	401		47,228	46,901	327	89,224	26
30	20,104	6	2,028	2	302	6,402	480	47	5,875		17,927	17,897	30	61,533	27
10	5,140					1,908	1,700	40	163		4,008	3,830	178	19,205	28
303	168,745	14	3,413	8	1,454	250,679	8,395	10,034	232,161	49	1,143,238	1,097,840	45,393	1,799,656	29

sash, doors, and blinds, 1; mattresses and spring beds, 2; optical goods, 1; paper hanging, 1; pickles, preserves, and sauces, 1; plastering and stuccowork, 2; roofing and roofing materials, 2; sewing machine repairing, 1; shirts, 1; slaughtering and meat packing, wholesale, 1; wirework, including wire rope and cable, 1.

## GALVESTON.

1,569	\$381,024	333	\$78,206	132	\$22,597	\$477,229	\$66,758	\$43,760	\$348,829	\$18,387	\$2,618,996	\$2,528,482	\$90,564	\$5,016,360	1
12	5,560			2	508	3,401	2,502	76	823		11,505	11,478	27	28,708	2
9	4,282			6	1,101	1,934	1,553	74	307		9,083	8,028	1,055	34,469	3
6	2,825					1,711	1,572	6	133		5,187	5,127	10	16,803	4
65	80,416	7	2,180	14	3,021	11,952	6,700	707	4,545		144,109	138,966	5,143	267,664	5
177	104,475					8,380	2,340	428	912	4,650	204,100	204,040	60	362,377	6
32	20,820					1,913	480	553	880		20,166	19,497	669	59,090	7
55	32,871	5	1,400			7,625	6,103	96	1,276	150	41,501	41,124	377	113,526	8
5	3,225	49	10,530	1	208	1,270	860	470	440		22,428	21,778	650	49,170	9
19	7,355	1	150	5	1,300	2,123	1,713	90	820		35,886	35,016	870	61,865	10
6	2,140			1	200	659	564	10	85		3,235	3,235		11,095	11
32	41,628					50,601	3,000	3,377	23,037	11,137	12,211	5,950	6,261	141,893	12
69	34,181					40,551	1,100	5,556	33,895		851,861	836,272	15,039	976,953	13
53	36,868					3,129	1,260	723	1,140		44,222	41,999	2,223	111,160	14
1	480					651	507	50	94		678	668	10	8,910	15
53	42,813			1	324	5,704	2,582	862	2,820		63,549	63,064	485	133,205	16



TABLE 8.—MANUFACTURES IN CITIES

## GALVESTON—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	Masonry, brick and stone	6	\$14,890	\$3,600	\$2,600	\$1,890	\$6,800	8			46	\$27,440
18	Millinery, custom work	4	33,310	10,000	7,000	810	15,500	3	1	\$720	18	6,878
19	Mineral and soda waters	3	9,950	2,200	2,000	3,600	2,150	2	1	600	6	3,230
20	Painting, house, sign, etc	12	11,099			2,645	8,454	14			45	27,250
21	Photography	7	14,600	1,000	1,250	7,150	5,200	6			10	3,920
22	Plastering and stucco work	7	703			458	245	8			13	9,281
23	Plumbing, and gas and steam fitting	10	41,270	600	1,500	4,095	35,075	12	5	5,472	88	20,714
24	Printing and publishing, book and job	7	48,725	350	400	29,360	18,615	10	7	6,810	86	16,510
25	Printing and publishing, newspapers and periodicals	6	196,825	15,000	60,000	88,400	33,425	7	30	41,550	72	74,728
26	Roofing and roofing materials	6	72,961	27,100	6,456	6,060	33,345	5	6	5,920	37	18,800
27	Saddlery and harness	5	14,750			990	13,760	5			7	3,820
28	Tinsmithing, coppersmithing, and sheet-iron working	15	15,832	2,250	800	6,292	6,490	17	2	2,070	29	13,160
29	Tobacco, cigars and cigarettes	3	6,180	2,000	2,075	280	1,775	4			8	1,075
30	Watch, clock, and jewelry repairing	10	22,935	7,800	5,000	6,866	8,269	13			10	8,455
31	All other industries <sup>1</sup>	98	3,541,799	469,343	679,857	1,361,711	1,030,888	28	56	71,516	949	356,615

<sup>1</sup> Embraces awnings, tents, and sails, 2; carpets, wood, 1; cars and general shop construction and repairs by steam railroad companies, 2; clothing, women's, dressmaking, 2; coffee and spice, roasting and grinding, 1; cordage and twine, 1; cotton, ginning, 1; cotton goods, 1; electrical construction and repairs, 2; fertilizers, 1; fireworks, 1; flavoring extracts, 1; food preparations, 1; furniture, cabinetmaking, repairing, and upholstering, 2; gas, illuminating and heating, 1;

## HOUSTON.

1	All industries	509	\$6,955,850	\$721,695	\$1,240,482	\$2,370,960	\$2,622,207	557	309	\$339,990	4,588	\$2,409,250
2	Bicycle and tricycle repairing	6	14,250	250	100	2,200	11,700	11			10	3,906
3	Blacksmithing and wheelwrighting	30	20,795	5,500	2,675	5,095	7,525	33			36	19,526
4	Boots and shoes, custom work and repairing	19	17,070	500	560	5,035	10,975	22			17	8,323
5	Bread and other bakery products	14	48,840	5,400	5,300	7,970	30,170	15	2	1,450	43	25,510
6	Carpentering	92	138,937	17,665	8,935	26,400	85,937	106			471	317,830
7	Carriages and wagons	4	74,104	9,578	8,943	6,066	49,517	6	1	780	52	28,400
8	Cars and general shop construction and repairs by steam railroad companies	3	823,073	55,400	136,453	218,882	417,338	52	52	67,011	1,236	763,181
9	Clothing, men's, custom work and repairing	25	61,893	4,000	2,500	4,700	50,693	26	7	5,020	98	44,633
10	Clothing, women's, dressmaking	10	17,690	5,000	1,000	1,825	9,865	11			45	10,779
11	Confectionery	11	113,969	30,000	13,212	18,272	52,485	16	14	10,756	87	29,796
12	Cooperage	4	3,685			435	3,250	6			4	1,730
13	Cotton, compressing	3	554,411	100,000	138,000	300,642	15,769	20	20	18,284	111	30,528
14	Dyeing and cleaning	8	3,375			1,600	1,775	10			17	6,032
15	Electrical construction and repairs	4	18,575	2,000	2,300	2,075	12,200	5	2	510	33	17,469
16	Foundry and machine shop products	6	297,705	15,906	65,996	59,357	156,446	4	10	15,040	135	75,507
17	Furniture, cabinetmaking, repairing, and upholstering	15	20,550	5,200	7,650	3,900	3,810	16			16	9,850
18	Ironwork, architectural and ornamental	3	55,005	35,000	2,500	8,305	9,200	3			16	8,075
19	Lock and gun smithing	9	3,025			1,060	1,965	9			1	400
20	Looking-glass and picture frames	3	8,560			835	7,725	4			5	2,065
21	Lumber, planing mill products, including sash, doors, and blinds	5	249,480	13,500	88,000	28,700	169,280	5	12	12,100	84	40,744
22	Masonry, brick and stone	27	66,655	12,975	6,845	9,000	37,835	30	3	3,000	198	94,384
23	Millinery, custom work	9	29,800	1,000	500	750	27,550	8	7	2,700	59	16,635
24	Mineral and soda waters	4	25,710		500	20,600	4,610	4			22	9,560
25	Oil, cottonseed and cake	4	1,159,632	43,050	277,605	554,750	284,227	28	28	37,165	339	100,571
26	Painting, house, sign, etc	32	20,660	1,000	175	3,685	15,800	38	1	350	90	63,248
27	Patent medicines and compounds	4	25,800			3,550	22,310	2	5	6,750	10	2,550
28	Paving and paving materials	3	16,550			6,750	9,800	4	1	900	33	35,310
29	Photography	7	6,455		800	3,800	2,355	7	1	480	6	8,336
30	Plumbing, and gas and steam fitting	8	63,124	1,250	1,850	5,190	55,834	8	12	9,300	61	44,275
31	Printing and publishing, book and job	16	153,733	7,600	3,350	91,366	51,467	20	14	9,860	103	53,781
32	Printing and publishing, newspapers and periodicals	13	153,294	1,000	1,500	89,140	61,654	16	23	23,563	113	91,212
33	Saddlery and harness	7	34,850		700	3,350	30,300	6	2	1,140	19	10,848
34	Tinsmithing, coppersmithing, and sheet-iron working	24	67,411	12,050	8,160	17,580	29,631	30	1	1,000	105	45,179
35	Tobacco, cigars and cigarettes	3	6,190			305	5,885	3			15	4,593
36	Watch, clock, and jewelry repairing	14	26,060	4,750	1,373	5,800	14,137	16			12	8,410
37	All other industries <sup>1</sup>	60	2,549,314	332,121	504,010	851,996	861,187	57	91	107,831	786	331,134

<sup>1</sup> Embraces artificial limbs, 1; awnings, tents, and sails, 2; boxes, wooden packing, 1; brick and tile, 2; bridges, 2; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; combs, 1; cotton, ginning, 2; engraving, steel, including plate printing, 2; flouring and grist mill products, 2; food preparations, 2; furniture, factory product, 2; gas, illuminating and heating, 1; hairwork, 2; hand stamps, 2; hats and caps, not including fur hats and wool hats, 1; ice, manufactured, 1; jewelry, 2; liquors, malt, 2; lumber and timber products, 2; marble and stone work, 1; mattresses and spring

BY SPECIFIED INDUSTRIES: 1900—Continued.

## GALVESTON—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
46	\$27,440					\$2,613	\$300	\$98	\$220	\$2,000	\$182,565	\$182,565		\$179,820	17
6	8,230	18	\$0,878			3,274	2,410	519	845		20,730	20,730		41,700	18
45	27,250					1,293	162	187	944		3,022	3,012	\$10	13,300	19
7	2,935	3	985			1,970	1,714	12	244		18,229	18,229		65,175	20
						3,243	2,860	178	205		6,233	6,204	29	29,956	21
18	9,281					588	534		54		5,471	5,471		25,464	22
34	19,684			4	\$1,050	3,796	2,446	465	885		38,065	38,261	404	31,162	23
29	16,818	8	680	4	612	3,954	2,700	207	1,047		8,189	7,475	714	44,225	24
66	78,748	1	170	5	810	26,351	1,788	1,930	22,633		44,259	41,591	2,668	211,318	25
34	18,256			3	544	3,835	492	485	2,758	100	43,920	43,665	255	84,787	26
7	8,820					1,478	1,048	5	425		10,717	10,717		22,878	27
24	12,354			5	806	2,948	2,323	163	457		20,897	20,476	422	54,145	28
8	1,075					1,258	108	125	1,025		2,565	2,565		6,835	29
9	8,835			1	120	2,620	1,825	272	523		3,073	2,993	85	23,220	30
623	289,429	240	55,283	80	11,903	276,394	8,702	21,035	246,357	800	791,285	788,287	53,048	1,756,487	31

hand stamps, 1; ice, manufactured, 2; jute and jute goods, 1; liquors, malt, 1; marble and stone work, 1; mattresses and spring beds, 2; monuments and tombstones, 1; paints, 1; paving and paving materials, 2; pickles, preserves, and sauces, 1; ship and boat building, wooden, 1; show cases, 1; stationery goods, not elsewhere specified, 1; trunks and valises, 1; wood, preserving, 1.

## HOUSTON.

4,295	\$2,836,096	280	\$64,151	63	\$9,008	\$663,426	\$81,950	\$41,297	\$520,472	\$10,707	\$5,792,571	\$5,604,374	\$188,197	\$10,641,575	1
9	8,786			1	120	1,901	1,280	35	536		5,950	5,900	50	17,650	2
33	19,526					4,855	3,846	123	868		23,110	22,034	1,076	31,985	3
15	8,100	2	723			2,352	2,036	120	196		14,629	14,600	28	48,406	4
41	25,090	1	240	1	180	6,875	2,085	268	4,522		70,479	68,117	2,362	131,427	5
471	317,880					13,689	2,687	1,308	5,510	4,068	596,889	596,059	180	1,093,418	6
52	28,400					5,050	2,100	666	2,284		35,966	34,812	1,154	94,200	7
1,286	763,181					20,875		5,334	15,541		829,520	815,699	13,821	1,680,587	8
81	89,071	14	5,070	8	392	14,089	3,248	502	4,839	500	55,275	54,581	714	154,410	9
47	21,782	45	10,779			2,767	1,591	210	466	500	5,825	5,790	35	30,695	10
4		84	7,100	6	914	5,199	2,451	851	1,897		92,383	90,266	2,072	138,636	11
103	1,780					1,053	858	16	679		6,200	6,200		13,525	12
10	20,628	3	500	5	500	22,632		8,048	13,904		12,208	7,173	5,025	120,843	13
38	4,876	7	1,656			2,887	1,724	11	1,052	100	1,423	970	453	13,135	14
135	17,469					1,776	796	115	865		12,769	12,565	204	42,200	15
15	75,507					9,636	1,964	1,111	6,261		196,129	194,094	2,035	319,543	16
16	8,930	1	420			1,626	1,132	142	302		7,197	7,112	85	32,180	17
16	8,075					1,255	135	700	420		28,935	28,035	900	54,000	18
1	400					1,862	1,246	20	96		3,080	3,060	20	9,845	19
5	2,065					1,063	640	141	232		2,652	2,652		7,435	20
84	40,744					8,753	987	1,690	6,076		151,797	151,497	300	250,980	21
193	94,364					4,677	504	298	3,875		250,228	249,578	650	419,199	22
1	1,500	56	14,935	2	260	4,670	3,806	104	1,160		31,666	31,366	300	70,650	23
22	9,560					1,746	1,208	67	472		17,783	17,545	238	38,166	24
339	100,571					65,183		5,286	59,047		1,845,760	1,297,615	48,135	1,755,549	25
90	63,248					3,167	1,960	74	1,133		74,118	74,118		205,471	26
4	1,310	4	1,000	2	240	9,914	1,250	107	3,557		17,874	17,424	450	49,879	27
83	35,310					2,887	90	50	2,727		93,572	92,572	1,000	156,870	28
5	3,136	1	200			2,611	1,868	100	570	75	8,871	8,871		20,400	29
60	44,125			1	150	6,872	2,820	757	2,795	500	88,022	87,587	435	164,555	30
85	49,852	10	2,490	8	1,439	15,143	6,814	1,071	4,070	3,188	48,815	46,165	2,650	167,059	31
107	89,306	3	1,540	3	366	59,232	4,583	790	52,099	1,700	46,081	43,867	3,314	277,230	32
19	10,848					4,481	3,744	115	2,732		21,777	21,732	45	52,164	33
102	44,767			3	412	4,954	2,948	263	1,743		86,396	85,240	1,156	177,632	34
9	3,643	4	650	2	800	2,094	342		1,752		5,720	5,720		15,650	35
12	8,410					3,838	2,348	188	781		9,342	9,212	130	39,806	36
715	360,556	45	16,848	26	3,780	343,838	12,803	15,016	315,569	16	1,498,635	1,399,505	99,130	2,643,097	37

beds, 2; monuments and tombstones, 1; oleomargarine, 1; optical goods, 2; paints, 1; pickles, preserves, and sauces, 2; plastering and stuccowork, 1; printing materials, 1; refrigerators, 1; roofing and roofing materials, 1; sewing machine repairing, 2; shirts, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 2; trunks and valises, 1; wirework, including wire rope and cable, 2; wood, preserving, 1.

TABLE 8.—MANUFACTURES IN CITIES

## SAN ANTONIO.

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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
1	All industries.....	312	\$4,253,197	\$350,433	\$766,378	\$1,153,345	\$1,076,991	295	209	\$244,252	3,078	\$1,755,008
2	Bicycle and tricycle repairing.....	4	3,775			875	2,900	1			5	2,602
3	Blacksmithing and wheelwrighting.....	50	55,696	29,375	9,240	7,162	9,919	54	1	840	43	25,702
4	Boots and shoes, custom work and repairing.....	22	8,998		600	4,213	4,185	23			12	6,036
5	Bread and other bakery products.....	13	50,795	16,150	15,650	10,575	8,420	18	1	240	64	33,896
6	Brooms and brushes.....	3	7,350	1,400	1,400	1,050	3,500	3			4	2,316
7	Carpentering.....	3	9,325			1,175	8,150	3			32	17,472
8	Cars and general shop construction and repairs by steam railroad companies.....	3	314,852	52,230	30,035	82,557	99,950		23	21,030	1,176	779,438
9	Clothing, men's, custom work and repairing.....	25	32,146			2,315	29,831	26	2	1,820	62	36,054
10	Confectionery.....	7	87,870	3,500	9,000	13,220	52,150	5	29	23,600	168	81,060
11	Cotton, ginning.....	4	31,223	4,500	5,250	18,820	2,653	2	2	191	6	640
12	Dyeing and cleaning.....	7	3,935	370	300	2,135	1,130	8			11	5,000
13	Food preparations.....	3	12,410			10,320	2,090	3	1	720	8	4,136
14	Foundry and machine shop products.....	6	236,132	51,000	30,400	37,700	67,032	1	25	27,324	216	110,635
15	Furniture, cabinetmaking, repairing, and upholstering.....	3	7,557	1,500	1,100	3,060	1,327	3			8	4,635
16	Liquors, malt.....	3	1,308,331	32,133	435,478	292,821	997,894	1	29	61,608	224	112,926
17	Lock and gun smithing.....	4	1,650			1,300	350	4				
18	Lumber, planing mill products, including sash, doors, and blinds.....	3	15,200	1,700	3,500	6,900	3,100	5	1	900	19	11,682
19	Mattresses and spring beds.....	3	4,905	1,000	2,000	775	1,130	3			5	2,500
20	Millinery, custom work.....	3	15,824	1,500	500	649	13,175	7	3	3,040	19	6,304
21	Monuments and tombstones.....	6	57,740	9,000	2,000	7,262	39,478	7	1	300	53	20,633
22	Painting, house, sign, etc.....	6	3,290	1,500	300	190	300	6			14	7,616
23	Photography.....	11	16,805	200	925	11,350	4,330	13	1	468	6	3,149
24	Plumbing, and gas and steam fitting.....	5	45,475		5,000	1,975	38,500	3	2	1,680	57	31,801
25	Printing and publishing, book and job.....	11	123,757	200	500	67,631	55,376	10	11	13,390	191	107,518
26	Printing and publishing, newspapers and periodicals.....	11	195,318	17,500	49,500	98,350	29,968	7	20	22,144	95	67,157
27	Saddlery and harness.....	10	329,390	3,000	2,000	10,490	313,900	12	1	450	120	64,826
28	Soap and candles.....	3	37,194	5,020	4,250	6,468	20,856	2	4	1,065	8	4,744
29	Tinsmithing, coppersmithing, and sheet-iron working.....	11	18,900	1,500	1,000	7,250	9,150	13	1	900	55	33,564
30	Tobacco, cigars and cigarettes.....	5	10,075			625	9,450	5			22	8,331
31	Watch, clock, and jewelry repairing.....	13	10,160	1,500	350	3,250	4,460	11			9	6,960
32	All other industries <sup>1</sup> .....	36	699,039	59,050	105,000	390,202	141,837	26	51	59,486	361	149,785

<sup>1</sup> Embraces awnings, tents, and sails, 2; boot and shoe uppers, 1; boxes, fancy and paper, 1; brick and tile, 1; carriages and wagons, 2; clothing, men's, factory product, 2; clothing, women's, dressmaking, 2; coffee and spices, roasting and grinding, 1; cotton, compressing, 1; electrical construction and repairs, 1; electroplating, 1; engraving and diesinking, 2; flavoring extracts, 1; flouring and grist mill products, 2; furs, dressed, 2; gas, illuminating and heating, 1; ice,

## WACO.

1	All industries	166	\$2,096,741	\$190,728	\$356,956	\$766,097	\$782,960	164	100	\$108,306	1,227	\$469,129
2	Bicycle and tricycle repairing	3	5,450			2,050	3,400	2			3	1,400
3	Blacksmithing and wheelwrighting	15	17,047	400	2,200	4,239	10,178	19	1	240	30	13,035
4	Boots and shoes, custom work and repairing.	10	4,287			695	3,592	7			9	4,180
5	Bread and other bakery products	7	19,889	3,000	5,100	2,215	9,574	7			15	5,805
6	Clothing, men's, custom work and repairing.	15	24,360	500	1,500	2,143	20,217	16			46	23,180
7	Cotton, compressing	3	184,200	3,500	78,000	102,500	200		4	5,400	52	20,000
8	Dyeing and cleaning	3	2,305	400	1,000	375	580	3			1	575
9	Foundry and machine shop products	5	88,050	4,000	1,750	17,200	15,100	3	3	2,700	33	23,270
10	Millinery, custom work	5	14,357	2,200	3,800	400	8,457	2	2	1,095	20	6,552
11	Mineral and soda waters	4	42,065	1,000	4,000	13,283	13,782	1	5	4,140	25	3,173
12	Patent medicines and compounds	3	3,350			275	3,075	3			2	255
13	Photography	4	3,235			5,600	3,695	4			6	2,994
14	Plumbing, and gas and steam fitting	4	20,500			1,900	18,600	4			17	10,300
15	Printing and publishing, book and job	10	42,665			30,750	11,915	12	6	5,580	47	23,856
16	Printing and publishing, newspapers and periodicals.	12	41,200	100	400	20,950	19,510	12	11	10,216	54	36,945
17	Saddlery and harness	6	57,324	400	575	12,433	48,911	7	15	13,500	144	36,083
18	Tinsmithing, coppersmithing, and sheet-iron working.	4	5,525			2,650	2,875	5	1	840	10	5,400
19	Watch, clock, and jewelry repairing	3	7,030			3,355	3,675	10			5	2,800
20	All other industries <sup>1</sup>	45	1,557,282	176,228	258,631	638,049	585,874	47	58	64,585	708	244,312

<sup>1</sup> Embraces artificial limbs, 1; baking and yeast powders, 2; brick and tile, 2; brooms and brushes, 1; carpentering, 2; carriages and wagons, 1; cars and general shop construction and repairs by street railroad companies, 1; clothing, men's, factory product, 2; confectionery, 2; cooperage, 1; cotton, ginning, 1; flouring and grist mill products, 2; furniture, cabinetmaking, repairing, and upholstering, 2; furniture, factory product, 1; gas, illuminating and heating, 1; ice, manufactured, 2;

BY SPECIFIED INDUSTRIES: 1900—Continued.

## SAN ANTONIO.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years. .		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
2,781	\$1,691,882	262	\$58,881	80	\$4,245	\$654,830	\$54,568	\$38,601	\$568,904	\$2,181	\$3,284,524	\$3,176,847	\$107,677	\$6,821,797	1
5	2,602					649	426	18	205		1,108	1,078	28	5,500	2
39	25,186			4	516	4,516	3,088	840	588		23,001	20,887	2,114	101,655	3
12	6,036					8,958	8,014	149	195		12,202	12,132	70	84,616	4
56	82,476	4	1,060	4	800	2,568	955	358	1,255		94,011	90,104	3,907	174,828	5
8	2,100	1	216			236	25	54	157		8,800	8,770	80	14,460	6
31	17,192			1	280	835	60		275		37,770	37,770		67,550	7
1,176	779,488					8,044		5,431	2,613		687,986	688,865	4,121	1,406,564	8
58	85,276	8	658	1	120	7,080	5,668	192	1,220		89,030	38,586	444	111,088	9
87	60,060	81	21,000			8,987	2,980	751	5,256		238,143	229,167	3,976	374,650	10
6	640					1,450	338	423	689		1,629	1,368	261	7,139	11
6	3,540	5	1,460			1,708	1,856	18	334		8,696	8,220	476	18,222	12
6	3,600	2	596			1,131	744	25	362		17,098	16,278	820	27,650	13
218	110,083			8	552	9,162	1,795	8,379	8,988		153,452	128,648	9,804	381,215	14
8	4,635					817	628	109	55	125	7,860	7,000	800	20,260	15
224	112,926					450,089		9,598	446,491		204,168	161,712	42,456	925,936	16
10	11,682					681	520	21	90		866	806	60	4,840	17
						1,304	210	226	838		14,108	18,628	480	34,697	18
4	2,300	1	200			398	300	48	50		8,404	8,184	220	18,317	19
		18	5,144	1	160	4,296	3,036	114	1,146		17,329	17,820		39,381	20
50	26,153			3	480	1,962	414	347	1,201		87,689	86,866	820	113,025	21
18	7,466			1	150	415	240	43	182		5,157	5,157		20,017	22
4	2,640	2	609			3,389	2,784	316	289		6,537	6,537		28,280	23
57	81,801					5,858	2,580	230	3,048		68,687	68,265	422	182,000	24
144	95,333	42	11,688	6	527	8,065	4,266	816	3,583		90,116	88,719	1,397	280,900	25
93	66,265	1	780	1	112	46,753	8,000	1,188	41,865	1,200	31,799	29,022	2,777	201,391	26
119	64,706			1	120	6,875	3,576	852	2,447		337,821	336,881	490	469,110	27
8	4,744					2,087	600	220	1,217		29,143	28,708	435	45,592	28
54	88,782			1	82	2,705	2,060	164	481		51,944	51,280	714	116,545	29
5	4,113	15	4,196	2	522	6,620	882	74	5,664		11,953	11,743	210	34,895	30
9	6,960					1,787	1,467	120	160		3,825	3,825		21,425	31
272	188,147	87	11,874	2	264	54,569	7,621	7,572	38,620	856	1,065,194	1,034,349	30,845	1,542,109	32

manufactured, 2; jewelry, 1; lime and cement, 1; looking-glass and picture frames, 2; masonry, brick and stone, 1; oil, cottonseed and cake, 1; optical goods, 1, shirts, 1; slaughtering and meat packing, wholesale, 1; stencils and brands, 1; trunks and valises, 1.

## WACO.

918	\$407,248	256	\$54,747	58	\$7,189	\$222,681	\$35,103	\$17,196	\$160,213	\$10,109	\$1,477,642	\$1,413,298	\$64,344	\$2,698,907 1
8	1,400					917	570	17	330		4,360	4,200	160	8,900 2
29	12,992			1	103	2,629	2,086	74	519		15,422	14,525	897	49,869 3
9	4,180					1,482	1,406	17	59		2,525	2,495	30	10,323 4
15	5,805					1,681	1,220	212	249		28,992	22,850	1,142	52,702 5
42	22,160	4	980			5,646	4,060	253	1,333		29,556	29,192	364	74,170 6
52	20,000					6,456	360	1,556	4,540		7,549	2,949	4,600	58,620 7
1	575					204	228	20	16		282	226	56	2,500 8
33	23,270					1,948	770	250	928		13,122	11,976	1,147	44,168 9
25	8,173	19	6,452	1	100	8,100	1,060	185	1,855		23,924	23,874	50	46,885 10
						18,265	1,580	295	16,389		23,658	22,667	1,086	77,493 11
1	180			1	75	1,961	192	3	1,766		1,392	1,382	10	5,145 12
6	2,994					1,816	1,820	140	356		4,049	4,010	39	13,700 13
17	10,300					8,345	2,028	188	1,129		29,821	29,732	89	57,500 14
35	20,800	10	2,880	2	225	4,887	2,704	234	869	1,080	17,854	16,465	889	59,208 15
49	86,815	2	280	3	850	13,535	1,671	160	2,825	8,879	12,087	10,712	1,325	92,601 16
105	80,163	24	4,000	15	1,925	36,453	5,675	1,835	28,943		295,849	295,829	520	427,431 17
10	5,400					879	684	48	147		9,652	9,487	165	21,810 18
5	2,800					1,773	1,532	22	219		1,185	1,137	48	13,357 19
476	199,746	197	40,205	85	4,361	115,644	6,067	11,686	97,741	150	991,918	910,191	51,727	1,588,185 20

look and gun smithing, 1; looking-glass and picture frames, 1; lumber, planing mill products, including sash, doors, and blinds, 1; mattresses and spring beds, 2; monuments and tombstones, 2; oil, cottonseed and cake, 2; painting, house, sign, etc., 2; paints, 1; perfumery and cosmetics, 2; pickles, preserves, and sauces, 1; shirts, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; tobacco, cigars and cigarettes, 1; vinegar and cider, 1; woolen goods, 1.

## STATISTICS OF MANUFACTURES.

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.....	1,305	\$19,825,109	\$3,620,815	\$3,395,333	\$6,514,104	\$9,295,307	1,349	636	\$642,311	9,798	\$4,599,092
2	Beaumont.....	51	8,113,766	1,157,034	187,088	432,308	1,337,386	48	58	33,788	954	439,078
3	Belton.....	53	809,008	21,550	65,425	159,228	62,800	58	9	6,693	189	74,462
4	Brownsville.....	86	96,905	6,680	15,544	42,382	32,299	37	9	2,007	63	17,466
5	Bryan.....	87	182,370	8,116	24,750	96,893	53,111	43	10	7,000	120	42,337
6	Calvert.....	29	150,773	5,550	9,100	123,303	12,825	24	4	8,500	101	25,293
7	Cleburne.....	75	459,325	31,740	78,085	241,823	107,727	75	41	42,423	807	406,011
8	Corpus Christi.....	39	75,770	6,760	7,790	27,493	33,727	40	3	2,520	80	32,210
9	Corsicana.....	118	929,030	37,600	88,231	417,848	385,351	139	53	42,731	508	262,292
10	Cuero.....	87	137,598	10,350	34,350	126,115	16,783	39	8	7,600	86	35,113
11	Denison.....	87	1,212,851	82,533	295,765	654,779	179,774	90	61	43,054	779	402,070
12	El Paso.....	136	4,550,604	245,366	1,327,431	1,853,863	1,123,944	140	86	118,450	2,171	1,036,517
13	Gainesville.....	76	733,711	60,636	192,099	234,985	195,991	77	33	31,960	338	146,758
14	Greenville.....	65	528,607	57,087	73,818	176,799	220,923	77	23	15,970	240	101,247
15	Hearne.....	11	149,913	4,450	35,656	95,319	14,493	10	8	6,268	101	27,489
16	Jefferson.....	21	395,904	116,293	112,050	83,826	78,760	14	27	20,820	335	94,367
17	Marlin.....	40	232,792	29,525	46,593	70,495	86,179	40	2	2,614	93	37,042
18	Marshall.....	46	392,316	41,276	166,975	276,908	407,157	45	28	23,555	638	333,315
19	Orange.....	13	3,321,868	1,500,224	161,715	328,822	1,331,107	16	31	41,495	764	356,005
20	Sherman.....	78	905,742	74,350	172,325	359,609	299,458	79	65	61,330	452	193,532
21	Taylor.....	72	134,785	20,425	46,445	79,935	37,930	63	10	11,340	207	92,958
22	Temple.....	74	700,369	55,675	171,325	361,025	112,344	83	31	32,546	323	153,832
23	Weatherford.....	33	309,550	22,640	44,095	152,552	90,263	79	22	13,017	178	72,671
24	Yoakum.....	23	201,097	24,500	38,778	62,794	75,025	23	14	15,580	271	156,782

## 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 in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
9,275	\$4,477,249	386	\$103,493	187	\$18,850	\$1,230,063	\$142,409	\$97,905	\$950,604	\$39,145	\$10,708,057	\$16,016,549	\$601,508	\$26,954,031	1
943	434,603	8	4,090	3	485	71,167	7,385	15,273	48,269	240	1,184,094	1,173,935	10,159	2,014,501	2
168	71,747	20	2,625	1	90	16,968	3,061	3,011	9,491	1,400	279,922	269,699	10,223	467,504	3
58	17,290			5	956	8,478	685	883	1,379	531	58,292	55,817	2,475	108,680	4
110	40,320	6	1,510	4	557	18,160	3,165	1,037	8,908	5,000	142,811	138,549	4,262	306,362	5
100	24,996	1	212			14,718	1,917	993	11,808		236,767	226,878	9,889	527,005	6
785	899,880	16	5,973	6	758	22,573	6,945	2,838	9,015	3,775	593,060	576,421	16,639	1,202,797	7
67	30,205	7	1,405	6	600	5,541	1,747	453	3,341		73,157	70,021	3,136	165,589	8
453	248,483	40	11,701	15	2,198	54,812	17,035	4,894	29,383	8,500	1,362,281	1,318,111	44,170	2,147,116	9
76	32,996	10	2,117			9,080	3,105	1,575	4,250	150	118,191	109,910	8,275	224,709	10
725	892,129	44	9,191	10	750	49,287	11,869	5,665	31,763		468,848	442,965	25,883	1,017,613	11
2,107	1,018,937	54	16,096	10	1,484	523,095	29,738	10,094	483,263		6,371,489	6,010,486	361,003	8,846,045	12
312	140,209	22	6,055	4	494	55,399	7,095	6,899	41,330	75	807,203	779,712	27,496	1,251,291	13
226	97,838	12	3,253	2	156	47,440	9,587	3,737	32,046	2,070	299,069	287,039	12,030	603,050	14
101	27,489					28,797	393	1,391	22,068		152,652	142,067	10,585	252,218	15
324	91,771	6	1,250	5	1,846	16,008	886	2,169	11,888	1,063	292,688	246,224	46,414	498,462	16
87	35,020	5	1,902	1	120	13,063	2,332	1,635	8,596		182,550	176,881	5,669	330,570	17
612	377,995	16	4,185	10	1,135	51,300	5,085	7,325	37,890	1,000	674,750	655,329	19,421	1,283,847	18
756	353,851	2	714	6	1,440	50,055	1,354	10,782	37,919		924,243	922,681	1,562	1,666,203	19
336	173,409	81	20,302	35	4,871	87,946	9,599	6,720	69,797	1,880	1,176,693	1,148,901	26,792	1,721,280	20
200	89,993	7	2,965			21,862	4,425	1,181	6,625	9,631	206,917	200,784	6,133	429,955	21
304	152,781	20	5,585	4	516	36,403	7,510	5,191	23,402	300	569,580	549,373	20,207	908,726	22
153	69,149	9	2,962	6	560	29,177	4,779	2,316	13,502	8,580	368,467	359,173	9,294	609,415	23
267	156,258			4	524	8,741	2,217	1,793	4,731		165,378	155,687	9,791	371,093	24

# UTAH.

Utah was organized as a territory in 1850, but until 1888 its area was much greater than that of the present state. The Ninth Census (1870) is, therefore, the first with which comparison can be made.

Table 1 shows the manufacturing and mechanical industries 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	1,400	581	640	533	148	14	163.7	117.0	20.1	200.1	957.1
Capital	\$14,650,948	\$8,583,022	\$2,656,657	\$1,891,898	\$449,356	\$44,400	122.6	147.8	90.9	213.9	898.5
Salaried officials, clerks, etc., number	740	231	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	17.3	7.9	---	---	---
Salaries	\$566,165	\$524,540	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	52.1	74.8	62.6	294.3	662.7
Wage-earners, average number	6,615	4,319	2,495	1,534	889	51	54.6	155.1	117.2	70.6	2220.7
Total wages	\$3,388,370	\$2,191,365	\$358,803	\$395,305	\$231,701	\$9,984	52.6	79.1	39.4	285.5	645.1
Men, 16 years and over	5,579	3,657	2,012	1,465	380	51	54.0	119.5	414.0	377.8	---
Wages	\$3,143,090	\$2,041,314	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	\$9,984	53.3	110.8	792.3	---	---
Women, 16 years and over	818	485	221	43	9	---	103.8	---	---	---	---
Wages	\$207,852	\$123,117	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	---	202.3	66.0	106.9	181.7	30.3
Children, under 16 years	218	207	282	26	---	---	137.4	106.0	84.6	160.3	209.1
Wages	\$37,428	\$26,834	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	---	82.2	44.4	65.9	116.5	253.9
Miscellaneous expenses	\$920,173	\$455,968	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	---	52.1	74.8	62.6	294.3	662.7
Cost of materials used	\$12,853,954	\$4,252,030	\$2,561,737	\$1,238,252	\$139,512	\$387,381	30.9	442.8	109.7	2360.0	115.2
Value of products, including custom work and repairing	\$21,156,183	\$8,911,047	\$4,324,992	\$2,343,019	\$900,153	\$291,220	---	---	---	---	---
Total population	274,952	207,905	143,963	86,786	40,273	11,380	---	---	---	---	---
Wage-earners engaged in manufactures	6,615	4,319	2,495	1,534	889	51	---	---	---	---	---
Per cent of total population	2.4	2.1	1.7	1.8	1.0	0.4	---	---	---	---	---
Assessed value of real estate	\$104,970,253	\$80,218,871	\$14,779,344	\$7,047,831	\$280,504	\$387,866	---	---	---	---	---
Value of land and buildings invested in manufactures <sup>7</sup>	\$4,803,687	\$2,110,986	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	---	---	---	---	---
Per cent of assessed value	4.6	2.6	---	---	---	---	---	---	---	---	---

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 6.)

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

<sup>4</sup> Not reported.

<sup>5</sup> Exclusive of 1,797 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

<sup>6</sup> Total assessed valuation, real estate not separated, as given for the year 1900, in Dunn's supplement, "State and City," to the Commercial and Financial Chronicle, under date of April 13, 1901.

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

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

In addition to the 1,669 active establishments in the state during the census year, with a capital of \$15,043,958, shown in Table 2, there were 16 idle establishments, with a

capital of \$276,471. Of these, 2, with a capital of \$30,300, were reported for the manufacture of brick and tile; 5, with a combined capital of \$17,775, for the manufacture of flouring and grist mill products; 1, with a capital of \$188,346, for lead smelting and refining; and 1, with a capital of \$21,500, for the manufacture of lime and cement. The remaining idle capital, amounting to \$18,550, was invested in comparatively small establishments reported for various industries.

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	1,669	\$15,043,958	1,817	6,666	\$3,395,900	\$934,001	\$12,833,867	\$7,778,802	\$4,054,567	\$1,040,988	\$21,239,900
Hand trades <sup>1</sup>	614	918,939	717	1,074	537,989	154,311	950,836	16,283	885,875	49,178	2,333,716
Educational institutions	5	302,117	---	26	5,220	850	7,682	519	6,449	714	15,732
Establishments with a product of less than \$500	264	90,893	287	25	2,310	3,978	21,721	898	20,599	224	67,985
All other establishments	786	13,732,009	813	5,541	2,850,381	774,862	11,903,118	7,761,103	3,142,144	999,372	18,822,467

<sup>1</sup> Includes bicycle and tricycle repairing, 21; blacksmithing and wheelwrighting, 157; boots and shoes, custom work and repairing, 80; carpentering, 43; clothing, men's, custom work and repairing, 62; clothing, women's, dressmaking, 28; dyeing and cleaning, 5; furniture, cabinetmaking, repairing, and upholstering, 9; lock and gun smithing, 7; masonry, brick and stone, 5; millinery, custom work, 62; painting, house, sign, etc., 29; paper hanging, 3; plastering and stuccowork, 3; plumbing, and gas and steam fitting, 27; sewing machine repairing, 4; taxidermy, 2; typewriter repairing, 1; watch, clock, and jewelry repairing, 46.



Of the 1,669 establishments of all classes, 878, or 52.6 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting chiefly of sums received for custom work and repairing, amounted to \$2,401,701, or only 11.3 per cent of the total products for the state.

Table 1 shows a rapid increase in the manufacturing and mechanical industries of Utah, but, as previously explained, the statistics for 1850 and 1860 pertain to a greater area than that now covered by the state. The increase during the last decade is largely due to the inclusion as a manufacturing industry in 1900 of lead smelting and refining—which industry was included in the report on mineral industries in 1880 and 1890. The totals for 1870 included 1 establishment with a product valued at \$75,000, engaged in milling quartz, an industry which has been excluded from the reports on manufactures since that time. The lead mined in the state during 1899 amounted to 13 per cent of the total production of the United States,<sup>1</sup> and the smelting and refining of this ore is the most important industry manufacturing for the outside market; but as only 2 establishments were reported for 1900, the statistics can not be shown separately without disclosing the operations of individual establishments, and are therefore grouped with "all other industries." The product of these smelters includes the precious metals as well as lead, the value of the silver largely exceeding the value of lead produced.

The highly concentrated brine of Great Salt Lake has made the manufacture of salt an important industry in the state, although the value of the product reported in 1900 was but \$139,488, as compared with \$144,300 in 1890.

Another leading industry was the manufacture of boots and shoes, with a product valued at \$225,986. Among the lines of industrial activity dependent upon the agricultural and horticultural products of the state, are flour and grist milling, with a product valued at \$1,829,840; the canning of fruits and vegetables, with a product valued at \$300,849; the manufacture of beet sugar, with a product valued at \$1,037,355; of malt liquors, with a product valued at \$432,835; and of butter and cheese, with a product valued at \$713,889.

Three other large industries show value of products as follows: Construction and repair shops of steam railroads,

<sup>1</sup> Production of Lead in 1899, page 9. (Extract from Annual Report of the Geological Survey, 1899-1900, Part VI.)

\$1,306,591; foundry and machine shops, \$217,392; and lumber and timber products, \$214,187.

#### URBAN MANUFACTURES.

Table 3 shows the totals for the manufacturing and mechanical industries of Salt Lake City as returned at the censuses of 1880, 1890, and 1900, with the percentages of increase.

TABLE 3.—COMPARATIVE SUMMARY, SALT LAKE CITY, 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.....	432	175	166	146.9	5.4
Capital.....	\$4,048,906	\$3,354,036	\$860,415	20.7	239.8
Wage-earners, average number.....	2,977	1,986	928	49.9	114.0
Total wages.....	\$1,601,253	\$1,205,454	\$425,537	32.8	183.3
Miscellaneous expenses.....	\$479,634	\$291,255	(1)	64.7	-----
Cost of materials used.....	\$2,743,674	\$1,966,818	\$812,786	39.5	142.0
Value of products, including custom work and repairing.....	\$6,109,409	\$4,624,419	\$1,610,133	32.1	187.2

<sup>1</sup> Not reported.

It appears from Table 3 that there has been a considerable increase during the past decade in the manufactures of the city. The number of establishments increased from 175 to 432, or 146.9 per cent; the average number of wage-earners from 1,986 to 2,977, or 49.9 per cent; and the value of products from \$4,624,419 to \$6,109,409, or 32.1 per cent. There were 432 establishments in Salt Lake City in 1900, or 30.9 per cent of the entire number located within the state. These establishments had a combined capital amounting to \$4,048,906, or 27.6 per cent of all the capital employed in the state. Of the wage-earners, 2,977, or 45 per cent of all in the state, were employed in Salt Lake City. The total amount of wages paid in the city amounted to \$1,601,253, or 47.3 per cent of all wages paid in the state. The value of products, including custom work and repairing, during 1900 was \$6,109,409, or 28.8 per cent of the total products of the state.

Table 4 combines the totals for the industries in Brigham, Lehi City, Logan, Ogden, Park City, Provo City, Salt Lake City, and Springville, and places them in comparison with the totals for the entire state and the state exclusive of these cities.

TABLE 4.—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.....	1,400	\$14,650,948	1,530	6,615	\$3,388,370	\$929,173	\$12,853,954	\$21,156,183
Total for urban manufactures.....	797	7,562,746	880	4,476	2,392,746	682,319	4,693,573	9,778,807
Brigham.....	33	104,944	36	74	27,709	4,650	98,892	172,101
Lehi City.....	16	1,287,570	20	73	193,804	53,680	368,847	721,981
Logan.....	68	279,952	76	181	62,081	14,453	218,491	876,055
Ogden.....	157	1,145,404	172	869	472,100	97,050	946,719	1,801,487
Park City.....	22	43,714	30	24	13,531	3,952	23,264	72,172
Provo City.....	57	515,496	66	264	105,408	23,981	216,444	431,120
Salt Lake City.....	432	4,048,906	462	2,977	1,601,258	479,634	2,743,674	6,109,409
Springville.....	17	156,760	18	14	6,860	4,969	77,242	95,482
Total for state exclusive of urban manufactures.....	603	7,088,202	650	2,139	995,624	246,854	8,160,381	11,377,376
Per cent of urban manufactures to total for state.....	56.9	51.6	57.5	67.7	70.6	73.4	86.5	46.2

Of the 1,400 establishments in the state, 797, or 56.9 per cent, are located in these 8 cities. The capital reported for these establishments is \$7,562,746, or 51.6 per cent of that for the entire state. They furnished employment to 4,476 wage-earners, or 67.7 per cent of the total number, paid \$2,392,746 in wages, or 70.6 per cent of the total amount, and the value of their products, \$9,778,807, formed 46.2 per cent of the total for the state.

Table 5 shows the totals for the state by counties.

Table 6 shows the totals for the state by specified industries.

Table 7 shows the totals for Salt Lake City by specified industries.

Table 8 shows the totals for all industries in the cities withdrawn from the enumerators, exclusive of Salt Lake City, shown in Table 7.

TABLE 5.—MANUFACTURES

	COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
1	The State.....	1, 400	\$14, 650, 948	\$1, 907, 868	\$2, 895, 819	\$5, 217, 298	\$4, 629, 963	1, 530	740	\$506, 165	6, 615	\$3, 388, 370
2	Beaver .....	12	37, 884	2, 075	12, 174	20, 775	2, 360	9	6	4, 740	26	10, 808
3	Boxelder .....	87	141, 504	16, 013	36, 205	48, 942	40, 344	40	11	2, 793	76	28, 669
4	Cache .....	101	435, 007	75, 515	92, 980	118, 170	148, 842	110	38	18, 725	250	87, 782
5	Carbon .....	8	79, 482	1, 800	10, 265	63, 733	8, 684	7	11	10, 525	98	68, 284
6	Davis .....	36	148, 551	7, 470	31, 910	45, 730	58, 435	35	20	7, 064	114	44, 885
7	Emery .....	18	48, 028	1, 045	16, 055	23, 175	7, 758	14	2	840	11	4, 190
8	Garfield <sup>1</sup> .....	16	39, 482	2, 555	6, 660	24, 557	5, 710	19	3	1, 500	84	9, 645
9	Grand .....	4	3, 020	670	925	1, 075	450	5				
10	Iron .....	16	38, 548	3, 250	12, 550	17, 603	5, 145	13			13	4, 055
11	Juab .....	42	119, 703	5, 885	9, 412	48, 690	55, 716	42	12	6, 545	83	48, 806
12	Kane .....	11	14, 390	1, 765	2, 630	7, 725	2, 270	11	1	25	7	1, 550
13	Millard .....	15	39, 216	730	12, 020	17, 675	8, 791	15	2	700	15	5, 639
14	Morgan .....	13	22, 781	3, 590	4, 975	9, 005	5, 211	16	2	230	6	2, 325
15	Rich .....	6	22, 845	1, 280	11, 715	2, 950	6, 400	8	1	200	9	4, 400
16	Salt Lake .....	502	8, 848, 495	1, 818, 865	1, 863, 720	2, 898, 446	2, 767, 464	533	428	878, 188	4, 146	2, 178, 543
17	Sanpete .....	74	212, 735	16, 110	40, 565	90, 186	65, 924	77	12	3, 271	80	31, 185
18	Sevier .....	50	105, 107	9, 630	18, 005	55, 370	21, 452	60	2	1, 000	50	16, 660
19	Summit .....	33	92, 650	10, 585	18, 822	27, 870	36, 423	43			64	21, 916
20	Tooele .....	29	85, 360	6, 890	11, 790	20, 360	46, 320	42	6	4, 800	80	16, 183
21	Uinta .....	25	55, 720	3, 935	6, 780	35, 085	9, 970	28	2	720	37	14, 555
22	Utah .....	156	2, 189, 715	167, 635	308, 745	908, 309	757, 026	183	50	42, 062	439	260, 030
23	Wasatch .....	12	40, 146	7, 850	9, 280	20, 050	2, 960	11	11	3, 300	22	7, 483
24	Washington .....	9	68, 394	2, 735	25, 800	24, 375	15, 484	7	8	2, 542	13	4, 640
25	Wayne .....	7	16, 080	694	4, 220	10, 225	941	11			4	1, 144
26	Weber .....	174	1, 802, 105	239, 396	327, 010	679, 311	556, 388	191	117	75, 795	997	526, 648

<sup>1</sup> Includes establishments distributed as follows: Piute, 1; San Juan, 1.

TABLE 6.—MANUFACTURES BY

	All industries.....	1,400	\$14,650,948	\$1,907,868	\$2,895,819	\$5,217,298	\$4,629,963	1,530	740	\$506,165	6,615	\$3,388,370
2	Awnings, tents, and sails.....	4	28,000			2,750	25,250	4			14	5,640
3	Bicycle and tricycle repairing.....	21	27,422	460	1,000	9,089	16,873	24	4	1,600	30	10,836
4	Blacksmithing and wheelwrighting.....	187	162,804	34,395	32,069	40,235	56,105	227	4	1,850	117	58,022
5	Boots and shoes, custom work and re- pairing.....	80	52,664	9,515	13,125	12,130	17,894	83			89	10,028
6	Boots and shoes, factory product.....	8	124,267	4,750	33,036	21,743	64,738	2	17	17,432	140	52,558
7	Bread and other bakery products.....	29	209,862	38,750	41,025	83,188	46,949	30	20	10,481	107	46,041
8	Brick and tile.....	49	171,357	16,778	43,661	20,050	49,388	77	11	6,705	249	89,245
9	Carpentering.....	43	220,588	37,565	41,085	28,840	113,158	63	18	13,314	209	112,968
10	Carpets, rag.....	3	270	20	50	160	40	3				
11	Carriages and wagons.....	5	36,674	2,600	12,300	3,650	18,224	5	8	1,250	38	17,213
12	Cars and general shop construction and repairs by steam railroad com- panies.....	10	496,149	141,200	115,450	147,412	92,087		46	49,889	908	636,076
13	Cheese, butter, and condensed milk, factory product.....	57	269,247	11,351	80,861	113,007	64,028	39	54	15,076	159	63,135
14	Clothing, men's, custom work and re- pairing.....	62	134,445	5,625	9,650	9,996	109,174	67	7	5,100	213	122,808
15	Clothing, women's, dressmaking.....	28	9,115	30	150	4,405	4,530	28	1	1,800	102	25,106
16	Confectionery.....	24	154,563	2,600	2,200	30,652	113,111	28	49	27,125	163	67,357
17	Dyeing and cleaning.....	5	965			520	445	7			7	2,166
18	Electrical construction and repairs.....	6	28,328			1,058	27,270	6	5	4,000	25	13,035
19	Flouring and grist mill products.....	80	1,101,885	141,395	244,900	450,228	265,362	59	59	32,820	167	82,979
20	Foundry and machine shop products.....	15	210,394	41,800	41,885	73,253	53,501	21	7	9,812	153	91,976
21	Fruits and vegetables, canning and preserving.....	8	304,258	33,646	66,173	57,707	146,733	8	20	8,068	141	37,565
22	Furniture, cabinetmaking, repairing, and upholstering.....	9	8,015	2,050	1,550	915	3,500	13	2	825	8	4,076
23	Furniture, factory product.....	3	8,890	960	2,200	1,400	4,270	1	1	330	34	17,800
24	Hand stamps.....	3	5,400			2,750	2,650	4			4	1,800
25	Hosiery and knit goods.....	5	52,550	4,500	3,000	11,800	33,250	4	13	5,260	91	21,500
26	Leather, tanned, curried, and finished.....	4	8,625	425	2,900	2,100	3,200	1			3	1,500
27	Lime and cement.....	8	188,150	5,450	14,175	84,410		5	11	13,300	99	41,474
28	Liquors, malt.....	7	613,992	154,374	98,999	118,311	242,278	4	22	21,178	89	53,751
29	Lock and gun smithing.....	7	14,775	5,000	2,000	4,275	3,500	6	2	3,300	6	4,015
30	Looking-glass and picture frames.....	8	41,950	4,600	2,400	4,775	30,175	11	86	12,000	94	17,680
31	Lumber and timber products.....	81	182,780	51,827	10,330	93,017	27,606	108	7	1,850	140	43,504
32	Lumber, planing mill products, includ- ing sash, doors, and blinds.....	28	199,543	15,905	26,100	62,520	95,018	32	16	9,800	114	63,617
33	Marble and stone work.....	3	6,680	230	100	5,150	1,200	4			7	5,150
34	Masonry, brick and stone.....	5	3,655	250	250	605	2,550	5			10	5,615
35	Mattresses and spring beds.....	4	31,004	300	2,300	11,123	17,371	4	4	4,650	33	11,981
36	Millinery, custom work.....	52	86,791	6,425	16,475	4,916	58,975	57	27	5,984	64	22,359

## BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
5,579	\$3,143,090	818	\$207,852	218	\$37,423	\$929,173	\$163,237	\$37,727	\$605,730	\$72,479	\$12,853,954	\$12,179,560	\$674,394	\$21,156,183	1
17	6,642	9	2,661			981	85	440	447		46,376	45,089	1,287	70,741	2
63	23,735	9	1,460	4	468	5,892	629	761	4,502		112,282	110,513	1,769	192,432	3
166	78,288	70	12,985	14	1,609	21,795	4,760	4,345	11,632	1,058	439,117	491,444	7,073	676,370	4
92	68,134	1	100			5,940	150	251	5,539		70,884	68,702	1,682	199,128	5
97	40,920	15	3,061	2	404	6,299	861	718	4,720		159,852	151,240	8,612	251,217	6
11	4,190					623		333	285		37,442	37,040	402	61,171	7
29	8,970	4	475	1	200	460	66	319	75		32,682	32,562	120	56,214	8
11	8,330			2	225	147	43	81	68		1,691	1,616	75	4,398	9
78	42,311	3	755	2	240	1,130	206	464	460		18,149	17,744	405	31,610	10
						8,880	3,927	1,008	3,945		93,619	91,287	2,232	216,701	11
7	1,550					493	69	128	296		9,601	9,868	133	16,551	12
14	5,498	1	41			582	44	331	207		35,669	35,231	433	57,161	13
6	2,325					640	98	179	363		20,139	19,750	389	38,110	14
9	4,400					374		374			19,642	19,422	220	35,814	15
3,545	2,018,145	493	135,143	103	20,255	631,655	112,790	45,570	407,901	65,894	8,890,845	8,840,845	549,999	14,212,689	16
80	30,312	8	393	3	430	8,690	3,215	1,585	3,585	305	220,163	222,699	3,464	337,958	17
45	16,115	2	305	3	240	3,711	630	962	2,069		102,274	100,441	1,833	168,576	18
50	20,336	2	764	2	326	4,689	1,748	821	2,110	10	63,677	62,439	1,233	129,467	19
28	15,863	1	270	1	50	7,162	2,307	412	2,558	1,875	60,576	58,621	1,955	111,910	20
92	13,572	2	715	3	288	1,991	874	483	629		60,643	59,238	1,405	101,611	21
333	229,808	72	22,965	34	7,257	91,427	11,144	11,078	60,129	76	929,763	871,483	58,280	1,654,817	22
18	6,735	2	436	2	312	756	114	332	260		44,924	44,377	547	68,775	23
10	4,056	2	484	1	100	1,180	48	339	793		27,145	25,692	1,453	89,143	24
	1,144					773		173	600		12,760	12,670	90	17,435	25
334	496,711	127	24,843	36	5,094	122,913	19,374	16,221	83,557	3,761	1,338,739	1,310,046	28,693	2,421,679	26

## SPECIFIED INDUSTRIES: 1900.

5,579	\$3,143,090	818	\$207,852	218	\$37,428	\$929,173	\$163,287	\$37,727	\$605,730	\$72,479	\$12,853,954	\$12,179,560	\$674,394	\$21,156,183	1
6	3,400	7	2,080	1	100	2,697	1,774	139	784		39,640	39,600	40	57,801	2
23	9,800			7	1,036	5,047	3,061	166	1,695	125	21,648	21,150	498	54,801	3
112	57,087			5	935	12,932	7,359	1,686	4,047		101,175	93,677	7,498	344,363	4
34	15,338	4	612	1	78	4,785	3,532	511	742		88,331	37,412	919	104,540	5
98	43,275	40	8,530	2	763	5,017		1,077	3,940		156,046	152,772	3,274	225,986	6
66	35,169	37	10,246	4	626	21,134	7,632	1,523	11,979		142,149	136,183	5,961	291,313	7
228	89,550			21	3,995	9,032	485	825	3,589	30	32,666	5,311	27,355	136,449	8
203	112,753			1	215	37,365	2,032	1,845	6,468	27,050	216,846	215,266	1,080	447,543	9
35	16,980	1	155	1	78	111	103	1	2		907	10	2	268	10
907	635,776	1	300			2,331	1,050	309	972		26,317	25,538	729	63,978	11
152	61,903	7	1,172			16,219		10,315	5,404		604,007	588,820	16,087	1,306,591	12
172	110,349	39	12,126	2	333	13,788	3,544	1,028	3,060	556	550,096	541,210	8,886	713,889	13
						26,427	14,348	1,353	9,815	906	131,446	129,129	2,317	397,232	14
58	29,198	102	25,106	4	847	5,785	3,413	7	2,365		88,308	37,858	850	94,822	15
5	1,786	2	380			26,903	12,311	754	12,338		224,907	219,833	4,474	440,044	16
25	13,035					1,381	1,068	75	233		1,473	1,229	244	9,840	17
166	82,666					3,551	2,142	236	1,173		37,966	37,926	40	71,694	18
152	91,832			1	313	58,425	7,156	9,660	40,359	1,250	1,401,819	1,392,036	9,783	1,329,840	19
62	26,037	73	10,172	6	1,356	4,719	1,062	1,414	2,243		69,749	54,646	9,103	217,392	20
						6,024	58	483	5,478		211,279	207,252	4,027	300,349	21
8	4,076					963	545	87	328		3,103	3,058	50	13,839	22
30	10,777	4	1,032			3,364	1,520	103	1,741		17,315	17,105	210	42,732	23
4	1,800					854	372	42	440		9,836	3,652	184	11,630	24
15	8,800	72	12,674	4	225	4,577	2,107	325	2,145		24,184	24,004	180	66,357	25
8	1,600					215	1	64	150		3,432	3,417	65	5,863	26
98	41,234			1	240	23,135	1,350	508	17,027	4,250	62,453	44,002	18,451	173,512	27
33	52,501			6	1,160	123,838	60	6,369	116,559	850	120,995	103,938	12,007	432,835	28
5	3,815					1,547	912	133	452		4,781	4,201	580	13,360	29
28	16,200	6	1,480			5,302	2,220	477	2,605		44,710	44,515	195	99,166	30
130	42,381	5	635	5	483	2,133	44	1,066	1,033		102,932	102,932		214,187	31
118	68,306			1	311	29,676	1,080	1,837	5,759	21,000	116,278	113,285	2,998	252,187	32
7	5,150					219	27	22	170		2,883	2,701	182	13,725	33
10	6,615					4,100			100	4,000	11,790	11,790		24,840	34
28	10,331	5	1,650			2,293	1,200	127	966		45,505	44,635	870	75,328	35
		64	22,859			14,927	10,796	902	3,229		125,873	124,937	886	214,007	36

TABLE 6.—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.
87	Mineral and soda waters.....	8	\$108,888	\$7,850	\$7,000	\$37,734	\$56,254	7	16	\$16,040	67	\$25,160
88	Monuments and tombstones.....	15	41,929	8,100	1,866	6,230	25,733	18	6	2,880	37	21,185
89	Painting, house, sign, etc.....	29	33,279	175	785	6,900	25,419	40	4	1,365	103	59,307
90	Paper hanging.....	8	7,700			850	7,350	4	8	1,420	7	5,487
41	Patent medicines and compounds.....	6	5,135	200	350	1,110	8,475	3	1	500	5	2,102
42	Photography.....	31	50,752	8,205	6,950	19,002	16,595	34	2	1,800	35	15,708
43	Plastering and stuccowork.....	3	2,875			525	2,350	4			2	1,600
44	Plumbing, and gas and steam fitting.....	27	74,078	800	600	10,093	61,985	40	5	4,260	106	57,555
45	Pottery, terra cotta, and fire-clay products.....	7	83,050	8,100	10,500	11,800	7,650	8	2	2,000	30	10,908
46	Printing and publishing, book and job.....	18	148,593			96,655	46,938	25	17	15,122	117	52,389
47	Printing and publishing, newspapers and periodicals.....	62	679,281	52,850	63,445	260,144	802,842	68	73	67,769	481	235,174
48	Roofing and roofing materials.....	3	3,500	750		975	1,775	3			11	5,536
49	Saddlery and harness.....	55	236,911	81,600	41,031	14,670	149,610	71	14	8,032	114	54,988
50	Salt.....	5	646,850	540,010	23,740	25,011	58,089	4	8	10,580	59	23,702
51	Sewing machine repairing.....	4	4,150			1,800	2,350	8			4	1,956
52	Slaughtering and meat packing, whole-sale.....	5	88,002	22,869	7,000	10,772	43,761	10	6	2,472	84	14,978
53	Slaughtering, wholesale, not including meat packing.....	3	33,125	4,600	9,000	4,525	15,000	4			8	3,075
54	Sugar and molasses, beet.....	3	1,789,870	77,100	253,500	978,770	480,000		21	29,560	107	128,800
55	Tinsmithing, coppersmithing, and sheet-iron working.....	38	122,128	28,835	33,610	16,635	43,048	42	5	3,694	81	43,183
56	Tobacco, cigars and cigarettes.....	15	46,123	2,000	2,100	890	41,133	17			68	33,499
57	Trunks and valises.....	3	21,200	1,000		600	19,600	3	8	1,416	9	3,450
58	Watch, clock, and jewelry repairing.....	46	43,848	4,600	8,900	15,900	19,443	48	4	516	23	17,813
59	Woolen goods.....	6	454,681	32,620	91,630	96,905	233,826		14	10,050	194	69,681
60	All other industries <sup>1</sup> .....	60	4,783,268	301,549	1,377,463	2,033,037	1,071,219	46	60	102,870	1,240	638,352

<sup>1</sup> Embraces agricultural implements, 2; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; bookbinding and blank book making, 2; bottling, 1; boxes, cigar, 1; boxes, fancy and paper, 1; brooms and brushes, 2; cars and general shop construction and repairs by street railroad companies, 2; charcoal, 1; china decorating, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; coke, 1; copper, smelting and refining, 2; engraving, steel, including plate printing, 1; flavoring extracts, 2; fur goods, 1; furnishing goods, men's, 1; gas, illuminating and heating, 2; gloves and mittens, 1; hairwork, 1;

TABLE 7.—MANUFACTURES IN SALT LAKE CITY

		482	\$4,048,906	\$524,428	\$480,269	\$1,331,872	\$1,712,387	462	864	\$282,418	2,977	\$1,601,253
1	All industries.....											
2	Awnings, tents, and sails.....	3	26,750			2,500	24,250	3			13	5,160
3	Bicycle and tricycle repairing.....	10	15,400		500	5,250	9,050	10	2	1,120	19	7,478
4	Blacksmithing and wheelwrighting.....	33	88,687	13,900	5,925	7,390	11,472	40			44	22,978
6	Boots and shoes, custom work and repairing.....	25	6,414	500	800	2,685	2,929	26			11	5,844
6	Boots and shoes, factory product.....	3	124,267	4,750	33,036	21,743	64,788	2	17	17,432	140	52,558
7	Bread and other bakery products.....	16	174,092	27,000	86,500	74,263	86,829	15	14	9,333	77	34,462
8	Carpentering.....	9	143,777	25,000	29,700	15,670	73,407	8	8	8,268	92	40,798
9	Carriages and wagons.....	4	32,474	2,000	11,300	3,250	15,924	4	1	250	33	14,813
10	Cars and general shop construction and repairs by steam railroad companies.....	3	208,910	87,000	40,250	49,104	32,496		25	26,071	521	354,656
11	Clothing, men's, custom work and repairing.....	36	96,760	2,600	1,000	6,736	86,424	41	7	5,100	165	98,314
12	Clothing, women's, dressmaking.....	22	6,860			8,040	2,920	22	1	1,800	84	21,823
13	Confectionery.....	12	119,765	1,000	400	25,345	93,020	12	40	18,695	117	89,257
14	Dyeing and cleaning.....	4	815			420	895	5			6	2,080
15	Electrical construction and repairs.....	4	25,893			823	25,070	3	5	4,000	23	11,415
16	Foundry and machine shop products.....	9	178,719	89,800	37,910	54,008	46,401	12	7	9,912	127	81,322
17	Furniture, cabinetmaking, repairing, and upholstering.....	4	2,640	1,800	700	290	850	5			2	1,750
18	Furniture, factory product.....	3	8,830	960	2,200	1,400	4,270	1	1	380	84	17,809
19	Hand stamps.....	3	5,400			2,750	2,650	4			4	1,800
20	Lime and cement.....	3	148,700		7,000	68,100	73,600	1	10	12,700	84	30,974
21	Liquors, malt.....	4	551,743	150,874	86,800	104,791	209,778	2	17	16,458	73	44,987
22	Lock and gun smithing.....	6	3,175			1,875	1,800	6			3	1,315
23	Looking-glass and picture frames.....	5	37,300	4,000	2,000	4,200	27,600	8	30	12,000	33	17,280
24	Lumber, planing mill products, including sash, doors, and blinds.....	3	39,600	2,500	3,600	10,500	17,000	1	6	4,650	28	21,360
25	Millinery, custom work.....	9	26,325		1,500	825	24,000	9	13	3,227	35	13,463
26	Mineral and soda waters.....	4	80,438	2,500	3,500	25,934	48,554	1	18	15,840	60	21,990
27	Monuments and tombstones.....	3	23,350		50	600	15,600	2	4	2,700	17	18,705
28	Painting, house, sign, etc.....	19	23,594	7,200	500	5,425	22,669	25	4	1,365	85	49,660
29	Patent medicines and compounds.....	8	8,785			1,010	2,775	1	1	500	4	1,920
30	Photography.....	11	24,227	2,000	3,200	7,977	11,050	13	2	1,800	21	9,604
31	Plastering and stuccowork.....	3	2,875			525	2,350	4			2	1,600

## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
54	\$21,830	5	\$1,500	8	\$2,830	\$10,037	\$1,390	\$808	\$7,839		\$69,389	\$68,603	\$781	\$148,899	37
86	20,960			1	225	3,080	936	461	1,653	\$30	49,682	49,404	278	96,083	38
97	58,153			6	1,164	9,212	8,609	183	5,320	100	57,342	57,155	187	163,575	39
7	5,487					840	710	78	68		9,643	9,433	105	24,094	40
4	1,920	1	182			1,071	540	149	332		3,465	3,380	85	10,070	41
25	13,116	9	2,442	1	150	7,361	4,189	579	2,593		24,195	23,701	494	82,965	42
2	1,600					576	156	8	112	300	1,671	1,671		6,300	43
97	56,072	1	255	8	1,228	12,294	5,542	893	4,499	1,860	146,458	145,103	1,855	274,740	44
35	10,760			1	166	1,214	590	467	157		6,196	3,792	2,404	23,600	45
94	47,619	13	3,308	10	1,462	15,191	5,938	976	7,259	1,018	65,038	61,975	3,068	177,286	46
844	216,994	52	14,496	35	3,684	92,129	11,147	3,068	71,270	6,644	138,290	130,371	7,919	593,562	47
11	5,586					389	12	20	357		9,962	9,940	22	21,018	48
109	54,124	1	200	4	604	11,208	4,547	1,919	4,242	500	156,355	155,474	881	284,805	49
68	23,637	1	165			24,065	4,275	402	19,388		31,769	27,635	4,124	139,488	50
3	1,800			1	156	1,791	1,370	101	320		2,610	2,569	41	11,000	51
84	14,978					5,075	1,800	611	2,064		291,477	289,957	1,520	343,444	52
8	3,075					865	150	200	516		93,376	93,586	290	110,012	53
107	123,800					74,170		3,694	63,776	1,700	561,003	518,268	42,735	1,037,355	54
74	41,143			7	2,040	8,916	3,831	1,550	3,276	210	102,385	100,949	1,436	216,073	55
54	35,100	7	2,580	7	819	13,479	2,758	411	10,310		49,928	49,704	224	124,437	56
5	2,650			4	800	1,789	480	159	1,150		5,600	5,580	20	16,785	57
21	17,713			2	100	10,108	6,932	630	2,446	100	16,471	15,791	680	76,779	58
100	43,217	65	20,786	29	5,678	17,354		2,463	14,891		121,823	115,063	6,765	222,343	59
1,128	611,186	93	23,457	19	3,709	126,067	7,390	16,368	101,809		6,103,331	5,649,374	459,457	8,124,562	60

Ice, manufactured, 1; ironwork, architectural and ornamental, 1; jewelry, 1; lead, bar, pipe, and sheet, 1; lead, smelting and refining, 2; oil, not elsewhere specified, 1; optical goods, 1; pickles, preserves, and sauces, 1; rubber and elastic goods, 1; scales and balances, 1; shirts, 1; show cases, 2; silk and silk goods, 2; soap and candles, 2; taxidermy, 2; typewriter repairing, 1; vinegar and cider, 2; whips, 2; wirework, including wire rope and cable, 2; wood, turned and carved, 2; wool pulling, 2.

## BY SPECIFIED INDUSTRIES: 1900.

2,404	\$1,452,935	485	\$182,679	88	\$15,639	\$179,634	\$107,785	\$32,588	\$201,397	\$47,864	\$2,743,674	\$2,662,250	\$31,424	\$3,109,409	1
5	2,980	7	2,080	1	100	2,644	1,744	116	784		33,125	33,100	25	53,598	2
16	6,818			4	660	3,432	2,232	108	967	125	12,325	12,042	283	29,479	3
42	22,683			2	290	5,207	3,668	264	1,835		23,339	21,738	1,553	97,921	4
11	5,344					1,913	1,703	61	149		9,394	9,004	800	32,351	5
98	43,275	40	8,580	2	753	5,017		1,077	8,940		156,046	152,772	3,274	225,980	6
44	25,330	31	8,781	2	301	15,911	4,874	1,280	9,767		101,055	97,418	3,639	212,951	7
91	49,583			1	215	82,208	1,220	1,320	4,709	24,950	109,829	109,237	592	179,787	8
31	14,580	1	155	1	78	2,201	1,050	259	892		19,472	18,803	669	60,053	9
620	354,356	1	800			5,310		5,230	80		347,810	341,223	6,584	733,347	10
130	37,324	33	11,157	2	333	21,077	11,496	1,061	8,395	125	99,699	93,260	1,439	312,238	11
33	19,196	34	21,823			5,178	2,375	4	2,294		33,545	33,270	275	32,459	12
23	1,786	75	19,214	4	847	17,767	10,641	411	6,715		169,050	162,482	3,568	321,962	13
127	11,415	1	800			1,243	1,008	75	160		893	893	195	6,305	14
2	1,750					3,217	1,926	218	1,078		32,371	32,346	25	62,769	15
80	13,777	4	1,032			2,921	732	1,042	1,147		51,920	46,274	5,646	130,587	16
4	1,800					435	240	25	170		900	900		6,200	17
88	36,784			1	240	3,364	1,520	103	1,741		17,315	17,105	210	42,732	18
69	44,187			4	800	854	372	42	440		3,833	3,652	184	11,680	19
2	1,115					21,790	1,200	225	16,115	4,250	55,490	40,440	15,050	148,320	20
27	15,800					102,660		4,634	97,023	850	110,391	93,819	11,472	336,143	21
28	21,366					1,187	912	23	252		2,376	2,151	225	3,460	22
49	19,390	35	13,463	1	200	4,907	1,920	453	2,534		43,075	42,905	170	93,700	23
16	13,480					6,573	840	340	1,893	3,600	28,200	25,670	530	63,615	24
80	48,856					7,972	5,940	364	1,668		60,592	60,395	197	106,880	25
4	1,920	5	1,500	6	1,100	9,347	1,330	562	7,455		61,593	60,373	720	132,699	26
16	8,246					1,614	620	219	775		25,055	24,950	105	51,500	27
2	1,600			5	1,004	3,469	3,117	137	5,115	100	44,240	44,120	120	133,994	28
						868	480	111	277		2,125	2,100	25	7,473	29
						4,543	2,770	366	1,407		12,612	12,492	120	46,176	30
						578	156	8	112	300	1,671	1,671		6,800	31

## STATISTICS OF MANUFACTURES.

TABLE 7.—MANUFACTURES IN SALT LAKE CITY

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES.	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.
82	Plumbing, and gas and steam fitting	20	\$68,648	\$800	\$100	\$9,188	\$58,560	31	5	\$4,260	87	\$47,176
83	Printing and publishing, book and job	10	117,273			78,855	38,418	13	16	14,082	96	44,689
84	Printing and publishing, newspapers and periodicals.	16	515,694	45,500	52,845	152,529	265,820	16	55	50,849	313	186,192
85	Roofing and roofing materials	8	3,500	750		975	1,775	8			11	5,585
86	Saddlery and harness	9	58,035		6,000	3,570	48,465	13	9	5,850	49	25,185
87	Sewing machine repairing	8	2,150			800	1,350	2			4	1,950
88	Tinsmithing, coppersmithing, and sheet-iron working.	12	80,858	28,000	25,700	7,500	21,653	14	4	8,094	56	38,561
89	Tobacco, cigars and cigarettes	8	28,828	1,000	600	405	26,823	9			47	28,983
40	Trunks and valises	8	21,200	1,000		600	19,600	3	3	1,416	9	8,450
41	Watch, clock, and jewelry repairing	21	21,615	2,250	1,750	8,175	9,440	22	2	341	16	12,818
42	All other industries <sup>1</sup>	51	954,995	75,244	86,403	559,286	284,062	44	36	29,475	332	154,374

<sup>1</sup> Embraces baking and yeast powders, 1; bookbinding and blank book making, 2; bottling, 1; boxes, cigar, 1; boxes, fancy and paper, 1; cars and general shop construction and repairs by street railroad companies, 2; cheese, butter, and condensed milk, factory product, 1; china decorating, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; engraving, steel, including plate printing, 1; flavoring extracts, 2; flouring and grist mill products, 2; fur goods, 1; furnishing goods, men's, 1; gas, illuminating and heating, 1; hosiery and knit goods, 2; ice, manufactured, 1; ironwork, architectural and

TABLE 8.—MANUFACTURES IN CITIES

		865	\$3,513,840	\$409,628	\$539,428	\$1,303,367	\$1,261,422	418	150	\$107,595	1,499	\$791,493
1	Total for cities											
2	Brigham	38	104,944	14,663	28,805	25,142	38,384	36	10	2,288	74	27,709
3	Lehi City	16	1,267,570	89,375	155,095	613,400	429,040	20	10	19,660	78	103,804
4	Logan	63	279,352	62,125	46,400	68,880	112,597	76	25	13,430	181	62,081
5	Ogden	157	1,145,404	201,685	189,398	372,668	381,658	172	82	58,360	869	472,100
6	Park City	22	43,714	6,500	10,250	9,507	17,397	30			24	13,531
7	Provo City	57	515,496	47,275	82,230	109,010	276,981	65	22	13,687	264	105,408
8	Springville	17	156,760	8,000	27,250	114,695	6,815	18	1	225	14	6,800



## 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 in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Aver- age num- ber.	Wages.	Aver- age num- ber.	Wages.	Aver- age num- ber.	Wages.										
80	\$45,953	1	\$255	6	\$968	\$11,040	\$4,794	\$380	\$4,056	\$1,860	\$127,253	\$125,953	\$1,300	\$239,775	32
79	41,107	9	2,370	8	1,212	13,082	4,808	820	6,486	1,018	52,795	50,119	2,676	144,644	33
266	178,667	36	11,204	11	1,231	80,829	6,910	2,350	65,093	6,476	105,961	99,807	6,154	437,853	34
11	5,586					989	12	20	357		9,962	9,940	22	21,018	35
47	24,720	1	260	1	156	5,163	3,022	676	1,465		71,452	71,302	150	122,393	36
8	1,800			1	156	1,715	1,310	95	310		2,312	2,292	20	9,500	37
51	31,577			5	1,934	5,936	2,848	1,052	1,376	210	72,418	71,789	629	164,625	38
86	26,803	5	1,500	6	680	9,977	1,884	304	7,789		33,602	33,527	75	93,895	39
6	2,650			4	800	1,789	1,480	159	1,150		5,600	5,580	20	16,785	40
14	12,718			2	100	5,933	3,786	941	1,706	100	3,179	7,932	247	45,644	41
220	127,841	105	25,827	7	1,206	43,371	11,345	6,244	21,782	4,000	579,296	566,360	12,936	953,612	42

ornamental, 1; jewelry, 1; lead, bar, pipe, and sheet, 1; marble and stone work, 1; masonry, brick and stone, 1; mattresses and spring beds, 2; oil, not elsewhere specified, 1; optical goods, 1; paper hanging, 1; pottery, terra cotta, and fire-clay products, 2; rubber and elastic goods, 1; salt, 1; scales and balances, 1; shirts, 1; show cases, 2; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; soap and candles, 1; taxidermy, 2; vinegar and cider, 1; whips, 1; wood, turned and carved, 2.

## UNDER 20,000 IN POPULATION: 1900.

1,171	\$719,762	245	\$57,990	83	\$13,741	\$202,685	\$32,492	\$26,361	\$141,453	\$2,379	\$1,949,899	\$1,805,051	\$34,843	\$3,009,898	1
61	25,775	9	1,466	4	468	4,650	593	598	3,459		98,892	97,133	1,759	172,101	2
70	103,214	2	450	1	140	68,660	576	4,896	48,208		368,847	362,198	36,649	721,931	3
105	48,378	65	12,424	11	1,279	14,453	4,054	2,869	7,222	508	218,491	214,651	8,840	375,055	4
731	446,086	102	21,560	33	4,454	97,050	19,265	12,978	62,751	2,061	946,719	923,508	23,211	1,801,487	5
20	12,451	2	754	2	326	3,952	1,748	369	1,825	10	23,264	22,185	1,079	72,172	6
169	77,542	63	20,792	32	7,074	23,931	3,056	3,332	17,543		216,444	204,766	11,678	431,120	7
12	6,316	2	544			4,969	3,200	1,324	445		77,242	70,610	6,632	95,432	8

# VERMONT.

Table 1 shows the manufacturing and mechanical industries of the state of Vermont 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.....	4,071	3,031	2,874	3,270	1,883	1,849	84.8	5.5	112.1	78.7	1.8
Capital.....	\$48,547,964	\$32,703,291	\$28,265,224	\$20,829,687	\$9,493,617	\$5,001,377	48.2	40.8	14.4	114.0	89.9
Salaried officials, clerks, etc., number.....	1,772	2,775	(*)	(*)	(*)	(*)	130.1				
Salaries.....	\$1,020,876	\$1,608,998	(*)	(*)	(*)	(*)	12.9				
Wage-earners, average number.....	29,455	22,119	17,540	18,686	10,497	8,445	33.2	26.1	16.1	78.0	24.3
Total wages.....	\$12,287,684	\$8,427,553	\$5,164,479	\$6,264,581	\$3,004,986	\$2,202,348	45.2	63.2	117.6	108.5	36.4
Men, 16 years and over.....	24,714	18,985	14,438	16,801	8,563	6,894	30.2	31.5	111.4	90.4	24.2
Wages.....	\$11,027,185	\$7,587,075	(*)	(*)	(*)	(*)	45.8				
Women, 16 years and over.....	4,473	2,745	2,271	1,872	1,934	1,551	63.1	20.9	21.3	13.2	24.7
Wages.....	\$1,166,491	\$784,156	(*)	(*)	(*)	(*)	48.8				
Children, under 16 years.....	203	389	881	513	(*)	(*)	132.4	158.2	62.0		
Wages.....	\$44,008	\$56,322	(*)	(*)	(*)	(*)	121.9				
Miscellaneous expenses.....	\$3,482,448	\$2,188,825	(*)	(*)	(*)	(*)	59.1				
Cost of materials used.....	\$29,858,824	\$20,493,174	\$18,830,677	\$17,007,769	\$7,608,858	\$4,172,552	46.1	11.5	7.8	123.5	82.4
Value of products, including custom work and repulping.....	\$57,623,815	\$38,840,066	\$31,854,866	\$32,184,606	\$14,637,807	\$8,570,920	50.3	22.3	12.6	119.9	70.3
Total population.....	343,641	332,422	332,286	330,551	315,098	314,120	3.4	(*)	0.5	4.9	0.3
Wage-earners engaged in manufactures.....	29,455	22,119	17,540	18,686	10,497	8,445	33.2	26.1	16.1	78.0	24.3
Per cent of total population.....	8.6	6.7	5.3	5.7	3.3	2.7					
Assessed value of real estate.....	\$118,950,024	\$112,895,125	\$71,436,623	\$30,993,100	\$65,639,978	\$57,820,369	5.4	58.0	111.8	28.4	14.5
Value of land and buildings invested in manufactures <sup>7</sup> .....	\$14,828,028	\$8,602,038	(*)	(*)	(*)	(*)	72.4				
Per cent of assessed value.....	12.5	7.6									

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 6.)

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

<sup>4</sup> Not reported.

<sup>5</sup> Less than one-tenth of 1 per cent.

<sup>6</sup> As given in State and City Supplement, Dana's Commercial and Financial Chronicle, April 13, 1901.

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

Table 1 reveals the generally steady growth of the manufacturing industries of Vermont during the half century, a growth which is striking when compared with the small increase of population.

The total population of the state in 1850 was 314,120, and in 1900, 343,641, an increase of only 29,521, or 9.4 per cent, while the average number of wage-earners employed in manufacturing establishments has increased from 8,445 in 1850, to 29,455 in 1900, or 248.3 per cent, embracing, in 1900, 8.6 per cent of the population as compared with 2.7 per cent in 1850. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 40,160, or 11.7 per cent of the total population of the state.

The increase in the value of products from 1850 to 1860 was 70.8 per cent; from 1860 to 1870, 119.9 per cent; from 1880 to 1890, 22.3 per cent; and from 1890 to 1900, 50.3 per cent. From 1870 to 1880, there was a decrease of 2.6 per cent. The values, however, for 1870 were expressed in a currency which was at a discount in gold, and should, therefore, be reduced about one-fifth for purposes of comparison with other census years.

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 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.

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.....	4,817	\$48,962,114	5,367	29,575	\$12,249,695	\$3,498,656	\$29,941,931	\$11,268,460	\$16,939,006	\$1,784,475	\$57,849,869
Hand trades <sup>1</sup> .....	1,470	1,941,500	1,627	2,409	1,028,435	200,586	1,766,003	16,061	1,676,190	73,752	4,811,933
Governmental establishment.....	1	38,598		4	2,097	183	17,868		16,143	1,715	29,098
Establishments with a product of less than \$500.....	745	875,552	793	116	9,914	16,025	65,249	5,823	59,348	78	190,956
All other establishments.....	2,601	46,606,404	2,947	27,046	11,209,249	3,281,862	28,092,821	11,246,568	15,187,825	1,658,980	53,811,882

<sup>1</sup> Includes bicycle and tricycle repairing, 40; blacksmithing and wheelwrighting, 618; boots and shoes, custom work and repairing, 161; carpentering, 78; clothing, men's, custom work and repairing, 68; clothing, women's, dressmaking, 86; dyeing and cleaning, 3; furniture, cabinetmaking, repairing, and upholstering, 50; lock and gun smithing, 5; masonry, brick and stone, 23; millinery, custom work, 154; painting, house, sign, etc., 90; paper hanging, 2; plumbing, and gas and steam fitting, 56; sewing machine repairing, 1; taxidermy, 3; watch, clock, and jewelry repairing, 31.

Of the 4,817 establishments of all classes, shown in this table, 2,215, or 46 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 \$4,508,889, or only 7.8 per cent of the total products of the state.

In addition to the 4,817 active establishments in the state during the census year, with a capital of \$48,962,114, shown in Table 2, there were 23 idle establishments, with a capital of \$104,160, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.
Foundry and machine shop products.....	2	\$12,000
Lumber, planing mill products, including sash, doors, and blinds.....	1	82,000
Marble and stone work.....	1	11,600
Paper and wood pulp.....	1	15,000
Woolen goods.....	3	13,870
All other industries.....	15	20,290

Comparative statistics for the 10 leading industries in Vermont are presented in Table 3.

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	1,618	\$29,260,101	15,000	\$6,681,018	\$1,645,682	\$20,052,558	\$84,866,777
	1890	1,413	20,804,840	13,688	5,018,498	1,116,308	13,778,997	28,947,027
Increase, 1890 to 1900.....		205	8,455,261	1,312	1,667,520	529,374	6,273,561	10,419,750
Per cent of increase.....		14.5	40.6	9.6	33.3	47.4	45.5	43.5
Per cent of total of all industries in state.....	1900	39.7	60.3	50.9	54.6	47.8	67.2	59.6
	1890	46.6	63.5	61.9	59.5	51.0	67.4	62.5
Cheese, butter, and condensed milk, factory product.....	1900	255	1,222,892	522	236,377	66,992	4,885,289	5,656,265
	1890	128	807,353	263	77,403	14,947	1,887,445	1,602,641
Flouring and grist mill products.....	1900	211	1,289,497	190	81,363	48,985	2,679,793	3,222,347
	1890	217	1,343,350	251	95,685	49,906	2,452,944	2,890,174
Foundry and machine shop products.....	1900	61	2,507,813	1,288	626,794	274,529	773,107	2,185,510
	1890	61	1,398,576	733	369,014	60,810	438,953	1,199,067
Hosiery and knit goods.....	1900	14	1,589,786	1,041	389,667	108,003	1,115,824	1,894,685
	1890	10	754,382	705	256,085	63,138	649,004	1,105,958
Lumber and timber products.....	1900	653	7,051,523	3,625	1,184,904	176,026	3,377,131	6,131,808
	1890	779	7,789,874	6,054	1,501,776	294,408	3,854,670	6,958,674
Lumber, planing mill products, including sash, doors, and blinds.....	1900	46	2,095,507	814	301,215	121,913	1,856,136	2,598,581
	1890	31	1,050,757	628	270,484	56,403	1,354,214	1,868,760
Marble and stone work.....	1900	54	3,608,111	1,773	912,614	183,696	805,476	2,484,551
	1890	46	998,286	1,353	674,817	102,907	582,202	1,656,637
Monuments and tombstones.....	1900	268	1,844,015	2,974	1,773,103	268,891	1,143,008	4,045,611
	1890	96	650,513	1,095	698,240	59,552	848,680	1,492,834
Paper and wood pulp.....	1900	27	4,853,806	1,216	571,018	265,669	1,684,922	3,384,773
	1890	21	3,151,911	1,065	487,529	235,742	1,280,722	2,449,049
Wool manufactures.....	1900	24	3,202,151	1,557	608,963	131,575	1,782,872	2,822,646
	1890	29	3,304,382	1,541	582,965	178,885	1,485,168	2,723,688

The 10 leading industries of the state in 1900, as shown in Table 3, embraced 1,618 establishments, or 39.7 per cent of the total number in the state; \$29,260,101, or 60.3 per cent of the total capital; 15,000, or 50.9 per cent of the total average number of wage-earners; \$6,681,018, or 54.6 per cent of the total wages; and \$34,366,777, or 59.6 per cent of the total products. In the discussion which follows, these industries are ranked with reference to the value of the products.

Table 3 shows that the manufacture of lumber and timber products is the most important in the state. The 658 establishments reported for this industry gave employment to 3,625 persons, or 12.3 per cent of the wage-earners in the state, and paid in wages \$1,184,904, or 9.7 per cent of the total wages of the state. The value of the products was \$3,131,808, or 10.6 per cent of the value of all the products of the state. In 1890 the establishments numbered 779, the wage-earners, 6,054, and the value of the products was \$6,958,674.

Allied to the manufacture of lumber and timber products is the manufacture of planing mill products, including sash, doors, and blinds. For this industry 46 establishments were reported, an increase of 48.4 per cent over 1890, when the number was 31. The number of wage-earners increased from 628 in 1890 to 814 in 1900, or 29.6 per cent; and the value of the products from \$1,868,760 to \$2,598,581, or 39.1 per cent. Sawmills were among the first mechanical establishments in the state. At the close of the Revolutionary War, Lake Champlain became the principal avenue of commerce between the settlements along the lake and Canada. Large quantities of pine and oak timber were cut in the forests that skirted the lake and larger rivers, and were floated in rafts by means of jury-mast and sail down the lake, thence by the Richelieu and St. Lawrence rivers to Quebec, and shipped to Europe.<sup>1</sup> With the removal of the natural barriers to navigation in the Richelieu River and the opening of the railroad from Burlington to the New England markets, Burlington became the center of a large lumber trade. In 1882 the sales of the Burlington lumber market amounted to 117,000,000 feet,<sup>1</sup> the city ranking third in importance as a lumber market in the United States. Since the establishment of all-rail connections from Canadian mills to the Boston market, permitting winter shipments and avoiding reshipment, there has been a gradual decrease in the city's lumber trade, which, however, still remains its most important industry.

Next in importance stands the factory manufacture of cheese, butter, and condensed milk. In the decade from 1890 to 1900 the number of establishments increased from 123 to 255, or 107.3 per cent; the capital from \$367,353 to \$1,222,892, or 232.9 per cent; the wage-earners from 263 to 522, or 98.5 per cent; and the products from \$1,602,641 to \$5,656,265, or 252.9 per cent.

The manufacture of monuments and tombstones is third in importance, and also shows a notable increase in all

particulars, the percentages of gain being nearly the same in number of establishments, average number of wage-earners, and value of products. In 1890, 96 establishments were reported, and in 1900, 268, an increase of 179.2 per cent. The wage-earners in 1890 numbered 1,095, and in 1900, 2,974, an increase of 171.6 per cent. The value of products in 1890 was \$1,492,384, and in 1900, \$4,045,611, an increase of 171.1 per cent. The showing for marble and stone work, an allied industry, is also satisfactory. The number of establishments in 1890 was 46, compared with 54 in 1900, an increase of only 17.4 per cent; but the value of products, \$1,656,637 in 1890, amounted to \$2,484,551 in 1900, an increase of 50 per cent. Both industries owe their importance to extensive quarries.<sup>2</sup> A large proportion of the marble used in the United States is obtained from quarries in Vermont. It was not until 1785 that the first quarry was opened by Isaac Underhill on land in Dorset. In 1805 a quarry was started in Middlebury. The largest producing quarries are on Otter Creek, Proctor and West Rutland being the principal quarrying towns. Quarries are operated at different points in the western part of the state, extending from Isle La Motte, where black marble is found, to Bennington county. These marbles are very beautiful in finish and texture. The manufacture of marble monuments as an important industry dates from 1808. The stock was first taken from the top or outer edge of the layers, where the strata could readily be split into sheets of suitable thickness. These sheets were cut down with a chisel into the desired shape. Marble was first sawed in South Dorset in 1818, and found a market in Boston, New York, Philadelphia, Cleveland, and intermediate points.

The quarrying of granite began in 1812.<sup>3</sup> During the past twenty-five years quarries have been opened in Barre, Hardwick, Williamstown, Dummerston, Berlin, Woodbury, and Ryegate.<sup>3</sup> The city of Barre had the largest per cent of increase in population of any place in the state in the last decade, due almost entirely to the development of these quarries and the manufactures allied to them.

It is interesting to note in this connection that the quarrying and cutting of slate is an important industry of southwestern Vermont. The first quarry was opened in 1839 at Fair Haven and was worked eight years before roofing slate was manufactured.<sup>4</sup> There were 23 establishments in the state in 1900 (see Table 6), engaged in the manufacture of roofing and roofing materials. These reported a capital of \$545,914; 1,604 wage-earners; and products valued at \$907,744. In 1890 there were only 2 establishments reported for the industry.

The 27 establishments reported in 1900 as engaged in the manufacture of paper and wood pulp had a capital of \$4,853,806, and gave employment to 1,216 wage-earners, with total wages of \$571,018. The products were valued at \$3,384,773. The increase over 1890 in number of estab-

<sup>1</sup>The New England States, Vol. III, pages 1514-1518.

<sup>2</sup>Report of the Vermont State Board of Agriculture, 1894, pages 293 and 295.

<sup>4</sup>History of Rutland county, Vermont, by H. P. Smith and W. S. Rann, pages 192 and 193.

<sup>1</sup>The New England States, edited by W. T. Davis, Vol. III, pages 1524-1526.

lishments was 28.6 per cent; in number of wage-earners, 14.2 per cent; and in value of products, 38.2 per cent. This industry is largely located at Bellows Falls on the Connecticut River, and is favored by unfailing waterpower and adjacent forests.

The manufacture of flouring and grist mill products in a total of 211 establishments, with a capital of \$1,289,497, gave employment to 190 wage-earners in 1900, and paid in wages \$81,868. The value of the products amounted to \$3,222,347. In 1890 there were 217 establishments having a capital of \$1,343,356; 251 wage-earners with total wages of \$95,685; and products valued at \$2,890,174.

In wool manufactures 24 establishments were reported in 1900, with a capital of \$3,202,151; 1,557 wage-earners, with total wages of \$608,963; and products valued at \$2,822,646. In 1890 there were 29 establishments having a capital of \$3,304,882, and products to the value of \$2,723,683. The pioneer woolen manufacturer was Joel Valentine, who began the business in 1824.<sup>1</sup>

The 61 establishments reported for the manufacture of foundry and machine shop products in 1900, had a capital of \$2,507,813; 1,288 wage-earners, with total wages of \$626,794; and products valued at \$2,185,510. While the number of establishments remained the same as in 1890, the capital was larger by 79.3 per cent, and the value of products increased 82.3 per cent.

The manufacture of hosiery and knit goods showed an increase in establishments from 10 in 1890 to 14 in 1900, or 40 per cent, and in value of products, an increase from \$1,105,958 in 1890 to \$1,834,685 in 1900, or 65.9 per cent.

Table 4 presents the totals for the manufacturing industries of the 21 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.

<sup>1</sup> The New England States, Vol. III, page 1551.

TABLE 4.—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 .....	4,071	\$48,547,964	4,574	29,455	\$12,237,684	\$3,482,448	\$29,858,824	\$57,623,815	-----	100.0	843,641	-----	100.0
Total for urban manufactures ..	1,617	26,861,298	1,885	17,617	7,665,220	2,518,564	14,779,810	31,861,298	-----	55.3	105,079	-----	30.6
Barre .....	239	1,343,544	366	2,123	1,815,790	215,116	998,625	3,242,274	2	5.6	8,448	8	2.5
Bennington .....	82	8,129,196	85	1,855	701,030	161,765	1,448,880	2,806,608	4	4.9	5,656	8	1.6
Brandon .....	61	205,045	69	239	83,472	11,816	168,691	326,249	19	0.6	2,759	15	0.8
Brattleboro .....	119	1,834,492	132	854	376,647	90,213	665,599	1,544,457	8	2.7	5,297	10	1.5
Burlington .....	196	5,066,377	199	2,794	1,068,188	1,064,709	3,761,186	7,094,688	1	12.3	13,640	1	5.4
Colchester .....	81	1,298,233	29	932	251,499	81,797	704,284	1,258,603	10	2.2	5,852	9	1.6
Derby .....	19	216,924	17	184	71,200	7,101	361,220	531,462	15	0.9	3,274	11	1.0
Fair Haven .....	62	381,736	77	846	137,056	13,391	213,330	488,858	16	0.8	2,470	16	0.7
Lyndon .....	38	159,129	42	71	20,501	24,352	91,049	221,290	20	0.4	2,956	13	0.9
Montpelier .....	121	960,624	153	1,019	510,450	60,065	614,969	1,591,958	7	2.8	6,266	4	1.8
Newport .....	23	293,336	34	245	84,837	19,504	353,444	549,522	14	0.9	1,874	19	0.5
Northfield .....	56	856,110	64	276	112,263	14,983	339,438	561,673	13	1.0	1,508	20	0.4
Poultney .....	49	437,666	58	349	112,639	11,789	190,564	405,379	18	0.7	3,108	12	0.9
Proctor .....	5	2,465	5	2	625	125	3,079	6,010	21	( <sup>1</sup> )	2,136	17	0.6
Rockingham .....	53	664,902	65	359	163,457	143,297	504,028	961,023	12	1.7	5,809	6	1.7
Rutland .....	136	2,112,530	207	1,791	773,304	133,616	1,044,566	2,456,677	5	4.3	11,499	2	3.4
St. Albans .....	79	1,192,735	78	1,178	519,292	98,355	1,034,772	1,850,590	6	3.2	6,239	5	1.8
St. Johnsbury .....	89	3,790,023	91	1,195	568,619	132,521	951,643	2,888,906	3	4.9	5,666	7	1.7
Springfield .....	46	945,356	40	602	280,195	76,870	540,859	1,210,286	11	2.1	2,040	18	0.6
Swanton .....	46	806,698	55	259	80,546	23,648	295,193	480,601	17	0.8	1,163	21	0.3
West Rutland .....	17	2,134,582	16	944	487,560	125,541	474,446	1,440,334	9	2.6	2,914	14	0.9
Total for state exclusive of urban manufactures ..	2,454	22,186,066	2,689	11,838	4,572,464	965,884	15,079,014	25,762,517	-----	44.7	238,562	-----	69.4
Per cent of urban manufactures to total for state .....	39.7	54.3	41.2	59.8	62.6	72.3	49.5	55.3	-----	-----	80.6	-----	-----

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

Of the 4,071 establishments in the state, 1,617, or 39.7 per cent, are located in these 21 cities and towns. The capital reported for these establishments is \$26,861,298, or 54.3 per cent of that for the entire state. They furnished employment to 17,617 wage-earners, or 59.8 per cent of the total number; paid \$7,665,220 in wages, or 62.6 per cent of the total amount; and the value of their products,

\$31,861,298, formed 55.3 per cent of the total for the state.

Table 5 shows the totals for the state by counties.

Table 6 shows the totals for the state by specified industries.

Table 7 shows the totals for all industries in the cities and towns withdrawn from the enumerators.

## STATISTICS OF MANUFACTURES.

TABLE 5.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of estab- lish- ments.	CAPITAL.					Propri- etors and firm mem- bers.	SALARIED OF- FICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple- ments.	Cash and sundries.		Num- ber.	Salaries.	Total.	
										Aver- age num- ber.	Wages.
1 The State	4,071	\$48,547,964	\$6,788,461	\$8,089,567	\$11,682,878	\$22,087,068	4,574	1,772	\$1,620,876	29,455	\$12,237,684
2 Addison	223	1,473,374	334,631	203,026	353,776	581,941	247	74	60,201	818	303,890
3 Bennington	235	5,841,846	708,740	806,122	1,397,825	2,428,658	241	146	156,601	2,894	1,075,539
4 Caledonia	320	5,282,545	532,765	1,046,274	1,081,013	2,622,493	370	183	130,443	2,089	986,984
5 Chittenden	383	7,178,072	497,674	1,107,053	1,073,225	3,900,120	388	308	302,249	4,175	1,434,046
6 Essex	71	1,611,014	726,726	266,425	206,012	311,851	75	20	16,250	477	160,119
7 Franklin	301	2,735,020	369,468	441,927	875,666	1,047,964	329	169	131,490	2,107	804,053
8 Grand Isle	18	40,865	1,000	11,250	20,140	8,475	14	1	120	10	5,611
9 Lamoille	166	994,757	203,470	133,785	220,590	431,912	189	21	12,888	548	196,421
10 Orange	230	741,286	78,263	166,518	225,285	271,220	247	40	16,302	498	194,680
11 Orleans	210	1,644,547	182,466	242,248	350,150	763,683	229	51	43,367	1,104	378,013
12 Rutland	588	6,706,800	1,429,860	1,270,591	1,396,712	2,609,637	673	310	242,264	5,598	2,278,636
13 Washington	606	3,846,308	468,307	440,692	914,674	2,022,635	796	145	115,692	3,933	2,129,735
14 Windham	356	6,612,572	834,482	1,167,593	1,862,368	2,748,129	399	186	185,382	2,690	1,209,757
15 Windsor	358	4,639,459	370,614	781,063	1,099,437	2,288,345	378	118	138,727	2,514	1,080,700

TABLE 6.—MANUFACTURES BY

1 All industries	4,071	\$48,547,964	\$6,788,461	\$8,089,567	\$11,682,878	\$22,087,068	4,574	1,772	\$1,620,876	29,455	\$12,237,684
2 Agricultural implements	17	484,277	20,500	64,700	67,775	331,301	19	24	13,207	211	85,846
3 Awnings, tents, and sails	8	7,760			2,600	5,260	5			11	5,600
4 Baskets, and rattan and willow ware	8	21,200	3,450	6,000	5,950	5,800	5			39	16,975
5 Bicycle and tricycle repairing	40	50,890	5,850	8,725	17,185	18,630	45	1	300	82	12,668
6 Blacksmithing and wheelwrighting	613	582,118	63,712	183,060	122,511	212,330	652	2	800	230	99,501
7 Bookbinding and blank book making	4	10,000			8,350	1,650	5			21	5,093
8 Boots and shoes, custom work and repairing	101	51,556	6,390	14,425	13,153	17,538	106	1	50	43	10,429
9 Boots and shoes, factory product	6	478,184	4,800	42,393	77,596	353,395	2	40	32,114	355	128,771
10 Bottling	7	89,120	4,600	11,000	17,100	6,420	8	3	1,296	20	9,216
11 Boxes, wooden packing	34	207,719	14,712	23,982	44,550	124,475	33	9	4,400	201	70,020
12 Bread and other bakery products	50	259,847	21,050	45,550	82,907	110,340	54	33	25,488	148	59,298
13 Brick and tile	15	99,238	14,700	23,520	14,525	46,553	15	5	3,864	116	42,722
14 Brooms and brushes	8	55,215	2,350	9,100	8,575	35,190	8	3	2,250	50	14,350
15 Carpentery	78	239,337	22,725	33,965	57,240	125,907	92	4	1,640	800	370,727
16 Carriages and wagons	86	857,035	41,000	105,550	55,010	155,475	105	3	1,275	196	95,516
17 Cars and general shop construction and repairs by steam railroad companies	7	711,261	92,100	274,200	216,458	128,503		32	23,744	779	446,017
18 Cheese, butter, and condensed milk, factory product	255	1,222,892	53,712	315,168	494,522	359,495	142	137	37,514	522	236,377
19 Clothing, men's, custom work and repairing	68	141,508	6,350	17,775	10,120	107,263	76	6	5,960	209	80,335
20 Clothing, men's, factory product	7	424,507	1,500	21,789	32,167	369,051	8	32	43,765	526	145,334
21 Clothing, women's, dressmaking	86	43,643	5,200	10,710	9,630	23,103	100	2	1,880	179	59,115
22 Clothing, women's, factory product	5	47,420	600	1,900	3,100	36,320	6	10	5,005	202	58,123
23 Confectionery	11	234,600	24,663	65,000	27,951	116,976	14	40	26,903	115	36,174
24 Cooperage	9	63,605	2,450	7,300	17,875	26,180	15			31	24,705
25 Cotton goods	5	1,932,983	188,754	451,745	790,312	496,172		20	26,579	1,015	259,758
26 Dyeing and cleaning	3	6,253	1,600	3,900	250	503	3			1	170
27 Electrical construction and repairs	5	13,032	300	2,000	2,500	13,232	7	3	751	15	5,266
28 Flouring and grist mill products	211	1,289,497	172,155	327,215	276,823	513,301	251	29	20,064	180	81,363
29 Food preparations	4	115,376	10,700	32,545	27,637	44,494	2	15	7,822	58	13,727
30 Foundry and machine shop products	61	2,507,813	224,061	292,726	600,557	1,330,469	53	143	135,895	1,288	629,734
31 Fruits and vegetables, canning and preserving	3	68,523		13,500	20,316	34,712	6	4	4,100	111	21,782
32 Fur goods	3	27,536			1,303	26,233	4	1	780	16	5,763
33 Furnishing goods, men's	4	85,574	300	7,000	21,505	56,769	1	36	22,027	200	46,939
34 Furniture, cabinetmaking, repairing, and upholstering	50	98,229	12,350	32,050	9,410	44,419	58	2	900	48	10,439
35 Furniture, factory product	24	1,040,223	34,000	225,245	221,187	559,701	24	61	61,146	937	358,342
36 Gas, illuminating and heating	7	477,099	28,950	48,000	341,277	58,872		13	6,515	15	7,837
37 Hardware	5	64,000	4,200	4,850	18,405	36,545	5	3	3,600	71	22,334
38 Hosiery and knit goods	14	1,589,786	21,300	92,380	485,822	990,284	9	32	42,024	1,041	339,567
39 House furnishing goods, not elsewhere specified	4	28,466	50	2,500	7,718	13,193	5	3	2,356	29	10,347
40 Kaolin and other earth grinding	3	19,550	1,600	12,500	2,200	3,250	2			22	6,017
41 Leather, tanned, curried, and finished	3	160,906	4,900	13,500	7,250	135,256	10	5	5,450	68	31,225
42 Lime and cement	13	176,825	51,900	31,450	19,925	73,550	17	2	1,400	132	57,257
43 Lock and gun smithing	5	4,532	100	800	2,540	1,092	6			2	430
44 Looking-glass and picture frames	14	15,400	150	400	1,725	13,125	16	3	625	11	3,808
45 Lumber and timber products	658	7,051,523	2,064,800	755,210	1,663,022	2,568,491	315	84	53,243	3,625	1,134,904
46 Lumber, planing mill products, including sash, doors, and blinds	46	2,095,507	130,625	276,029	213,282	1,466,571	54	53	52,568	314	301,215
47 Mantels, slate, marble, and marbleized	4	13,010	700	3,100	1,210	8,000	8	1	480	7	2,880
48 Marble and stone work	54	3,603,111	1,223,833	803,900	724,031	851,347	77	129	131,933	1,773	912,614
49 Masonry, brick and stone	29	23,398	2,400	4,400	8,422	8,171	37			159	75,959
50 Millinery, custom work	154	208,770	12,110	85,665	7,092	153,903	171	12	6,034	176	44,933
61 Mineral and soda waters	12	74,766	4,800	17,200	14,500	38,766	20	9	6,478	23	12,171

## BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.						COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.			
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.											
24,714	\$11,027,185	4,478	\$1,166,491	263	\$44,008	\$3,482,448	\$295,512	\$236,018	\$2,688,837	\$262,081	\$20,858,824	\$20,022,851	\$836,478	\$57,623,815	1	
730	284,197	79	17,478	9	1,715	52,813	9,599	5,668	37,056	50	803,779	780,453	17,326	1,567,740	2	
1,860	759,760	957	302,149	77	13,630	227,188	29,196	19,673	165,897	12,922	2,458,592	2,395,074	62,518	4,727,244	3	
2,015	968,890	70	17,528	4	566	212,510	16,388	23,964	180,744	41,464	2,118,821	2,066,052	47,769	4,934,108	4	
3,114	1,180,720	1,007	243,736	54	9,590	1,178,415	44,479	31,266	1,019,965	82,705	5,692,940	5,568,794	94,146	10,014,681	5	
876	134,042	89	23,238	12	2,844	87,153	2,455	4,863	29,885	-----	443,808	440,460	3,839	807,566	6	
1,653	724,443	438	77,606	16	2,004	190,406	18,592	13,582	158,563	4,669	2,166,795	2,105,417	61,378	3,775,284	7	
9	5,411	1	200	-----	-----	757	45	223	489	-----	116,670	114,214	2,456	136,450	8	
521	190,187	23	5,694	4	590	39,878	3,578	5,814	30,486	-----	809,012	802,403	6,609	1,279,504	9	
466	187,646	29	6,574	3	460	28,817	4,482	5,189	19,146	-----	851,049	831,175	16,874	1,344,326	10	
944	340,432	146	35,368	14	2,213	58,802	5,454	7,742	48,513	2,093	1,756,092	1,742,707	13,325	2,701,525	11	
5,014	2,150,022	557	115,965	27	3,640	361,172	60,501	37,233	244,387	19,051	3,156,367	3,080,207	117,160	7,408,312	12	
3,714	2,075,776	215	53,109	4	850	386,294	47,269	22,049	184,146	82,880	2,856,808	2,761,070	95,238	6,799,986	13	
2,272	1,083,697	402	124,105	16	1,955	492,434	33,777	33,339	421,996	3,322	3,404,997	3,199,205	205,792	6,887,640	14	
2,026	933,012	465	143,746	23	3,942	266,309	24,100	26,120	203,114	12,975	3,258,594	3,166,451	92,143	6,739,540	15	

## SPECIFIED INDUSTRIES: 1900.

24,714	\$11,027,185	4,478	\$1,166,491	263	\$44,008	\$3,482,448	\$295,512	\$236,018	\$2,688,887	\$262,081	\$20,858,824	\$20,022,851	\$836,478	\$57,623,815	1
204	84,124	7	1,722	-----	-----	15,909	169	2,303	13,437	-----	163,515	154,060	9,455	369,537	2
7	8,030	4	1,870	-----	-----	845	600	30	155	-----	10,225	9,991	235	23,000	3
37	15,475	2	500	-----	-----	2,130	-----	300	1,830	-----	6,019	6,040	-----	33,370	4
32	12,568	-----	-----	-----	-----	5,223	2,721	302	2,028	116	24,760	23,794	866	65,737	5
229	99,306	-----	-----	1	195	27,184	14,406	4,080	8,653	45	217,252	199,002	18,250	740,976	6
6	2,543	15	2,550	-----	-----	2,007	740	63	1,104	100	1,376	1,506	170	14,475	7
40	10,077	3	352	-----	-----	6,950	5,194	376	1,380	-----	86,960	35,611	1,349	105,650	8
199	86,719	155	41,952	1	100	25,970	1,060	547	24,318	45	561,786	558,555	3,231	792,707	9
20	9,216	-----	-----	-----	-----	5,810	372	243	4,695	-----	81,636	81,236	400	183,300	10
184	66,451	16	3,492	1	77	6,894	2,822	724	3,283	-----	183,084	184,705	3,379	264,286	11
120	51,731	24	6,880	4	687	27,889	9,688	2,514	15,159	28	206,419	196,688	9,781	417,269	12
114	42,622	-----	-----	1	100	5,474	495	493	2,880	1,000	18,287	1,532	10,765	99,525	13
47	14,250	-----	-----	3	400	6,513	603	5,910	5,910	-----	69,794	68,013	821	111,508	14
800	370,727	-----	-----	-----	-----	47,181	2,338	1,842	5,488	87,513	593,010	590,053	2,957	1,245,507	15
196	95,516	-----	-----	-----	-----	14,585	2,284	2,902	8,713	681	110,709	104,590	6,119	321,315	16
779	446,017	-----	-----	-----	-----	4,614	-----	2,092	2,522	-----	350,401	338,849	11,552	824,776	17
509	282,894	13	3,483	-----	-----	66,992	4,905	5,373	54,511	2,203	4,885,289	4,827,180	58,169	5,656,265	18
91	46,994	118	33,341	-----	-----	15,097	9,162	1,049	4,636	850	122,759	120,284	2,475	312,625	19
78	89,309	453	106,025	-----	-----	32,076	3,480	544	28,052	-----	359,813	356,843	2,970	728,652	20
4	2,050	175	37,065	-----	-----	8,196	6,658	272	1,241	25	54,222	52,089	2,133	168,259	21
26	7,475	176	45,048	-----	-----	2,076	375	126	1,575	-----	115,429	114,548	881	197,995	22
53	24,576	56	11,473	1	125	28,822	3,736	1,411	23,575	-----	119,750	119,750	5,120	284,259	23
81	24,705	-----	-----	-----	-----	2,039	80	141	1,813	-----	86,112	85,383	729	105,965	24
498	181,465	495	114,375	82	13,913	43,282	5,650	37,032	5,650	87,513	520,235	506,069	20,220	999,880	25
-----	-----	1	170	-----	-----	249	150	66	33	-----	304	150	164	1,968	26
15	5,266	-----	-----	-----	-----	1,859	1,280	57	522	-----	27,672	27,606	66	45,672	27
187	80,818	2	445	1	100	48,985	8,245	9,790	30,950	-----	2,679,793	2,668,099	11,694	3,232,347	28
32	9,480	21	4,247	-----	-----	42,248	100	46	42,102	-----	61,768	60,891	1,877	124,370	29
1,279	624,782	8	1,732	1	830	274,529	9,943	15,400	224,788	24,358	773,107	741,440	31,667	2,185,510	30
64	15,140	45	6,362	2	260	5,390	450	210	2,730	-----	83,361	82,161	1,200	166,184	31
6	8,329	10	2,434	-----	-----	1,638	1,175	150	813	-----	12,260	12,100	160	28,848	32
37	14,378	161	82,258	2	353	18,963	3,414	545	7,006	7,398	82,063	81,052	1,011	191,027	33
45	19,066	2	283	1	90	5,298	3,492	918	3,888	-----	43,299	41,810	1,489	100,112	34
944	348,944	15	3,136	28	6,262	69,167	6,660	3,267	53,929	5,311	555,448	544,238	11,210	1,252,743	35
15	7,837	-----	-----	-----	-----	15,960	175	2,675	11,100	-----	20,191	19,054	1,137	71,015	36
42	16,736	27	5,139	2	459	3,134	470	114	1,850	1,200	89,439	87,764	1,675	91,325	37
887	161,507	651	227,842	3	313	108,006	12,519	3,220	92,267	-----	1,115,324	1,093,073	22,251	1,834,685	38
22	8,984	7	1,413	-----	-----	3,018	659	231	2,288	440	34,456	33,541	945	54,515	39
22	6,017	-----	-----	-----	-----	446	-----	121	325	-----	8,847	8,487	410	21,450	40
68	31,225	-----	-----	-----	-----	10,694	1,000	887	8,807	-----	300,162	297,371	2,791	365,099	41
182	57,257	-----	-----	-----	-----	9,367	10	841	8,516	-----	95,552	50,440	45,112	207,524	42
2	480	-----	-----	-----	-----	632	427	12	193	-----	1,036	924	112	4,648	43
11	3,808	-----	-----	-----	-----	2,186	1,254	134	788	-----	14,884	14,691	193	31,177	44
3,480	1,166,227	99	13,411	40	5,263	176,026	9,444	40,001	126,581	-----	3,877,131	3,870,536	595	6,131,803	45
794	297,819	14	2,470	6	926	121,913	2,385	6,264	100,644	12,620	1,856,186	1,847,619	8,517	2,598,581	46
7	2,880	-----	-----	-----	-----	474	98	45	331	-----	12,882	12,627	255	26,708	47
1,773	912,614	-----	-----	-----	-----	189,696	5,915	22,396	145,460	9,425	805,476	776,375	29,101	2,484,551	48
159	75,959	-----	-----	-----	-----	13,412	815	330	947	12,420	44,736	44,500	236	175,186	49
2	1,335	173	43,523	1	75	30,000	21,452	1,358	7,190	-----	211,755	208,928	2,827	404,676	50
26	11,776	1	300	1	95	3,703	1,180	378	2,150	-----	45,383	44,811	572	104,565	51

TABLE 6.—MANUFACTURES BY

	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.
52	Monuments and tombstones .....	268	\$1,844,015	\$142,400	\$193,561	\$428,905	\$1,079,149	450	86	\$78,291	2,974	\$1,773,103
53	Painting, house, sign, etc. ....	90	75,414	7,690	18,965	13,095	35,664	99			226	108,701
54	Paper and wood pulp .....	27	4,863,806	1,162,959	997,046	1,878,484	1,814,717	16	88	129,498	1,216	571,018
55	Patent medicines and compounds ..	24	753,291	29,575	103,450	74,405	550,861	20	98	160,482	279	110,150
56	Paving and paving materials .....	8	18,489	2,500	700	5,430	4,809	3			23	10,280
57	Photography .....	70	110,461	8,800	27,725	48,889	25,097	72			35	12,930
58	Pickles, preserves, and sauces .....	8	48,520	3,700	5,000	18,350	21,470	9	8	1,550	18	6,877
59	Plumbing, and gas and steam fitting ..	56	298,456	20,700	38,250	36,625	207,881	72	25	12,006	249	133,071
60	Printing and publishing, book and job ..	41	176,447	2,450	8,475	104,300	61,222	47	22	14,710	145	68,251
61	Printing and publishing, newspapers and periodicals.	61	500,698	25,987	52,208	283,029	139,474	54	71	50,185	486	176,748
62	Roofing and roofing materials .....	28	545,914	123,797	57,360	181,155	233,609	37	39	26,310	1,604	542,086
63	Saddlery and harness .....	124	153,405	12,472	30,435	18,783	91,715	185	2	575	78	31,999
64	Shoddy .....	3	245,982	11,200	25,800	15,500	193,482	4	1	1,000	93	45,345
65	Soap and candles .....	7	28,280	5,050	11,600	5,075	5,955	7	1	1,000	12	4,550
66	Taxidermy .....	3	4,875	50	500	175	4,150	3				
67	Tinsmithing, coppersmithing, and sheet-iron working.	87	298,555	15,355	75,650	42,925	164,625	102	16	10,694	190	70,863
68	Tobacco, cigars and cigarettes .....	21	42,941	805	1,325	2,560	38,251	23	2	1,728	52	26,226
69	Tools, not elsewhere specified .....	5	27,254	510	1,040	8,384	17,320	6	3	1,800	14	8,180
70	Toys and games .....	3	95,880	3,125	26,500	21,815	44,440		9	7,954	121	52,027
71	Vinegar and cider .....	26	23,885	1,395	7,055	11,570	3,865	26			9	2,460
72	Watch, clock, and jewelry repairing ..	91	106,541	6,950	14,900	35,003	49,688	104			49	23,501
73	Wirework, including wire rope and cable.	8	60,105	10,400	11,200	14,005	24,500	4	2	6,500	38	13,660
74	Wood, turned and carved .....	25	251,840	10,175	30,865	48,750	162,050	32	9	9,250	265	89,646
75	Woodenware, not elsewhere specified ..	6	41,254	3,200	9,600	14,300	14,154	7	2	1,200	51	15,792
76	Woolen goods .....	23	3,001,547	133,625	473,114	731,290	1,668,313	21	51	70,008	1,484	577,219
77	All other industries .....	62	6,315,794	376,040	1,096,026	1,221,336	3,621,886	44	187	209,755	2,767	1,176,887

<sup>1</sup> Embraces boxes, cigar, 1; boxes, fancy and paper, 2; brass castings and brass finishing, 1; carriage and wagon materials, 1; carriages and sleds, children's, 2; cars and general shop construction and repairs by street railroad companies, 1; chemicals, 2; clocks, 2; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 2; cutlery and edge tools, 1; electroplating, 1; explosives, 1; grease and tallow, 1; hardware, saddlery, 1; hones and whetstones, 1; instruments, professional and scientific, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; ironwork, architectural and ornamental, 1;

TABLE 7.—MANUFACTURES IN CITIES AND

	Total for cities and towns	1,617	\$26,861,298	\$2,462,445	\$4,134,918	\$9,172,746	\$13,591,194	1,885	1,161	\$1,187,806	17,617	\$7,065,220
2	Barre	289	1,843,544	95,100	140,340	829,512	778,692	866	55	47,724	2,123	1,315,790
3	Bennington	82	3,129,196	161,475	556,330	899,289	1,722,052	85	38	101,805	1,855	701,030
4	Brandon	61	205,645	36,880	28,540	58,849	81,376	69	11	5,414	239	89,472
5	Brattleboro	119	1,834,492	61,175	200,812	275,357	797,148	132	63	68,861	854	370,647
6	Burlington	196	5,066,377	308,512	727,437	1,187,553	2,892,375	199	248	301,689	2,794	1,008,188
7	Colchester	31	1,298,233	91,529	206,561	321,893	678,250	29	42	41,115	932	251,499
8	Derby	19	215,924	7,250	37,850	62,750	108,574	17	10	9,490	184	71,400
9	Fair Haven	62	381,736	86,038	72,766	102,238	120,704	77	12	7,805	846	137,056
10	Lyndon	38	159,129	17,250	51,500	15,859	74,520	42	39	18,424	71	20,501
11	Montpelier	121	950,624	80,100	93,400	264,268	612,856	153	57	53,433	1,019	610,450
12	Newport	23	298,886	12,100	32,523	70,813	177,900	34	12	16,016	245	84,837
13	Northfield	56	356,110	26,345	51,891	81,075	195,199	64	11	9,100	270	112,254
14	Poultney	49	437,056	119,425	66,275	85,090	166,866	58	9	7,530	349	112,689
15	Proctor	5	2,405	450	810	805	900	5			2	223
16	Rockingham	53	664,902	15,170	77,053	208,053	364,026	65	47	33,920	859	163,457
17	Rutland	186	2,112,580	200,374	323,996	421,285	1,161,875	207	189	103,563	1,791	773,304
18	St. Albans	79	1,192,785	97,252	202,097	438,869	404,517	76	95	78,499	1,178	619,232
19	St. Johnsbury	39	3,790,023	220,875	735,804	731,234	2,102,115	91	98	93,105	1,135	568,619
20	Springfield	46	885,356	77,420	128,438	174,938	604,450	40	38	47,002	602	286,145
21	Swanton	40	306,098	54,225	50,050	66,386	135,437	55	27	17,280	259	80,546
22	West Rutland	17	2,134,682	703,500	545,250	376,470	509,362	16	67	74,925	944	467,560



## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
2,971	\$1,772,565			8	\$538	\$268,891	\$29,625	\$7,652	\$125,524	\$105,590	\$1,143,008	\$1,075,342	\$67,666	\$4,045,611
226	108,701					6,505	3,369	332	2,804		81,404	80,311	1,158	266,177
1,129	545,066	86	\$25,794	1	158	265,569	975	26,806	287,313	975	1,684,922	1,477,658	207,264	3,884,773
124	69,991	154	30,994	1	165	806,800	2,234	6,137	797,404	1,585	690,610	685,634	4,976	2,125,016
23	10,280					1,980	70	79	1,840		10,126	9,186	990	27,864
19	7,052	16	5,881			12,458	7,626	460	4,022	350	37,068	35,314	1,754	123,154
18	5,077	6	1,800			1,933	705	203	1,025		25,717	24,586	1,181	43,808
247	132,636	1	260	1	175	17,499	7,599	1,942	7,958		810,278	806,901	3,877	603,361
103	48,848	36	8,913	3	490	16,696	6,797	798	8,801	800	72,967	68,914	4,058	230,120
280	133,532	144	41,445	12	1,771	53,113	9,717	2,783	82,013	8,600	115,285	108,209	9,076	546,991
1,596	510,756			8	1,830	33,916	19,360	1,646	12,910		175,196	121,008	54,193	907,744
78	51,999					11,821	6,890	1,097	3,274	60	107,874	105,633	2,226	229,795
67	88,142	26	7,208			7,609		1,168	8,441		268,712	263,034	5,678	382,852
11	4,500			1	50	1,978	850	203	1,425		10,141	9,426	715	26,110
						255	205	5	45		465	350	116	2,925
189	70,618	1	250			10,503	6,028	2,755	7,695	25	170,616	166,885	3,781	349,898
47	25,136	4	974	1	116	11,869	2,620	815	8,484		80,700	80,218	482	86,223
14	8,180					1,062	400	102	500		16,921	15,067	1,854	38,150
109	48,593	9	2,931	3	500	1,950	800	319	831		49,955	49,156	799	152,688
9	2,460					441	160	144	147		16,171	15,906	265	36,918
44	22,541	4	1,000	1	50	18,197	8,147	862	4,128	60	20,185	18,641	1,544	105,404
30	12,600	8	1,060			1,471		329	1,142		34,993	34,666	327	63,486
262	87,538	12	1,828	1	280	11,074	2,181	1,266	7,627		182,839	129,216	3,623	305,425
46	14,732	5	1,000			2,102	860	214	1,528		20,676	19,911	765	56,755
1,030	435,955	427	135,982	27	5,812	98,541	7,000	10,452	81,014	75	1,554,625	1,505,601	48,924	2,572,646
2,158	1,039,733	591	134,217	18	2,937	265,302	8,797	25,368	203,613	27,584	1,964,682	1,909,720	54,962	4,971,708

kindling wood, 1; lard, refined, 2; lasts, 2; mattresses and spring beds, 2; musical instruments, organs and materials, 2; musical instruments, pianos and materials, 1; needles and pins, 1; paints, 2; paper goods, not elsewhere specified, 2; paper hanging, 2; perfumery and cosmetics, 1; photographic materials, 1; pottery, terra cotta, and fire-clay products, 1; pumps, not including steam pumps, 1; refrigerators, 1; scales and balances, 2; sewing machine repairing, 1; ship and boat building, wooden, 2; shirts, 2; sporting goods, 2; sugar and molasses, refining, 1; surgical appliances, 1; window shades, 1; wool pulling, 2; worsted goods, 1.

## TOWNS UNDER 20,000 IN POPULATION: 1900.

14,111	\$6,776,287	8,886	\$368,704	120	\$20,229	\$2,516,564	\$200,020	\$126,011	\$1,962,591	\$318,942	\$14,779,810	\$14,416,855	\$362,955	\$31,861,298	1
2,089	1,305,069	81	10,224	8	500	215,116	25,226	7,191	111,799	70,900	993,625	937,536	56,089	8,242,274	2
994	429,732	840	267,178	21	4,120	161,755	25,811	8,131	114,891	12,922	1,443,880	1,407,233	36,647	2,805,608	3
195	75,856	33	6,440	11	1,170	11,816	2,441	997	6,517	1,861	158,691	155,681	3,010	326,249	4
581	289,374	263	85,999	10	1,274	90,213	18,851	6,400	63,055	1,907	665,599	644,398	21,201	1,544,457	5
2,058	836,887	690	162,867	46	8,484	1,064,709	38,193	22,117	954,228	50,171	3,751,186	3,696,421	54,765	7,094,538	6
623	177,943	303	72,650	6	926	81,797	1,595	4,859	48,459	27,384	764,284	750,042	14,242	1,258,603	7
181	70,600			3	600	7,101	1,828	1,139	4,634		351,220	350,196	1,024	531,462	8
303	128,097	41	8,500	2	459	13,891	2,778	1,628	6,830	2,155	213,330	204,439	8,891	453,358	9
54	17,038	16	8,328	1	185	24,352	1,913	1,084	21,055	300	91,049	90,998	556	221,280	10
919	485,566	99	24,584	1	850	66,065	17,779	5,971	87,435	4,880	614,969	591,509	23,460	1,591,958	11
184	73,279	54	10,061	7	807	19,504	2,097	1,263	16,144		353,444	349,182	4,262	549,522	12
209	97,848	67	14,420			14,983	1,410	1,554	12,019		339,438	333,950	5,488	561,673	13
843	111,719	6	970			11,789	4,065	903	6,271	550	190,504	181,442	9,122	405,379	14
		2	625			125	75	19	81		3,079	3,000	79	6,010	15
824	152,927	34	10,426	1	104	143,297	8,914	3,817	180,746	320	504,028	490,466	13,562	961,023	16
1,835	676,968	451	95,651	5	690	133,616	31,655	9,923	81,513	10,525	1,044,566	1,014,060	30,506	2,456,677	17
900	465,421	278	58,871			98,855	7,438	5,942	81,770	3,199	1,034,772	1,012,590	22,182	1,850,590	18
1,149	556,141	45	12,310	1	168	132,521	9,292	17,477	82,764	22,968	951,643	925,246	26,397	2,338,906	19
536	267,577	65	18,288	1	330	76,870	4,920	8,902	54,148	8,900	540,859	527,916	12,943	1,210,286	20
192	71,023	66	9,451	1	72	23,643	3,006	1,841	13,801		295,193	276,881	18,312	480,601	21
942	487,235	2	325			125,541	233	15,853	109,465		474,446	473,634	812	1,440,334	22

# VIRGINIA.

Table 1 shows the manufacturing and mechanical industries of Virginia as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing establishments,

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

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

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	8,248	5,915	5,710	5,983	5,885	4,740	39.4	8.6	13.8	10.2	13.6
Capital	\$103,070,988	\$63,456,799	\$26,908,990	\$18,455,400	\$20,995,560	\$18,109,148	63.4	135.3	46.1	181.5	43.7
Salaried officials, clerks, etc., number	4,198	20,025	(8)	(8)	(8)	(8)	130.3	0.6			
Salaries	\$3,846,072	\$3,827,920	(8)	(8)	(8)	(8)	0.6				
Wage-earners, average number	72,702	53,566	40,184	26,974	36,174	29,110	85.7	33.3	49.0	125.4	24.3
Total wages	\$22,446,720	\$15,816,930	\$7,425,261	\$5,843,099	\$8,544,117	\$5,434,476	41.9	118.0	39.0	137.5	57.2
Men, 16 years and over	56,341	40,664	28,779	22,175	32,606	25,790	88.6	41.3	29.8	182.0	26.4
Wages	\$20,038,339	\$14,019,080	(8)	(8)	(8)	(8)	42.9				
Women, 16 years and over	12,197	9,655	6,144	2,259	3,568	3,320	26.3	57.1	172.0	136.7	7.5
Wages	\$1,908,989	\$1,518,409	(8)	(8)	(8)	(8)	29.3				
Children, under 16 years	4,164	3,247	5,261	2,540	(8)	(8)	28.2	138.3	107.1		
Wages	\$443,382	\$279,441	(8)	(8)	(8)	(8)	58.7				
Miscellaneous expenses	\$12,264,002	\$7,421,087	(8)	(8)	(8)	(8)	65.3				
Cost of materials used	\$74,851,767	\$50,148,285	\$32,883,938	\$23,832,884	\$30,840,581	\$18,101,181	49.3	62.5	38.0	122.7	70.4
Value of products, including custom work and repairing	\$132,172,910	\$88,563,824	\$51,780,992	\$38,864,322	\$50,652,124	\$29,002,507	49.6	70.6	35.0	124.8	71.1
Total population	1,854,184	1,655,980	1,512,565	1,225,163	1,596,318	1,421,661	12.0	9.5	23.5	128.3	12.3
Wage-earners engaged in manufactures	72,702	53,566	40,184	26,974	36,174	29,110	35.7	33.3	49.0	125.4	24.3
Per cent of total population	3.9	3.2	2.7	2.2	2.3	2.0					
Assessed value of real estate	\$816,563,279	\$272,311,276	\$233,601,599	\$279,116,017	\$417,952,228	\$252,105,824	16.3	16.6	116.3	188.2	65.3
Value of land and buildings invested in manufactures <sup>1</sup>	\$29,909,532	\$10,614,283	(8)	(8)	(8)	(8)	80.0				
Per cent of assessed value	9.4	6.1									

<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.

Although Virginia is an agricultural state, Table 1 shows that there has been a considerable growth in its manufacturing and mechanical industries during the half century. The population during these years increased from 1,421,661 to 1,854,184, or 30.4 per cent, while the average number of wage-earners employed in manufacturing establishments increased from 29,110 to 72,702, or 149.7 per cent, embracing, in 1900, 3.9 per cent of the entire population, compared with 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 100,033, or 5.4 per cent of the total population of the state. Measured by the value of products, the greatest percentage of increase, 71.1, was during the decade ending with 1860, although the greatest absolute increase, \$43,809,086, was between the years 1890 and 1900. The decrease shown for the decade, 1860 to 1870, is due in part to the setting off of West Virginia from Virginia, December 31, 1862.

The iron mines, forests, and tobacco and cotton fields of the state of Virginia furnish abundant raw materials for manufactures. Its waterpower is extensive, and has been developed largely at Fredericksburg and at Petersburg, and

more especially at Richmond, where a 5,000-horsepower plant was erected recently. The best of steam coal is found in large quantities in the Pocahontas field in the western part of the state, while the Potomac, Rappahannock, James, and York rivers, navigable for 352 miles, together with the 70 miles of sheltered coast line along Chesapeake Bay, afford facilities for the cheap shipment of products to domestic and foreign markets. Manufactures during the last decade were greatly stimulated by the development of railways, the mileage having increased from 2,821 miles in 1889 to 3,684 miles in 1899.<sup>1</sup> Industrial education is afforded by the Virginia Agricultural and Mechanical College and Hampton Institute.

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, 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> Interstate Commerce Commission: Statistics of Railways, 1889, page 11; and 1899, page 12.

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	12,177	\$111,035,752	13,552	76,003	\$24,157,387	\$12,338,124	\$75,916,854	\$34,182,219	\$36,654,262	\$5,079,378	\$185,593,412
Hand trades <sup>1</sup>	2,623	3,246,850	2,954	6,181	2,346,778	1,259,304	4,879,770	59,919	4,705,231	114,620	11,819,905
Governmental establishment	1	6,880,307		2,094	1,659,214	4,625	764,558		787,498	27,060	2,498,553
Educational, eleemosynary, and penal institutions	6	22,648	1	58	10,917	80	16,866	220	16,188	458	41,630
Establishments with a product of less than \$500.	3,922	961,254	4,130	1,154	41,486	68,617	233,173	87,230	195,948		880,819
All other establishments	6,625	100,424,138	6,467	66,511	20,098,917	11,005,298	69,971,987	34,084,850	30,999,402	4,937,735	120,883,005

<sup>1</sup>Includes bicycle and tricycle repairing, 63; blacksmithing and wheelwrighting, 889; boots and shoes, custom work and repairing, 283; carpentering, 284; clothing, men's, custom work and repairing, 164; clothing, women's, dressmaking, 128; dyeing and cleaning, 27; furniture, cabinetmaking, repairing, and upholstering, 91; lock and gun smithing, 21; masonry, brick and stone, 56; millinery, custom work, 167; painting, house, sign, etc., 118; paper hanging, 28; plastering and stuccowork, 27; plumbing, and gas and steam fitting, 117; sewing machine repairing, 5; taxidermy, 1; typewriter repairing, 3; watch, clock, and jewelry repairing, 151.

Of the 12,177 establishments of all classes shown in this table, 6,545, 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

\$12,200,224, or only 9 per cent of the total value of the products of the state.

In addition to the 12,177 active establishments in the state during the census year, with a capital of \$111,035,752, shown in Table 2, there were 112 idle establishments, with a capital of \$1,884,479, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Brick and tile	19	\$156,174	Patent medicines and compounds	1	\$37,000
Carriages and wagons	2	30,400	Pottery, terra cotta, and fire-clay products	4	69,750
Chemicals	1	78,000	Roofing and roofing materials	1	40,800
Flouring and grist mill products	16	14,545	Tobacco, chewing, smoking, and snuff	2	17,500
Iron and steel	9	1,295,162	Woolen goods	1	86,000
Leather, tanned, curried, and finished	3	36,500	Zinc, smelting and refining	1	17,500
Lumber and timber products	22	28,035	All other industries	27	10,813
Lumber, planing mill products, including sash, doors, and blinds	8	16,300			

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	3,634	\$54,074,182	37,838	\$11,243,302	\$8,515,553	\$17,988,020	\$79,657,265
	1890	2,445	38,078,712	32,256	8,440,187	5,951,212	36,125,779	58,331,204
Increase, 1890 to 1900		1,189	15,995,470	5,577	2,803,115	2,564,341	11,862,241	21,326,061
Per cent of increase		48.6	42.0	17.3	33.2	48.1	32.8	36.6
Per cent of total of all industries in state	1900	44.1	52.2	52.0	50.1	66.4	64.1	60.3
	1890	41.3	60.0	60.2	53.4	80.2	72.0	66.0
Cars and general shop construction and repairs by steam railroad companies.	1900	28	1,733,389	4,922	2,452,195	45,406	3,581,283	6,277,279
	1890	8	583,022	1,643	833,254		658,011	1,504,995
Fertilizers	1900	39	4,908,881	1,171	320,774	806,882	2,161,423	3,415,850
	1890	28	1,795,303	600	163,767	84,556	1,739,138	2,475,638
Flouring and grist mill products	1900	1,726	4,682,688	790	328,893	145,014	10,514,301	12,687,267
	1890	1,179	5,498,057	1,475	833,454	279,669	9,849,144	11,716,356
Foundry and machine shop products	1900	80	6,963,491	2,912	1,340,143	158,129	2,665,062	4,838,137
	1890	59	3,238,122	1,971	914,318	129,639	1,262,227	2,739,045
Iron and steel	1900	20	6,686,696	3,097	980,587	248,314	5,498,072	8,841,888
	1890	21	5,655,993	3,010	1,117,452	373,749	4,404,452	6,326,084
Leather, tanned, curried, and finished	1900	65	4,032,387	889	313,677	252,548	3,695,817	4,716,920
	1890	82	945,014	401	121,073	85,156	805,437	1,224,800
Lumber and timber products	1900	1,841	9,299,046	7,611	2,144,382	327,615	6,763,831	12,137,177
	1890	603	4,427,627	5,973	1,244,633	237,389	2,926,474	5,690,600
Lumber, planing mill products, including sash, doors, and blinds	1900	88	1,618,158	1,333	467,962	163,814	1,025,501	2,686,893
	1890	65	1,536,966	1,136	444,743	82,994	1,262,291	2,350,281
Textiles:								
Total	1900	35	5,136,733	3,293	772,329	157,953	1,808,991	3,282,583
	1890	44	3,812,110	2,889	408,021	140,537	1,574,753	2,342,457
Cotton goods	1900	7	4,403,206	2,931	668,556	135,173	1,412,332	2,655,002
	1890	9	2,966,889	1,990	378,993	102,565	1,199,578	1,732,648
Woolen goods	1900	28	783,527	362	103,773	22,780	391,659	627,581
	1890	35	845,221	399	94,028	43,972	375,175	600,809

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

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Tobacco:								
Total	1900	212	\$8,963,213	11,815	\$2,122,860	\$6,710,878	\$9,728,079	\$21,278,286
	1890	296	10,596,498	13,658	2,749,467	4,568,523	11,709,802	22,020,298
Chewing, smoking, and snuff	1900	69	5,728,857	6,061	1,082,226	4,069,746	4,082,291	10,707,766
	1890	93	6,840,276	9,769	1,841,151	8,387,684	4,825,482	11,804,813
Cigars and cigarettes	1900	89	2,780,261	2,595	586,115	2,480,961	1,192,583	4,848,641
	1890	102	1,809,416	2,259	604,837	1,048,290	1,463,878	3,727,842
Stemming and rehandling	1900	54	2,454,595	3,159	454,019	160,171	4,453,205	5,726,859
	1890	101	1,886,806	1,680	308,479	182,599	5,420,492	6,487,643

The 10 leading industries of the state in 1900, as shown in Table 3, embraced 3,634 establishments, or 44.1 per cent of the total number in the state; used a capital of \$54,074,182, or 52.2 per cent of the total; gave employment to 37,833 wage-earners, or 52 per cent of the total number; and paid \$11,243,302, or 50.1 per cent of the total wages. The value of their products was \$79,657,265, or 60.3 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 tobacco is the most important industry in the state. The 212 establishments reported in 1900 gave employment to 11,815 wage-earners, or 16.8 per cent of the wage-earners employed in the state, and the products were valued at \$21,278,286, or 16.1 per cent of the total value of the products of the state. In 1890 there were 296 establishments, 13,658 wage-earners, and products valued at \$22,020,298. The decrease in the value of products during the decade was \$742,032, or 3.4 per cent. The economic history of colonial Virginia is essentially a record of its tobacco culture. In 1619, 20,000 pounds of tobacco were exported, and in 1642 this staple was made the sole legal-tender currency in the colony.<sup>1</sup> Danville, Lynchburg, and Richmond are now among the largest tobacco markets in the United States, their combined sales in 1898 amounting to 11.1 per cent of the production of the country.<sup>2</sup> This abundant supply of raw material naturally caused the development of tobacco manufactures at an early date. At the census of 1810, 2,726,713 pounds of manufactured tobacco and snuff were reported. In 1899 the state ranked fifth in the manufacture of chewing and smoking tobacco.<sup>3</sup> During the last decade the value of products in this branch of the industry, including snuff, decreased from \$11,804,813 to \$10,707,766. The cigarette manufacture at Richmond began about 1874<sup>4</sup> and has had a steady growth. The climate is well suited to the handling of the tobacco leaf, and considerable quantities of Connecticut, Pennsylvania, and Havana leaf are brought into the state to be manufactured into cigars.<sup>5</sup>

ties of Connecticut, Pennsylvania, and Havana leaf are brought into the state to be manufactured into cigars.<sup>5</sup>

The manufacture of flouring and grist mill products ranked second among the industries of the state in 1900, with 1,726 establishments, 790 wage-earners, and products valued at \$12,687,267. In 1890 there were 1,179 establishments, 1,475 wage-earners, and products valued at \$11,716,356. The increase in the value of products during the decade was \$970,911, or 8.3 per cent. Flour and grist milling began in Virginia in 1621, when a windmill was built by Governor Yeardley.<sup>6</sup> The large wheat production of the state, 6,330,450 bushels in 1899,<sup>7</sup> has been for many years more than sufficient for local consumption, and large quantities of flour have been exported to the West Indies, South America, Africa, and Europe.<sup>8</sup> For many years it was believed that only Virginia flour could stand a tropical climate without detriment.

There were 1,841 establishments engaged in 1900 in the manufacture of lumber and timber products, the industry third in rank, with 7,611 wage-earners, and products valued at \$12,137,177. In 1890 there were 663 establishments, 5,973 wage-earners, and products valued at \$5,630,600. The increase in the value of products during the decade was \$6,506,577, or 115.6 per cent. The forests of Virginia early attracted the attention of settlers, and in 1608, the year following the founding of Jamestown, one of the Virginia Company's ships returning to England carried a cargo of iron ore, cedar posts, and walnut boards.<sup>9</sup> Trained workmen were brought from Hamburg, and by 1630 sawmills were in operation.<sup>10</sup> In 1897 forests covered 23,400 square miles, or 58 per cent of the land area of the state.<sup>11</sup> Longleaf and loblolly pine constitute about 75 per cent of the standing timber of the state.<sup>12</sup> The mills which saw this timber are located chiefly near Norfolk and along the James River, and, in addition to the

<sup>1</sup> Money and Banking, by Horace White, page 30.

<sup>2</sup> Treasury Department: Monthly Summary of Commerce and Finance for October, 1901, page 1875. Yearbook of the Department of Agriculture, 1900, page 820.

<sup>3</sup> Treasury Department: Report of the Commissioner of Internal Revenue, 1900, page 40.

<sup>4</sup> Richmond, Its Trade, Commerce, and Manufactures, 1884; published by Land & Thompson, page 45.

<sup>5</sup> Richmond, Its Trade, Commerce, and Manufactures, page 45.

<sup>6</sup> Economic History of Virginia, by P. A. Bruce, Vol. II, page 487.

<sup>7</sup> Yearbook of the Department of Agriculture, 1899, page 700.

<sup>8</sup> Richmond, Its Trade, Commerce, and Manufactures, page 48.

<sup>9</sup> Tenth Census of the United States, Manufactures, folio 792.

<sup>10</sup> Economic History of Virginia, Vol. II, pages 430 and 491.

<sup>11</sup> United States Geological Survey: Forest Reserve, 1897-1898, page 13.

<sup>12</sup> Treasury Department: Monthly Summary of Commerce and Finance for November, 1900, page 1087.

local supply, use many logs brought by rail and canal from North Carolina. Hard wood timber products are manufactured chiefly among the oak, ash, and poplar forests in the western and northwestern counties. These forests are being rapidly exhausted. Large numbers of chestnut oaks are sacrificed annually for the tan-bark they furnish, while the finest white oak trees are selected for the manufacture of staves, and in many cases all but a few feet at the base of each is left to decay.

There were 20 establishments engaged in the manufacture of iron and steel in 1900, with 3,097 wage-earners, and products valued at \$8,341,888. In 1890 there were 21 establishments, 3,010 wage-earners, and products valued at \$6,326,084. The increase in the value of products during the decade was \$2,015,804, or 31.9 per cent. In 1899 Virginia ranked fifth in the United States in the production of iron ore.<sup>1</sup> An abundance of this mineral, combined with a plentiful supply of fuel, has made the manufacture of iron one of the leading industries of the state for more than a century. The first attempt by Europeans to manufacture iron in America was made in Virginia in 1619 by skilled iron-makers, imported for the purpose, but the enterprise failed. It was not until some time between the years 1710 and 1723 that the first iron was manufactured in the colony.<sup>2</sup> Six mines were in operation in 1781, and in connection with 5 of these, 4,400 tons of pig iron and 600 tons of bar iron were made annually, while 2 forges manufactured bars from pig iron brought from Maryland.<sup>3</sup> Small quantities of pig iron were exported previous to that year.<sup>4</sup> The advance of the industry since that date was checked for a time by the exhaustion of the older mines, but the increase of transportation facilities has given access to deposits<sup>5</sup> in the western part of the state, where the manufacture is now chiefly carried on.

There were 28 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 4,922 wage-earners, and products valued at \$6,277,279. In 1890 there were 8 establishments, 1,643 wage-earners, and products valued at \$1,504,995. The increase in the value of products during the decade was \$4,772,284, or 317.1 per cent. Fourteen of the railroads in Virginia have repair shops located at 21 different points in the state. In addition to general repair work, freight cars were built during the census year at Danville, Portsmouth, Richmond, and Roanoke, passenger cars at Portsmouth, and locomotives at Roanoke.

There were 80 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 2,912 wage-earners, and products valued at \$4,883,137. In 1890 there were 59 establishments, 1,971 wage-earners, and products valued at \$2,739,695. The increase in the value of products during the decade was \$2,093,442, or

76.4 per cent. The beginning of this industry in Virginia at an early date was a natural result of the local production of iron and the demand for machinery and repairs by the sawmills and flouring mills. In 1850 there were 42 foundries in the state and 20 other establishments employing machinists and millwrights, with combined products valued at \$849,291. One establishment, at Richmond, achieved a national reputation by making the engines and boilers for the United States steam frigates Roanoke and Colorado.<sup>6</sup> Several establishments in tobacco manufacturing centers make a specialty of tobaccoists' tools and machinery.<sup>7</sup> In connection with the development of the iron industries, attention may be called to the large iron and steel shipbuilding operations at Newport News and Richmond. But as there were only 2 establishments in the state in 1900, the statistics can not be separately shown.

There were 65 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 889 wage-earners, and products valued at \$4,716,920. In 1890 there were 82 establishments, 401 wage-earners, and products valued at \$1,224,800. The increase in the value of products during the decade was \$3,492,120, or 285.1 per cent. This is a much larger absolute increase than has ever taken place before in the history of this industry in Virginia. Its importance is due largely to the abundance of oak timber which supplies the bark for tanning. The largest operations are in the mountainous counties in the western part of the state. As early as 1810 there were 442 tanneries located in 15 counties of the state, and a product of 273,829 hides was reported.

There were 39 establishments engaged in the manufacture of fertilizers in 1900, with 1,171 wage-earners, and products valued at \$3,415,850. In 1890 there were 28 establishments, 600 wage-earners, and products valued at \$2,475,638. The increase in the value of products during the decade was \$940,212, or 38 per cent. The importance of this industry in Virginia is largely due to the great demand for fertilizers to replenish the soil, exhausted by the large tobacco crops. There were only 3 establishments reported in 1860, with products valued at \$224,200, or 25.2 per cent of the value of all fertilizers produced in the United States in that year.

There were 35 establishments engaged in the manufacture of textiles in 1900, with 3,293 wage-earners, and products valued at \$3,282,583. In 1890 there were 44 establishments, 2,389 wage-earners, and products valued at \$2,342,457. The increase in the value of products during the decade was \$940,126, or 40.1 per cent. Cotton spinning and weaving as a household industry was common in Virginia as early as 1685,<sup>8</sup> but cotton manufacturing has assumed importance only during the last quarter of a century with the development of the waterpower of the Virginia Piedmont district. Practically all the cotton manufacturing carried on in 1900 was in this region, water supplying more than three-fifths of the power used. Sheet-

<sup>1</sup> United States Geological Survey: Mineral Resources of the United States, 1899; Metallic Products, Coal, and Coke, page 34.

<sup>2</sup> Tenth Census of the United States, Manufactures, folios 792 and 828.

<sup>3</sup> Notes of the State of Virginia, by Thomas Jefferson: John Stockdale, Pub., London, 1787, page 41.

<sup>4</sup> Ibid., page 277.

<sup>5</sup> Tenth Census of the United States, Manufactures, folio 831.

<sup>6</sup> Iron in All Ages, by J. M. Swank, page 270.

<sup>7</sup> Richmond, Its Trade, Commerce, and Manufactures, page 47.

<sup>8</sup> Economic History of Virginia, Vol. II, page 460.

ings and shirtings were the most important products, though considerable quantities of drills, duck, and fancy-woven fabrics were also reported. Woolen goods have been manufactured in Virginia since 1646,<sup>1</sup> and the industry is now carried on in more than 12 different localities, chiefly in the Piedmont and Alpine regions.

There were 88 establishments engaged in the manufacture of planing mill products in 1900, with 1,383 wage-earners, and products valued at \$2,686,898. In 1890

there were 65 establishments, 1,186 wage-earners, and products valued at \$2,350,281. The increase in the value of products during the decade was \$336,617, or 14.3 per cent.

#### URBAN MANUFACTURES.

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

TABLE 4.—COMPARATIVE SUMMARY, NORFOLK, PETERSBURG, AND RICHMOND, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Num-ber of estab-lish-ments.	Capital.	WAGE-EARNERS.		Miscella-neous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State.....	1900	8,248	\$103,670,988	72,702	\$22,445,720	\$12,264,602	\$74,851,757	\$182,172,910
	1890	5,915	68,456,799	53,566	15,816,930	7,421,087	50,148,285	88,868,824
Per cent of increase.....		39.4	68.4	35.7	41.9	65.3	49.3	49.6
Norfolk.....	1900	445	6,425,099	4,894	1,571,229	701,597	5,283,975	9,897,855
	1890	374	8,417,454	2,891	1,016,990	265,475	2,542,700	6,100,408
Per cent of increase.....		19.0	88.0	81.8	54.6	164.1	107.8	84.2
Petersburg.....	1900	225	8,960,987	4,730	1,048,550	658,689	3,747,656	6,464,464
	1890	271	8,911,240	5,108	1,128,551	884,420	4,884,462	7,167,004
Per cent of increase.....		<sup>1</sup> 17.0	1.8	17.4	17.5	121.1	114.5	19.8
Richmond.....	1900	768	20,848,620	16,692	5,181,659	6,158,301	18,161,697	28,900,616
	1890	966	16,785,242	16,891	5,753,863	8,290,170	14,014,214	27,792,672
Per cent of increase.....		<sup>1</sup> 21.0	24.2	1.2	9.9	87.2	16.1	4.0
Total for 3 cities.....	1900	1,438	81,234,706	25,756	7,706,438	7,518,587	22,193,828	44,762,435
	1890	1,611	24,118,936	24,390	7,898,804	4,890,265	20,941,466	40,060,884
Per cent of increase.....		<sup>1</sup> 11.0	29.5	5.6	11.3	71.3	6.0	11.7
Per cent of 3 cities to total for state.....	1900	17.4	30.1	35.4	34.7	61.3	29.6	33.9
	1890	27.2	38.0	45.5	49.9	59.2	41.8	45.3

<sup>1</sup> Decrease.

It appears from Table 4 that there has been an increase during the past decade in the combined manufactures of these 3 cities. Although the number of establishments decreased from 1,611 to 1,433, or 11 per cent, the average number of wage-earners increased from 24,390 to 25,756, or 5.6 per cent; and the value of products from \$40,060,084 to \$44,762,435, or 11.7 per cent. The city of Norfolk shows the greatest growth, as measured by the value of products, which increased from \$5,100,408 in 1890 to \$9,897,355 in 1900, or 84.2 per cent. In Richmond, the leading manufacturing city in the state, the value of products increased during the decade from \$27,792,672 to \$28,900,616, or 4 per cent, while the number of establish-

ments decreased from 966 to 763, or 21 per cent, and the number of wage-earners from 16,891 to 16,692, or 1.2 per cent. The number of establishments, number of wage-earners, and value of products, in this city in 1900, constituted 9.3, 23, and 21.9 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 23 cities and towns withdrawn from the enumerators, places them in comparison with the totals for the entire state and the state exclusive of these cities and towns, and shows their rank in population and in value of products.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state.....	8,248	\$103,670,988	9,421	72,702	\$22,446,720	\$12,264,602	\$74,851,757	\$132,172,910	-----	100.0	1,854,184	-----	100.0
Total for urban manufactures.....	2,972	69,446,494	3,333	51,552	16,558,765	10,603,859	47,570,277	88,354,903	-----	66.8	326,728	-----	17.6
Alexandria.....	172	1,770,834	196	1,065	448,024	282,115	788,671	1,890,333	9	1.4	14,528	9	0.8
Berkley.....	48	1,740,919	46	1,186	485,431	117,420	1,482,572	2,391,048	8	1.8	4,988	15	0.3
Bristol.....	56	860,211	63	746	241,380	38,056	579,554	1,092,628	14	0.8	4,579	16	0.2
Buena Vista.....	22	321,135	21	330	126,698	30,495	1,063,877	1,477,150	13	1.1	2,338	22	0.1
Charlottesville.....	79	827,234	87	487	153,857	43,938	387,690	858,144	17	0.7	6,440	12	0.3
Danville.....	139	5,832,258	185	5,143	1,040,820	678,040	5,137,771	8,103,484	3	6.1	16,520	8	0.9
Fredericksburg.....	62	769,614	70	552	147,726	29,369	454,411	810,242	18	0.6	5,068	14	0.3
Hampton.....	40	189,377	43	217	110,352	57,477	315,196	578,436	22	0.4	2,764	21	0.1
Harrisonburg.....	55	521,573	66	244	78,553	30,187	458,558	682,654	21	0.5	3,521	18	0.2
Lexington.....	26	49,658	30	51	16,039	7,524	28,374	77,564	23	0.1	3,208	20	0.2
Lynchburg.....	168	3,445,557	214	2,452	731,206	684,713	2,331,930	4,508,087	7	3.4	13,891	6	1.0
Manchester.....	36	763,043	39	923	372,809	56,641	1,178,131	1,745,192	11	1.3	9,715	10	0.5
Mathews.....	22	461,780	27	810	110,131	304,230	262,233	781,236	19	0.6	2,384	23	0.1
Newport News.....	123	14,999,735	133	5,675	2,556,938	207,411	3,369,545	6,976,670	4	5.3	19,635	5	1.1
Norfolk.....	445	6,425,099	523	4,334	1,571,229	701,597	5,233,975	9,397,355	2	7.1	46,624	2	2.5
Petersburg.....	225	3,960,987	242	4,780	1,048,550	658,689	3,747,650	6,464,464	5	4.9	21,810	3	1.2
Portsmouth.....	103	1,179,144	111	1,154	483,763	95,644	968,752	1,854,997	10	1.4	17,427	7	0.9
Richmond.....	763	20,848,620	801	16,092	5,181,659	6,158,301	13,161,697	28,900,616	1	21.9	85,050	1	4.6
Roanoke.....	120	2,057,754	129	2,088	1,178,542	122,145	3,780,926	5,709,817	6	4.3	21,495	4	1.2
Salem.....	40	421,473	53	181	68,315	82,510	533,254	783,435	20	0.6	3,412	19	0.2
Staunton.....	89	433,270	103	316	90,715	41,727	622,142	900,750	15	0.7	7,289	11	0.4
Suffolk.....	67	402,079	73	881	197,849	48,979	1,060,006	1,499,068	12	1.1	3,827	17	0.2
Winchester.....	72	561,640	78	635	128,176	36,101	582,306	890,493	16	0.7	5,161	18	0.3
Total for state exclusive of urban manufactures.....	5,276	34,224,494	6,088	21,150	5,886,955	1,661,243	27,272,480	43,817,947	-----	33.2	1,527,456	-----	82.4
Per cent of urban manufactures to total for state.....	36.0	67.0	35.4	70.9	73.8	86.5	68.6	66.8	-----	-----	17.6	-----	-----

Of the 8,248 establishments in the state, 2,972, or 36 per cent, were located in these 23 cities and towns. They furnished employment to 51,552 wage-earners, or 70.9 per cent of the total for the state, and the value of their products, \$88,354,903, formed 66.8 per cent of the total for the state.

Table 6 shows the totals for the entire state by counties.

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

Table 8 shows the totals for the cities of Norfolk, Petersburg, Richmond, and Roanoke 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 CITIES.		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.....	8,248	\$108,670,988	\$12,607,782	\$17,211,750	\$26,965,985	\$46,795,471	9,421	4,198	\$3,846,072	72,702	\$22,445,720
2	Accomac.....	103	266,682	51,995	29,360	73,867	111,960	181	26	5,650	326	81,076
3	Albemarle.....	72	278,774	66,448	33,473	80,493	68,800	78	15	19,675	430	129,078
4	Alexandria.....	20	1,885,767	374,997	350,022	264,331	890,417	15	49	48,103	477	171,572
5	Alexandria city.....	172	1,779,334	171,820	864,772	532,416	710,326	196	104	79,728	1,065	443,024
6	Alleghany.....	64	8,606,466	162,170	1,010,617	1,146,106	1,856,572	60	47	64,765	1,003	411,880
7	Amelia.....	26	144,715	6,115	21,405	27,067	90,128	30	1	800	108	18,289
8	Amherst.....	35	115,060	8,867	25,183	37,020	45,990	36	5	3,480	50	15,196
9	Appomattox.....	23	59,035	8,120	15,520	25,725	9,670	23	1	1,200	86	9,622
10	Augusta.....	165	801,078	56,400	165,411	220,191	329,016	165	14	10,775	541	188,876
11	Bath.....	19	29,440	10,225	3,780	13,235	2,200	21			16	3,877
12	Bedford.....	109	616,148	140,775	86,960	187,520	200,898	114	28	19,107	821	89,020
13	Bland.....	19	27,325	2,568	7,980	12,152	4,625	30			7	1,630
14	Botetourt.....	98	412,539	40,105	148,248	86,510	137,681	116	12	5,610	381	81,332
15	Bristol city.....	66	860,211	140,765	241,788	200,594	271,079	68	57	38,501	746	241,880
16	Brunswick.....	52	196,152	32,746	35,165	64,788	68,508	68	12	8,175	193	71,563
17	Buchanan.....	10	96,950	36,050	1,850	18,600	89,250	14	5	1,500	58	16,180
18	Buckingham.....	53	536,859	163,843	67,245	88,708	217,063	51	11	6,825	435	102,572
19	Buena Vista city.....	22	921,185	8,200	191,415	330,718	390,802	21	24	33,388	890	126,098
20	Campbell.....	51	278,007	60,145	81,435	89,310	48,017	58	13	8,700	226	71,923
21	Caroline.....	69	199,570	42,525	17,015	77,455	62,575	84	14	4,900	232	57,042
22	Carroll.....	97	129,013	49,496	19,192	47,555	12,770	139			45	10,241
23	Charles City.....	13	40,097	6,962	4,250	14,685	14,200	16	3	1,260	45	11,700
24	Charlotte.....	81	252,835	12,635	14,305	33,045	192,350	42	3	1,200	121	21,442
25	Charlottesville city.....	79	827,234	75,436	121,417	186,737	443,614	87	55	56,708	487	153,857
26	Chesterfield.....	88	638,162	139,372	63,753	105,226	234,811	100	22	12,468	546	167,423
27	Clarke.....	44	87,175	16,395	14,195	24,000	32,585	43	5	1,650	64	19,940
28	Craig.....	21	93,807	8,250	8,100	13,950	8,507	26			11	2,728
29	Culpeper.....	71	169,097	24,566	41,803	56,213	47,520	81	8	4,680	105	27,621
30	Cumberland.....	19	32,780	2,265	7,425	21,040	2,050	21			24	5,393
31	Danville city.....	139	5,832,258	158,924	664,914	1,804,078	3,204,342	185	248	182,695	5,143	1,040,820
32	Dickenson.....	17	40,180	10,815	1,800	22,725	4,840	23			34	8,780
33	Dinwiddie.....	64	880,725	138,420	15,625	101,875	79,905	78	5	8,400	402	106,308
34	Elizabeth City.....	64	249,785	28,300	28,600	42,547	152,338	58	19	11,444	396	145,862
35	Essex.....	28	67,615	6,050	11,800	19,250	20,515	33	4	875	73	10,475
36	Fairfax.....	64	241,657	28,275	27,710	63,200	127,472	72	7	3,017	168	63,460
37	Fauquier.....	107	198,871	26,672	40,069	58,607	78,523	111	8	840	92	26,372
38	Floyd.....	96	100,802	15,100	21,785	45,198	18,719	126	1	150	35	8,430
39	Fluvanna.....	32	87,464	8,045	10,175	14,839	9,905	84	4	871	23	6,319
40	Franklin.....	111	158,703	16,244	30,267	81,567	31,625	143	10	2,940	128	20,942
41	Frederick.....	75	182,722	18,419	46,815	57,030	60,458	87	9	4,300	180	82,234
42	Fredericksburg city.....	62	759,614	45,050	164,772	204,754	345,088	70	43	32,209	552	147,726
43	Giles.....	43	747,208	42,778	58,395	47,370	598,065	55	9	5,800	207	65,347
44	Gloucester.....	24	98,070	40,265	5,290	27,830	25,735	25			72	22,020
45	Gooseland.....	22	61,958	7,150	13,695	26,495	14,618	28	2	1,260	88	12,985
46	Gmyson.....	64	91,409	8,754	20,795	41,625	20,235	81	2	1,200	88	8,591
47	Greene.....	17	22,842	1,433	7,076	9,813	4,520	17			10	2,445
48	Greensville.....	13	150,670	42,815	20,200	61,750	26,405	17	21	12,662	289	68,473
49	Halifax.....	120	940,393	80,861	62,870	101,126	145,586	184	17	14,990	800	96,187
50	Hanover.....	59	168,884	45,807	20,205	65,090	37,782	63	8	4,870	156	37,745
51	Henrico.....	84	926,770	53,370	68,275	128,752	75,378	96	18	21,841	174	52,490
52	Henry.....	59	706,675	16,885	79,425	103,750	507,115	73	63	46,660	1,087	160,219
53	Highland.....	84	61,928	2,616	16,805	25,079	17,426	44			35	8,242
54	Isle of Wight.....	20	134,717	22,645	21,422	35,596	105,054	22	13	12,160	216	42,738
55	James City.....	15	73,805	18,660	8,725	22,100	24,820	19	8	1,590	62	15,993
56	King and Queen.....	29	28,827	2,152	6,355	18,760	2,560	29			85	7,885
57	King George.....	12	10,575	1,675	2,375	8,650	2,875	14			19	8,922
58	King William.....	84	77,050	10,985	11,450	33,295	21,320	42	2	500	82	19,775
59	Lancaster.....	28	87,205	2,580	18,560	45,560	20,505	31	6	8,450	189	81,311
60	Lee.....	56	94,840	5,915	15,445	40,095	33,385	72	5	1,250	92	28,394
61	Loudoun.....	164	851,257	25,957	79,350	104,402	141,548	197	1	860	179	52,204
62	Louisa.....	40	60,862	7,675	9,203	26,426	17,558	40	2	600	51	11,023
63	Lunenburg.....	21	27,989	1,976	8,100	14,415	8,498	22	1	240	11	2,760
64	Lynchburg city.....	168	3,445,557	159,938	494,951	1,199,849	1,650,819	214	111	109,247	2,452	731,206
65	Madison.....	67	69,514	16,625	17,125	36,275	29,489	72			59	15,181
66	Manchester city.....	36	769,043	51,100	185,139	211,667	315,137	89	63	56,089	923	372,809
67	Mathews.....	21	32,210	1,830	4,575	8,940	16,885	26			47	12,802
68	Mecklenburg.....	51	197,527	18,557	27,516	46,865	104,589	68	4	2,850	125	35,749
69	Middlesex.....	20	42,088	14,600	7,650	8,885	11,053	26	1	780	26	8,037
70	Montgomery <sup>2</sup> .....	60	542,418	80,350	237,685	129,980	94,403	65	19	19,789	336	100,910
71	Nansemond.....	115	555,071	49,232	69,959	161,880	274,000	122	41	27,705	1,121	246,243
72	Nelson.....	55	177,917	24,970	51,940	74,635	26,872	62	4	4,100	227	49,084
73	New Kent.....	9	21,336	1,595	2,125	12,516	5,100	12			88	9,187
74	Newport News city.....	123	14,999,735	1,958,982	3,239,616	1,672,219	8,138,918	133	144	214,117	5,675	2,550,938
75	Norfolk.....	111	8,802,084	1,208,576	899,130	840,373	1,354,005	106	173	176,071	8,657	1,076,244
76	Norfolk city.....	445	6,428,099	506,425	685,162	2,025,063	3,208,449	523	333	266,227	4,884	1,571,229

<sup>1</sup>Includes totals for the city of Williamsburg.<sup>2</sup>Includes totals for the city of Radford.



BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
50,341	\$20,038,389	12,197	\$1,963,999	4,164	\$443,382	\$12,204,602	\$697,016	\$499,159	\$9,872,989	\$1,195,488	\$74,851,757	\$71,649,994	\$3,201,763	\$132,172,910	1
260	74,124	53	5,521	13	1,431	7,488	2,043	968	4,252	225	220,804	218,959	1,845	407,834	2
428	128,968			2	110	21,238	593	2,258	18,827	60	198,750	186,922	11,828	449,450	3
460	169,995			17	1,637	86,902	516	8,415	82,971		368,834	329,658	39,176	820,221	4
917	421,000	99	20,565	19	1,459	282,115	12,419	9,810	248,983	10,903	788,671	764,783	23,888	1,800,883	5
967	406,238	11	2,220	25	2,922	118,001	15,884	10,075	91,992	50	2,578,626	1,908,992	664,634	3,839,649	6
105	17,989	8	300			2,681	386	889	1,206	200	148,594	147,729	865	205,827	7
46	14,506	4	600			4,416	1,584	571	2,261		198,438	198,015	388	259,157	8
32	8,839	2	567	2	216	1,284	175	261	848		78,717	78,212	505	125,538	9
622	186,277	6	902	13	1,197	38,404	1,811	8,660	25,363	2,570	791,474	782,181	9,293	1,201,848	10
16	8,877					744	120	198	401	25	31,935	31,821	114	46,338	11
218	74,914	87	12,018	16	2,088	151,607	1,524	2,257	189,826	8,000	869,850	861,677	8,182	814,895	12
6	1,624			1	106	6,896	6,574	189	83	50	39,025	38,701	264	64,685	13
295	68,953	101	9,606	45	2,773	4,889	402	2,164	2,263	60	410,525	381,057	49,468	672,527	14
712	236,383	20	3,160	14	1,837	38,056	6,159	7,685	24,312		579,654	542,095	37,559	1,001,848	15
190	70,995	2	890	1	178	7,224	1,107	1,087	5,030		155,075	152,809	2,866	280,170	16
58	16,180					3,020	479	260	2,281		62,006	61,876	130	108,482	17
884	96,968	7	1,200	44	4,404	13,252	2,579	2,520	8,128	25	183,418	172,787	10,631	888,942	18
858	118,706	87	7,992			30,495	1,204	2,606	26,685		1,063,877	888,689	175,188	1,477,150	19
221	71,059			5	864	9,900	2,026	927	6,947		163,007	135,648	27,359	824,873	20
227	50,418			5	624	6,911	246	900	5,765		178,153	175,768	890	885,710	21
44	9,991			1	250	1,355	279	559	467	50	120,655	120,490	165	194,187	22
45	11,700					802	25	239	628		32,867	32,722	145	68,984	23
88	18,492	25	2,100	13	850	4,049	842	562	1,645	1,000	263,025	251,955	1,070	841,202	24
846	120,237	139	27,420	2	200	45,988	7,895	3,203	27,840	5,000	387,690	378,977	8,713	858,144	25
493	161,203	48	5,090	5	580	26,280	1,035	2,383	21,892		575,196	555,360	19,836	1,046,686	26
59	19,090	5	850			4,028	833	400	1,690	2,000	82,694	81,369	1,325	148,888	27
9	2,570	2	158			1,076	36	203	837		41,668	41,558	110	59,126	28
98	26,836	7	1,335	5	450	9,025	2,058	1,103	5,861		171,625	169,598	1,927	262,723	29
24	5,393					587	150	231	206		62,463	62,293	265	80,828	30
2,605	684,069	1,585	253,203	953	103,483	678,040	54,691	40,345	566,684	10,820	5,187,771	5,142,501	45,270	8,108,484	31
34	8,780					1,250	681	224	345		47,058	46,801	257	72,438	32
406	105,908	1	250	1	150	4,808	168	1,001	8,737		328,703	326,906	1,797	596,139	33
289	136,602	77	6,840	30	2,420	70,615	8,731	912	12,772	48,200	376,908	369,777	6,231	720,921	34
88	8,876	27	1,610	8	90	1,535	136	874	1,016		60,254	59,727	527	104,623	35
134	58,241	4	201	80	4,928	9,076	687	602	7,727		152,211	143,711	8,500	298,599	36
75	23,482	13	2,650	4	240	10,589	1,061	1,305	7,323		194,424	191,583	2,841	301,076	37
29	7,775			6	655	2,870	312	624	1,679	55	131,843	131,235	658	195,763	38
19	6,082			4	307	1,790	227	149	1,414		36,172	35,909	263	58,472	39
110	28,485	6	762	8	683	6,495	647	1,149	6,599	100	193,980	193,412	568	295,930	40
103	29,741	15	1,495	10	998	14,428	1,047	812	12,664		185,201	181,857	3,344	289,841	41
363	123,662	138	20,746	81	3,318	29,869	5,101	8,251	20,677	250	454,411	440,973	13,439	810,242	42
206	65,197	1	150			59,728	1,718	1,716	56,200		624,776	623,298	1,478	825,100	43
72	22,020					2,466	25	485	1,966		61,075	61,722	263	156,685	44
72	12,015			11	970	1,609	20	354	1,325		68,121	67,825	296	105,967	45
25	7,224	3	800	5	567	2,401	135	384	1,012	870	120,272	119,759	513	194,245	46
10	2,445					432	18	114	300		27,170	27,105	65	37,165	47
206	63,177	18	2,994	15	2,300	4,307	801	602	8,404		174,041	172,943	1,095	300,563	48
297	87,010	44	6,895	19	2,232	14,505	2,468	1,447	10,445	150	888,882	884,903	4,079	717,396	49
123	33,595	14	2,550	14	1,600	9,263	287	1,178	1,768		174,843	173,874	409	278,409	50
160	48,371	16	3,219	8	900	54,164	387	1,657	51,620	200	159,853	151,799	7,654	361,901	51
576	120,741	170	16,718	342	22,765	441,117	4,151	5,997	430,969		492,702	485,464	7,288	1,249,966	52
81	7,847	4	395			925	354	221	850		66,378	66,001	877	96,945	53
106	30,788	111	12,000			15,461	1,085	767	13,669		776,548	774,833	2,715	983,215	54
61	15,873			1	120	1,424	20	292	1,112		23,485	21,390	2,045	58,275	55
85	7,885					257	45	197	15		50,167	50,001	166	83,499	56
18	3,205	4	585	2	132	766	400	71	205		24,018	23,827	191	35,826	57
76	19,380	6	825	1	120	1,387	235	648	504		105,509	105,162	347	173,324	58
124	30,461	10	600	5	250	6,833	121	814	5,898		106,799	101,361	5,438	185,022	59
88	22,954			4	440	1,725	336	496	893		135,072	134,559	513	208,843	60
172	51,180	3	510	4	514	12,935	2,569	1,970	6,816	1,550	433,349	424,638	8,811	638,186	61
48	10,728			3	800	1,193	27	813	853		72,499	72,247	252	110,006	62
11	2,760					3,614		226	3,888		48,107	48,085	112	66,726	63
1,322	648,504	446	70,551	184	12,151	684,718	82,644	12,021	563,998	76,050	2,331,380	2,270,192	61,188	4,508,037	64
55	14,611	1	145	8	425	6,601	255	493	4,853		98,404	97,416	988	100,634	65
781	843,643	114	24,476	28	4,691	56,641	6,374	3,857	48,410	8,000	1,178,181	1,153,486	24,645	1,740,192	66
47	12,302					1,281	125	119	1,037		26,357	26,101	256	61,780	67
123	35,449	1	200	1	100	6,852	370	906	5,676		203,346	202,321	1,025	323,330	68
26	8,037					2,429	201	255	678	1,800	60,227	59,886	341	102,315	69
324	99,401	3	520	9	989	8,741	1,195	2,181	5,861	4	529,670	428,771	100,899	789,076	707

TABLE 6.—MANUFACTURES

	COUNTIES AND CITIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Num- ber of estab- lish- ments.	CAPITAL.					Propri- etors and firm mem- bers.	SALARIED OF- FICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple- ments.	Cash and sundries.		Num- ber.	Salaries.	Total.	
											Average num- ber.	Wages.
77	Northampton	34	\$179,741	\$32,630	\$15,245	\$58,797	\$73,069	42	7	\$4,623	201	\$76,658
78	Northumberland	62	232,835	12,205	23,575	139,848	52,257	63	13	6,355	322	32,410
79	Nottoway	39	135,681	10,630	44,040	72,555	61,556	41	17	12,265	217	34,560
80	Orange	61	117,751	18,470	25,200	37,036	37,045	63	3	959	47	14,440
81	Page	85	1,307,951	24,127	94,046	114,120	1,135,653	104	28	34,610	441	163,115
82	Patrick	74	185,005	42,566	11,815	50,369	80,255	80	6	3,863	81	20,806
83	Petersburg city	225	3,960,987	141,387	595,774	1,153,793	2,070,033	242	251	227,544	4,730	1,043,550
84	Pittsylvania	96	221,838	16,758	40,901	83,750	80,429	109	5	2,560	150	34,946
85	Portsmouth city	103	1,179,144	64,500	147,589	228,939	788,116	111	107	32,636	1,154	433,763
86	Powhatan	27	399,726	36,135	146,724	99,891	116,976	26	13	14,234	180	42,831
87	Prince Edward	45	118,777	6,932	16,560	40,850	54,435	50	7	5,220	83	20,100
88	Prince George	22	98,173	14,555	12,657	83,849	32,112	22	8	6,930	103	25,099
89	Princess Anne	20	85,991	9,021	3,885	16,960	56,125	24	2	1,300	55	13,139
90	Prince William	43	123,249	18,133	23,577	40,993	40,498	61	2	1,080	66	23,352
91	Pulaski	60	1,958,793	195,321	604,119	164,079	994,674	74	49	64,928	651	206,691
92	Rappahannock	59	98,168	9,643	15,322	24,012	49,191	62	1	650	39	11,199
93	Richmond	35	132,278	23,930	7,400	22,358	73,040	47	11	11,693	106	29,645
94	Richmond city	763	20,848,620	2,252,946	2,377,697	6,164,891	10,053,086	801	1,166	1,266,270	16,692	5,131,659
95	Roanoke	60	603,841	8,792	92,545	102,825	239,079	73	15	13,760	212	76,372
96	Roanoke city	120	2,057,764	90,160	612,890	627,648	827,056	129	205	169,317	2,638	1,178,542
97	Rockbridge	98	561,553	53,608	272,631	138,407	96,907	115	24	15,392	268	63,354
98	Rockingham	227	1,241,482	131,901	235,115	295,808	579,158	206	53	34,897	566	164,933
99	Russell	75	145,258	8,711	24,658	58,639	53,205	84	3	1,270	87	23,748
100	Scott	89	243,284	71,332	20,850	75,805	75,247	95	7	3,560	188	53,425
101	Shenandoah	144	358,791	24,757	97,215	109,222	127,597	172	8	7,025	182	53,781
102	Smyth	66	3,164,578	1,649,695	403,734	804,396	306,693	84	9	5,440	812	262,372
103	Southampton	41	218,404	34,328	11,290	43,370	73,916	43	6	3,672	241	54,389
104	Spottsylvania	31	184,788	15,095	12,480	30,158	77,055	32	3	960	71	20,465
105	Stafford	22	28,448	3,266	3,463	14,997	6,722	26	15	10,263	33	8,612
106	Staunton city	89	438,270	46,827	50,862	111,775	223,806	103	15	10,263	316	90,715
107	Surry	29	861,076	253,164	95,190	171,275	336,447	33	11	14,720	396	112,903
108	Sussex	40	158,847	23,452	12,395	63,285	54,715	51	15	5,760	326	60,224
109	Tazewell	97	801,764	116,612	44,765	502,735	137,692	113	23	19,890	333	135,647
110	Warren	57	164,915	12,165	30,890	58,305	63,555	60	10	6,240	114	32,024
111	Warwick	5	10,950	675	2,150	4,325	3,800	6			27	6,975
112	Washington	125	318,591	49,705	41,038	113,105	109,745	152	10	6,445	273	71,121
113	Westmoreland	38	89,038	21,295	11,953	27,690	23,145	46	4	265	122	22,850
114	Winchester city	72	561,640	32,910	102,272	140,554	285,904	78	42	27,325	635	123,176
115	Wise	50	1,381,169	134,854	276,976	639,762	323,577	56	47	34,796	855	233,661
116	Wythe	90	763,131	41,220	304,639	275,151	147,071	99	29	31,808	530	166,333
117	York	16	21,450	4,575	3,125	7,880	6,870	15			17	3,790

TABLE 7.—MANUFACTURES BY

		8,248	\$103,670,983	\$12,697,732	\$17,211,750	\$26,965,985	\$46,795,471	9,421	4,198	\$3,846,072	72,702	\$22,445,720
1	All industries											
2	Agricultural implements	13	472,863	49,231	68,945	86,320	263,367	20	29	21,788	278	107,930
3	Awnings, tents, and sails	8	12,870	950	2,950	1,630	7,340	11			23	13,100
4	Baking and yeast powders	8	169,038	2,000	6,000	7,240	153,798	7	33	35,760	95	23,384
5	Bicycle and tricycle repairing	63	78,095	4,050	5,925	21,712	46,408	74	5	2,408	81	23,045
6	Blacksmithing and wheelwrighting	889	537,628	84,936	112,346	92,163	243,133	952	6	4,856	637	193,702
7	Bookbinding and blank book making	7	84,036			39,376	44,660	9	15	9,808	114	30,701
8	Boots and shoes, custom work and repairing	233	79,299	9,025	14,275	19,388	36,011	239			139	44,739
9	Boots and shoes, factory product	5	641,166	2,000	7,332	47,034	634,200	5	45	50,509	1,153	206,119
10	Bottling	20	113,610	20,200	20,650	33,000	30,860	8	16	11,118	79	24,126
11	Boxes, fancy and paper	11	370,312	25,500	77,500	133,181	134,631	11	20	30,922	942	190,704
12	Boxes, wooden packing	17	450,334	43,197	76,135	132,027	198,975	12	33	34,678	1,246	154,634
13	Bread and other bakery products	97	320,543	65,300	112,700	57,996	84,047	109	74	30,234	423	157,037
14	Brick and tile	80	1,531,352	450,897	306,361	340,485	433,109	90	56	46,221	1,413	403,693
15	Brooms and brushes	20	12,599	1,995	2,550	1,837	6,217	26	5	1,900	55	12,765
16	Carpentering	284	717,553	93,715	102,735	79,037	442,071	330	30	20,058	1,717	672,710
17	Carriage and wagon materials	6	275,264	8,800	33,234	67,230	161,000	7	9	6,260	203	67,337
18	Carriages and wagons	199	1,162,900	100,251	235,667	129,021	698,061	257	33	30,305	313	336,961
19	Cars and general shop construction and repairs by steam railroad companies	28	1,733,339	101,572	432,386	421,438	727,443		233	248,425	4,922	2,452,105
20	Cars and general shop construction and repairs by street railroad companies	4	36,942	2,100	26,850	3,900	4,592		3	2,940	25	10,321
21	Charcoal	12	14,880	7,025	325	2,990	4,540	11	2	706	34	7,628
22	Cheese, butter, and condensed milk, factory product	10	15,145	860	1,750	7,850	4,635	12			8	2,153
23	Clothing, men's, custom work and repairing	164	336,347	3,940	10,900	16,435	300,022	201	24	19,920	635	290,552
24	Clothing, men's, factory product	9	162,530			16,700	145,830	13	28	17,260	324	53,323
25	Clothing, women's, dressmaking	123	65,631	12,400	20,655	10,591	22,035	133	3	1,920	323	62,975
26	Coffee and spice, roasting and grinding	22	637,315	8,300	43,707	92,207	493,101	15	31	65,631	970	126,022

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
197	\$75,753	2	\$480	2	\$425	\$5,470	\$442	\$995	\$3,953	\$75	\$144,605	\$143,121	\$1,484	\$233,765	77
293	75,230	25	5,420	14	1,760	20,822	301	1,306	28,215	-----	128,410	121,003	7,407	355,249	78
211	84,135	5	285	1	140	4,407	1,009	955	2,443	-----	217,656	215,540	2,116	382,525	79
46	14,320	-----	-----	1	120	4,838	897	457	2,974	-----	161,572	160,123	1,449	221,728	80
425	165,765	2	545	14	1,805	52,361	1,602	8,119	47,640	-----	1,137,902	1,134,201	3,701	1,572,657	81
70	20,216	1	135	4	425	5,881	247	828	4,306	-----	118,812	118,415	397	183,652	82
2,729	801,127	1,615	206,061	886	30,362	658,689	30,999	48,129	526,186	53,375	3,747,656	3,695,090	52,566	6,464,464	83
118	31,261	16	2,700	16	985	30,384	1,484	1,065	36,835	-----	274,295	271,348	2,947	422,372	84
942	446,437	167	31,835	45	5,441	95,644	27,025	5,322	62,083	614	968,752	954,448	14,304	1,854,997	85
167	33,416	14	2,707	9	1,208	19,782	335	1,470	17,177	800	103,289	92,765	10,524	213,165	86
79	10,507	3	520	1	73	7,220	1,110	1,415	4,695	-----	230,217	229,213	1,004	334,396	87
86	21,990	12	2,600	5	500	5,894	600	545	4,689	-----	62,213	60,761	1,452	117,622	88
54	12,989	-----	-----	1	150	1,078	67	286	1,325	-----	47,922	47,614	308	80,460	89
62	23,065	-----	-----	4	237	2,800	717	678	1,195	300	149,306	148,107	1,199	230,043	90
650	206,494	1	200	-----	-----	32,981	1,028	9,444	22,003	506	1,286,896	967,216	319,179	1,982,331	91
86	10,594	3	605	-----	-----	8,254	1,406	464	6,384	-----	84,189	82,877	1,812	133,378	92
85	27,805	11	1,100	10	740	3,856	356	603	2,897	-----	129,054	129,207	447	221,720	93
11,565	4,292,348	4,399	796,997	728	92,314	6,158,301	181,456	182,687	5,263,566	580,592	13,161,697	12,838,895	322,802	23,900,616	94
186	71,479	16	3,700	10	1,193	84,989	2,625	2,046	79,107	1,211	625,896	618,715	7,181	894,642	95
2,570	1,163,114	84	10,666	34	4,762	122,145	16,095	9,754	91,176	5,120	3,730,926	3,398,169	332,767	5,709,317	96
262	62,237	5	1,000	1	117	16,881	3,245	1,824	7,894	3,918	360,049	302,788	57,311	583,683	97
619	159,554	28	3,717	19	1,722	49,105	3,554	6,036	32,140	7,375	1,814,935	1,304,654	10,281	1,881,779	98
85	28,163	1	300	1	285	4,658	813	638	3,192	15	202,498	202,081	417	291,766	99
169	56,803	1	240	18	1,882	5,700	1,041	747	3,912	-----	306,818	305,121	1,722	425,508	100
170	52,544	6	741	6	496	11,778	1,716	1,624	7,653	280	533,237	523,604	9,633	777,274	101
792	253,745	19	3,402	1	165	89,831	474	10,764	73,541	52	675,248	478,343	196,905	1,325,755	102
170	47,919	07	6,110	4	860	8,992	1,345	754	6,393	-----	315,661	313,823	1,838	458,593	103
71	20,465	-----	-----	-----	-----	1,690	110	448	1,032	-----	128,002	128,655	247	194,561	104
33	8,612	-----	-----	-----	-----	927	186	191	660	-----	46,249	46,101	148	70,583	105
232	78,616	73	10,924	11	1,175	41,727	9,973	3,034	22,085	6,580	622,142	613,060	9,082	900,750	106
870	109,653	-----	-----	26	3,250	83,140	251	5,282	32,557	50	345,658	345,348	310	609,445	107
220	55,256	96	4,808	10	100	8,644	819	1,501	6,324	-----	509,768	507,320	2,448	670,805	108
316	131,601	11	3,044	6	1,002	48,146	23,192	3,400	21,319	285	864,187	856,166	7,971	718,261	109
105	30,539	7	1,260	2	225	7,537	1,936	797	4,784	20	250,103	247,885	2,218	346,430	110
26	6,825	-----	-----	1	150	265	25	110	190	-----	10,163	8,873	1,290	33,240	111
246	68,037	18	2,130	9	954	21,482	4,393	1,642	15,447	-----	334,999	332,456	2,543	549,273	112
65	15,450	33	5,180	19	2,220	1,709	635	446	628	-----	103,140	102,501	639	160,097	113
220	69,990	336	50,194	79	7,992	36,101	5,203	3,421	22,472	5,000	582,306	565,305	17,001	890,493	114
851	233,289	4	872	-----	-----	35,530	1,391	4,109	29,730	300	812,190	761,917	50,273	1,324,807	115
697	152,284	19	8,594	4	505	32,192	2,120	3,396	20,676	-----	672,970	499,427	73,543	919,976	116
17	3,790	-----	-----	-----	-----	863	21	122	225	-----	17,212	16,998	214	31,164	117

SPECIFIED INDUSTRIES: 1900.

56,341	\$20,038,330	12,197	\$1,963,999	4,164	\$443,382	\$12,264,602	\$607,016	\$490,159	\$9,872,939	\$1,195,483	\$74,851,757	\$71,649,994	\$3,201,763	\$132,172,910	1
272	107,080	-----	-----	6	900	26,183	3,500	2,672	20,011	-----	128,434	120,266	8,168	343,291	2
18	11,600	5	1,500	-----	-----	907	600	102	205	-----	18,270	18,049	280	44,867	3
26	7,182	68	16,552	2	150	54,951	2,466	2,857	50,123	-----	479,083	478,188	945	648,819	4
70	22,897	-----	-----	11	1,048	11,830	3,444	583	2,653	250	49,781	48,314	1,467	129,688	5
605	190,139	-----	-----	32	3,653	36,694	22,795	3,743	9,301	850	270,682	250,195	20,487	972,339	6
41	17,690	72	12,905	1	106	8,437	3,146	302	2,889	2,100	19,467	17,940	1,527	96,476	7
128	43,280	3	600	8	859	24,976	20,548	843	1,810	1,776	94,728	92,012	2,716	284,154	8
1,021	187,214	127	18,531	5	374	35,122	760	1,357	33,005	-----	1,159,969	1,156,092	3,877	1,452,480	9
77	23,926	-----	-----	2	200	7,080	1,711	1,423	8,941	-----	143,848	143,165	678	217,540	10
278	89,908	572	87,061	92	13,135	34,554	2,533	2,902	29,119	-----	309,761	304,808	4,953	631,826	11
1,115	134,594	88	15,180	43	4,910	30,165	5,352	3,055	21,733	25	513,596	512,376	1,220	899,620	12
376	140,221	34	6,284	13	1,552	33,540	19,681	3,620	10,236	-----	472,584	457,434	15,150	922,361	13
1,342	394,686	-----	-----	76	9,010	54,788	5,487	5,730	43,436	135	194,658	37,494	157,169	1,006,221	14
43	11,325	3	970	4	470	1,674	1,007	71	314	252	27,376	27,236	140	61,909	15
1,708	671,286	-----	-----	9	1,424	840,615	11,382	4,348	20,576	804,309	1,896,373	1,892,511	3,862	4,051,801	16
203	67,337	-----	-----	-----	-----	13,771	827	12,944	32,244	-----	102,746	99,634	3,111	215,014	17
800	328,331	2	450	16	2,180	54,655	14,433	5,078	35,224	1,320	622,782	610,104	12,678	1,473,176	18
4,897	2,447,732	8	1,403	17	3,060	45,406	200	12,279	32,927	-----	3,531,283	3,473,996	57,287	6,277,279	19
25	10,821	-----	-----	-----	-----	3,987	-----	820	3,167	-----	6,160	6,076	84	23,903	20
34	7,028	-----	-----	-----	-----	1,157	25	283	349	-----	3,005	3,095	-----	29,462	21
3	2,158	-----	-----	-----	-----	930	243	107	580	-----	39,851	39,101	850	51,942	22
462	258,501	163	36,602	5	449	54,429	34,545	1,970	13,444	4,470	342,722	337,899	4,823	1,006,045	23
65	16,046	245	35,832	14	1,450	7,175	3,780	905	2,490	-----	277,264	275,050	2,214	417,885	24
7	5,550	321	57,425	-----	-----	11,503	9,558	697	1,248	-----	60,682	58,679	2,003	214,294	25
162	45,899	794	79,063	14	460	93,705	12,328	3,133	73,194	-----	3,713,904	3,705,114	13,790	4,236,622	26

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.
27	Coke	5	\$1,252,377	\$102,000	\$94,600	\$930,300	\$125,477	28	\$26,360	785	\$225,532	
28	Confectionery	44	169,218	11,750	14,300	41,543	101,625	45	21,726	230	59,393	
29	Cooperage	84	297,697	25,845	54,968	50,611	166,273	100	22,124	616	138,763	
30	Cotton, ginning	11	13,555	430	3,525	9,600		13		10	1,429	
31	Cotton goods	7	4,408,206	108,559	784,481	2,236,186	1,274,080	82	50,387	2,931	668,550	
32	Dyeing and cleaning	27	39,075	5,200	14,100	12,500	7,275	28	6	54	15,082	
33	Dye stuffs and extracts	8	885,904	37,923	54,350	72,100	221,531	12	20	201	58,588	
34	Electrical construction and repairs	14	77,152	2,000	3,000	8,948	63,204	13	13	67	80,297	
35	Fertilizers	39	4,908,381	164,328	579,504	488,462	3,681,087	86	112	1,171	320,774	
36	Fish, canning and preserving	5	10,325	200	2,700	1,825	5,600	9	6	18	4,615	
37	Flavoring extracts	4	54,320			2,070	52,250	5	11	82	8,837	
38	Flouring and grist mill products	1,726	4,682,688	346,139	1,815,467	1,893,212	1,127,870	1,872	101	790	328,893	
39	Foundry and machine shop products	80	6,963,491	516,383	961,290	3,706,138	1,779,680	85	154	2,912	1,840,143	
40	Fruits and vegetables, canning and preserving	88	218,538	22,500	32,260	47,790	115,933	180	25	637	77,576	
41	Furniture, cabinetmaking, repairing, and upholstering	91	158,601	14,660	43,615	38,392	61,934	109	5	162	44,458	
42	Furniture, factory product	14	160,179	12,700	27,800	44,955	74,724	18	13	192	54,949	
43	Gas, illuminating and heating	12	2,624,623	100,777	168,523	2,141,807	213,516	53	53	133	84,801	
44	Gloves and mittens	3	136,300	7,800	29,100	8,400	91,000	4	23	255	43,900	
45	Hand stamps	4	23,025	3,000	7,000	7,800	5,225	4		84	13,442	
46	Hosiery and knit goods	15	978,575	26,100	61,307	282,638	608,480	4	38	1,845	594,871	
47	Ice, manufactured	30	1,198,981	141,400	211,500	677,882	168,199	20	46	205	87,193	
48	Iron and steel	20	6,686,696	1,800,096	2,462,708	1,090,875	1,832,957	150	208,009	3,097	980,587	
49	Ironwork, architectural and ornamental	4	123,017	7,050	6,550	80,330	79,087	2	13	141	61,363	
50	Leather, tanned, curried, and finished	65	4,032,387	86,547	478,999	219,561	3,247,280	70	59	889	313,677	
51	Lime and cement	23	184,408	34,085	52,904	33,248	64,231	24	25	204	66,237	
52	Liquors, distilled	91	270,943	8,390	34,140	61,892	166,521	98	7	66	15,021	
53	Liquors, malt	6	2,000,954	208,179	700,419	410,563	681,733	72	95,458	300	144,882	
54	Liquors, vinous	4	63,632	1,075	14,950	7,275	40,632	2	1,400	5	1,200	
55	Lock and gun smithing	21	14,200	50	125	8,935	10,090	22	1	13	4,644	
56	Looking-glass and picture frames	10	16,205	800	500	2,755	12,650	12	6	10	4,326	
57	Lumber and timber products	1,841	9,290,046	2,956,491	680,616	2,703,210	2,978,729	1,789	351	7,611	2,144,882	
58	Lumber, planing mill products, including sash, doors, and blinds	88	1,618,158	192,812	202,802	336,272	886,272	108	96	1,333	467,962	
59	Marble and stone work	13	288,820	40,620	61,305	62,770	74,125	16	16	528	169,681	
60	Masonry, brick and stone	56	202,236	12,350	22,400	14,741	152,745	77	18	725	322,085	
61	Mattresses and spring beds	20	48,190	2,420	8,010	8,735	34,025	23	8	89	24,671	
62	Millinery, custom work	167	297,231	21,625	53,455	7,309	214,842	181	50	372	90,318	
63	Mineral and soda waters	27	126,650	48,350	16,400	44,650	17,250	29	7	82	27,283	
64	Monuments and tombstones	57	135,583	21,211	13,882	12,187	88,303	69	7	132	79,370	
65	Oil, essential	13	13,884	145	3,120	4,719	5,900	22	2	29	8,819	
66	Painting, house, sign, etc	113	98,437	8,155	12,595	11,905	65,782	146	6	415	161,488	
67	Paper and wood pulp	7	2,281,903	79,450	505,180	1,216,506	480,767	34	58,250	302	102,993	
68	Paper hanging	28	77,070	19,200	17,400	2,145	38,325	40	3	111	50,016	
69	Patent medicines and compounds	14	80,065	1,500	10,500	18,405	49,660	13	15	69	15,243	
70	Paving and paving materials	13	47,228	13,675	4,050	10,058	19,445	17	10	134	60,560	
71	Photography	69	100,750	4,070	10,080	60,575	36,025	80	7	83	31,564	
72	Pickles, preserves, and sauces	7	35,750	1,500	8,200	5,625	20,425	4	3	26	7,037	
73	Pipes, tobacco	3	8,070	365	950	5,880	875	3		31	4,676	
74	Plastering and stucco work	27	28,172	2,010	3,900	7,132	15,130	35	1	111	51,231	
75	Plumbing, and gas and steam fitting	117	331,760	81,980	46,350	37,908	215,522	158	32	561	246,066	
76	Pottery, terra cotta, and fire-clay products	5	309,361	12,620	139,239	82,571	74,981	6	10	100	23,592	
77	Printing and publishing, book and job	86	1,481,259	22,800	41,900	456,113	960,446	102	107	682	232,982	
78	Printing and publishing, newspapers and periodicals	162	1,126,736	34,000	75,525	625,534	391,677	160	178	771	388,618	
79	Roofing and roofing materials	34	563,145	149,003	68,505	72,965	277,672	41	21	552	157,432	
80	Saddlery and harness	135	270,982	19,405	36,760	22,815	192,002	166	18	199	72,612	
81	Sewing machine repairing	5	1,511	100	200	286	925	7		3	2,360	
82	Ship and boat building, wooden	27	320,982	131,270	27,240	121,150	41,322	35	10	187	97,681	
83	Shirts	9	78,790	2,000	42,000	14,540	20,250	12	18	209	49,181	
84	Silk and silk goods	3	594,359	12,600	174,440	210,200	197,119	2	12	473	105,056	
85	Slaughtering and meat packing, wholesale	3	156,500	84,000	23,000	21,500	78,000	4	17	42	17,884	
86	Tinsmithing, copper smithing, and sheet-iron working	143	357,854	44,635	56,370	50,829	206,019	169	25	408	170,346	
87	Tobacco, chewing, smoking, and snuff	69	5,723,357	137,225	502,960	762,027	4,326,145	85	509	6,061	1,082,226	
88	Tobacco, cigars and cigarettes	89	780,261	25,330	80,800	230,052	444,079	95	126	2,595	585,115	
89	Tobacco, stemming and rehandling	54	2,454,595	29,250	121,050	128,750	2,175,545	89	135	3,159	464,019	
90	Trunks and valises	7	310,136	14,409	53,821	22,771	219,135	6	68	673	166,916	
91	Typewriter repairing	3	1,775			875	1,400	1		4	2,390	
92	Upholstering materials	3	4,850	250	1,800	2,200	1,100	3	2	10	1,687	
93	Vinegar and cider	14	31,181	6,172	3,235	9,715	12,059	20	3	45	7,348	
94	Watch, clock, and jewelry repairing	151	180,609	29,830	29,033	39,633	82,108	170	6	123	66,752	
95	Wirework, including wire rope and cable	4	8,460	100	200	240	2,920	6		2	683	

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

## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.									
773	\$223,872			12	\$1,660	\$37,145	\$20,815	\$2,100	\$14,730		\$677,269	\$674,189	\$3,080	\$1,072,684
167	52,016	45	\$6,115	18	1,208	20,078	13,818	1,248	5,612		401,838	396,781	5,057	686,842
598	132,045			18	1,718	18,781	8,759	1,433	8,489	\$100	822,793	821,388	1,405	586,961
10	1,429					208	86	92	80		1,990	1,696	294	7,449
1,280	392,540	1,000	202,008	651	73,110	185,173	1,800	24,620	108,758		1,412,332	1,377,028	84,709	2,655,002
88	12,830	14	2,492	2	260	6,433	8,363	322	2,738	10	9,459	7,314	2,145	63,978
183	56,988	15	1,200	3	400	17,739	1,081	1,955	14,703		307,431	292,068	15,413	479,372
67	30,297					6,819	2,689	355	3,275		119,220	118,678	542	192,476
1,171	820,774					306,882	6,187	27,040	272,844	311	2,161,423	2,105,760	55,063	3,415,850
11	2,995	6	1,325	1	225	496	90	6	400		18,239	18,179	60	24,700
16	5,730	16	3,107			17,788	1,378	380	16,030		64,299	63,883	416	120,590
783	327,515	4	1,000	3	378	145,014	29,277	30,370	85,292	75	10,514,361	10,465,005	48,755	12,687,267
2,829	1,822,790			88	17,853	158,129	15,418	15,866	121,752	5,093	2,665,062	2,517,000	148,062	4,833,137
196	33,915	912	33,577	129	10,084	7,289	1,173	913	5,203		842,689	837,502	5,187	535,900
143	42,170	14	1,750	5	538	9,001	6,546	916	2,154	285	78,810	77,023	1,187	233,801
187	54,612			5	337	7,776	415	572	6,439	300	87,300	84,768	2,592	212,972
133	84,401					78,832		21,038	57,144		130,759	126,885	3,874	433,351
40	14,700	188	26,700	27	2,500	11,600	1,120	5,480	5,000		174,190	168,772	5,418	265,925
28	12,346	3	800	3	296	2,672	265	180	2,227		9,378	8,768	620	43,800
601	179,267	988	185,013	256	30,591	119,198	81,998	5,887	81,313		797,818	779,059	18,759	1,495,066
205	87,193					37,174	1,350	6,350	28,974		106,823	88,749	72,574	427,974
8,094	980,257			3	330	248,314	16,050	35,463	196,801		5,438,672	3,745,265	1,763,407	8,341,888
141	51,863					23,339	1,560	605	21,174		193,333	190,289	3,044	336,610
886	313,254			3	421	252,548	7,010	9,430	236,103	5	3,695,817	3,688,292	7,525	4,716,920
259	67,876	5	361	5	361	12,766	5,595	665	2,593	3,913	65,938	37,966	28,032	198,785
66	15,021					147,804	321	1,588	145,395		56,520	47,795	8,725	257,385
300	144,882					374,865		8,299	366,566		215,923	184,393	31,530	972,820
5	1,200					2,110		400	1,710		16,413	16,305	108	29,970
13	4,984					2,197	1,842	142	213		7,513	7,253	265	32,553
10	4,826					3,503	2,710	136	657		12,520	12,420	100	32,556
7,244	2,109,679	157	17,384	210	17,419	327,615	16,229	42,734	264,787	3,865	6,763,831	6,763,494	837	12,137,177
1,327	467,297	1	180	5	485	163,814	13,548	9,271	47,732	92,768	1,025,501	1,613,038	12,463	2,686,898
528	169,681					15,088	429	1,121	12,038	1,500	67,956	52,849	15,107	332,081
722	321,681			3	504	143,118	1,389	882	9,047	181,200	960,620	959,241	1,379	1,625,564
78	21,657	11	2,314	5	700	10,195	2,852	323	6,860	160	79,760	79,103	657	149,412
7	2,589	360	87,330	5	399	42,864	31,700	2,612	7,782	770	334,840	332,553	2,287	655,887
74	25,910			8	1,378	6,596	1,623	1,062	3,011		47,975	47,048	332	124,937
181	79,110			1	260	11,857	3,011	990	4,006	3,250	125,709	124,742	967	306,453
29	6,819					691	183	51	457		21,807	20,561	1,246	37,772
414	161,338			1	150	10,883	7,127	574	8,102	20	139,870	139,405	465	443,253
242	92,145	60	10,848			57,829	400	6,388	51,041		410,640	366,828	43,812	850,386
105	49,206	4	550	2	260	7,449	4,713	423	2,158	150	48,802	48,461	341	142,321
44	13,415	8	1,084	7	744	11,182	2,985	427	7,770		90,116	88,345	1,771	187,347
183	60,360			1	200	1,642	810	810	772	150	74,491	73,297	1,194	186,288
65	27,044	10	4,260	2	260	22,381	15,055	2,486	4,511	329	53,040	51,703	1,337	187,877
27	5,692	7	1,030	2	315	1,874	500	279	1,095		41,530	41,077	453	73,190
13	3,580	6	980	2	115	93		57	36		3,335	2,660	675	9,100
111	51,221					1,809	1,071	274	464		50,035	49,510	525	135,017
650	245,079			11	1,827	30,081	20,103	3,293	6,690		484,832	480,863	3,999	1,072,414
90	22,000	2	567	8	1,319	12,111		857	11,254		34,455	22,440	12,015	83,178
509	250,820	157	30,079	16	2,083	135,977	18,833	6,354	44,668	66,222	332,221	320,700	11,521	1,084,027
635	315,928	48	13,065	88	9,625	167,482	23,169	5,322	95,568	43,428	212,321	198,495	14,326	1,145,577
508	152,813			44	4,619	18,056	4,405	2,568	11,053	30	161,375	149,880	11,995	429,008
197	72,392			2	220	19,222	12,546	1,584	5,062	30	254,695	252,288	2,407	516,247
8	2,360					470	390	25	55		2,787	2,742	45	8,620
187	97,681					10,582	942	1,219	8,421		72,418	67,716	4,702	263,302
29	12,611	165	34,470	15	2,100	27,890	2,610	1,05	21,385	3,700	44,874	43,010	1,864	161,143
144	61,294	228	31,885	101	11,877	15,300		1,168	12,697	1,435	720,525	718,848	6,677	981,080
42	17,884					2,588		988	1,600		477,280	475,020	2,210	559,620
390	168,000			18	2,340	31,982	15,618	2,137	14,177	50	353,160	353,504	4,656	767,603
3,119	756,569	1,987	251,650	955	74,007	4,069,746	29,612	65,846	3,974,288		4,082,291	4,023,772	58,519	10,707,766
676	214,960	1,791	355,208	128	15,887	2,480,961	12,507	7,206	2,460,423	825	1,192,583	1,186,202	6,381	4,843,641
1,408	264,031	1,881	157,977	870	32,011	160,171	43,877	25,886	88,088	2,320	4,453,205	4,429,127	24,078	5,726,859
645	162,286	15	8,000	13	1,650	49,319	1,455	3,829	44,005		340,393	338,334	1,464	696,909
4	2,890					410	300		110		1,480	1,470	10	7,150
10	1,087					600	300	63	237		8,415	8,315	100	13,575
41	6,855	4	493			1,940	825	130	935		22,671	21,946	725	55,493
117	65,758	2	400	4	594	23,630	17,665	1,267	3,698	1,000	45,419	43,626	1,893	241,721
2	688					194	168	6	20		1,892	1,867	25	6,820

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.
96 Wood, turned and carved.....	9	\$44, 890	\$590	\$8, 500	\$14, 950	\$20, 850	14	4	\$3, 220	65	\$19, 615
97 Woodenware, not elsewhere specified.....	8	608, 050	200, 900	75, 550	181, 000	150, 600	2	21	37, 500	650	166, 800
98 Woolen goods.....	28	783, 527	44, 656	116, 971	180, 252	441, 648	15	39	37, 667	862	103, 773
99 All other industries <sup>1</sup> .....	75	20, 223, 361	8, 859, 447	8, 910, 728	2, 785, 804	9, 722, 882	67	257	358, 943	7, 756	3, 160, 449

<sup>1</sup> Embraces artificial limbs, 1; babbit metal and solder, 1; bags, other than paper, 2; bags, paper, 1; baskets, and rattan and willow ware, 1; bluing, 2; boxes, cigar, 2; brass castings and brass finishing, 1; bridges, 1; chemicals, 1; cleansing and polishing preparations, 1; clothing, women's, factory product, 2; copper, smelting and refining, 1; dentists' materials, 1; druggists' preparations, not including prescriptions, 1; explosives, 1; fireworks, 2; food preparations, 2; furs, 1; furnishing goods, men's, 1; glass, 2; glass, cutting, staining, and ornamenting, 2; graphite and graphite refining, 1; grease and tallow, 2; hairwork, 2; hats and caps, not including fur hats and wool hats, 2; jewelry, 1; kaolin and other earth grinding, 2; lead, smelting and refining, 1; lithographing and engraving, 2; models and

TABLE 8.—MANUFACTURES IN CITIES

## NORFOLK.

1	All industries.....	445	\$5, 425, 099	\$506, 425	\$685, 162	\$2, 025, 068	\$3, 208, 449	528	833	\$266, 227	4, 334	\$1, 571, 229
2	Agricultural implements.....	8	219, 587	30, 000	16, 000	44, 695	128, 842	8	15	10, 422	100	46, 500
3	Awnings, tents, and sails.....	4	8, 120			1, 230	6, 890	7			20	12, 500
4	Bicycle and tricycle repairing.....	10	19, 175			1, 600	17, 575	12	2	1, 440	12	2, 710
5	Blacksmithing and wheelwrighting.....	19	19, 208	3, 350	8, 025	8, 898	9, 435	21	2	2, 236	89	18, 814
6	Boots and shoes, custom work and repairing.....	55	16, 795	8, 100	2, 925	2, 890	7, 880	55			23	7, 770
7	Bread and other bakery products.....	15	59, 800	18, 200	18, 800	10, 400	11, 900	16	10	6, 016	98	34, 838
8	Carpentering.....	22	85, 775	12, 300	11, 100	7, 725	54, 650	26	3	2, 400	271	138, 300
9	Carriages and wagons.....	7	172, 150	2, 500	2, 750	23, 550	143, 350	11	7	7, 000	132	56, 050
10	Clothing, men's, custom work and repairing.....	32	87, 561	500	1, 500	4, 125	81, 436	41	6	4, 600	125	60, 690
11	Clothing, women's, dressmaking.....	31	18, 005	250	750	2, 905	9, 100	33	3	1, 920	122	20, 895
12	Coffee and spice, roasting and grinding.....	5	292, 486			30, 931	261, 555		25	29, 261	346	51, 821
13	Confectionery.....	7	46, 222	5, 000	8, 000	12, 153	26, 069	8	22	8, 718	48	11, 000
14	Cooperage.....	7	36, 700	10, 000	10, 500	875	15, 325	9	2	960	66	13, 207
15	Dyeing and cleaning.....	4	7, 600	1, 000	1, 000	8, 850	1, 750	4	1	900	22	6, 514
16	Electrical construction and repairs.....	4	8, 460			8, 050	5, 400	5	1	1, 200	21	8, 160
17	Fertilizers.....	4	1, 529, 679	63, 000	141, 000	186, 000	1, 189, 679	3	27	28, 950	274	74, 212
18	Foundry and machine shop products.....	7	176, 460	27, 000	19, 870	52, 000	78, 090	10	12	13, 690	175	83, 514
19	Furniture, cabinetmaking, repairing, and upholstering.....	5	2, 850			600	2, 250	7			9	4, 168
20	Hosiery and knit goods.....	3	284, 720	10, 000	20, 000	70, 189	184, 531		8	6, 572	452	117, 899
21	Ice, manufactured.....	5	489, 387	69, 000	104, 000	245, 000	71, 387	2	9	7, 600	49	25, 827
22	Lock and gun smithing.....	4	1, 000			325	675	4			8	1, 260
23	Lumber and timber products.....	3	166, 650	25, 200	5, 750	50, 000	85, 700	5	21	12, 900	68	32, 700
24	Lumber, planing mill products, including sash, doors, and blinds.....	6	183, 725	36, 125	22, 750	17, 750	107, 100	8	6	4, 820	75	37, 230
25	Masonry, brick and stone.....	5	45, 850	500	1, 000	3, 700	40, 150	8	4	3, 470	145	80, 004
26	Millinery, custom work.....	9	36, 015	2, 700	7, 000	415	25, 900	9	8	1, 520	41	11, 078
27	Monuments and tombstones.....	3	16, 650	1, 000	1, 500	1, 250	12, 900	4	1	500	12	6, 190
28	Painting, house, sign, etc.....	15	8, 640	400	700	1, 865	5, 675	19			56	22, 325
29	Paper hanging.....	3	14, 150	200	400	550	18, 000	3			35	15, 800
30	Patent medicines and compounds.....	4	2, 550			500	2, 050	5			6	1, 404
31	Paving and paving materials.....	4	8, 568		800	1, 123	7, 145	5	7	4, 200	33	80, 550
32	Photography.....	7	17, 600			11, 500	6, 100	7	1	350	19	9, 915
33	Plumbing, and gas and steam fitting.....	18	64, 935	9, 000	15, 500	6, 160	34, 275	25	4	2, 720	121	57, 612
34	Printing and publishing, book and job.....	15	75, 618			45, 800	29, 818	19	7	4, 010	73	32, 884
35	Printing and publishing, newspapers and periodicals.....	6	110, 274	550	8, 000	72, 046	34, 678	6	30	25, 280	95	56, 438
36	Roofing and roofing materials.....	4	23, 172			4, 032	19, 140	7	3	2, 637	48	18, 050
37	Ship and boat building, wooden.....	6	184, 550	70, 000	12, 200	77, 350	25, 000	9	8	7, 900	104	50, 926
38	Shirts.....	3	6, 850	2, 000	2, 000	850	2, 500	4	2	500	19	4, 000
39	Tinsmithing, coppersmithing, and sheet-iron working.....	14	53, 262	8, 000	5, 500	5, 820	33, 942	17	9	5, 080	115	55, 218
40	Tobacco, cigars and cigarettes.....	12	48, 254	500	1, 000	4, 545	40, 209	14	6	3, 700	89	30, 111
41	Watch, clock, and jewelry repairing.....	16	13, 080	350	1, 000	5, 775	6, 585	23	1	2, 000	24	16, 535
42	All other industries <sup>1</sup> .....	39	1, 770, 446	94, 700	249, 842	1, 057, 041	368, 863	41	60	51, 305	704	189, 301

<sup>1</sup> Embraces bags, other than paper, 1; bottling, 1; boxes, fancy and paper, 2; boxes, wooden packing, 1; brick and tile, 2; bridges, 1; clothing, men's, factory product, 2; flavoring extracts, 1; flouring and grist mill products, 2; gas, illuminating and heating, 1; hats and caps, not including fur hats and wool hats, 1; ironwork, architectural and ornamental, 2; liquors, malt, 1; looking-glass and picture frames, 2; marble and stone work, 1; mattresses and spring beds, 2; mineral and soda

## PETERSBURG.

1	All industries.....	225	\$3, 960, 387	\$141, 387	\$595, 774	\$1, 153, 793	\$2, 070, 083	242	251	\$227, 544	4, 730	\$1, 043, 550
2	Blacksmithing and wheelwrighting.....	11	1, 705	200	150	475	880	13			9	2, 530
3	Boots and shoes, custom work and repairing.....	10	1, 641			770	871	10			9	2, 440
4	Bread and other bakery products.....	10	15, 240	4, 100	7, 550	1, 440	2, 150	10	6	1, 290	23	4, 404
5	Carpentering.....	34	21, 571	5, 000	11, 200	1, 736	8, 635	37	1	500	128	36, 745
6	Carriages and wagons.....	7	22, 790	8, 800	7, 800	1, 675	9, 515	10	1	480	23	9, 020

## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.						COST OF MATERIALS USED.				Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.			
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.											
63	\$18,615			2	\$1,000	\$6,530	\$475	\$102	\$5,953		\$50,411	\$49,131	\$1,280	\$107,398	96	
565	151,950	40	\$9,100	45	5,250	22,657		2,926	19,731		230,549	230,529	20	497,850	97	
214	72,954	127	28,506	21	2,313	22,780	1,770	2,015	18,125	\$870	891,659	882,515	9,144	627,581	98	
6,779	8,012,097	505	84,036	472	64,316	422,536	25,213	33,316	353,134	10,843	5,284,499	4,926,103	353,391	10,189,558	99	

patterns, 1; musical instruments, organs and materials, 1; oysters, canning and preserving, 1; paints, 1; paper hanging, 1; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; printing and publishing, music, 2; printing materials, 1; regalia and society banners and emblems, 1; salt, 1; shipbuilding, iron and steel, 2; show cases, 1; slaughtering, wholesale, not including meat packing, 1; smelting and refining, not from the ore, 1; soap and candles, 2; steam packing, 1; stencils and brands, 1; stereotyping and electrotyping, 1; taxidermy, 1; tin andterne plate, 1; tools, not elsewhere specified, 1; umbrellas and canes, 1; varnish, 1; washing machines and clothes wringers, 2; wood, preserving, 2; zinc, smelting and refining, 1.

## BY SPECIFIED INDUSTRIES: 1900.

## NORFOLK.

8,206	\$1,376,071	1,023	\$180,972	105	\$14,186	\$701,597	\$107,723	\$39,827	\$304,594	\$249,453	\$5,283,975	\$5,178,011	\$105,964	\$9,307,855	1
96	45,800			4	700	7,094	8,500	1,094	8,400		45,925	42,765	8,160	126,005	2
18	11,000	2	900			755	570	15	170		14,329	14,170	159	35,292	3
11	2,660			1	50	1,665	1,272	148	245		10,680	10,565	115	21,855	4
35	18,516			4	293	8,611	2,896	227	488		15,877	15,077	800	65,212	5
20	7,410			3	360	7,557	5,154	323	505	1,575	20,001	20,195	406	63,873	6
69	30,520	24	4,368			7,226	4,310	791	2,125		116,748	114,202	2,486	237,835	7
270	133,000			1	300	163,425	2,221	755	3,666	150,783	332,603	332,137	406	721,977	8
182	66,050					17,280	4,200	730	12,350		182,611	179,095	3,516	809,950	9
94	62,708	29	6,632	2	250	16,249	7,563	690	4,690	3,300	86,761	85,648	1,113	231,233	10
4	8,500	118	23,395			2,907	2,441	151	405		18,080	17,705	381	68,750	11
46	15,830	300	35,991			54,875	7,710	905	46,260		1,320,712	1,316,272	4,440	1,513,809	12
27	9,000	19	2,600	2	300	5,476	2,850	137	2,489		148,062	147,224	838	208,530	13
65	18,082			1	125	2,641	1,350	666	725		38,945	38,620	325	68,805	14
19	5,932	2	400	1	182	1,417	615	12	780	10	2,123	1,476	647	17,340	15
21	8,160			1		1,281	615	81	585		11,605	11,615	80	26,865	16
274	74,212					72,817	1,800	8,274	62,743		844,605	829,844	14,821	1,214,533	17
175	83,514					9,082	2,383	1,432	6,117		113,651	108,963	5,288	209,488	18
9	4,168					1,183	940	25	218		5,319	5,285	34	15,012	19
185	56,096	248	56,330	89	4,973	39,823	7,950	3,340	28,033		229,902	224,348	5,554	453,115	20
49	25,827					18,530	250	8,290	9,990		39,241	12,305	20,576	115,683	21
8	1,260					400	350		50		602	589	13	3,944	22
63	82,700					11,150	10	1,190	9,950		104,780	104,780		228,000	23
75	37,230					6,530	2,220	1,810	2,500		212,275	210,350	1,925	313,400	24
142	79,500			3	504	79,416	646	100	670	78,000	255,540	255,155	385	460,200	25
2	664	39	10,414			5,086	4,300	501	1,135		24,952	24,775	177	59,600	26
12	6,190					3,890	970	352	2,568		19,806	19,792	74	40,187	27
55	22,175			1	150	2,371	1,403	168	740		19,812	19,665	147	64,952	28
33	15,500	2	300			1,579	940	57	582		14,027	13,955	72	39,023	29
4	1,020	2	384			937	535	70	832		3,693	3,625	68	8,834	30
82	30,350			1	200	775	420	65	140	150	38,984	38,215	769	91,098	31
14	7,866	5	2,050			5,925	4,500	505	860		9,680	9,450	230	37,000	32
114	56,008			7	1,006	5,334	3,150	949	1,285		96,613	95,650	963	214,767	33
95	31,408	5	1,020	3	456	11,693	2,936	376	1,381	7,000	33,242	32,381	861	108,331	34
60	55,740	4	600	1	96	17,190	3,750	489	12,451	500	25,285	22,096	2,589	158,951	35
46	18,590			2	360	2,063	922	60	1,086		34,652	34,392	260	71,760	36
104	50,926					4,071	442	823	2,806		32,164	29,239	2,925	129,148	37
1	600	18	3,400			1,176	800	86	140	700	9,870	9,700	110	21,000	38
107	68,792			8	1,426	7,137	3,817	609	2,711		81,135	80,142	993	177,059	39
88	29,851	1	260			14,091	2,396	357	11,338		44,210	44,063	153	110,836	40
23	10,285			1	250	2,036	2,130	111	995		8,502	8,182	320	41,250	41
479	155,173	205	31,928	20	2,200	85,658	10,870	3,213	65,140	1,435	615,549	594,124	21,425	1,199,223	42

waters, 2; models and patterns, 1; plastering and stuccowork, 2; saddlery and harness, 2; sewing machine repairing, 2; silk and silk goods, 1; slaughtering, wholesale, not including meat packing, 1; trunks and valises, 2; umbrellas and canes, 1; vinegar and cider, 2.

## PETERSBURG.

2,729	\$301,127	1,615	\$206,061	336	\$36,362	\$653,639	\$30,999	\$43,120	\$526,186	\$59,375	\$3,747,656	\$3,695,090	\$52,566	\$6,464,464	1
9	2,530					515	450	59	6		2,654	2,454	200	9,350	2
9	2,440					689	642	24	3		3,242	3,113	120	10,902	3
19	4,076	1	90	8	232	1,166	740	302	124		18,055	17,261	794	36,273	4
123	36,745					54,240	757	403	530	52,500	52,734	52,504	280	185,367	5
23	9,020					946	610	220	116		8,062	7,818	244	26,840	6



TABLE 8.—MANUFACTURES IN CITIES

## PETERSBURG—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average num- ber.	Wages.
7 Clothing, men's, custom work and re- pairing.	7	\$7,970			\$475	\$7,495	8			82	\$10,770
8 Clothing, women's, dressmaking	7	3,824	\$1,100	\$2,500	224		7			14	1,643
9 Coffee and spice, roasting and grinding.	5	91,000	7,000	24,000	12,000	48,000	4	14	\$10,842	169	19,950
10 Cotton goods	4	635,538	31,000	100,000	894,700	109,838		12	13,391	712	121,625
11 Foundry and machine shop products	4	88,200	4,000	8,500	42,500	33,200	4	7	5,580	155	67,140
12 Furniture, cabinetmaking, repairing, and upholstering.	4	2,720	500	900	325	995	4			11	3,685
13 Lumber, planing mill products, includ- ing sash, doors, and blinds.	3	26,450	4,000	4,150	7,500	10,800	3	1	900	52	11,000
14 Masonry, brick and stone	8	17,353	3,150	7,000	103	6,500	10	3	1,560	65	23,600
15 Millinery, custom work	6	8,800			275	8,525	5	3	330	30	6,355
16 Monuments and tombstones	3	9,425	450	750	625	7,000	4	1	750	38	13,050
17 Painting, house, sign, etc.	11	6,715	1,500	3,200	415	1,600	16			28	6,217
18 Plastering and stuccowork	7	3,490	900	1,950	180	460	8			22	5,320
19 Plumbing, and gas and steam fitting	5	8,300			2,400	5,900	6	2	1,000	20	9,200
20 Printing and publishing, book and job.	4	35,590	1,000	1,500	24,840	8,250	6	2	1,200	27	6,160
21 Printing and publishing, newspapers and periodicals.	3	18,150	2,000	5,000	7,750	3,400	2	7	2,930	17	7,230
22 Tinsmithing, coppersmithing, and sheet-iron working.	7	6,640	1,200	1,500	1,015	2,925	9			12	4,610
23 Tobacco, chewing, smoking, and snuff.	6	1,309,698	27,487	176,074	198,701	907,434	7	67	96,120	1,298	255,395
24 Tobacco, cigars and cigarettes	4	6,275			375	5,900	4			8	3,325
25 Tobacco, stemming and rehandling	9	381,185	12,000	50,000	49,200	269,985	16	16	12,048	471	81,926
26 Trunks and valises	4	140,650	3,000	20,400	14,150	102,500	3	54	35,173	510	127,016
27 Watch, clock, and jewelry repairing	6	8,365			1,630	1,735	6			4	1,888
28 All other industries	36	1,086,704	27,400	161,050	388,314	509,940	30	54	43,450	848	200,756

<sup>1</sup> Embraces bicycle and tricycle repairing, 1; boxes, fancy and paper, 1; boxes, wooden packing, 2; brick and tile, 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; cleansing and polishing preparations, 1; clothing, men's, factory product, 1; confectionery, 2; cooperage, 2; dye stuffs and extracts, 1; fertilizers, 1; flouring and grist mill products, 2; gas, illuminating

## RICHMOND.

1 All industries	763	\$20,848,620	\$2,252,946	\$2,377,097	\$6,164,801	\$10,353,086	801	1,166	\$1,266,270	16,692	\$5,181,659
2 Baking and yeast powders	6	149,928			6,130	143,798	5	34	32,600	32	21,094
3 Bicycle and tricycle repairing	12	16,877			6,042	10,835	15	2	728	26	9,024
4 Blacksmithing and wheelwrighting	49	42,311	6,800	9,425	6,716	19,370	53	3	1,720	99	42,562
5 Bookbinding and blank book making.	6	88,211			38,776	44,435	8	15	9,808	114	30,701
6 Boots and shoes, custom work and repairing.	66	20,832	1,600	2,500	5,351	11,481	67			65	19,069
7 Bottling	3	21,100	11,750	5,750	3,300	300		5	3,720	14	5,800
8 Boxes, fancy and paper	6	337,262	25,500	77,500	112,581	121,681	3	15	26,234	801	168,609
9 Boxes, wooden packing	3	131,188	4,742	32,593	26,113	67,740	8	7	7,768	109	35,991
10 Bread and other bakery products.	17	85,851	11,200	24,800	19,661	30,193	18	20	9,258	162	66,018
11 Brick and tile	5	117,250	24,250	18,500	21,000	53,500	5	4	2,800	139	36,244
12 Brooms and brushes	4	5,305	900	600	650	3,155	5	4	1,800	36	8,505
13 Carpentering	56	189,479	34,600	27,700	23,715	103,464	61	9	5,536	368	148,847
14 Carriages and wagons.	16	121,736	26,600	29,900	7,391	57,905	24	2	2,200	120	51,360
15 Cars and general shop construction and repairs by steam railroad companies.	3	210,433	18,000	46,000	29,560	116,873		17	13,930	707	351,034
16 Clothing, men's, custom work and repairing.	39	97,700	7,200	4,800	3,745	81,955	44	8	6,440	182	92,868
17 Clothing, women's, dressmaking	26	25,233	7,300	9,200	2,555	6,178	26			58	14,405
18 Confectionery	13	62,261	4,900	6,850	13,140	32,871	11	18	9,888	85	24,931
19 Cooperage	4	13,615	3,000	3,000	165	7,450	7	1	624	32	5,576
20 Dyeing and cleaning.	12	23,715	4,200	13,100	3,795	2,620	12	4	1,502	20	6,062
21 Electrical construction and repairs.	6	56,277			2,373	53,904	3	12	9,614	34	15,117
22 Fertilizers	6	2,163,731	51,000	269,000	154,297	1,639,434	2	27	62,036	423	121,982
23 Foundry and machine shop products.	18	5,164,103	370,768	710,006	2,378,701	1,204,628	18	85	86,706	1,551	774,628
24 Furniture, cabinetmaking, repairing, and upholstering.	23	84,362	5,450	10,300	3,070	15,542	27			31	10,554
25 Ice, manufactured.	3	222,500	22,000	27,000	115,000	58,500	1	3	7,680	15	10,800
26 Lock and gun smithing	5	850			400	450	6			2	600
27 Looking-glass and picture frames.	4	9,800			1,300	8,500	4	6	2,900	8	3,012
28 Lumber, planing mill products, including sash, doors, and blinds.	7	391,455	44,500	57,655	94,240	195,060	7	29	24,938	317	122,672
29 Millinery, custom work.	14	41,847			1,047	40,800	18	21	6,166	33	25,200
30 Mineral and soda waters.	6	55,450	30,300	5,700	14,550	4,500	7	3	1,800	32	13,845
31 Monuments and tombstones.	7	31,300	8,975	1,625	1,650	19,050	7	1	468	42	22,770
32 Painting, house, sign, etc.	26	23,946	1,300	2,850	3,368	16,428	34			117	48,363
33 Paper hanging	9	23,475	6,000	5,000	675	11,800	13	1	1,000	44	22,756
34 Paving and paving materials	3	13,420	3,500	3,100	1,820	5,000	8			46	15,000
35 Photography	8	9,150			4,500	4,650	11	3	1,300	19	6,715
36 Plastering and stuccowork.	7	4,220			990	3,230	8			23	12,360



BY SPECIFIED INDUSTRIES: 1900—Continued.

## PETERSBURG—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
21	\$9,030	10	\$1,075	1	\$65	\$1,748	\$1,070	\$39	\$834		\$12,489	\$12,310	\$179	\$34,655	7
		14	1,648			582	520	53	9		268	129	184	4,861	8
33	8,700	136	11,250			4,940	1,335	1,155	2,450		505,970	503,080	2,290	573,250	9
177	47,577	372	60,229	103	13,819	25,916	1,800	4,785	19,331		350,564	342,712	7,852	581,673	10
155	67,140					8,967	900	910	2,157		29,314	27,689	2,125	140,850	11
10	3,610	1	75			444	361	53	30		4,959	4,905	54	11,270	12
52	11,000					1,060	60	210	790		32,030	31,730	300	52,825	13
65	23,600					504	60	341	103		37,446	37,376	70	72,568	14
2	625	28	5,730			1,701	1,375	170	156		13,123	13,050	73	25,300	15
88	13,050					607	180	67	300		8,701	8,571	180	20,150	16
23	6,217					470	331	93	46		7,538	7,461	77	22,410	17
22	5,320					197	103	82	7		4,681	4,581	100	14,325	18
20	9,200					1,077	826	146	105		14,564	14,480	84	32,950	19
25	5,760	2	400			1,761	960	281	520		17,352	16,689	663	43,486	20
17	7,280					1,782	240	423	1,119		4,484	4,203	281	81,901	21
12	4,610					545	341	91	110		10,596	10,509	87	17,611	22
686	109,039	523	49,546	89	7,260	469,899		20,194	449,705		823,678	810,328	13,350	1,865,153	23
8	3,325					1,327	342	83	902		4,129	4,037	42	11,755	24
294	56,238	164	23,963	13	1,725	15,461	1,500	5,494	8,467		333,854	323,973	4,881	490,136	25
487	123,366	10	2,000	13	1,650	16,904	985	2,659	12,760		248,414	247,314	1,100	463,754	26
4	1,888					1,311	852	82	77	\$800	865	774	91	3,900	27
390	139,691	354	49,454	104	11,611	49,055	13,651	9,810	25,519	75	1,197,345	1,180,380	16,956	1,712,649	28

and heating, 1; hats and caps, not including fur hats and wool hats, 1; hosiery and knit goods, 1; ice, manufactured, 2; lock and gun smithing, 2; mineral and soda waters, 2; paper hanging, 1; paving and paving materials, 1; photography, 2; saddlery and harness, 2; silk and silk goods, 1; soap and candles, 1; stereotyping and electrotyping, 1; upholstering materials, 1.

## RICHMOND.

11,565	\$1,202,348	4,890	\$796,997	728	\$92,314	\$6,153,301	\$181,456	\$132,037	\$5,263,566	\$580,592	\$13,161,697	\$12,838,865	\$322,802	\$23,000,616	1
18	5,322	62	15,622	2	150	47,891	2,406	1,957	43,523		453,616	452,781	835	598,319	2
23	8,711			3	310	4,289	3,145	115	779	250	11,111	10,697	514	35,431	3
93	41,802			6	760	8,446	4,360	480	3,696		31,185	29,401	1,784	122,622	4
41	17,690	72	12,905	1	108	8,041	3,066	297	2,373	1,800	19,237	17,720	1,517	95,276	5
51	18,836	1	500	3	238	7,483	6,631	155	697		24,613	23,698	915	76,239	6
14	5,800					685	150	465	70		25,908	25,608	300	40,757	7
261	83,623	453	72,331	87	12,655	31,497	1,026	2,822	27,649		280,550	276,368	4,187	543,826	8
95	34,011	11	1,380	3	600	13,289	1,660	1,188	10,441		98,062	92,847	215	176,857	9
164	64,898	7	1,520	1	200	8,224	4,013	869	2,437		161,603	157,261	4,342	300,790	10
187	36,140			2	104	3,230	500	940	1,790		19,174	1,946	17,229	83,600	11
80	7,205	8	900	3	400	1,420	900	20	300		14,006	13,879	127	38,393	12
367	143,677			1	170	395,136	3,516	1,725	4,919	200	236,411	236,006	405	932,125	13
118	51,160			2	200	14,054	4,800	1,478	6,876		50,117	48,460	1,657	103,444	14
702	850,124	5	900			8,698		1,814	7,384		269,863	262,282	7,571	647,155	15
150	84,609	31	8,155	1	104	14,801	10,127	600	3,714	300	86,181	85,063	1,068	262,225	16
8	2,050	55	12,355			4,303	3,483	300	520		8,226	7,466	760	48,400	17
72	22,948	9	1,515	4	463	8,914	6,160	715	2,039		187,278	184,685	2,593	233,217	18
32	5,578					1,182	796	146	240		22,876	22,850	25	32,390	19
18	4,792	6	1,192	1	78	3,145	1,456	295	1,694		5,016	4,062	953	32,070	20
84	15,117					4,541	1,914	62	2,565		95,221	94,805	416	142,911	21
423	121,982					136,300		10,712	125,588		621,597	600,657	21,040	1,045,063	22
1,480	753,763			71	15,860	104,920	4,737	9,173	86,717	4,293	1,559,393	1,486,622	72,771	2,594,186	23
31	10,554					3,832	2,880	807	645		22,676	22,291	385	50,820	24
15	10,800					5,790	400	1,200	4,190		14,133	2,795	11,338	64,932	25
2	600					338	290	3	45		2,160	2,115	46	6,635	26
8	3,012					2,548	2,040	118	390		7,575	7,530	45	23,256	27
317	122,672					110,923	3,990	4,094	14,044	88,800	249,966	248,056	1,910	561,836	28
3	1,300	79	23,770	1	130	10,931	7,692	367	2,122	750	79,750	79,390	360	153,420	29
32	13,345					2,943	400	630	1,913		17,259	17,119	140	43,760	30
42	22,770					971	80	198	443	250	13,167	12,866	291	43,300	31
117	43,368					3,172	2,116	42	1,014		38,954	38,349	105	124,641	32
42	22,496			2	200	2,941	1,824	116	901	100	13,996	13,884	112	56,875	33
45	15,000					197	90	97	10		18,690	18,690		43,950	34
16	6,065	1	390	2	260	3,877	2,610	582	685		8,917	8,853	64	36,036	35
23	12,850					483	427	56	56		10,267	10,267		27,880	36

TABLE 8.—MANUFACTURES IN CITIES

## RICHMOND—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.
37	Plumbing, and gas and steam fitting	33	\$97,524	\$9,180	\$7,200	\$8,808	\$72,386	46	17	\$9,824	190	\$87,905
38	Printing and publishing, book and job.	18	1,048,768	13,000	19,100	231,492	785,176	18	64	55,223	201	142,035
39	Printing and publishing, newspapers and periodicals.	29	463,600	16,500	28,000	218,700	205,400	19	68	44,435	225	126,926
40	Roofing and roofing materials	3	54,000	8,500	5,000	2,625	42,875	5	4	2,260	92	16,500
41	Saddlery and harness	11	91,575	4,000	2,000	5,125	80,450	15	10	6,044	75	25,320
42	Shirts	4	47,440		26,000	7,690	13,750	5	6	7,900	104	24,481
43	Tinsmithing, coppersmithing, and sheet-iron working.	15	56,800	9,800	11,200	10,010	25,790	16	8	2,000	47	28,049
44	Tobacco, chewing, smoking, and snuff.	17	2,088,661	75,148	128,219	298,689	1,586,605	15	262	253,754	2,328	485,046
45	Tobacco, cigars and cigarettes	22	521,839	15,095	68,125	213,094	230,525	24	106	184,472	2,293	491,170
46	Tobacco, stemming and rehandling	10	443,950	9,000	21,000	27,750	386,200	13	25	16,850	662	74,792
47	Typewriter repairing	3	1,775			375	1,400	1	1	300	4	2,390
48	Watch, clock, and jewelry repairing	27	47,285	12,000	9,000	7,000	19,285	30	3	1,800	40	22,268
49	Wirework, including wire rope and cable.	3	1,435			65	1,420	4			1	800
50	All other industries <sup>1</sup>	65	5,882,632	1,349,438	658,899	1,519,701	2,354,594	49	243	340,124	4,405	1,293,762

<sup>1</sup> Embraces agricultural implements, 2; artificial limbs, 1; awnings, tents, and sails, 2; babbitt metal and solder, 1; bags, other than paper, 1; bags, paper, 1; baskets, and rattan and willow ware, 1; bluing, 1; boots and shoes, factory product, 1; boxes, cigar, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by street railroad companies, 1; cheese and butter, urban dairy products, 1; clothing, women's, factory product, 2; coffee and spice, roasting and grinding, 2; druggists' preparations, not including prescriptions, 1; flavoring extracts, 1; flouring and grist mill products, 2; food preparations, 1; fur goods, 1; furniture, factory product, 1; gas, illuminating and heating, 1; glass, 1; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hairwork, 2; hand

## ROANOKE.

1 All industries .....	120	\$2,057,764	\$90,160	\$612,890	\$527,648	\$327,056	120	205	\$169,317	2,688	\$1,178,542
2 Bicycle and tricycle repairing .....	3	2,405			2,250	155	3			8	1,104
3 Blacksmithing and wheelwrighting .....	8	3,565	750	215	475	2,125	10			10	2,877
4 Boots and shoes, custom work and repairing.	7	564			483	81	7			2	782
5 Bread and other bakery products .....	3	5,938	950	4,500	400	88	4	1	480	4	1,880
6 Carpentering .....	9	8,535	10	25	600	2,900	10			62	14,100
7 Carriages and wagons .....	4	11,725	1,600	1,550	1,800	7,275	5			16	6,670
8 Clothing, men's, custom work and repairing.	7	8,046			720	7,326	10			81	6,805
9 Flouring and grist mill products .....	3	52,000	2,700	9,500	18,800	29,000	4	3	1,800	9	8,780
10 Millinery, custom work .....	9	13,780	500	1,500	280	11,500	11			22	4,170
11 Painting, house, sign, etc .....	6	9,595			925	8,670	5	3	1,260	14	6,025
12 Photography .....	3	2,550			1,800	750	4			2	534
13 Plumbing, and gas and steam fitting .....	4	8,400			1,600	6,800	5			27	8,109
14 Printing and publishing, book and job..	3	94,694			52,411	42,283	2	9	6,608	74	82,439
15 Printing and publishing, newspapers and periodicals.	3	25,500			20,700	4,800	1	3	2,860	20	14,854
16 Saddlery and harness .....	3	1,345			85	1,260	4			2	1,056
17 Watch, clock, and jewelry repairing .....	6	2,795			1,175	1,620	5	1	240	2	1,320
18 All other industries <sup>1</sup> .....	39	1,311,317	83,650	595,600	423,644	703,423	39	185	156,009	2,388	1,073,687

<sup>1</sup> Embraces bottling, 1; brick and tile, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 2; clothing, women's, dressmaking, 2; confectionery, 2; dyeing and cleaning, 2; fertilizers, 1; foundry and machine shop products, 2; furniture, cabinetmaking, repairing, and upholstering, 2; furniture, factory product, 1; gas, illuminating and heating, 1; ice, manufactured, 2; iron and steel, 2; ironwork, architectural and

TABLE 9.—MANUFACTURES IN CITIES AND

1 Total for cities and towns .....	1,419	\$36,154,034	\$3,801,661	\$6,355,272	\$7,424,474	\$18,572,727	1,638	1,194	\$1,090,298	23,108	\$7,583,785
2 Alexandria .....	172	1,779,334	171,820	364,772	532,416	710,326	196	104	79,728	1,065	443,024
3 Berkley .....	48	1,740,919	764,050	141,550	233,484	601,885	46	56	64,301	1,186	485,434
4 Bristol .....	56	860,211	146,755	241,783	200,594	271,079	63	57	38,501	746	241,380
5 Buena Vista .....	22	921,135	8,200	191,415	330,718	390,802	21	24	33,888	890	126,698
6 Charlottesville .....	79	827,284	75,436	121,417	186,767	443,614	87	55	56,708	487	153,857
7 Danville .....	139	5,832,258	158,924	664,914	1,804,078	3,204,342	185	248	182,695	5,143	1,040,820
8 Fredericksburg .....	62	759,614	45,050	164,772	204,754	345,088	70	43	82,209	552	147,726
9 Hampton .....	40	189,377	14,800	14,450	22,967	137,160	43	13	7,024	217	110,352
10 Harrisonburg .....	55	521,673	62,550	100,895	102,530	255,598	66	12	15,352	244	78,558
11 Lexington .....	26	49,658	4,200	22,144	11,263	12,051	30	8	8,770	51	16,039
12 Lynchburg .....	168	3,445,557	159,938	434,951	1,199,849	1,650,819	214	111	109,247	2,462	731,206
13 Manchester .....	36	768,043	51,100	185,139	211,667	315,187	39	68	58,089	928	372,809
14 Martinsville .....	22	461,780	11,150	48,450	56,855	345,315	27	51	41,260	810	110,131
15 Newport News .....	123	14,999,735	1,953,982	3,239,616	1,672,219	8,138,918	133	144	214,117	5,675	2,556,938
16 Portsmouth .....	103	1,170,144	64,500	147,589	228,939	788,116	111	107	82,636	1,164	483,763
17 Salem .....	40	421,473	4,437	69,070	70,925	277,041	53	13	13,310	181	68,315
18 Staunton .....	89	438,270	46,827	50,862	111,775	228,806	103	15	10,263	316	90,715
19 Suffolk .....	67	402,079	24,932	49,211	102,110	225,826	73	23	22,375	881	197,849
20 Winchester .....	72	661,640	32,910	102,272	140,554	285,904	73	42	27,325	635	128,176

BY SPECIFIED INDUSTRIES: 1900—Continued.

## RICHMOND—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
188	\$87,489			2	\$416	\$12,469	\$9,092	\$910	\$2,467		\$188,190	\$187,184	\$1,006	\$365,285	87
225	127,057	61	\$14,482	5	546	95,913	6,705	4,238	30,798	\$54,172	147,000	141,898	5,111	588,682	88
203	120,144	17	6,144	5	638	112,166	8,963	2,326	58,079	42,198	83,778	70,654	4,110	448,572	89
82	10,500					2,216	216	130	1,870		43,910	43,750	160	79,040	40
74	25,100			1	160	7,020	8,886	605	2,579		121,827	120,296	1,031	234,021	41
19	7,811	78	10,070	7	600	16,064	1,760	159	14,145		21,354	20,400	954	79,143	42
47	23,049					3,385	2,075	364	946		52,692	52,335	357	128,971	43
1,224	\$24,993	864	139,066	240	20,987	2,118,034	17,420	32,459	2,068,155		1,926,504	1,902,665	23,839	5,223,738	44
435	120,185	1,746	847,612	112	14,879	2,308,974	6,175	5,429	2,357,370		1,021,703	1,016,682	5,021	4,380,745	45
297	44,655	354	29,739	11	398	26,496	8,025	2,014	15,467		739,072	734,005	4,467	924,325	46
4	2,390					410	800		110		1,480	1,470	10	7,150	47
99	22,118			1	150	7,050	5,638	244	968	200	11,692	11,327	365	69,125	48
1	300					188	168		20		607	492	15	2,820	49
8,773	1,187,821	484	90,439	148	20,992	409,476	20,793	40,107	347,118	1,403	4,078,802	3,958,519	120,288	6,858,258	50

stamps, 2; iron and steel, 2; kaolin and other earth grinding, 1; leather, tanned, curried, and finished, 2; lime and cement, 1; liquors, malt, 1; lithographing and engraving, 2; marble and stone work, 1; masonry, brick and stone, 2; mattresses and spring beds, 2; paper and wood pulp, 2; patent medicines and compounds, 2; perfumery and cosmetics, 1; photolithographing and photoengraving, 1; pickles, preserves, and sauces, 2; printing materials, 1; sewing machine repairing, 1; shipbuilding, iron and steel, 1; tin and tern plate, 1; tools, not elsewhere specified, 1; trunks and valises, 1; upholstering materials, 1; varnish, 1; woodenware, not elsewhere specified, 1.

## ROANOKE.

2,570	\$1,163,114	84	\$10,066	84	\$4,762	\$122,145	\$10,095	\$9,754	\$91,176	\$5,120	\$3,730,926	\$3,898,109	\$332,757	\$5,709,817	1
2	1,020			1	84	486	828	18	90		2,379	2,267	112	4,900	2
9	2,757			1	120	422	284	18	120		2,480	2,386	94	9,850	3
1	492			1	240	407	405	2			1,168	1,103	55	6,171	4
3	1,200	1	180			585	480	67	38		4,082	3,784	348	7,530	5
61	14,000			1	100	5,571	411	3	57	5,100	30,625	33,475	50	66,011	6
16	6,070					798	480	58	260		7,843	7,183	160	20,818	7
17	4,930	14	1,875			1,365	1,044	86	235		10,007	9,825	182	25,374	8
9	3,780					1,177		327	850		196,392	195,372	1,020	224,172	9
		20	4,030	2	140	3,091	2,580	126	385		18,028	17,822	206	35,050	10
14	6,025					1,148	840	82	206	20	10,498	10,438	60	21,950	11
1	384	1	150			961	522	19	420		1,866	1,823	43	6,650	12
26	7,940			1	169	779	702	59	18		11,235	11,105	130	25,500	13
52	31,480	22	959			7,428	1,800	215	5,413		40,958	39,788	1,225	96,064	14
20	14,354					3,781	1,120	121	2,490		5,919	5,202	717	31,475	15
2	1,056					341	312	13	16		1,409	1,377	32	4,400	16
2	1,820					741	651	15	75		1,112	1,025	87	7,780	17
2,835	1,065,706	26	3,472	27	3,909	93,164	4,136	8,525	80,593		3,379,535	3,051,299	323,236	5,113,222	18

ornamental, 1; jewelry, 1; liquors, malt, 1; lock and gun smithing, 1; looking-glass and picture frames, 1; lumber and timber products, 1; lumber, planing mill products, including sash, doors, and blinds, 2; monuments and tombstones, 1; patent medicines and compounds, 1; plastering and stuccowork, 1; roofing and roofing materials, 1; tinsmithing, coppersmithing, and sheet-iron working, 2; tobacco, chewing, smoking, and snuff, 1; tobacco, cigars and cigarettes, 2.

## TOWNS UNDER 20,000 IN POPULATION: 1900.

17,194	\$6,765,488	3,776	\$602,249	2,138	\$216,048	\$2,062,627	\$228,997	\$132,071	\$2,386,149	\$265,410	\$21,655,028	\$21,095,042	\$559,931	\$37,882,711	1
947	421,000	99	20,565	19	1,459	282,115	12,419	9,810	248,983	10,903	788,671	764,783	23,888	1,890,383	2
1,021	463,906	169	20,722	6	806	117,420	10,627	7,367	72,276	27,150	1,482,572	1,476,901	5,671	2,991,043	3
712	236,883	20	3,160	14	1,897	38,056	6,169	7,585	24,312		579,654	542,005	37,559	1,092,628	4
353	118,706	37	7,092			30,495	1,204	2,066	26,685		1,063,877	888,689	175,188	1,477,150	5
346	126,237	139	27,420	2	200	48,938	7,895	3,293	27,840	5,000	887,690	878,977	8,713	858,144	6
2,605	684,060	1,585	253,268	953	103,483	678,040	54,691	46,345	566,684	10,320	5,187,771	5,142,501	45,270	8,108,484	7
383	123,662	138	20,746	81	3,818	29,369	5,191	3,251	20,677	250	454,411	440,973	13,438	810,242	8
208	108,428	6	1,504	3	420	57,477	6,631	471	2,175	48,200	815,196	311,568	3,628	578,466	9
227	70,169	8	1,526	9	858	30,187	2,317	2,674	19,571	5,125	458,558	453,181	5,377	682,654	10
47	15,239	4	800			7,524	2,605	548	453		28,874	28,855	5,019	77,594	11
1,822	648,504	446	70,551	184	12,151	634,713	32,644	12,021	563,998	76,050	2,331,380	2,270,192	61,188	4,503,037	12
781	343,643	114	24,475	28	4,691	56,641	6,374	3,857	48,410	3,000	1,178,131	1,158,486	24,645	1,746,192	13
403	80,036	141	13,769	266	16,326	304,280	8,111	4,429	296,740		262,238	257,935	4,298	781,286	14
5,893	2,503,294	49	10,068	323	43,576	297,411	21,407	12,914	200,990	62,100	3,369,546	3,275,344	94,201	6,076,670	15
942	446,487	107	31,835	45	5,441	95,644	27,025	5,322	62,633	614	968,752	954,448	14,304	1,854,997	16
164	64,665	11	3,000	6	650	82,510	2,314	1,555	77,441	1,200	533,254	528,037	5,217	768,435	17
232	78,616	73	10,924	11	1,175	41,727	9,978	3,084	22,085	6,580	622,142	613,030	9,082	900,750	18
478	156,646	244	29,739	159	11,665	48,979	10,697	1,608	36,674	6,294	1,058,712	1,058,712	6,294	1,499,068	19
220	69,990	336	50,194	79	7,992	36,101	5,208	3,421	22,472	5,000	582,306	565,305	17,001	890,493	20

# WASHINGTON.

Washington was organized as a territory March 2, 1853, being set off from Oregon. The Eighth Census (1860) was the first, therefore, in which the statistics of Washington were published separately. In 1863 the territory was reduced to its present area, so that the statistics for 1870 are the earliest that are strictly comparable with the later censuses. Washington was admitted as a state November 11, 1889.

Table 1 shows the manufacturing and mechanical indus-

tries of the state as returned at the censuses of 1860 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, 1860 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.					PER CENT OF INCREASE.			
	1900	1890	1880	1870	1860	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870
Number of establishments	3,631	1,543	201	209	52	135.3	491.2	13.0	417.3
Capital	\$52,649,760	\$34,369,735	\$3,202,497	\$1,893,674	\$1,296,200	53.2	973.2	69.1	46.1
Salaries of officials, clerks, etc., number	2,242	2,169	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	32.7			
Salaries	\$2,164,024	\$1,046,720	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	31.4			
Wage-earners, average number	33,806	18,677	1,147	1,026	870	31.0	1,628.3	11.8	17.9
Total wages	\$19,106,873	\$11,011,894	\$532,226	\$574,936	\$453,601	73.5	1,969.0	17.4	26.7
Men, 16 years and over	32,325	18,064	1,110	1,025	866	78.9	1,627.4	8.3	18.4
Wages	\$18,669,237	\$10,802,496	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	72.8			
Women, 16 years and over	1,216	483	25	1	4	161.8	1,832.0	2,400.0	175.0
Wages	\$333,970	\$186,562	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	105.8			
Children, under 16 years	265	130	12	( <sup>a</sup> )	( <sup>a</sup> )	103.8	983.3		
Wages	\$53,666	\$22,836	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	135.0			
Miscellaneous expenses	\$3,860,455	\$2,180,557	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	77.0			
Cost of materials used	\$19,090,182	\$19,917,057	\$1,907,469	\$1,435,128	\$502,021	146.5	912.3	37.1	185.9
Value of products, including custom work and repairing	\$36,795,051	\$41,708,022	\$3,250,134	\$2,851,052	\$1,406,921	107.8	1,185.1	14.0	102.6
Total population	511,786	349,390	75,116	28,955	11,594	46.5	365.1	213.6	106.0
Wage-earners engaged in manufactures	33,806	18,677	1,147	1,026	870	31.0	1,628.3	11.8	17.9
Per cent of total population	6.6	5.3	1.5	4.3	7.5				
Assessed value of real estate	\$177,822,995	\$177,204,671	\$11,385,923	\$5,140,776	\$1,876,063	0.3	1,468.2	120.3	174.3
Value of land and buildings invested in manufactures <sup>7</sup>	\$15,846,854	\$12,776,478	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	24.0			
Per cent of assessed value	8.9	7.2							

<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> Exclusive of 6,317 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

<sup>6</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>7</sup> Does not include value of rented property.

Table 1 shows the notable growth in the manufacturing and mechanical industries of Washington during the last forty years. The population during these years increased from 11,594 to 511,786, while the average number of wage-earners employed in manufacturing establishments increased from 870 to 33,806, embracing, in 1900, 6.6 per cent of the entire population, compared with 7.5 per cent in 1860. 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 52,347, or 10.2 per cent of the total population of the state. Measured by the value of products, the greatest percentage of increase was during the decade ending with the year 1890, although the greatest absolute increase, \$45,027,029, was between the years 1890 and 1900. The notable growth of the state in manufactures occurred, therefore, during these two decades. Previously the population increased more rapidly than the number of wage-earners engaged in manufactures.

The state of Washington possesses diversified and extensive natural resources, large navigable rivers and lakes,

spacious harbors, including the remarkable Puget Sound basin, and a geographical position which furnishes great commercial advantages. Falls and rapids abound, with great waterpower, the falls at Spokane alone being estimated at 35,000 horsepower.<sup>1</sup> Early industrial development was hindered by lack of transportation facilities, but rapid growth began in 1885, when through railroad communication was established with the older settled parts of the United States. Three transcontinental lines now have their termini at Seattle. In 1897 the discovery of gold in Alaska and in Yukon, and, later, the expanding trade with the Orient, gave new impetus to the industries of the state.

The mineral-bearing deposits of the state are not greatly developed, yet the coal mines in 1899 produced 2,029,881 short tons.<sup>2</sup> The output of gold in 1899 was 33,156 fine ounces, and of silver, 256,000 fine ounces.<sup>3</sup> The largest part of the ore used in lead smelting is brought to Puget Sound

<sup>1</sup> Appleton's Universal Cyclopædia, Vol. XII, page 297.

<sup>2</sup> United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 503.

<sup>3</sup> Ibid., page 127.

from the Cœur d'Alene district in Idaho, that it may meet the fuel and encounter ores carrying the precious metals.<sup>1</sup> Much is imported from British Columbia and Mexico. Of the ore used in copper smelting the greater part is of domestic production.

<sup>1</sup>United States Geological Survey: Mineral Resources, 1899, Metallic Products, Coal, and Coke, page 227.

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, 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.

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.....	3,952	\$53,866,322	4,448	84,028	\$19,178,659	\$3,872,908	\$49,253,881	\$16,842,807	\$30,461,281	\$1,950,298	\$87,105,242
Hand trades <sup>1</sup> .....	1,418	2,774,105	1,031	4,973	3,443,882	843,172	5,743,572	369,296	5,202,482	171,794	12,648,861
Governmental establishments.....	2	851,051		86	66,821		70,509		67,859	2,650	187,830
Penal institutions.....	4	213,751				2,974	57,899	41,816	4,679	11,404	88,914
Establishments with a product of less than \$500.....	815	151,780	842	136	4,965	9,479	26,291	2,265	24,026		83,947
All other establishments.....	2,213	49,876,655	2,475	28,838	15,662,991	8,017,288	48,855,610	16,428,980	25,162,285	1,764,445	74,148,630

<sup>1</sup>Includes bicycle and tricycle repairing, 50; blacksmithing and wheelwrighting, 267; boots and shoes, custom work and repairing, 143; carpentering, 209; clothing, men's, custom work and repairing, 159; clothing, women's, dressmaking, 71; dyeing and cleaning, 18; furniture, cabinetmaking, repairing, and upholstering, 37; lock and gun smithing, 21; masonry, brick and stone, 38; millinery, custom work, 59; painting, house, sign, etc., 94; plastering and stuccowork, 18; plumbing, and gas and steam fitting, 79; sewing machine repairing, 1; taxidermy, 2; typewriter repairing, 1; watch, clock, and jewelry repairing, 121.

Of the 3,952 establishments of all classes shown in this table, 1,733, or 43.9 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

\$12,780,808, or only 14.6 per cent of the total value of the products of the state.

In addition to the 3,952 active establishments in the state during the census year, with a capital of \$53,866,322, shown in Table 2, there were 42 idle establishments, with a capital of \$8,479,707, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Agricultural implements.....	1	\$50,000	Glass.....	1	\$80,000
Brick and tile.....	6	29,958	Iron and steel (blast furnace).....	1	463,556
Fish, canning and preserving.....	2	60,800	Lumber and timber products.....	12	7,714,493
Flouring and grist mill products.....	2	17,500	Woolen goods.....	1	50,280
Fruits and vegetables, canning and preserving.....	12	18,946	All other industries.....	4	9,110

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 1890	1,891 755	\$37,811,584 27,663,374	23,080 12,836	\$12,445,522 7,083,167	\$2,043,117 1,698,177	\$30,070,488 18,255,159	\$52,769,825 27,854,282
Increase, 1890 to 1900.....		636	10,148,210	10,244	5,362,355	344,940	16,815,329	25,415,543
Per cent of increase.....		84.2	36.7	79.8	75.7	20.8	126.9	92.9
Per cent of total of all industries in state.....	1900 1890	88.8 48.9	71.8 80.5	68.3 68.7	65.1 64.8	52.9 77.9	61.2 66.6	60.8 65.5
Cars and general shop construction and repairs by steam railroad companies.....	1900 1890	16 4	944,800 272,195	956 342	653,205 276,628	14,264	760,858 175,492	1,479,680 401,561
Cheese, butter, and condensed milk, factory product.....	1900 1890	60 8	804,178 9,850	146 3	80,935 1,050	16,516 262	932,190 24,475	1,190,239 38,100
Fish, canning and preserving.....	1900 1890	36 7	2,222,726 820,790	2,190 316	711,214 68,820	285,353 33,801	3,086,865 846,532	4,831,088 525,000
Flouring and grist mill products.....	1900 1890	85 88	2,698,282 1,140,630	488 170	281,310 97,968	167,070 85,764	5,803,909 2,013,804	6,875,672 2,460,809
Foundry and machine shop products.....	1900 1890	80 27	1,629,377 988,780	1,075 515	694,675 445,632	38,577 58,766	970,092 559,652	2,257,643 1,847,700
Liquors, malt.....	1900 1890	25 13	1,506,762 1,828,329	211 209	171,456 176,970	385,884 193,186	294,565 424,637	1,230,525 1,178,806
Lumber and timber products.....	1900 1890	778 462	26,041,089 21,400,307	15,696 9,491	8,511,224 4,643,564	748,946 1,046,768	16,455,558 8,331,336	30,286,280 17,450,301

TABLE 3.—COMPARATIVE SUMMARY OF TEN LEADING INDUSTRIES: 1900—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.			
Lumber, planing mill products, including sash, doors, and blinds.	1900	29	\$762,120	647	\$329,896	\$66,152	\$685,268	\$1,257,869
	1890	39	899,765	839	645,942	48,087	1,001,896	2,030,279
Printing and publishing:								
Total	1900	246	1,159,166	930	501,806	242,940	846,148	1,855,730
	1890	145	1,197,108	780	645,078	226,521	809,460	1,678,641
Book and job	1900	58	363,052	304	136,306	40,084	189,603	584,638
	1890	20	161,926	118	99,711	21,145	75,823	278,477
Newspapers and periodicals	1900	188	796,114	626	315,500	202,906	206,540	1,321,044
	1890	125	1,035,182	662	545,367	205,376	284,127	1,400,064
Ship and boat building, wooden	1900	36	548,084	741	510,301	82,415	735,050	1,505,649
	1890	17	156,620	171	84,505	5,037	68,885	188,685

The 10 leading industries of the state in 1900, as shown in Table 3, embraced 1,391 establishments, or 38.3 per cent of the total number in the state; used a capital of \$37,811,584, or 71.8 per cent of the total; gave employment to 23,080 wage-earners, or 68.3 per cent of the total number; and paid \$12,445,522, or 65.1 per cent of the total wages. The value of their products was \$52,769,825, or 60.8 per cent of the total. In the discussion of Table 3, which follows, the 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 778 establishments reported in 1900 gave employment to 15,096 wage-earners, or 46.4 per cent of the wage-earners in the state, and their products were valued at \$30,286,280, or 34.9 per cent of the total value of the products of the state. In 1890 there were 462 establishments, 9,491 wage-earners, and products valued at \$17,450,301. The increase in the value of products during the decade was \$12,835,979, or 73.6 per cent. A period of special activity marked the close of the decade, 226 establishments having begun operations during the census year. The total stand of merchantable timber in the Puget Sound district, or that part of the state west of the Cascade Mountains, is very large. More than 95 per cent of the entire product of the lumber industry in 1900 was reported from the 19 counties of this section, the center being in King county, where there were 72 establishments, having an aggregate product valued at \$5,220,548, or more than one-sixth of the total value of the lumber and timber products of the state. The characteristic products of these mills are red fir lumber and cedar shingles. The first waterpower sawmill was built at Tumwater, about two miles from Olympia, in 1847, and the first logging company was organized at Olympia in 1848.<sup>1</sup> The first steam sawmill in the state was built in 1853, on a site now in the business center of Seattle. The first shingle mill was built in 1854, on McAllister Creek, near the mouth of the Nesqually River.

The manufacture of flouring and grist mill products ranked second among the industries of the state in 1900,

with 85 establishments, 488 wage-earners, and products valued at \$6,875,672. In 1890 there were 38 establishments, 170 wage-earners, and products valued at \$2,460,809. The increase in the value of products during the decade was \$4,414,863, or 179.4 per cent. The products in 1900 included 1,868,780 barrels of wheat flour, some of which was exported to China and Japan. Before 1839 Marcus Whitman built a gristmill for his colony at Wallawalla,<sup>2</sup> but the first on Puget Sound did not come into existence until 1846, at the falls of the Deschutes River, about two miles from Olympia.<sup>3</sup>

There were 36 establishments engaged, in 1900, in fish canning and preserving, the industry third in rank, with 2,190 wage-earners, and products valued at \$4,831,038. In 1890 there were 7 establishments, 316 wage-earners, and products valued at \$525,000. The increase in the value of products during the decade was \$4,306,038, or 820.2 per cent. The business of packing and preserving fish, both for domestic use and for sale, began with the settlement of the territory. Salmon and oysters were first shipped to San Francisco in 1850-1851.<sup>4</sup> The waters teemed with fish, and not until the establishment of canneries was there any perceptible decrease in their numbers. The new systems and methods introduced soon depleted the rivers, and in order to restock them the state, in 1895-1896, built its first fish hatchery, on the Kalama River, a tributary of the Columbia.<sup>5</sup> In 1900 the state owned 14 hatcheries, and turned out 57,156,500 young salmon—16,635,500 into the Columbia and 40,521,000 into other rivers.<sup>6</sup>

There were 80 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 1,075 wage-earners, and products valued at \$2,257,648. In 1890 there were 27 establishments, 515 wage-earners, and products valued at \$1,347,700. The increase in the value of products during the decade was \$909,948, or 67.6 per cent. Foundries and machine shops were necessary

<sup>2</sup>History of Marcus Whitman and the Early Days of Oregon, by Wm. A. Mowry, page 108.

<sup>3</sup>The Works of H. H. Bancroft, Vol. XXXI, page 8.

<sup>4</sup>Marine History of the Pacific Northwest, by Lewis and Dryden, page 32.

<sup>5</sup>Report of Washington Fish Commissioner, 1897-1898.

<sup>6</sup>Ibid., 1899-1900.

<sup>1</sup>Pioneer Days on Puget Sound, by A. A. Denny.

adjuncts of sawmills, and some of the early mill companies also made castings for other mills and for steamboats. The first regular custom foundry and machine shop was established at Olympia in 1855.

There were 246 establishments engaged in printing and publishing in 1900, with 930 wage-earners, and products valued at \$1,855,730. In 1890 there were 145 establishments, 780 wage-earners, and products valued at \$1,678,541. The increase in the value of products during the decade was \$177,189, or 10.6 per cent. The first newspaper published in Washington was *The Columbian*, established at Olympia, September 11, 1852.

There were 36 establishments engaged in wooden ship and boat building in 1900, with 741 wage-earners, and products valued at \$1,505,649. In 1890 there were 17 establishments, 171 wage-earners, and products valued at \$188,685. The increase in the value of products during the decade was \$1,316,964, or 698 per cent. Ship and boat building, one of the pioneer industries of Washington, was begun at several places in 1858.<sup>1</sup> The first steamboat built in the territory was the *Julia Barclay*, at Port Blakeley, in 1858.<sup>2</sup> Many kinds of craft, ranging from the launch to the battleship, are now constructed at the Washington shipyards. The Washington fir is said to furnish timber peculiarly adapted to shipbuilding because of its great strength, durability, and excellent texture.

There were 16 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 956 wage-earners, and products valued at \$1,479,680. In 1890 there were 4 establishments, 342 wage-earners, and products valued at \$461,561. The increase in the value of products during the decade was \$1,018,119, or 220.6 per cent.

There were 29 establishments engaged in the manufacture of planing mill products in 1900, with 647 wage-earners, and products valued at \$1,257,869. In 1890 there were 39 establishments, 839 wage-earners, and products valued at \$2,030,279. The decrease in the value of products during the decade was \$772,910, or 38.1 per cent.

There were 25 establishments engaged in the manufacture of malt liquors in 1900, with 211 wage-earners, and products valued at \$1,230,525. In 1890 there were 13 establishments, 209 wage-earners, and products valued at

\$1,178,306. The increase in the value of products during the decade was \$52,219, or 4.4 per cent. The first brewery in the state was built at Steilacoom, Pierce county, in 1854. The beer was brewed in an open 5-barrel kettle suspended from a crane over an open fire. The state produces both barley and hops of a superior quality in quantities sufficient for domestic uses. In 1899 the barley crop was 1,410,360 bushels.<sup>3</sup>

There were 60 establishments engaged in the factory manufacture of cheese, butter, and condensed milk in 1900, with 146 wage-earners, and products valued at \$1,190,289. In 1890 there were 3 establishments, 3 wage-earners, and products valued at \$33,100. The increase in the value of products during the decade was \$1,157,189. The state has good dairying facilities, and there is an increasing demand for butter and cheese, much of which is still supplied by other states. In 1900 the creameries and cheese factories produced 3,198,421 pounds of butter and 1,482,127 pounds of cheese. The first creamery operated continuously in Washington was built at Ridgefield, Clarke county, in 1886.

Slaughtering and meat packing can not be shown in the comparative summary of leading industries, because the figures in 1890 were not published separately. The combined products of the 18 slaughtering and meat packing establishments reported in 1900 amounted to \$4,892,857. There are several other important industries the statistics of which can not be shown, because the number of establishments in each is less than 3, and publication of the figures would disclose the operations of individual establishments. These industries include copper smelting and refining, the manufacture of iron and steel, lead smelting and refining, and the manufacture of paper and wood pulp. The paper mills not only supply the local market and the markets of the other Pacific coast states, but export products to Hawaii, Australia, China, and Japan.<sup>4</sup>

#### URBAN MANUFACTURES.

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

<sup>1</sup> Marine History of the Pacific Northwest, page 53.

<sup>2</sup> Ibid., page 74.

<sup>3</sup> Yearbook of the Department of Agriculture, 1899, page 768.

<sup>4</sup> State of Washington, Its Resources, Natural, Industrial, and Commercial, 1901, page 160.



TABLE 4.—COMPARATIVE SUMMARY, SEATTLE AND TACOMA, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Num-ber of estab-lish-ments.	Capital.	WAGE-EARNERS.		Miscella-neous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State.....	1900	3,631	\$52,649,760	33,806	\$19,106,878	\$3,860,455	\$49,099,182	\$86,795,051
	1890	1,543	84,869,735	18,677	11,011,894	2,180,557	19,917,057	41,768,022
Per cent of increase .....		185.8	59.2	81.0	73.5	77.0	146.5	107.8
Seattle.....	1900	953	10,181,651	8,480	5,575,258	1,479,604	14,211,191	26,873,402
	1890	331	4,758,283	3,768	3,088,731	495,061	4,778,884	10,203,007
Per cent of increase .....		187.9	112.9	125.1	80.8	193.9	197.4	158.5
Tacoma.....	1900	381	8,146,091	4,847	2,856,028	461,017	7,889,106	12,029,497
	1890	225	7,227,201	3,658	2,723,285	464,674	5,171,058	10,432,955
Per cent of increase .....		69.3	12.7	18.8	13.5	10.8	42.9	15.8
Total for 2 cities.....	1900	1,334	18,278,342	12,827	7,931,281	1,940,621	21,600,957	38,402,899
	1890	556	11,985,484	7,426	5,806,966	959,735	9,950,042	20,635,962
Per cent of increase .....		139.9	52.5	72.7	36.6	102.2	117.1	86.1
Per cent of 2 cities to total for state .....	1900	36.7	34.7	37.9	41.5	50.8	44.0	44.2
	1890	36.0	34.9	39.8	32.7	44.0	50.0	49.4

1 Decrease.

It appears from Table 4 that there has been a large increase during the past decade in the manufactures of these 2 cities. The number of establishments increased from 556 to 1,334, or 139.9 per cent; the average number of wage-earners from 7,426 to 12,827, or 72.7 per cent; and the value of products from \$20,635,962 to \$38,402,899, or 86.1 per cent.

Seattle, the leading manufacturing city of the state, shows the more rapid growth. The number of establishments increased from 331 to 953, or 187.9 per cent; the

average number of wage-earners from 3,768 to 8,480, or 125.1 per cent; and the value of products from \$10,203,007 to \$26,873,402, or 158.5 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 26.2, 25.1, and 30.4 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 9 cities withdrawn from the enumerators and places them in comparison with the totals for the entire state and the state exclusive of these cities.

TABLE 5.—URBAN MANUFACTURES.

	Num-ber of estab-lish-ments.	Capital.	Propri-eters and firm mem-bers.	WAGE-EARNERS.		Miscella-neous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for state .....	3,631	\$52,649,760	4,106	33,806	\$19,106,878	\$3,860,455	\$49,099,182	\$86,795,051
Total for urban manufactures.....	1,871	25,453,897	2,026	17,356	10,288,488	2,820,343	20,085,867	51,219,242
Dayton.....	47	274,665	50	69	40,645	18,947	430,941	578,516
Everett.....	84	1,681,540	83	900	509,009	168,022	1,820,628	2,808,882
Fairhaven.....	30	1,163,291	30	1,026	287,493	101,803	1,044,009	1,609,015
New Whitcomb.....	71	448,219	75	359	195,394	81,845	298,237	648,931
Seattle.....	953	10,181,651	1,071	8,480	5,575,258	1,479,604	14,211,191	26,873,402
Snohomish.....	22	187,625	23	130	73,182	15,976	316,052	484,446
Spokane.....	213	2,678,823	225	1,779	1,080,618	414,526	2,854,468	5,427,540
Tacoma.....	381	8,146,091	385	4,847	2,856,028	461,017	7,889,106	12,029,497
Walla Walla.....	70	790,883	84	266	170,860	74,103	725,685	1,184,513
Total for state exclusive of urban manufactures .....	1,760	27,106,863	2,080	16,450	8,818,385	1,040,112	20,013,815	35,576,800
Per cent of urban manufactures to total for state.....	51.5	48.8	49.3	51.3	53.8	73.1	50.2	59.0

Of the 3,631 establishments in the state, 1,871, or 51.5 per cent, were located in these 9 cities. They furnished employment to 17,356 wage-earners, or 51.3 per cent of the total number, and the value of their products, \$51,219,242, formed 59 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 Seattle, Spokane, and Tacoma by specified industries.

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



TABLE 6. --MANUFACTURES

[No manufactures reported]

	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.....	3,631	\$52,649,760	\$10,504,214	\$5,342,640	\$15,563,786	\$21,239,170	4,106	2,242	\$2,104,024	33,806	\$19,106,873
2	Adams <sup>1</sup> .....	7	35,755	1,375	4,250	12,880	17,250	8			15	7,700
3	Asotin.....	10	81,530	25,290	6,815	14,375	35,550	14			24	9,700
4	Chehalis.....	163	4,107,531	989,906	223,895	1,237,116	1,656,614	206	84	96,337	2,716	1,416,245
5	Clallam.....	84	207,814	56,150	20,200	93,985	97,479	38	11	11,265	291	120,812
6	Clarke.....	89	904,526	75,172	185,050	406,584	237,720	117	16	16,270	885	184,135
7	Columbia.....	55	400,055	26,700	73,265	81,690	218,400	60	13	11,880	135	83,233
8	Cowlitz.....	62	1,040,863	442,420	24,370	834,940	239,124	80	20	17,884	533	277,203
9	Douglas.....	7	19,475	1,120	2,525	5,800	10,530	9			4	2,544
10	Perry.....	16	72,065	7,200	8,400	25,145	31,320	22	1	600	87	30,730
11	Garfield.....	5	86,660	7,275	1,900	9,635	17,850	6			11	6,155
12	Island.....	22	140,375	29,465	2,475	42,890	65,545	33	10	6,170	201	102,163
13	Jefferson.....	49	983,140	209,430	109,433	236,940	292,332	52	25	13,630	428	211,632
14	King.....	1,061	12,482,206	2,019,027	790,163	3,659,539	6,013,477	1,176	350	764,362	10,175	6,444,655
15	Kitsap.....	18	2,407,896	732,748	132,460	803,992	738,696	18	41	38,029	1,045	479,664
16	Kittitas.....	90	289,528	110,075	23,319	85,291	70,343	102	5	2,560	147	75,763
17	Klickitat.....	22	129,415	22,770	19,790	44,915	41,940	33	4	4,100	45	19,205
18	Lewis.....	119	1,269,354	330,973	185,170	355,674	397,537	132	44	37,902	766	376,639
19	Lincoln.....	54	451,181	23,735	43,720	137,337	241,389	67	15	11,028	83	46,686
20	Mason.....	24	1,519,102	625,099	35,455	415,935	442,613	18	34	44,380	1,315	939,014
21	Okanogan.....	11	59,286	8,265	6,400	23,365	21,256	14	5	2,880	33	20,143
22	Pacific.....	49	609,797	75,603	97,940	174,094	262,160	57	20	18,010	413	203,312
23	Pierce.....	455	8,515,365	1,570,636	1,063,793	2,224,369	3,650,537	473	304	337,160	4,791	2,569,842
24	San Juan.....	11	521,442	52,037	97,613	181,238	181,238	6	23	19,259	159	65,916
25	Skagit.....	90	2,058,380	667,739	189,690	675,571	525,380	97	63	66,050	1,212	652,869
26	Skamania.....	12	100,497	31,970	2,625	42,733	23,169	15	2	1,066	51	26,554
27	Snohomish.....	197	3,779,437	537,791	550,761	1,230,660	1,401,275	236	131	134,905	2,300	1,335,314
28	Spokane.....	283	3,435,531	222,225	593,540	1,239,956	1,374,710	315	276	250,335	2,039	1,197,845
29	Stevens.....	40	356,125	31,880	99,885	75,800	143,560	42	16	29,130	265	222,948
30	Thurston.....	86	1,342,289	571,745	78,270	299,815	392,459	104	41	41,555	565	300,791
31	Wahkiakum.....	23	545,627	111,800	39,775	150,935	243,117	31	39	23,790	267	144,393
32	Wallawalla.....	88	967,774	115,730	195,775	195,557	460,712	103	26	26,833	293	133,761
33	Whitcom.....	190	3,049,356	894,458	303,389	844,410	1,447,099	207	107	112,504	2,751	1,181,420
34	Whitman.....	136	577,632	68,614	80,405	182,627	245,986	156	9	8,460	223	105,673
35	Yakima.....	53	137,701	23,249	25,595	43,054	45,803	59	7	7,150	95	52,333

<sup>1</sup> One establishment in Franklin county included in Adams county to avoid disclosing operations of individual establishments.

TABLE 7. --MANUFACTURES BY

1 All industries.....	3,631	\$52,649,760	\$10,504,214	\$5,342,640	\$15,563,786	\$21,239,170	4,106	2,242	\$2,104,024	33,806	\$19,106,873
2 Awnings, tents, and sails.....	10	52,889	40	75	6,250	46,524	10	13	8,290	52	34,015
3 Bicycle and tricycle repairing.....	50	60,141	2,100	4,900	21,660	37,481	60	6	3,700	55	33,320
4 Blacksmithing and wheelwrighting.....	267	238,830	35,160	50,880	79,520	133,270	315	2	1,440	219	141,223
5 Bookbinding and blank book making.....	3	26,107			11,700	14,407	3	5	8,500	21	9,451
6 Boots and shoes, custom work and repairing.....	143	54,545	8,075	4,715	22,015	24,740	145			31	17,007
7 Boots and shoes, factory product.....	3	71,071			14,715	56,356	2	15	12,060	75	31,461
8 Bottling.....	3	210,036	13,000	31,000	21,150	144,886	3	11	15,240	68	28,900
9 Boxes, fancy and paper.....	3	17,650			9,000	8,650	4	2	1,000	10	2,560
10 Boxes, wooden packing.....	6	50,015	1,200	3,800	23,451	21,564	4	2	800	71	23,773
11 Bread and other bakery products.....	65	157,475	21,420	32,550	43,005	60,500	73	31	19,072	202	119,767
12 Brick and tile.....	32	370,325	100,662	98,150	74,384	96,529	29	27	27,520	329	185,834
13 Bridges.....	3	425,222	34,000	10,050	179,644	201,528	12	25	19,300	856	490,912
14 Brooms and brushes.....	7	33,700	1,350	6,050	3,050	22,750	10	2	1,800	37	17,310
15 Carpentering.....	209	580,540	60,950	43,750	81,472	394,368	241	22	27,000	1,955	1,374,130
16 Carriages and wagons.....	23	101,280	3,600	19,525	16,637	61,448	37	8	8,800	134	90,061
17 Cars and general shop construction and repairs by steam railroad companies.....	16	944,300	194,820	313,270	243,176	193,534		55	51,353	956	653,203
18 Cars and general shop construction and repairs by street railroad companies.....	3	511,000	13,000	54,500	122,500	321,000		10	12,880	145	105,492
19 Cheese, butter, and condensed milk, factory product.....	60	304,178	30,303	41,755	104,259	127,361	56	35	27,159	146	80,935
20 Clothing, men's, custom work and repairing.....	159	248,225	12,900	13,825	22,252	199,243	185	20	20,080	511	324,734
21 Clothing, women's, dressmaking.....	71	65,997	300	500	7,303	57,394	84	6	4,788	243	78,514
22 Clothing, women's, factory product.....	9	25,700			1,400	24,300	25	5	2,100	33	13,400
23 Coffee and spice, roasting and grinding.....	14	133,359	700	1,000	25,965	110,694	16	21	23,710	41	22,626
24 Confectionery.....	27	133,183	9,000	15,931	35,482	127,770	26	42	47,887	223	90,865
25 Cooperage.....	6	16,030	3,375	3,800	3,650	5,405	13	2	1,200	39	11,767
26 Dyeing and cleaning.....	13	13,670	4,500	1,700	4,705	2,765	21	1	420	37	17,670

# WASHINGTON.

929

BY COUNTIES: 1900.

from Chelan county.]

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
32,325	\$18,669,237	1,216	\$383,970	205	\$53,666	\$3,860,455	\$518,679	\$309,001	\$2,411,529	\$621,246	\$49,099,182	\$48,397,082	\$702,100	\$86,795,051	1
15	7,700					2,721	84	497	2,140		78,560	77,665	895	101,827	2
23	9,400					1,488	391	702	895		45,400	44,815	585	77,760	3
2,677	1,406,467	32	7,986	7	1,790	75,211	6,324	17,299	47,713	3,875	2,904,128	2,897,842	6,286	4,749,278	4
267	123,178	14	2,420	10	1,214	11,395	1,498	2,120	7,777		220,002	218,962	1,040	462,595	5
865	179,405	10	2,770	10	1,960	51,700	4,985	2,633	42,632	1,400	486,437	461,451	24,986	927,606	6
131	82,353	4	880			18,638	3,944	3,559	10,635	500	562,801	558,146	4,655	769,395	7
590	276,203	3	1,000			12,111	833	7,482	4,276		870,815	870,127	688	845,943	8
4	2,644					326	24	172	130		17,218	16,685	538	27,720	9
83	29,630	2	900	2	200	11,627	1,115	338	10,174		48,674	47,639	1,035	141,172	10
11	6,155					2,564	180	426	1,958		44,790	44,680	110	65,907	11
200	102,064			1	104	2,395	60	663	1,072		92,755	92,633	222	256,626	12
423	210,447	6	1,185			33,453	3,928	5,833	23,408	284	778,380	769,662	3,718	1,161,246	13
9,527	6,231,810	568	190,109	80	16,736	1,583,765	250,892	59,620	774,386	498,967	15,884,213	15,691,269	192,944	29,848,908	14
1,044	479,468			1	96	64,712	1,080	14,587	49,020	25	1,377,700	1,374,052	3,648	2,107,576	15
138	73,740	6	1,500	8	528	20,170	5,322	2,612	11,766	470	328,793	323,999	4,794	531,626	16
43	18,755	1	300	1	150	3,869	260	1,117	2,382	110	96,372	96,028	844	162,778	17
744	874,874	7	1,610	5	655	47,215	4,855	6,475	35,895		929,752	922,414	7,338	1,678,870	18
78	44,856	4	1,710	1	120	24,857	2,481	2,887	18,489	1,000	651,231	627,222	24,005	839,661	19
1,811	937,712	3	1,152	1	150	48,814	1,295	18,982	23,485	52	764,310	763,248	1,062	2,064,839	20
82	19,893	1	250			1,139	25	449	665		47,837	47,642	195	85,965	21
407	202,198			6	1,114	25,078	2,266	3,807	16,889	3,056	578,791	576,716	2,075	952,195	22
4,634	2,496,055	216	63,861	41	9,926	472,252	72,821	47,572	334,551	17,305	7,856,785	7,728,606	128,179	12,782,202	23
159	65,916					21,725	2,452	1,888	17,885		95,678	91,057	14,621	241,698	24
1,187	646,949	18	5,300	7	620	110,885	8,125	14,205	81,055	12,000	1,285,170	1,272,806	12,864	2,698,650	25
61	26,554					1,786	180	736	870		28,572	28,562	10	67,886	26
2,242	1,320,091	83	9,105	25	6,018	272,984	14,431	17,796	240,347	410	3,208,906	3,166,845	102,061	5,650,314	27
1,887	1,150,735	150	46,774	2	336	430,412	81,915	21,493	245,837	81,167	3,625,593	3,514,389	77,144	6,424,837	28
262	222,298	2	600	1	50	13,101	976	4,348	7,777		1,010,746	991,325	19,421	1,853,885	29
539	292,099	16	6,738	10	1,864	75,996	5,676	5,648	64,672		678,693	673,653	5,140	1,375,213	30
264	144,517	2	256	1	120	10,609	115	2,857	7,637		285,163	283,093	2,070	321,825	31
280	180,885	9	4,539	4	1,340	91,751	14,638	8,280	68,383	450	900,756	886,599	14,157	1,418,107	32
2,620	1,153,555	90	20,130	41	7,735	256,510	17,766	23,101	215,568	75	3,007,940	2,983,709	24,231	5,264,661	33
208	100,964	12	4,294	3	420	37,661	8,130	7,688	21,743	100	510,960	494,043	16,917	850,732	34
89	49,667	8	2,001	1	120	22,005	5,059	1,619	15,327		245,321	241,194	4,127	392,168	35

SPECIFIED INDUSTRIES: 1900.

32,325	\$18,669,237	1,216	\$383,970	205	\$53,666	\$3,860,455	\$518,679	\$309,001	\$2,411,529	\$621,246	\$49,099,182	\$48,397,082	\$702,100	\$86,795,051	1
82	25,911	18	7,634	2	500	7,489	3,908	365	8,181		121,595	120,700	895	208,901	2
58	32,875	1	182	1	263	16,104	10,081	609	5,414		53,810	52,100	1,701	153,315	3
219	144,223					22,608	13,919	2,801	5,783	100	221,573	197,015	23,658	652,374	4
8	5,930	10	2,934	8	587	1,197	750	118	3,129		10,999	9,699	390	88,154	5
81	17,007					13,165	10,553	379	2,343	90	53,754	52,796	958	159,440	6
50	23,990	22	7,011	8	460	14,937	2,958	206	11,773		102,599	101,804	785	166,428	7
56	25,825	10	2,600	2	475	26,081	1,476	980	23,625		419,724	417,839	1,885	563,179	8
2	900	8	1,660			874	535	10	349		4,652	4,592	60	9,800	9
59	24,917	6	1,784	6	2,092	3,709	965	353	1,619	772	62,214	60,568	1,646	120,905	10
174	112,341	20	5,210	8	2,216	81,414	20,396	1,494	9,524		320,494	309,843	10,651	654,316	11
324	184,674	1	600	4	500	29,339	2,998	2,375	14,966	9,000	81,206	10,617	70,589	426,553	12
856	490,912					73,187	1,144	902	69,821	1,300	391,392	385,942	5,450	1,102,645	13
34	17,050	1	480	2	280	2,407	768	245	1,394		45,988	45,594	394	90,650	14
1,955	1,374,180					338,684	13,677	2,517	35,503	286,987	2,187,815	2,183,543	4,267	4,635,270	15
132	89,153			2	908	9,724	5,488	816	2,820	650	112,039	107,182	4,907	289,068	16
955	652,780	1	425			14,264	280	11,614	2,420		760,853	737,054	23,804	1,479,680	17
145	105,492					40,720	800	5,336	24,584	10,000	152,353	149,153	3,200	310,945	18
127	76,115	16	4,495	3	325	16,516	4,615	1,904	9,997		932,190	919,281	12,909	1,190,239	19
416	289,350	95	35,384			69,105	51,054	2,356	14,235	1,460	367,896	364,805	3,691	991,848	20
13	8,200	230	70,314			15,421	12,055	144	3,222		102,297	101,485	812	268,088	21
31	12,680	2	720			4,188	2,956	102	1,130		89,800	89,735	65	93,694	22
31	18,886	8	3,092	2	648	12,050	5,990	591	5,804	165	300,812	297,563	3,249	388,495	23
116	60,583	111	30,162	1	120	21,513	9,830	1,136	10,547		307,975	300,903	7,072	592,574	24
89	11,757					961	114	150	697		11,768	11,768		33,396	25
25	13,822	11	3,728	1	120	4,038	2,940	88	1,035		6,171	4,532	1,639	80,678	26

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.
27	Electrical construction and repairs	7	\$71,050			\$12,650	\$58,400	10	8	\$10,000	29	\$27,560
28	Engraving, steel, including plate printing.	5	7,650			4,760	2,900	7			8	1,876
29	Fish, canning and preserving	36	2,222,726	\$118,288	\$284,804	457,473	1,362,161	36	116	93,117	2,190	711,214
30	Flavoring extracts	3	15,090			2,605	12,585	3	4	1,700	6	1,000
31	Flouring and grist mill products	85	2,693,282	180,715	379,052	645,077	1,487,838	75	107	123,198	488	281,810
32	Foundry and machine shop products	80	1,629,377	127,432	154,218	643,847	703,880	86	89	82,945	1,075	694,676
33	Fruits and vegetables, canning and preserving.	18	78,627	1,394	11,000	10,177	56,056	13	4	4,250	44	12,434
34	Fur goods	6	41,425			2,325	39,100	6	3	1,400	35	14,614
35	Furniture, cabinetmaking, repairing, and upholstering.	37	301,547	14,300	36,200	86,230	214,757	39	11	11,800	207	97,932
36	Furniture, factory product	12	227,250	24,200	61,500	39,270	102,280	15	20	14,018	213	94,324
37	Gas, illuminating and heating	6	1,620,992	215,504	51,963	1,288,687	64,838		37	25,526	81	42,048
38	Gloves and mittens	3	8,250			1,700	6,550	2	3	720	15	6,300
39	Hand stamps	5	11,665			8,115	3,550	6			8	3,696
40	Ice, manufactured	4	252,360	46,000	32,000	133,500	40,860	1	13	13,750	35	25,700
41	Jewelry	5	26,405			10,905	15,500	4	2	1,200	33	25,670
42	Leather, tanned, curried, and finished	3	17,000	1,000	2,500	1,600	12,500	6			3	2,125
43	Lime and cement	5	460,586	236,314	52,040	74,644	97,588		22	20,375	166	70,423
44	Liquors, malt	25	1,504,762	147,750	458,689	843,461	556,862	19	53	81,830	211	171,456
45	Lithographing and engraving	3	115,100			95,000	20,100	1	6	5,600	53	29,785
46	Lock and gun smithing	21	20,123	2,150	5,030	6,670	6,055	27			18	8,842
47	Looking-glass and picture frames	9	19,525			1,825	17,700	12			22	11,306
48	Lumber and timber products	778	26,041,089	8,195,054	1,765,419	7,464,933	8,615,683	978	674	668,255	15,696	8,611,224
49	Lumber, planing mill products, including sash, doors, and blinds.	29	762,120	40,764	63,341	184,075	473,950	22	57	59,860	647	320,396
50	Marble and stone work	10	108,774	70,200	4,270	10,452	23,852	13	8	6,540	56	38,648
51	Masonry, brick and stone	38	403,816	3,510	3,940	61,094	385,302	46	8	4,500	625	642,452
52	Mattresses and spring beds	5	88,750		500	7,800	30,950	7	4	5,000	84	38,707
53	Millinery, custom work	89	150,927	2,825	10,945	6,270	131,387	96	27	10,682	169	59,139
54	Mineral and soda waters	21	89,314	6,743	11,399	42,287	28,885	29	8	6,564	44	18,568
55	Models and patterns	3	1,865			1,155	710	3				
56	Monuments and tombstones	10	55,805	1,350	2,610	3,200	48,645	15	5	3,000	35	24,235
57	Optical goods	5	12,250			1,650	10,600	7			4	8,075
58	Oysters, canning and preserving	3	9,800			5,300	4,500	5	2	1,400	24	12,070
59	Painting, house, sign, etc	94	121,780	2,650	4,560	16,455	98,115	117	21	12,740	357	276,896
60	Paints	8	65,932	5,500	31,000	6,822	22,610	2	4	4,620	10	6,770
61	Patent medicines and compounds	7	16,049			2,625	13,404	6	4	3,737	84	22,070
62	Paving and paving materials	6	126,825		500	36,625	89,700	6	2	3,000	215	107,724
63	Photography	72	81,530	1,605	5,275	41,100	33,530	33	5	4,264	98	53,607
64	Pickles, preserves, and sauces	3	38,345			775	37,570	4	2	1,500	23	9,863
65	Plastering and stucco work	18	20,125			5,060	15,065	20			199	135,244
66	Plumbing, and gas and steam fitting	79	239,037	9,825	6,625	33,529	188,658	97	17	12,020	313	259,166
67	Pottery, terra cotta, and fire-clay products.	8	436,560	52,329	195,398	77,726	111,107	8	15	17,900	126	59,928
68	Printing and publishing, book and job.	58	363,052	6,540	5,210	250,814	100,488	63	39	37,059	304	186,806
69	Printing and publishing, newspapers and periodicals.	188	796,114	16,315	23,565	517,523	288,711	192	217	175,974	626	315,500
70	Roofing and roofing materials	3	38,920	900	435	4,036	28,549	8	5	4,832	21	9,276
71	Saddlery and harness	89	297,462	18,125	35,510	25,548	218,279	90	18	11,740	102	65,810
72	Saws	3	87,105	1,798	3,000	8,120	24,187	1	2	1,750	19	13,378
73	Ship and boat building, wooden	36	548,084	106,660	80,200	110,375	250,849	39	22	27,572	741	510,301
74	Shirts	4	4,050			1,100	2,950	6			14	4,568
75	Show cases	3	1,750			500	1,250	3			1	396
76	Slaughtering and meat packing, wholesale.	14	941,786	38,100	127,500	125,942	650,244	15	79	73,328	209	135,896
77	Slaughtering, wholesale, not including meat packing.	4	72,300	12,100	18,900	5,800	41,000	8	9	7,788	22	20,635
78	Soap and candles	4	18,900	250	750	6,800	11,100	1	7	6,840	19	8,145
79	Tinsmithing, coppersmithing, and sheet-iron working.	69	490,783	15,335	44,010	94,332	337,106	81	22	22,705	283	189,055
80	Tobacco, cigars and cigarettes	57	88,724	3,010	7,475	6,275	71,964	60	4	2,820	133	68,855
81	Umbrellas and canes	4	12,025			775	11,850	7			6	3,617
82	Vinegar and cider	4	22,400	1,450	5,000	3,150	7,800	7			5	2,475
83	Watch, clock, and jewelry repairing	121	185,130	24,250	26,650	47,835	80,425	134			96	73,073
84	Window shades	3	42,200			1,000	41,200	7	7	5,500	10	6,940
85	Wood, turned and carved	6	11,080	500	650	6,400	3,530	8	1		20	13,869
86	All other industries <sup>1</sup>	77	3,542,250	206,034	582,461	1,333,342	1,420,413	76	91	127,936	1,061	627,963

<sup>1</sup> Embraces agricultural implements, 2; ammunition, 1; artificial limbs, 1; habbit metal and solder, 1; baking and yeast powders, 1; belting and hose, leather, 1; boxes, cigar, 2; carpets, rag, 2; carriage and wagon materials, 1; china, decorating, 2; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 2; coke, 2; copper, smelting and refining, 1; cutlery and edge tools, 2; drug grinding, 1; electroplating, 2; enameling and enameled goods, 1; engraving and diesinking, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; food preparations, 1; gas and lamp fixtures, 2; hairwork, 2; hand knit goods, 1; hats and caps, not including fur hats and wool hats, 1; instruments, professional and scientific, 1; iron and steel, 1; ironwork, architectural and

## 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.										
29	\$27,560			1	\$262	\$6,407	\$4,755	\$147	\$1,405	\$100	\$186,142	\$185,870	\$772	\$213,400	27
2	1,611					1,142	625	26	401		2,423	2,313	110	10,649	28
2,086	693,480	73	\$13,730	31	4,004	285,853	6,989	20,619	242,689	15,056	3,086,965	3,053,568	33,297	4,831,038	29
2	500	4	500			560	402	28	130		4,830	4,805	25	10,055	30
474	278,450	12	2,400	2	460	167,070	10,017	16,551	137,922	2,580	5,803,909	5,739,212	64,697	6,875,672	31
1,069	693,115	1	360	5	1,200	83,577	13,504	7,865	60,858	1,850	970,092	922,996	47,096	2,257,643	32
15	5,839	24	5,675	5	970	2,077	1,130	302	1,245		24,781	23,227	1,554	63,141	33
8	5,374	27	9,240			7,528	5,530	369	879	750	89,874	39,724	150	83,486	34
204	96,882	2	950	1	100	25,590	7,614	2,822	13,554	1,000	225,265	222,900	2,965	450,394	35
199	91,838	8	2,056	6	930	21,860	2,800	3,111	15,949		183,967	180,501	8,466	412,613	36
81	42,048					81,097		9,901	71,196		76,929	76,630	299	815,938	37
3	4,000	7	2,300			620	480	39	110		9,735	9,690	45	24,685	38
8	2,310	4	1,200	1	160	1,930	965	71	894		3,503	3,458	45	14,570	39
35	25,700					10,735	1,600	1,285	7,950		17,318	4,956	12,362	103,600	40
32	25,540			1	130	3,866	2,424	250	1,192		42,525	40,560	1,965	89,748	41
3	2,125					580	130	170	280		25,701	25,480	221	32,605	42
164	69,823	2	600			17,466		1,537	15,900		76,094	58,214	17,450	213,538	43
210	171,206			1	250	385,584	2,022	9,681	874,181		294,505	280,318	84,247	1,230,525	44
51	29,080	2	725			2,970	2,100	170	640		24,900	24,145	764	70,086	45
13	8,812					3,899	2,990	160	749		10,345	9,936	409	88,236	46
19	10,806	8	1,000			4,130	3,350	105	675		29,475	29,345	130	62,400	47
15,603	8,483,203	50	16,412	43	11,609	748,946	25,932	144,748	578,266		16,455,553	16,453,657	1,896	30,286,280	48
640	328,192	4	588	3	616	66,152	6,930	4,671	54,551		685,263	679,474	5,780	1,257,369	49
55	83,336			1	312	3,879	531	538	1,685	680	26,403	24,968	1,450	130,250	50
625	542,452					203,688	2,400	514	15,464	135,220	1,162,810	1,158,566	4,244	2,228,999	51
72	34,528	8	3,350	4	829	3,858	1,940	876	1,042		74,790	73,645	1,145	151,800	52
2	1,660	167	67,629			30,602	21,874	1,428	7,575	125	249,878	248,398	1,455	454,307	53
39	17,739	1	195	4	934	10,924	2,238	462	8,231		60,971	59,103	1,868	154,069	54
36	24,235					138	133		5		450	440	10	2,470	55
3	2,475	1	600			5,238	1,514	343	1,781	1,600	46,755	46,475	280	122,700	56
22	11,550	2	520			3,409	1,490	24	1,895		7,877	7,677	200	17,605	57
357	276,836					1,240	610	41	598		88,061	87,901	160	65,980	58
9	6,620	1	150			30,709	16,220	1,088	10,496	2,955	271,702	271,084	618	770,408	59
29	20,690	5	1,380			1,082	463	140	479		81,436	80,991	445	57,500	60
212	106,788			3	936	5,074	1,526	89	8,459		12,973	12,874	99	60,565	61
54	35,288	44	18,319			13,568	920	148	3,460	9,050	87,278	82,753	4,525	306,980	62
12	6,983	11	2,880			26,772	13,724	703	7,345		103,147	103,885	759	296,791	63
139	185,244					2,478	900	232	1,946		87,901	87,631	360	129,698	64
312	259,034			1	182	8,857	986	96	1,775	6,000	100,812	100,766	46	302,010	65
124	59,612			2	316	34,287	14,762	1,346	12,330	5,850	644,099	640,723	3,376	1,158,855	66
250	163,895					7,599	225	2,156	5,218		29,892	14,295	15,097	167,804	67
535	291,216	41	14,933	13	2,478	40,034	20,785	2,814	14,537	2,398	139,603	133,584	6,019	534,686	68
21	9,276	50	18,924	41	5,360	202,906	82,246	4,513	111,018	55,124	206,540	190,682	16,858	1,821,044	69
100	65,102	1	600	1	103	1,574	60	95	1,419		27,108	26,898	210	78,900	70
19	13,378					31,528	15,533	3,440	11,555	1,000	285,988	284,197	1,791	513,825	71
732	508,051			9	2,250	3,752	900	144	2,708		21,945	20,600	1,345	54,783	72
1	230	13	4,338			32,415	4,879	2,917	20,265	5,454	785,050	728,674	6,376	1,505,649	73
1	306					2,970	900	10	260	1,800	7,697	7,612	85	20,700	74
207	184,996	2	900			430	303	6	121		2,456	2,450	6	5,620	75
22	20,635					66,156	9,033	3,804	53,319		3,736,658	3,723,222	10,436	4,293,953	76
13	6,150			5	1,125	13,852	1,390	480	11,932		515,777	513,312	2,465	593,904	77
249	131,573	19	4,650	15	2,832	8,869	1,446	223	7,200		66,646	62,736	3,910	105,140	78
117	64,757	9	2,646	7	1,452	37,365	13,667	3,511	19,637	700	505,839	501,420	8,919	943,220	79
5	3,420	1	197			85,936	9,213	568	29,215		126,910	126,434	476	293,833	80
5	2,475					1,659	1,404	84	171		8,170	8,170		26,617	81
91	71,085	4	1,288	1	100	1,076	218	110	750		9,461	8,888	578	24,160	82
9	6,600					25,785	18,053	1,484	5,538	710	83,147	81,875	1,272	287,446	83
20	13,800	1	280			2,476	1,380	326	770		55,050	55,050		86,289	84
1,003	610,512	40	18,190	18	4,261	2,167	795	60	1,312		10,606	9,951	655	36,026	85
						234,426	17,456	14,360	192,490	10,120	4,114,979	3,913,288	196,691	5,841,642	86

ornamental, 2; lead, smelting and refining, 2; leather goods, 1; malt, 2; musical instruments and materials, not specified, 1; nets and seines, 1; paper and wood pulp, 2; photolithography and photoengraving, 1; refrigerators, 1; rice, cleaning and polishing, 2; sausage, 1; sewing machine repairing, 1; shipbuilding, iron and steel, 1; stationery goods, not elsewhere specified, 1; steam fittings and heating apparatus, 1; steam packing, 1; stencils and brands, 1; stereotyping and electrotyping, 1; sugar and molasses, beet, 1; sugar and molasses, refining, 1; surgical appliances, 1; taxidermy, 2; tools, not elsewhere specified, 1; trunks and valises, 2; typewriter repairing, 1; upholstering materials, 2; wirework, including wire rope and cable, 1; wood, preserving, 2; wool pulling, 1.

TABLE 8.—MANUFACTURES IN CITIES

## SEATTLE.

		CAPITAL.						Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
MANUFACTURING AND MECHANICAL INDUSTRIES.		Number of establishments.	Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
1	All industries	953	\$10,131,651	\$1,440,701	\$597,024	\$3,080,039	\$5,003,887	1,071	768	\$684,602	8,480	\$5,575,253
2	Awnings, tents, and sails	4	30,724			2,900	27,824	4	12	8,130	34	24,495
3	Bicycle and tricycle repairing	9	19,755		1,000	5,650	13,105	12	3	1,900	14	9,720
4	Blacksmithing and wheelwrighting	12	11,650		575	2,275	8,700	17	1	600	13	11,529
5	Boots and shoes, custom work and repairing.	51	12,715	200	905	5,500	0,050	52			12	6,753
6	Bottling	4	180,136	5,000	22,000	19,300	133,836	2	11	15,240	59	23,440
7	Boxes, fancy and paper	3	17,650			9,000	8,650	4	2	1,000	10	2,560
8	Bread and other bakery products	25	63,325	6,300	7,700	19,260	30,065	27	11	6,480	95	64,132
9	Brick and tile	3	134,158	51,900	40,000	20,519	21,739	1	10	10,700	89	54,239
10	Bridges	6	375,222	34,000	10,050	172,141	159,028	8	25	19,900	801	474,912
11	Carpentering	137	470,122	55,000	33,300	55,677	326,145	156	20	24,720	1,372	1,032,346
12	Carriages and wagons	10	42,050		14,000	7,650	20,400	14	7	7,600	72	47,450
13	Cheese, butter, and condensed milk, factory product.	3	38,500	1,500	3,500	11,900	21,600	4	1	1,200	21	12,660
14	Clothing, men's, custom work and repairing.	62	93,750	900	1,200	9,085	82,565	78	15	15,040	269	170,952
15	Clothing, women's, dressmaking	35	16,900			4,600	12,300	39	1	600	123	40,907
16	Clothing, women's, factory product	7	13,350			1,050	17,300	23	5	2,100	26	9,920
17	Coffee and spice, roasting and grinding	12	121,680			22,065	99,515	15	20	22,510	36	20,334
18	Confectionery	13	95,125			18,775	79,350	12	30	36,962	153	65,337
19	Dyeing and cleaning	7	7,535	3,900	900	2,160	635	9	1	420	17	9,318
20	Electrical construction and repairs	5	68,000			11,800	56,200	9	8	10,000	22	23,700
21	Fish, canning and preserving	7	336,620	30,000	12,500	61,000	233,120	10	33	25,380	259	106,334
22	Flouring and grist mill products	6	469,802	40,000	23,500	95,650	305,652	1	23	22,180	73	43,524
23	Foundry and machine shop products	34	624,345	43,880	33,850	236,200	305,415	33	46	33,715	425	319,531
24	Fur goods	4	37,650			2,150	35,500	4	2	900	23	9,970
25	Furniture, cabinetmaking, repairing, and upholstering.	13	50,300	12,000	25,000	1,895	17,405	17	5	4,060	10	7,210
26	Furniture, factory product	8	71,500	2,000	6,000	13,370	50,130	12	10	8,998	66	33,175
27	Jewelry	3	21,905			8,905	13,000	2	2	1,200	28	21,980
28	Lock and gun smithing	4	2,400			950	1,450	3			5	2,750
29	Looking-glass and picture frames	4	7,125			925	6,200	4			17	8,870
30	Lumber and timber products	14	1,004,875	664,650	136,000	561,100	543,125	7	65	58,120	1,011	589,067
31	Lumber, planing mill products, including sash, doors, and blinds.	5	52,200	1,400	500	23,500	26,800	2	10	9,000	103	68,100
32	Marble and stone work	3	16,120	9,000	1,020	1,450	4,650	4			5	5,150
33	Masonry, brick and stone	33	398,315	2,510	8,040	59,865	332,900	40	3	4,500	585	510,432
34	Mattresses and spring beds	3	24,500		500	4,500	19,500	4	3	3,800	57	28,320
35	Millinery, custom work	19	56,780			2,240	54,540	21	16	5,890	75	34,271
36	Mineral and soda waters	3	38,294	2,468	2,649	17,337	10,795	4	6	4,800	9	4,395
37	Monuments and tombstones	3	27,675		1,200	1,100	25,375	5			16	13,565
38	Optical goods	4	11,450			1,450	10,000	5			4	3,075
39	Oysters, canning and preserving	3	9,800			5,300	4,500	5	2	1,400	24	12,070
40	Painting, house, sign, etc	60	76,465		1,500	11,035	63,930	75	19	11,780	246	202,033
41	Paving and paving materials	4	49,825			30,625	19,200	4	2	3,000	120	71,288
42	Photography	13	25,450			10,700	14,750	17	4	3,744	56	31,181
43	Plastering and stucco work	14	19,385			4,585	14,800	16			127	126,044
44	Plumbing, and gas and steam fitting	26	63,565		400	8,965	54,200	42	3	1,840	110	109,044
45	Printing and publishing, book and job	22	164,738			107,646	57,092	20	23	20,149	161	98,230
46	Printing and publishing, newspapers and periodicals.	40	285,560			178,651	111,939	34	125	103,193	279	133,265
47	Saddlery and harness	3	21,910			5,510	16,400	6	6	4,500	26	18,450
48	Ship and boat building, wooden	12	237,925	87,500	13,750	49,075	87,600	15	9	6,812	134	130,081
49	Slaughtering and meat packing, wholesale.	3	570,350	27,600	56,000	50,700	436,050	6	48	44,990	132	89,165
50	Tinsmithing, coppersmithing, and sheet-iron working.	22	82,135	100	450	25,485	56,100	27	8	9,240	102	81,645
51	Tobacco, cigars and cigarettes	15	25,140			2,390	22,750	18	2	1,040	33	19,431
52	Watch, clock, and jewelry repairing	33	45,030	100	650	14,055	30,225	41			42	38,918
53	Window shades	3	42,200			1,000	41,200	7	7	5,500	10	6,940
54	All other industries <sup>1</sup>	82	2,439,080	358,798	133,385	1,034,310	912,587	79	103	93,739	819	474,831

<sup>1</sup> Embraces ammunition, 1; artificial limbs, 1; baking and yeast powders, 1; belting and hose, leather, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 2; boxes, cigar, 1; boxes, wooden packing, 2; 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; china decorating, 2; cooperage, 2; cutlery and edge tools, 2; electroplating, 1; engraving and diesinking, 1; engraving, steel, including plate printing, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 1; fruits and vegetables, canning and preserving, 2; gas and lamp fixtures, 1; gas, illuminating and heating, 1; gloves and mittens, 1; hairwork, 2; hand stamps, 2; hats and caps, not including fur hats and wool hats, 1; ice, manufactured, 2; instruments, professional and scientific, 1; ironwork, architectural and ornamental, 2; leather

## SPOKANE.

1	All industries .....	213	\$2,678,823	\$170,474	\$484,729	\$795,086	\$1,228,584	225	249	\$227,905	1,779	\$1,030,618
2	Bicycle and tricycle repairing.....	6	8,175			3,050	5,125	6			12	7,690
3	Blacksmithing and wheelwrighting.....	20	21,710		3,025	7,300	11,885	23	1	840	47	33,376
4	Boots and shoes, custom work and repairing.....	4	1,100		100	525	475	4			1	525
5	Bread and other bakery products.....	5	17,150	300	1,500	6,550	8,800	6	19	12,192	36	18,732
6	Brick and tile.....	4	24,270	5,000	2,750	6,800	9,720	4	5	4,320	62	31,844

BY SPECIFIED INDUSTRIES: 1900.

## SEATTLE.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
7,870	\$5,372,091	543	\$188,969	67	\$14,193	\$1,479,604	\$245,735	\$18,671	\$686,731	\$198,467	\$14,211,191	\$14,056,769	\$154,422	\$26,373,402	1
18	13,211	14	5,784	2	500	5,372	2,730	258	2,384	—	91,493	93,928	505	152,526	2
14	9,720	—	—	—	—	4,776	3,504	202	1,070	—	12,450	11,883	507	88,169	3
13	11,529	—	—	—	—	1,594	1,161	25	408	—	23,636	21,398	2,238	57,665	4
12	6,755	—	—	—	—	6,102	5,116	42	944	—	15,038	15,419	219	59,258	5
47	20,365	10	2,600	2	475	15,246	1,160	221	13,865	—	277,543	275,783	1,760	898,840	6
2	900	8	1,660	—	—	874	535	10	329	—	4,652	4,592	60	9,860	7
90	62,552	4	1,330	1	250	12,922	8,105	432	4,385	—	142,909	139,446	3,463	294,608	8
88	51,030	—	—	1	200	10,981	309	703	2,478	7,500	19,419	3,598	15,821	124,610	9
801	474,912	—	—	—	—	72,603	700	842	69,761	1,300	864,926	859,876	5,050	1,050,369	10
1,372	1,032,346	—	—	—	—	269,747	9,183	1,834	25,729	233,091	1,753,681	1,750,025	3,656	3,669,606	11
72	47,450	—	—	—	—	5,077	2,956	414	1,057	650	57,534	54,754	2,780	151,712	12
21	12,660	—	—	—	—	2,285	1,400	210	675	—	192,620	191,385	1,135	224,250	13
210	151,623	59	19,829	—	—	39,063	29,300	683	8,480	600	179,645	178,805	840	513,524	14
11	6,800	112	34,107	—	—	8,216	6,621	57	1,538	—	20,097	19,910	187	107,349	15
26	9,920	—	—	—	—	2,880	2,296	74	510	—	84,650	84,585	65	79,094	16
27	16,906	7	2,780	2	648	11,489	5,630	524	5,170	165	286,670	283,645	2,934	805,632	17
73	40,623	79	24,594	1	120	12,292	7,575	411	4,366	—	195,670	191,916	3,760	412,240	18
12	7,770	4	1,428	1	120	1,232	948	46	238	—	2,612	1,852	700	54,625	19
22	28,760	—	—	—	—	6,070	3,795	140	1,035	100	116,480	115,845	635	179,000	20
255	105,700	1	850	3	284	32,501	4,924	1,216	26,362	—	743,602	739,917	6,685	1,037,174	21
73	43,524	—	—	—	—	27,899	1,700	1,809	23,490	900	1,183,875	1,172,505	11,370	1,296,929	22
425	319,534	—	—	—	—	47,081	10,105	2,556	34,170	250	467,425	454,477	22,948	1,142,941	23
6	4,474	17	5,496	—	—	7,088	5,200	835	803	750	36,285	36,200	85	69,735	24
10	7,210	—	—	—	—	8,711	941	1,022	1,648	100	81,755	81,520	235	97,543	25
60	36,875	2	650	4	650	18,184	2,800	379	10,005	—	55,867	54,291	1,576	140,873	26
28	21,980	—	—	—	—	8,236	1,944	202	1,090	—	33,780	32,015	1,765	69,458	27
5	2,750	—	—	—	—	1,007	936	14	57	—	8,660	8,650	10	10,600	28
14	7,870	3	1,000	—	—	1,934	1,610	24	300	—	17,670	17,550	120	38,800	29
1,008	588,027	—	—	3	1,040	78,220	6,880	9,747	67,943	—	1,484,000	1,484,000	—	2,695,778	30
103	68,100	—	—	—	—	3,194	1,500	131	1,563	—	50,827	49,727	600	150,780	31
5	5,150	—	—	—	—	427	237	—	190	—	8,400	8,380	20	17,750	32
585	519,432	—	—	—	—	202,548	2,466	407	14,825	184,850	1,120,040	1,115,876	4,164	2,148,713	33
46	24,720	7	2,780	4	829	1,923	915	276	732	—	58,485	57,685	800	107,500	34
2	1,560	73	32,711	—	—	18,099	9,173	481	3,445	—	112,229	112,108	121	209,435	35
9	4,395	—	—	—	—	2,932	802	105	2,025	—	18,385	17,750	585	49,300	36
16	13,505	—	—	—	—	2,623	652	95	376	1,500	19,915	19,875	40	49,100	37
8	2,475	1	600	—	—	2,932	1,280	24	1,628	—	5,308	5,202	191	16,777	38
22	11,550	2	620	—	—	1,249	610	41	598	—	38,061	37,901	160	65,980	39
246	202,693	—	—	—	—	21,429	11,549	757	6,798	2,325	198,281	197,854	427	559,960	40
120	71,288	—	—	—	—	11,713	730	133	1,800	9,050	61,618	60,053	1,565	233,825	41
35	23,935	21	10,196	—	—	12,951	9,244	172	3,535	—	69,560	69,494	66	169,785	42
127	126,614	—	—	—	—	8,597	926	96	1,575	6,000	95,562	95,516	46	284,310	43
110	109,044	—	—	—	—	14,013	6,150	230	5,083	3,450	280,847	229,206	1,181	461,184	44
130	88,003	24	9,087	7	1,140	23,231	10,258	769	10,806	1,398	81,969	79,018	2,351	285,688	45
270	128,675	7	4,800	2	280	108,272	12,850	1,423	71,393	22,606	96,577	87,864	8,713	570,101	46
26	18,450	—	—	—	—	4,950	2,947	148	1,855	—	47,861	47,641	220	96,495	47
175	127,831	—	—	9	2,250	13,170	1,700	639	10,361	470	159,081	157,041	2,040	429,641	48
130	88,265	2	900	—	—	45,751	8,183	2,276	40,293	—	2,660,655	2,660,269	6,896	3,072,195	49
101	81,333	—	—	1	312	12,664	6,208	436	5,420	600	108,508	101,858	1,650	273,776	50
27	17,543	5	1,776	1	112	13,672	8,550	115	10,007	—	85,771	85,623	148	88,498	51
41	38,318	1	600	—	—	9,593	7,503	211	1,804	10	38,968	38,782	186	130,235	52
9	6,660	1	280	—	—	2,476	1,380	326	770	—	55,050	55,050	—	86,280	53
717	445,737	79	24,111	23	4,983	241,673	26,212	14,950	179,619	20,892	996,099	964,636	31,463	2,291,268	54

goods, 1; leather, tanned, curried, and finished, 1; liquors, malt, 1; lithographing and engraving, 1; models and patterns, 2; musical instruments and materials, not specified, 1; nets and seines, 1; paints, 1; patent medicines and compounds, 1; photolithographing and photoengraving, 1; pickles, preserves, and sauces, 2; rice, cleaning and polishing, 2; roofing and roofing materials, 1; sausage, 1; saws, 2; sewing machine repairing, 1; shipbuilding, iron and steel, 1; shirts, 2; show cases, 1; soap and candles, 2; stationery goods, not elsewhere specified, 1; steam packing, 1; stereotyping and electrotyping, 1; sugar and molasses, refining, 1; surgical appliances, 1; taxidermy, 1; tools, not elsewhere specified, 1; trunks and valises, 1; type founding, 1; umbrellas and canes, 2; upholstering materials, 1; vinegar and cider, 1; wirework, including wire rope and cable, 1; wood, preserving, 1; wood, turned and carved, 1; wool pulling, 1.

## SPOKANE.

1,631	\$1,034,426	146	\$15,856	2	\$386	\$114,526	\$80,459	\$18,794	\$284,106	\$31,167	\$2,854,463	\$2,787,231	\$67,232	\$5,427,540	1
12	7,690	—	—	—	—	4,889	3,240	89	1,560	—	14,903	14,485	418	34,595	2
47	33,376	—	—	—	—	4,398	3,593	123	682	—	26,525	23,623	2,902	96,937	3
1	525	—	—	—	—	605	572	6	27	—	1,829	1,800	29	5,340	4
30	16,802	6	1,950	—	—	6,044	4,740	238	1,066	—	56,277	54,806	1,471	125,900	5
61	31,244	1	600	—	—	2,224	785	406	1,033	—	18,775	1,516	12,260	80,482	6

TABLE 8.—MANUFACTURES IN CITIES

## SPOKANE—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.....	7	\$22,040	\$1,500	\$2,500	\$3,150	\$14,890	7	1	\$1,200	94	\$45,039
8	Cars and general shop construction and repairs by steam railroad companies.	3	190,006	30,620	75,287	33,147	50,952		22	18,740	287	192,658
9	Clothing, men's, custom work and repairing.	17	54,340			3,185	51,155	21	3	3,600	81	51,919
10	Clothing, women's, dressmaking .....	7	4,800			333	3,967	9	1	780	43	14,386
11	Confectionery .....	3	70,648	5,500	15,381	13,572	36,195	4	7	7,375	52	18,089
12	Dyeing and cleaning.....	4	2,625			1,450	1,175	5			8	4,700
13	Flouring and grist mill products.....	3	286,454		46,000	58,500	181,954		9	13,320	58	33,764
14	Foundry and machine shop products.....	5	132,643	5,050	19,138	44,355	64,100	5	10	10,680	97	67,594
15	Furniture, cabinetmaking, repairing, and upholstering.	6	56,419			3,310	53,109	6	1	1,200	26	16,796
16	Liquors, malt.....	4	419,400	30,600	198,500	103,000	87,300	1	14	24,600	47	47,868
17	Lock and gun smithing.....	3	1,470			900	570	4			1	1,200
18	Lumber and timber products.....	3	149,150	27,750	5,900	34,000	81,500	1	5	6,120	92	37,940
19	Lumber, planing mill products, including sash, doors, and blinds.	7	276,751	6,854	21,248	55,772	191,877	1	33	31,735	243	123,253
20	Millinery, custom work.....	4	11,403			230	11,173	3	10	4,480	21	7,400
21	Painting, house, sign, etc.....	5	17,630			1,805	15,875	7			32	27,900
22	Photography.....	6	12,400			3,250	4,150	10	1	520	10	5,131
23	Plumbing, and gas and steam fitting.....	12	72,627	200	950	6,489	64,938	13	6	5,040	102	30,315
24	Printing and publishing, book and job.....	11	86,991			69,800	17,191	13	9	10,630	72	49,122
25	Printing and publishing, newspapers and periodicals.	4	13,325			7,500	5,825	1	23	17,375	2	1,400
26	Saddlery and harness.....	3	32,600			2,500	30,100	7	3	3,300	15	10,033
27	Tinsmithing, coppersmithing, and sheet-iron working.	7	20,011			6,500	13,511	11	2	920	33	30,155
28	Tobacco, cigars and cigarettes.....	3	4,300			300	4,000	3			15	6,310
29	Watch, clock, and jewelry repairing.....	11	18,035		250	6,375	12,060	13			18	13,233
30	All other industries <sup>1</sup> .....	31	650,180	57,100	92,200	305,388	194,992	37	64	43,938	103	96,321

<sup>1</sup> Embraces awnings, tents, and sails, 1; bottling, 1; brooms and brushes, 2; carpets, rag, 1; carriages and wagons, 2; cheese, butter, and condensed milk, factory product, 2; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; engraving, steel, including plate printing, 2; gas, illuminating and heating, 1; marble and stone work, 2; mattresses and spring beds, 1; mineral and soda waters, 2; monuments and tombstones, 1; paints, 2; paving and paving

## TACOMA.

		381	\$3,146,691	\$1,531,033	\$1,035,283	\$2,035,307	\$3,545,068	385	293	\$326,340	4,347	\$2,356,023
1	All industries.....											
2	Bicycle and tricycle repairing.....	10	7,500	200	500	3,800	3,000	12			13	7,759
3	Blacksmithing and wheelwrighting.....	18	3,900	300	1,760	4,115	2,725	18			22	13,365
4	Boots and shoes, custom work and repairing.	21	3,305		35	2,090	1,680	21			8	4,043
5	Bread and other bakery products.....	9	13,360	800	5,200	5,610	7,250	10			30	16,233
6	Brooms and brushes.....	3	4,950			500	4,450	4			14	8,030
7	Carpentering.....	30	41,573		500	11,760	29,313	32	1	1,080	369	217,573
8	Carriages and wagons.....	6	35,175	500	1,500	4,462	28,713	6	1	1,200	35	26,033
9	Clothing, men's, custom work and repairing.	19	19,975	200	400	2,145	17,230	25	1	900	72	43,763
10	Clothing, women's, dressmaking.....	12	36,665			990	35,675	17	3	3,200	53	13,496
11	Confectionery.....	7	16,890	3,500	400	2,635	10,275	6	6	3,000	23	7,439
12	Dyeing and cleaning.....	5	1,295			545	750	5			12	3,652
13	Fish, canning and preserving.....	3	26,725			1,225	25,500	3	2	1,400	27	11,690
14	Flavoring extracts.....	3	15,090			2,505	12,585	3	4	1,700	6	1,000
15	Flouring and grist mill products.....	5	594,352	23,000	93,343	37,872	390,632		20	36,135	123	63,642
16	Foundry and machine shop products.....	11	456,969	49,022	23,257	171,546	213,144	12	21	20,330	333	177,233
17	Furniture, cabinetmaking, repairing, and upholstering.	10	63,333			3,735	65,163	9			59	22,953
18	Furniture, factory product.....	4	155,750	22,200	55,500	25,900	52,150	3	10	10,020	147	56,149
19	Lock and gun smithing.....	6	2,705			1,470	1,235	7			5	3,792
20	Looking-glass and picture frames.....	4	11,800			800	11,000	6			5	2,436
21	Lumber and timber products.....	12	3,191,797	1,144,736	292,211	625,370	1,229,430	9	45	53,200	1,069	577,700
22	Lumber, planing mill products, including sash, doors, and blinds.	4	230,941		17,740	49,253	163,943	2	10	16,000	199	36,474
23	Millinery, custom work.....	9	15,445		3,300	145	12,000	11			31	5,696
24	Mineral and soda waters.....	3	6,350			2,300	4,050	3			9	3,337
25	Painting, house, sign, etc.....	9	11,205	1,200	800	1,725	7,480	11			53	27,603
26	Patent medicines and compounds.....	5	6,319			2,025	4,294	3	3	3,137	30	20,310
27	Photography.....	9	10,550		150	5,450	4,950	9			12	5,333
28	Plastering and stucco work.....	4	740			475	265	4			12	3,600
29	Plumbing, and gas and steam fitting.....	9	26,575	4,500		1,300	20,275	3			35	27,235
30	Printing and publishing, book and job.....	12	66,033			37,413	18,635	15	3	3,330	43	22,916
31	Printing and publishing, newspapers and periodicals.	17	121,263			79,924	41,344	15	56	44,990	76	61,733



BY SPECIFIED INDUSTRIES: 1900—Continued.

## SPOKANE—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
94 287	\$45,039 192,658					\$54,765 8,222	\$671	\$123 3,062	\$471 160	\$53,500	\$145,485 229,218	\$145,885 220,766	\$100 8,452	\$270,599 448,888	7 8
72	47,021	9	\$4,898			12,279	9,135	600	1,834	660	53,702	52,702	1,000	144,802	9
80	14,639	43 22	14,336 3,400			2,172 5,913	2,004 600	14 591	154 4,722		18,839 80,838	13,505 77,673	334 2,660	88,282 117,700	10 11
4 46 97 25	3,200 31,364 67,594 16,796	4 12	1,500 2,400			1,202 19,623 7,132 5,391	1,080 4,110 640 3,564	4 1,122 755 302	113 14,391 4,137 1,525		1,808 731,156 96,297 25,480	1,310 724,506 90,398 24,580	498 6,650 5,899 600	12,200 886,817 202,946 62,480	12 13 14 15
47	47,368					188,369	1,900	2,815	133,654		83,734	72,062	10,772	444,680	16
1 92 243	1,200 87,940 128,253					739 9,533 29,914	660	3 1,883 2,371	76 8,200 25,038		648 89,320 327,796	520 89,320 326,433	123 1,363	4,200 173,690 566,124	17 18 19
82	27,900	21	7,400			4,637 4,776	3,303 3,036	106 17	1,288 1,123		83,194 19,756	38,188 19,622	6 134	69,250 67,843	20 21
5 102 59 2	3,140 80,815 45,244 1,400	5 12	1,991 3,722			3,854 8,242 8,956 28,000	3,150 3,304 6,946 1,176	53 161 549 175	651 2,337 1,461 5,422		10,085 215,364 28,089 8,317	9,665 214,183 27,415 8,317	120 1,131 1,574	29,450 343,780 128,541 82,171	22 23 24 25
15	10,033					6,986	4,204	331	2,451		40,600	40,445	155	71,249	26
38	30,155					3,006	2,492	60	1,054		39,259	38,950	309	92,345	27
12 18 159	6,040 13,238 93,752	3 8	770 2,889			2,793 3,981 30,171	540 2,805 9,754	25 147 3,173	2,228 529 16,564		12,271 12,601 436,397	12,271 12,410 428,871	191 8,026	26,914 41,593 762,792	28 29 30

materials, 1; pickles, preserves, and sauces, 1; pottery, terra cotta, and fire-clay products, 1; shirts, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; soap and candles, 1; vinegar and cider, 2.

## TACOMA.

4,104	\$2,285,516	203	\$60,695	40	\$9,817	\$461,017	\$71,002	\$45,075	\$327,635	\$17,305	\$7,389,166	\$7,278,464	\$110,702	\$12,029,497	1
12	7,496			1	263	1,952	1,278	53	621		10,469	10,276	193	28,113	2
22	13,365					2,135	1,387	76	672		16,642	15,359	1,283	47,427	3
8	4,013					1,672	1,348	39	105	90	9,087	9,045	42	24,184	4
25	15,102	2	510	3	626	4,026	2,088	154	1,784		51,855	49,793	2,062	90,826	5
13	7,600	1	480			526	360	17	140		18,848	18,834	14	43,200	6
369	217,573					11,483	2,022	254	3,609		183,220	183,140	60	481,818	7
33	25,160			2	908	2,802	1,384	188	1,230		31,930	30,669	1,261	76,956	8
55	37,161	17	6,607			7,253	6,026	207	1,020		46,393	45,953	440	129,781	9
2	1,400	51	17,096			3,083	2,381	9	1,203		62,287	62,237	50	100,428	10
13	5,321	10	2,163			2,581	1,110	96	1,375		28,737	28,200	537	65,384	11
9	2,852	8	800			1,342	762	11	569		956	700	256	12,520	12
21	10,200	6	1,490			1,600	600	50	950		48,696	48,426	170	74,375	13
2	500	4	500			560	402	28	130		4,830	4,805	25	10,055	14
123	68,642					35,963	600	3,115	31,528	720	1,144,997	1,138,887	6,110	1,398,408	15
333	175,798	1	360	4	1,080	15,829	1,408	1,383	12,948		257,953	248,058	9,895	540,675	16
57	22,006	2	950			11,658	2,710	919	6,529	1,500	101,280	101,255	25	178,508	17
139	54,463	6	1,406	2	280	8,676		2,732	5,944		128,100	126,210	1,890	265,740	18
5	3,792					1,091	876	24	191		2,349	2,171	173	32,846	19
5	2,436					1,981	1,560	71	950		10,845	10,835	10	21,000	20
1,069	577,700					71,744	1,375	17,586	52,783		1,485,611	1,455,611		2,303,065	21
194	85,570	2	288	8	616	26,347	2,825	871	22,651		206,637	206,637		357,941	22
		31	5,096			2,657	1,734	93	725		21,150	21,150		40,035	23
7	3,653			2	234	750	420	55	275		8,018	8,816	102	23,000	24
53	27,008					2,647	816	100	2,022		80,965	80,953	12	76,956	25
27	30,030	3	780			4,084	1,256	44	2,784		6,923	6,890	24	41,533	26
5	2,858	7	2,975			3,715	2,600	110	1,005		7,370	7,370		25,490	27
12	3,600					260	60		200		5,250	5,250		17,700	28
35	27,285					3,994	1,183	314	2,492		71,962	71,887	75	117,173	29
42	21,333					5,185	2,690	424	1,071	1,000	17,886	16,623	1,263	73,487	30
71	60,731	2	500	3	1,182	37,074	6,604	134	19,341	10,995	34,926	33,249	1,677	242,923	31

TABLE 8.—MANUFACTURES IN CITIES

TACOMA—Continued.

	MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
32	Saddlery and harness	3	\$8,400	\$1,000		\$900	\$9,500	1		13	\$9,090	
33	Ship and boat building, wooden	3	117,584	7,500	\$55,600	26,050	28,434	3	7	11,280	169	95,602
34	Tinsmithing, coppersmithing, and sheet-iron working.	10	73,600	2,700	20,000	13,925	36,975	11	5	4,560	44	29,760
35	Tobacco, cigars and cigarettes	13	19,730	1,650	4,100	530	13,450	14	1	780	39	19,931
36	Watch, clock, and jewelry repairing	11	41,300	15,000	15,000	3,850	7,450	10			14	8,482
37	All other industries <sup>1</sup>	62	2,679,992	253,025	443,982	950,412	1,032,573	57	91	103,488	1,133	634,164

<sup>1</sup> Embraces awnings, tents, and sails, 2; babbit metal and solder, 1; bookbinding and blank book making, 2; boots and shoes, factory product, 1; bottling, 1; boxes, cigar, 1; boxes, wooden packing, 2; brick and tile, 2; bridges, 1; carpets, rag, 1; 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; clothing, men's, factory product, 1; clothing, women's, factory product, 2; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; cooperage, 1; electrical construction and repairs, 2; electroplating, 1; enameling and enameled goods, 1; engraving, steel, including plate printing, 2; fur goods, 2; gas and lamp fixtures, 1; gas, illuminating

TABLE 9.—MANUFACTURES IN CITIES

1	Total for cities -----	324	\$4,496,232	\$374,164	\$713,741	\$1,029,870	\$2,378,457	345	153	\$150,502	2,750	\$1,276,589
2	Dayton -----	47	274,665	14,200	39,500	57,630	163,275	50	9	8,100	69	40,645
3	Everett -----	84	1,681,549	114,450	330,051	468,040	779,003	83	74	72,254	900	509,000
4	Fairhaven -----	30	1,163,291	22,100	118,665	148,696	873,830	30	13	19,547	1,026	287,493
5	New Whatcom -----	71	448,219	127,064	37,300	161,620	114,235	75	20	19,618	359	195,394
6	Snohomish -----	22	137,625	16,300	20,150	35,280	65,895	23	11	8,550	130	73,182
7	Wallawalla -----	70	790,888	80,050	168,075	160,544	382,214	81	21	22,493	266	170,866

BY SPECIFIED INDUSTRIES: 1900—Continued.

TACOMA—Continued.

TACOMA—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.						COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
13	\$9,090					\$2,255	\$1,680	\$85	\$400		\$40,358	\$40,305	\$18	\$64,200	32
169	95,602					8,855	665	1,253	6,037		115,965	113,339	2,026	203,750	33
44	29,760					4,361	1,680	496	2,245	\$1,000	40,419	40,144	275	128,886	34
89	19,934					12,223	2,566	151	9,506		41,498	41,403	35	88,495	35
12	8,094					1,818	1,245	71	332		9,059	8,965	94	31,850	36
1,066	612,758	1	\$288	1	\$100	156,008	12,706	13,908	127,589	200 1,800	3,075,960	2,995,385	80,575	4,540,329	37

and heating, 1; hand knit goods, 1; hand stamps, 1; ice, manufactured, 1; jewelry, 2; leather, 1; marble and stone work, 2; masonry, 1; millinery

and heating, 1; hand knit goods, 1; hand stamps, 1; ice, manufactured, 1; jewelry, 2; lead, smelting and refining, 1; liquors, malt, 1; lithographing and engraving, 2; marble and stone work, 2; masonry, brick and stone, 2; paving and paving materials, 1; roofing and roofing materials, 1; saws, 1; shirts, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; soap and candles, 1; steam fittings and heating apparatus, 1; stencils and brands, 1; trunks and valises, 1; umbrellas and canes, 2; vinegar and cider, 1; wood, turned and carved, 2.

UNDER 20,000 IN POPULATION: 1900.

2,590	\$1,238,976	102	\$25,130	58	\$12,483	\$165,190	\$43,907	\$25,629	\$395,200	\$160	\$4,681,047	\$4,551,421	\$70,620	\$7,388,803	1
65	89,705	4	880			13,947	8,034	2,635	7,378		480,941	427,076	8,865	573,510	2
667	500,156	19	4,825	14	4,028	168,022	9,791	7,000	150,946	285	1,820,523	1,777,118	43,410	2,803,882	3
911	209,873	58	12,450	27	6,170	161,803	2,797	4,005	166,001		1,044,609	1,035,950	8,659	1,699,015	4
358	191,539	13	2,705	8	1,150	31,315	10,333	4,681	16,856	75	293,237	285,431	7,756	643,931	5
125	72,887			5	.795	15,976	2,610	1,033	12,333	100	316,052	313,584	2,468	484,446	6
254	165,256	8	4,270	4	1,840	74,103	14,442	6,875	62,686		725,685	712,217	13,408	1,184,513	7

# WEST VIRGINIA.

West Virginia was organized as a state in 1863, and therefore first appeared in census statistics in 1870.

Table 1 shows the manufacturing and mechanical industries of the state as returned at the censuses of 1870 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, 1870 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.				PER CENT OF INCREASE.		
	1900	1890	1880	1870	1890 to 1900	1880 to 1890	1870 to 1880
Number of establishments .....	4,418	2,376	2,375	2,444	85.9	(1)	2.8
Capital .....	\$55,904,238	\$28,118,030	\$13,883,390	\$11,084,520	98.8	102.5	25.3
Salaries of officials, clerks, etc., number .....	1,857	2,029	(4)	(4)	29.4		
Salaries .....	\$1,570,797	\$1,419,218	(4)	(4)	10.7		
Wage-earners, average number .....	33,272	19,340	14,311	11,672	72.0	35.1	22.6
Total wages .....	\$12,969,237	\$6,911,779	\$4,813,965	\$4,322,191	87.6	60.2	20.2
Men, 16 years and over .....	29,083	17,074	12,900	10,728	70.8	32.4	20.2
Wages .....	\$12,165,341	\$6,540,797	(4)	(4)	85.8		
Women, 16 years and over .....	8,849	1,465	346	287	180.2	320.5	20.6
Wages .....	\$674,227	\$256,183	(4)	(4)	168.2		
Children, under 16 years .....	840	811	1,065	657	8.6	23.8	62.1
Wages .....	\$129,069	\$108,799	(4)	(4)	19.2		
Miscellaneous expenses .....	\$3,945,814	\$1,960,929	(4)	(4)	101.2		
Cost of materials used .....	\$48,006,880	\$23,729,089	\$14,027,388	\$14,508,701	81.2	69.2	23.3
Value of products, including custom work and repairing .....	\$74,338,330	\$38,702,125	\$22,807,126	\$24,102,201	93.4	69.2	25.1
Total population .....	958,800	762,794	618,457	442,014	25.7	23.3	39.9
Wage-earners engaged in manufactures .....	33,272	19,340	14,311	11,672	72.0	35.1	22.6
Per cent of total population .....	3.5	2.6	2.3	2.6			
Assessed value of real estate .....	\$172,250,553	\$121,202,365	\$105,000,806	\$95,924,774	42.1	15.4	9.5
Value of land and buildings invested in manufactures .....	\$15,096,225	\$7,754,341	(4)	(4)	94.7		
Per cent of assessed value .....	8.8	6.4					

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

<sup>2</sup> Decrease.

<sup>3</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

<sup>4</sup> Not reported separately.

<sup>5</sup> Not reported.

<sup>6</sup> As given for the year 1899, in the Report of the Auditor of the State of West Virginia, page 46.

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

Although West Virginia is an agricultural state, Table 1 shows that there has been a considerable growth in the manufacturing and mechanical industries during the last thirty years. The population during these years increased from 442,014 to 958,800, or 116.9 per cent, while the average number of wage-earners employed in manufacturing establishments increased from 11,672 to 33,272, or 185.1 per cent, embracing, in 1900, 3.5 per cent of the entire population, compared with 2.6 per cent in 1870. 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 45,111, or 4.7 per cent of the total population of the state. The greatest increase in the value of products, \$36,136,205, or 93.4 per cent, is shown for the decade ending with the year 1900. During the decade from 1870 to 1880 there was a decrease of 5.1 per cent in the value of products. The values for 1870, however, 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.

Manufactures in West Virginia are very largely located in the northern part of the state and along the Ohio River, which for 300 miles forms its western boundary. The

value of products reported in 1900 for the 12 counties bordering upon this river amounted to \$48,990,709, or 58.8 per cent of the total for the state. Four of these counties, situated within the narrow strip of territory between the Ohio River and Pennsylvania, reported 43.8 per cent of the state's total value of products. This localization, which was shown also at the census of 1860, is due partly to the shipping facilities furnished by the Ohio River and partly to abundant supplies of gas and coal in this part of the state. The first natural gas known in America was discovered in West Virginia, and it was here also that it was first used for manufacturing purposes.<sup>1</sup> At the close of 1899 there were in the state 1,646.3 miles of pipe for conveying natural gas to consumers and the production of that year, valued at \$2,335,864, was exceeded by only two states, Pennsylvania and Indiana.<sup>2</sup> Natural gas has no equal as fuel in the manufacture of glass, the puddling of iron, and the heating of large furnaces in the manufacture of steel. In West Virginia, during 1899, it was used in 305 establishments in these and other industries.<sup>3</sup> Many

<sup>1</sup> The Mountain State, by G. W. Summers, pages 76 and 78.

<sup>2</sup> United States Geological Survey, Mineral Resources of the United States, 1899, Nonmetallic Products, except Coal and Coke, pages 299 and 304.

<sup>3</sup> Ibid., page 302.

of the factories in Wheeling use coal mined within or near the city limits, while others are supplied from the coal fields of Marion county, 50 miles distant.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also

gives the statistics for educational and eleemosynary 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.

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	6,364	\$56,392,364	7,135	33,481	\$12,987,194	\$3,963,478	\$13,170,729	\$14,233,141	\$26,979,337	\$1,958,251	\$75,259,091
Hand trades <sup>1</sup>	1,386	2,206,747	1,520	2,626	1,029,018	302,239	2,104,484	19,650	2,009,677	75,157	4,704,829
Educational and eleemosynary institutions	3	11,910				87	21,095		20,901	191	30,853
Establishments with a product of less than \$500	1,943	470,216	2,051	209	17,957	17,627	142,754	46,528	96,226		389,911
All other establishments	3,032	53,697,491	3,564	30,646	11,940,219	3,643,575	40,902,396	14,166,963	24,852,538	1,882,900	70,043,501

<sup>1</sup> Includes bicycle and tricycle repairing, 16; blacksmithing and wheelwrighting, 580; boots and shoes, custom work and repairing, 116; carpentering, 93; clothing, men's, custom work and repairing, 116; clothing, women's, dressmaking, 47; dyeing and cleaning, 9; furniture, cabinetmaking, repairing, and upholstering, 43; lock and gun smithing, 5; masonry, brick and stone, 39; millinery, custom work, 127; painting, house, sign, etc., 43; paper hanging, 3; plastering and stuccowork, 12; plumbing, and gas and steam fitting, 46; sewing machine repairing, 2; watch, clock, and jewelry repairing, 89.

Of the 6,364 establishments of all classes shown in this table, 3,329, or 52.3 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

\$5,184,740, or 6.9 per cent of the total products of the state.

In addition to the 6,364 active establishments in the state during the census year, with a capital of \$56,392,364, shown in Table 2, there were 33 idle establishments, with a capital of \$868,450, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Brick and tile	4	\$41,000	Glass	5	\$335,720
Explosives	1	68,200	Iron and steel	2	380,535
Flouring and grist mill products	10	12,018	Leather, tanned, curried, and finished	2	15,700
Fruits and vegetables, canning and preserving	1	10,250	All other industries	8	5,032

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	2,061	\$36,532,455	21,422	\$3,677,943	\$1,343,750	\$29,482,349	\$48,987,802
	1890	1,186	18,220,249	13,368	4,713,876	506,976	17,092,130	25,579,451
Increase, 1890 to 1900		875	18,312,206	8,054	3,964,067	746,774	12,340,219	23,407,851
Per cent of increase		73.8	100.6	60.2	84.1	126.1	72.2	91.5
Per cent of total of all industries in state	1900	46.7	65.8	64.4	66.9	84.1	68.4	65.5
	1890	49.9	64.8	69.1	68.2	80.4	72.0	66.1
Cars and general shop construction and repairs by steam railroad companies.	1900	23	1,040,811	2,605	1,250,640	32,355	1,586,916	2,943,537
Clay products:	1890	7	533,305	1,022	433,335		467,841	910,393
Total	1900	56	2,219,842	1,819	681,820	145,364	316,103	1,541,239
	1890	35	289,628	448	130,575	5,795	69,949	301,865
Brick and tile	1900	42	609,576	550	184,376	30,530	96,969	436,356
	1890	27	202,946	387	107,551	3,036	57,309	219,493
Pottery, terra cotta, and fire-clay products	1900	14	1,610,266	1,269	500,444	114,834	219,184	1,104,833
	1890	8	86,682	61	23,024	2,759	12,640	65,372
Coke	1900	77	4,452,579	3,131	890,024	226,603	1,966,682	3,529,241
	1890	45	1,718,337	1,034	284,375	53,310	709,576	1,139,762
Flouring and grist mill products	1900	787	2,126,470	314	154,623	55,972	4,555,003	5,541,333
	1890	496	1,767,003	545	140,959	64,298	3,228,788	3,902,994
Foundry and machine shop products	1900	62	377,401	591	317,293	45,760	606,244	1,401,872
	1890	30	482,940	355	169,576	27,737	185,521	506,513
Glass	1900	16	1,338,084	1,949	789,422	112,791	593,251	1,371,795
	1890	7	825,313	1,371	511,079	40,805	277,033	945,334

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

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Iron and steel	1900	11	\$8,202,910	4,467	\$2,203,524	\$225,165	\$10,422,322	\$16,514,212
	1890	12	6,458,924	3,757	1,734,764	147,432	7,906,036	10,556,865
Leather, tanned, curried, and finished	1900	46	5,049,615	664	224,444	144,458	2,541,197	3,210,753
	1890	50	567,072	210	88,487	28,465	680,295	896,120
Lumber and timber products	1900	950	10,421,570	5,327	1,828,558	\$14,111	5,584,717	10,612,837
	1890	454	5,086,114	4,182	1,639,630	203,511	3,023,297	5,515,065
Lumber, planing mill products, including sash, doors, and blinds	1900	83	803,673	555	238,695	41,171	1,199,914	1,820,463
	1890	50	493,113	444	181,196	25,623	543,793	910,640

The 10 leading industries of the state in 1900, as shown in Table 3, embraced 2,061 establishments, or 46.7 per cent of the total number in the state; used a capital of \$36,532,455, or 65.3 per cent of the total; gave employment to 21,422 wage-earners, or 64.4 per cent of the total number; and paid \$8,677,943, or 66.9 per cent of the total wages. The value of their products was \$48,987,802, or 65.5 per cent of the total. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of their products.

Table 3 shows that the manufacture of iron and steel is the most important industry in the state. The 11 establishments reported in 1900 gave employment to 4,467 wage-earners, or 13.4 per cent of the wage-earners employed in the state, and their products were valued at \$16,514,212, or 22.1 per cent of the total value of the products of the state. In 1890 there were 12 establishments, 3,757 wage-earners, and products valued at \$10,556,865. The increase in the value of products during the decade was \$5,957,347, or 56.4 per cent. This is a greater absolute increase than is shown for any other industry. The products of the blast furnaces for 1900 were valued at \$3,119,301, while the value of the products of the rolling mills and steel works, including tin and terne plate, amounted to \$14,857,344. The first rolling mill west of the Allegheny Mountains, of which there is any exact record, was in operation near Morgantown as early as 1812.<sup>1</sup> Cut nails were among the products of this pioneer mill, a manufacture which afterward became so important that Wheeling, its chief center, was at one time known as "The Nail City." The industry has declined in recent years as a result of the greater demand for wire nails, which have never been very largely manufactured in West Virginia. The iron and steel manufacture of the state is confined to Wheeling and its vicinity. Its development there is due, in part, to the cheapness of fuel—natural gas being used in almost all the rolling mills—and also to the proximity of the Pittsburgh (Pa.) district.

The manufacture of lumber and timber products ranked second among the industries of the state in 1900, with 950 establishments, 5,327 wage-earners, and products valued at \$10,612,837. In 1890 there were 454 establishments,

with 4,182 wage-earners, and products valued at \$5,515,065. The increase in the value of products during the decade was \$5,097,772, or 92.4 per cent. In 1890 there were in the state 16,000 square miles of forests, including spruce, poplar, and one of the largest areas of hard-wood timber in the United States.<sup>2</sup> There was little development of the state's forest wealth until after 1865, owing to the lack of transportation facilities,<sup>3</sup> and in 1870 lumbering held only fifth rank among the industries of the state. The railroad construction between the years 1896 and 1900 opened up new regions for lumbering operations and explains, in part, the rapid increase in the industry since 1890. The greatest production shown is for the mountainous counties in the eastern part of the state, the city of Charleston being an important lumber center.

There were 737 establishments engaged in flour and grist milling in 1900, the industry third in rank, with 314 wage-earners, and products valued at \$5,541,353. In 1890, 496 establishments were reported, with 545 wage-earners, and products valued at \$3,902,994. The increase in the value of products during the decade was \$1,638,359, or 42 per cent. This is the first notable increase in this industry since the formation of the state, the value of the products reported at the censuses of 1870, 1880, and 1890 being, in each instance, nearly the same.

There were 77 establishments engaged in the manufacture of coke in 1900, with 3,131 wage-earners, and products valued at \$3,529,241. In 1890, 45 establishments were reported, with 1,034 wage-earners, and products valued at \$1,130,762. The increase in the value of products during the decade was 212.1 per cent. The development of this industry in West Virginia during the last twenty years is remarkable. In 1880 the state produced 3.5 per cent of the coke made in the United States; in 1889, 6.1 per cent; and in 1899, 11.6 per cent, ranking second only to Pennsylvania in that year.<sup>4</sup> This high rank is due, not so much to the large coal production of the state, which was but 7.6 per cent of the total production in 1899, as to the special suitability of this coal for coking purposes. One-half of the entire production in 1890 was

<sup>2</sup>Report of the West Virginia Bureau of Labor Statistics, 1897-1898, page 116.

<sup>3</sup>History of West Virginia, by R. E. Fast and H. Maxwell, page 233.

<sup>4</sup>See special report on Coke.

<sup>1</sup>The Pittsburgh Almanac for 1813, quoted in the Tenth Census of the United States, Manufactures, general folio 831.

from the ovens of the Flat Top District in the southern part of the state. Next to the Connellsville District this is the most important coking region in the United States.<sup>1</sup> The recent completion by the United States Government of a series of 11 locks and dams on the Kanawha River, rendering it navigable for 90 miles from its mouth, has stimulated the coke as well as the coal production of the Kanawha District drained by this river.

There were 46 establishments engaged in the tanning and currying of leather in 1900, with 664 wage-earners, and products valued at \$3,210,753. In 1890 there were 50 establishments, with 210 wage-earners, and products valued at \$896,120. The increase in the value of products during the decade was \$2,314,633, or 258.3 per cent. Tanning has been carried on in West Virginia in a small way since the early days of its settlement as a part of Virginia. In 1860 the value of leather manufactured in Ohio county alone was \$104,150. But it was during the last decade that the industry became of special importance. The extensive oak and hemlock forests furnish the bark for tanning purposes,<sup>2</sup> and the rapid growth of the industry since 1890 must be attributed to the increased supply of this material, made available by the great increase in lumbering. The largest production of leather in 1900 was in the eastern and northeastern parts of the state, a region from which a very large lumber product was also reported.

There were 23 establishments engaged in the car construction and general shop work of steam railroad companies in 1900, with 2,605 wage-earners, and products valued at \$2,943,557. In 1890 there were 7 establishments, with 1,022 wage-earners, and products valued at \$910,898. The increase in the value of products during the decade was \$2,032,659, or 223.3 per cent.

There were 16 establishments engaged in the manufacture of glass in 1900, with 1,949 wage-earners, and products valued at \$1,871,795. In 1890 there were 7 establishments, with 1,371 wage-earners, and products valued at \$945,234. The increase in the value of products during the decade was \$926,561, or 98 per cent. These products included 2,288,580 dozen blown tumblers, stem ware, and bar goods, and 61,547 dozen lamps. Glass produced in these factories during the census year was exported to Australia, Canada, Mexico, England, South America, and South Africa. Glass has been manufactured in what is

now West Virginia since 1821, when a window glass factory was erected in Wheeling, and it was in this city, in 1864, that the second great improvement in the glass manufacture of modern times was made.<sup>3</sup> The cost of manufacture was reduced by one-half by the discovery of a process which caused the substitution of lime glass for flint glass in the finer products. The cheapness of natural gas, as well as the superior glass produced as a result of the absence of sulphur,<sup>4</sup> caused this fuel to be employed almost exclusively in the glass works of the state in 1900.

There were 62 establishments engaged in the manufacture of foundry and machine shop products in 1900, with 591 wage-earners, and products valued at \$1,401,852. In 1890 there were 30 establishments, with 355 wage-earners, and products valued at \$506,513. The increase in the value of products during the decade was \$895,339, or 176.8 per cent. These products included machinery used in the factories and mines, several establishments in and near Parkersburg, the oil center of the state, making the manufacture and repair of oil-drilling machinery a specialty.

There were 83 establishments engaged in the manufacture of planing mill products in 1900, with 555 wage-earners, and products valued at \$1,820,463. In 1890 there were 50 establishments, with 444 wage-earners, and products valued at \$910,640. The increase in the value of products during the decade was \$909,823, or 99.9 per cent.

There were 14 establishments engaged in the manufacture of pottery, terra cotta, and fire-clay products in 1900, with 1,269 wage-earners, and products valued at \$1,104,883. In 1890, 8 establishments were reported, with 61 wage-earners, and products valued at \$55,372. The increase in the value of products during the decade was \$1,049,511, or 1,895.4 per cent. These products included porcelain china and other porcelain ware, and vitrified brick. The industry is carried on almost exclusively in the extreme northern part of the state in the vicinity of East Liverpool, Ohio, one of the most important centers of the pottery manufacture in the United States.

#### URBAN MANUFACTURES.

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

<sup>1</sup> United States Geological Survey: Mineral Resources of the United States, 1899, Metallic Products, Coal, and Coke, pages 354, 624, 625, and 626.

<sup>2</sup> History of West Virginia, pages 233 and 234.

<sup>3</sup> W. Leighton, Jr., quoted in Tenth Census of the United States, Manufactures, general folios 1116 and 1117.

<sup>4</sup> Handbook of Commercial Geography, by G. G. Chisholm, page 390.



TABLE 4.—COMPARATIVE SUMMARY, WHEELING, 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 .....	406	418	227	12.9	84.1
Capital .....	\$13,224,577	\$3,494,630	\$4,868,288	55.7	74.5
Wage-earners, average number .....	7,219	6,107	5,512	18.2	10.8
Total wages .....	\$3,096,730	\$2,471,162	\$2,192,255	25.3	12.7
Miscellaneous expenses .....	\$1,954,205	\$1,205,931	(2)	62.0	
Cost of materials used .....	\$9,076,978	\$7,841,940	\$5,203,931	23.0	41.9
Value of products, including custom work and repairing .....	\$16,747,544	\$13,022,589	\$9,259,844	28.6	40.6

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

It appears from Table 4 that there has been a considerable increase during the past decade in the manufactures of Wheeling, the principal city of the state. Although the number of establishments decreased from 418 to 406, or 2.9 per cent, there was an increase in the average number of wage-earners from 6,107 to 7,219, or 18.2 per cent; and in the value of products from \$13,022,589 to \$16,747,544, or 28.6 per cent. The increase was much smaller in Wheeling than in the state as a whole. The number of

establishments, number of wage-earners, and value of products reported for this city in 1900 constituted 9.2, 21.7, and 22.4 per cent, respectively, of the totals for the entire state.

Table 5 presents the totals for the manufacturing industries of the 6 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 .....	4,418	\$55,904,238	5,084	83,272	\$12,969,237	\$3,945,814	\$13,006,880	\$74,833,830
Total for urban manufactures .....	912	25,925,791	989	16,039	6,772,128	2,642,268	22,465,935	39,153,271
Benwood .....	16	4,727,266	11	2,995	1,388,601	141,852	6,572,629	11,142,368
Charleston .....	119	1,371,807	110	1,176	454,578	95,991	1,033,448	2,052,782
Huntington .....	89	2,286,230	92	1,861	871,708	117,075	2,598,937	3,373,432
Martinsburg .....	101	1,638,024	108	1,105	282,921	113,767	832,651	1,410,514
Parkersburg .....	181	2,682,887	197	1,683	677,590	219,888	2,350,797	8,926,751
Wheeling .....	406	13,224,577	426	7,219	3,096,730	1,954,205	9,076,978	16,747,544
Total for state exclusive of urban manufactures .....	3,506	29,978,447	4,145	17,233	6,197,109	1,303,546	20,541,545	35,685,059
Per cent of urban manufactures to total for state .....	20.6	46.4	18.5	48.2	52.2	67.0	52.2	52.3

Of the 4,418 establishments in the state, 912, or 20.6 per cent, were located in these 6 cities and towns. They furnished employment to 16,039 wage-earners, or 48.2 per cent of the total number, and the value of their products, \$39,153,271, formed 52.3 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 Wheeling by specified industries.

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

## STATISTICS OF MANUFACTURES.

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.
The State.....	4,418	\$55,904,288	\$6,853,767	\$3,242,453	\$16,790,585	\$24,017,428	5,081	1,857	\$1,570,797	83,272	\$12,969,237
Barbour.....	61	139,543	12,259	19,660	69,228	38,896	77	2	775	81	29,904
Berkeley.....	150	1,710,138	217,447	374,472	519,921	598,298	157	56	46,384	1,181	307,956
Boone.....	18	29,627	10,522	1,960	12,945	4,200	22	2	1,200	24	6,175
Braxton.....	80	430,714	119,632	25,975	136,866	148,241	103	6	6,800	188	69,224
Brooke.....	56	723,592	45,862	164,163	201,268	312,299	58	40	42,446	762	289,857
Cabell.....	140	2,660,511	171,175	467,450	602,500	1,419,386	154	122	93,748	2,269	1,014,510
Calhoun.....	22	37,659	1,970	5,400	19,710	10,579	31	1	600	16	4,568
Clay.....	39	242,413	79,105	11,751	105,045	46,512	44	17	11,650	205	71,066
Doddridge.....	64	109,569	11,631	11,070	40,926	45,942	86	2	2,480	91	43,361
Fayette.....	77	1,679,998	419,544	79,220	927,123	254,101	59	56	48,020	889	234,652
Gilmer.....	74	154,689	44,437	12,890	51,560	45,802	106	6	3,017	56	18,248
Grant.....	29	1,133,885	298,404	79,639	330,177	430,665	25	24	27,321	365	123,386
Greenbrier.....	105	741,967	299,812	48,895	238,660	154,600	123	6	3,695	203	57,853
Hampshire.....	75	351,284	25,954	49,767	71,615	203,948	89	8	1,600	109	82,615
Hancock.....	33	1,035,343	179,332	417,342	247,302	190,817	88	27	32,058	697	271,709
Hardy.....	35	229,945	5,607	51,491	26,272	146,575	41	2	1,120	45	14,433
Harrison.....	156	588,121	58,708	101,505	201,160	226,748	170	25	15,890	355	143,523
Jackson.....	114	223,600	30,241	29,840	90,979	72,540	150	7	3,519	254	74,907
Jefferson.....	94	1,156,795	317,735	242,213	264,525	332,321	100	25	24,280	503	149,362
Kanawha.....	200	2,948,970	505,463	264,299	701,735	1,477,123	199	146	130,276	1,923	732,074
Lewis.....	75	173,429	20,588	25,805	76,104	55,932	92	6	3,495	132	47,979
Lincoln.....	33	47,366	5,031	6,130	29,745	6,460	39	2	550	86	10,600
Logan.....	14	9,285	795	3,825	2,990	1,675	14			5	1,700
McDowell.....	55	2,069,860	60,947	235,576	1,618,031	155,306	35	100	50,639	1,613	405,626
Marion.....	162	1,520,351	150,765	277,994	558,077	538,515	184	67	30,950	890	421,918
Marshall.....	99	5,737,154	550,500	1,244,735	1,976,827	1,965,042	106	114	107,895	3,714	1,632,624
Mason.....	59	588,350	191,807	98,343	153,937	144,268	72	38	23,626	377	109,468
Mercer.....	85	683,810	35,095	65,861	454,534	128,320	101	37	25,000	956	325,252
Mineral.....	57	1,270,888	47,296	181,248	199,094	843,250	64	41	27,665	734	311,022
Mingo.....	27	268,975	151,135	3,345	62,210	62,285	31	10	5,410	117	42,962
Monongalia.....	67	529,682	73,965	132,275	155,772	167,670	82	20	14,546	455	182,311
Monroe.....	69	138,109	15,005	27,135	66,600	29,369	90	1	900	31	23,181
Morgan.....	43	1,462,793	50,975	173,295	254,353	979,165	55	10	17,881	239	68,911
Nicholas.....	45	102,934	20,840	10,285	31,047	40,762	53	6	3,780	51	17,448
Ohio.....	432	13,600,957	1,113,242	2,178,515	2,604,652	7,704,577	456	432	452,243	7,343	8,153,959
Pendleton.....	55	113,373	6,013	20,197	35,585	51,578	66			45	12,585
Pleasants.....	34	129,840	4,330	14,835	37,150	73,175	39	8	4,320	44	27,815
Pocahontas.....	40	82,987	31,792	8,585	22,520	20,090	55	6	2,700	55	17,270
Preston.....	152	587,283	79,387	69,125	260,640	173,131	169	15	7,250	338	116,778
Putnam.....	62	170,872	48,600	19,048	67,900	35,924	82	5	2,200	89	30,531
Raleigh.....	56	83,067	8,050	9,662	32,079	33,276	70			36	10,581
Randolph.....	97	1,598,966	462,897	102,277	334,172	649,620	116	29	26,928	718	231,981
Ritchie.....	94	206,039	27,794	26,310	75,695	76,240	112	3	1,400	107	38,521
Roane.....	59	121,320	21,265	12,240	57,133	80,682	73	9	4,000	148	48,285
Summers.....	51	211,616	33,072	27,190	83,359	67,995	65	18	3,320	366	143,154
Taylor.....	73	370,055	37,135	60,100	144,061	128,699	93	13	8,640	360	165,775
Tucker.....	59	2,614,013	177,374	229,880	933,603	1,273,156	54	58	53,745	997	373,658
Tyler.....	79	204,890	10,390	28,870	65,341	100,289	89	12	10,520	180	105,611
Upshur.....	92	534,325	63,467	48,067	131,615	291,176	117	10	5,794	264	95,284
Wayne.....	58	217,273	53,225	23,965	76,392	63,691	74	10	9,780	167	77,998
Webster.....	58	719,034	153,945	36,922	234,103	239,064	77	5	5,292	295	104,000
Wetzel.....	83	286,764	35,855	43,285	94,205	113,419	111	1	900	171	67,267
Wirt.....	41	82,832	3,835	12,420	37,233	29,284	56	4	850	61	21,201
Wood.....	214	2,925,004	223,090	314,840	890,908	1,496,171	245	146	122,090	1,809	711,624
Wyoming.....	9	107,654	29,075	5,610	38,885	39,084	10	6	5,500	60	20,671

TABLE 7.—MANUFACTURES BY

1	All industries.....	4,418	\$55,904,288	\$6,853,767	\$3,242,458	\$16,790,585	\$24,017,428	5,084	1,857	\$1,570,797	83,272	\$12,969,237
2	Awnings, tents, and sails.....	4	3,590			1,490	2,100	5	1	250	8	2,900
3	Bicycle and tricycle repairing.....	16	10,810	20	180	7,990	8,620	18	1	650	10	3,553
4	Blacksmithing and wheelwrighting.....	580	351,441	49,733	82,640	68,320	155,748	680			206	79,430
5	Boots and shoes, custom work and repairing.....	116	50,401	8,985	15,465	9,560	16,421	117			26	9,730
6	Bottling.....	9	65,550	12,000	11,500	10,850	31,200	5	10	3,155	26	10,455
7	Boxes, fancy and paper.....	3	37,743	5,000	5,000	13,243	14,500	4	2	792	77	14,784
8	Boxes, wooden packing.....	5	21,936	1,100	4,332	8,204	7,850	4	1	1,000	50	13,438
9	Brass castings and brass finishing.....	3	155,089	2,500	12,980	73,470	60,069	2	9	5,982	69	19,033
10	Bread and other bakery products.....	58	190,887	37,560	53,525	61,304	33,498	64	27	12,194	111	40,066
11	Brick and tile.....	42	609,576	115,012	201,430	173,305	119,779	48	22	13,422	650	184,376

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.									
29,088	\$12,165,841	8,849	\$674,227	840	\$129,669	\$3,945,814	\$328,554	\$277,193	\$3,060,029	\$284,438	\$43,006,880	\$41,429,263	\$1,577,617	\$74,838,830 1
80	29,113	8	551	1	240	4,908	684	622	8,052		146,553	145,229	1,824	247,878 2
682	220,003	442	81,610	57	5,448	116,168	7,052	6,993	61,907	40,806	937,887	916,839	21,048	1,658,860 3
24	6,175					886	20	185	3,181		23,621	23,298	223	48,483 4
188	69,224					8,182	520	8,081	8,976		686,608	684,157	2,451	924,068 5
499	218,188	187	55,496	76	10,178	61,600	8,896	8,153	42,410	2,101	852,898	806,546	46,852	962,192 6
2,148	988,681	97	23,225	24	2,704	151,558	10,751	15,600	128,997	1,150	2,926,508	2,866,641	59,867	4,510,177 7
16	4,568					898	90	894	504		37,255	36,748	507	60,264 8
201	70,851					8,399	18	656	2,665		182,347	182,197	150	826,006 9
81	41,974	4	1,050	3	840	8,918	1,117	628	1,873	5,800	159,977	158,541	1,436	278,141 10
865	280,751	5	1,470	19	2,431	49,289	11,840	9,194	28,705		747,686	744,205	3,481	1,375,189 11
52	17,537	2	500	2	206	9,448	1,055	752	1,616	25	157,487	155,782	1,705	248,266 12
361	122,616	4	730			28,378	851	2,015	21,507		604,233	603,259	974	879,944 13
189	65,973	11	1,685	8	200	10,717	1,608	8,505	5,516		284,819	282,055	2,764	415,416 14
101	31,790	2	500	3	225	23,327	781	1,048	20,903		847,264	843,548	3,721	492,949 15
671	267,656	8	690	21	3,863	56,514	671	4,748	60,200	1,200	150,293	147,679	2,614	659,183 16
43	14,388			2	95	33,202	241	1,251	31,710		247,170	246,369	801	325,517 17
310	133,235	37	8,480	8	1,802	25,896	7,309	8,631	14,906	50	400,971	385,567	15,404	800,582 18
212	72,488	2	540	10	1,278	8,945	1,311	2,855	4,179		285,449	282,588	2,866	491,841 19
431	140,179	84	5,490	38	3,093	46,100	1,822	4,102	39,701	475	486,828	484,920	31,908	984,493 20
1,796	704,649	103	24,149	24	3,370	128,685	20,548	18,232	80,998	2,762	2,217,008	2,174,350	42,658	4,168,503 21
127	46,813	4	1,091	1	75	7,853	1,553	1,417	4,883		251,390	248,383	3,007	408,389 22
35	10,500			1	100	1,421	305	441	153		99,144	98,132	1,011	145,925 23
6	1,700					839	70	118	178		14,714	14,714	85	21,016 24
1,602	408,856	4	670	7	1,400	128,814	84,487	9,646	34,631		747,884	740,545	1,339	1,443,393 25
769	891,480	72	23,196	49	7,242	79,259	9,121	8,007	60,181	1,400	888,778	862,089	26,689	1,787,461 26
3,318	1,553,718	219	45,428	182	33,488	326,685	2,866	19,698	194,306	109,815	7,597,192	7,080,015	587,177	12,954,865 27
352	106,928	16	2,765	9	775	23,013	4,360	3,699	15,554		264,900	258,882	29,518	497,367 28
941	323,773	2	800	13	1,119	98,083	16,334	8,813	18,436		586,550	583,426	3,124	1,144,858 29
687	303,251	80	5,942	17	1,829	27,120	1,407	5,637	20,078	8	840,728	830,627	10,101	1,286,949 30
112	41,762			5	1,200	8,925	108	756	8,061		150,828	150,670	158	278,579 31
385	164,182	57	15,711	13	2,418	10,100	451	2,501	16,154		279,988	268,485	11,498	644,737 32
78	22,500	8	585			882	882	978	929	600	190,241	189,073	1,168	273,724 33
207	65,835	17	1,756	15	1,820	20,862	537	5,007	15,818		756,910	755,568	1,342	950,490 34
50	17,330			1	118	2,640	650	504	1,485		88,578	88,279	294	144,057 35
5,428	2,805,811	1,781	324,639	144	28,500	1,063,902	74,905	68,055	1,734,937	85,955	10,252,873	9,786,810	516,063	18,168,851 36
42	12,285			8	320	3,640	367	572	2,701		109,778	108,759	1,014	161,246 37
44	27,815					3,486	978	604	1,614	200	84,620	81,972	2,648	171,567 38
55	17,270					950	134	429	887		95,200	94,765	435	146,750 39
824	114,007	10	1,529	4	612	11,249	1,194	2,905	7,190		487,253	461,889	5,864	811,735 40
86	29,966	1	240	2	325	8,943	425	1,029	2,409	80	203,516	202,150	1,865	313,499 41
84	10,381	1	150	1	50	1,089	136	421	532		101,240	100,876	364	148,517 42
762	278,436	4	936	12	2,609	59,237	1,721	7,841	50,175		712,970	709,690	3,280	1,396,255 43
104	87,963	1	400	2	158	6,873	1,359	1,218	3,270	1,020	231,743	229,112	2,631	377,082 44
142	48,233			1	52	3,874	833	780	2,351		203,156	204,618	1,583	345,771 45
368	147,862			8	292	12,724	991	1,841	9,892		240,656	239,402	1,254	478,266 46
827	157,031	28	8,319	5	425	22,452	3,661	3,530	13,470	1,791	889,522	883,521	6,001	686,652 47
991	372,594	4	801	2	200	112,627	1,200	3,475	102,082	350	1,454,016	1,440,053	13,968	2,376,845 48
153	99,538	24	5,749	3	334	12,557	6,533	1,271	4,703	50	248,702	242,325	6,377	584,599 49
247	92,199	10	2,310	7	775	28,214	1,732	2,585	23,897		505,985	501,732	4,253	869,735 50
166	77,898			1	100	4,103	594	902	2,607		141,772	140,377	1,395	816,994 51
289	102,080			6	1,920	13,639	105	9,347	4,127		368,711	363,247	464	616,462 52
187	58,920	31	7,687	3	650	15,144	1,807	1,746	10,591	1,000	371,709	371,709	3,891	603,531 53
59	20,641	1	300	1	260	1,918	582	367	969		109,158	108,355	798	182,224 54
1,682	690,297	98	17,243	34	4,084	228,214	28,378	17,089	154,942	27,805	2,610,339	2,484,120	55,219	4,210,292 55
59	20,575	1		1	96	2,413	24	906	1,483		77,913	77,884	85	159,710 56

SPECIFIED INDUSTRIES: 1900.

29,083	\$12,165,841	8,849	\$674,227	840	\$129,669	\$3,945,814	\$328,554	\$277,193	\$3,060,029	\$284,438	\$43,006,880	\$41,429,263	\$1,577,617	\$74,838,830 1
8	1,450	5	1,450			578	800	8	210		6,890	6,860	30	14,500 2
8	3,138			2	415	1,560	1,136	101	823		8,305	8,059	246	23,146 3
204	79,230			2	200	15,567	9,761	2,373	3,408	25	183,147	171,332	11,815	620,516 4
26	9,730					6,226	4,785	512	929		84,929	84,387	542	104,101 5
24	10,144	1	167	1	144	6,785	850	922	4,963		108,061	106,871	1,190	142,900 6
21	7,772	50	6,312	6	700	1,335	720	206	410		21,623	21,217	406	48,540 7
48	12,958			2	500	1,571	280	128	1,803	300	36,899	35,889	1,010	62,295 8
69	19,033					1,583	234	46	1,803		71,102	69,214	1,888	123,360 9
95	37,508	9	2,175	7	983	59,140	7,803	1,742	44,090		212,556	206,182	6,374	893,920 10
523	181,102			27	8,274	30,630	1,020	8,819	24,991	1,200	96,969	91,774	55,195	436,356 11

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.
12	Carpentering.....	93	\$567,005	\$57,550	\$66,285	\$54,467	\$388,708	104	34	\$21,750	754	\$267,528
13	Carriage and wagon materials.....	4	125,224	9,000	17,969	41,533	55,822	1	8	6,038	72	27,894
14	Carriages and wagons.....	80	845,700	44,185	64,025	51,002	180,638	102	7	6,576	260	114,045
15	Cars and general shop construction and repairs by steam railroad companies.....	23	1,040,811	43,958	279,536	250,951	465,866		90	67,646	2,605	1,256,610
16	Cheese, butter, and condensed milk, factory product.....	4	5,835	800	1,200	2,825	1,510	2			2	480
17	Clothing, men's, custom work and repairing.....	116	396,503	21,890	40,200	17,007	317,406	133	19	14,186	471	225,027
18	Clothing, men's, factory product.....	3	209,574	750	2,500	91,124	115,200	1	6	6,010	88	23,692
19	Clothing, women's, dressmaking.....	47	10,550	50	850	2,750	6,900	47	2	750	87	16,395
20	Clothing, women's, factory product.....	3	61,000			58,000	8,000	1	1	1,200	52	10,100
21	Coffee and spice, roasting and grinding.....	4	64,670	14,000	12,650	12,620	25,400	8	1	468	11	5,085
22	Coke.....	77	4,452,579	90,416	380,793	3,565,690	415,780	1	208	126,878	3,131	890,024
23	Confectionery.....	17	68,482	320	1,450	17,808	48,904	15	8	8,792	68	22,823
24	Cooperage.....	16	91,375	13,740	10,285	13,574	53,776	16	3	2,300	151	67,351
25	Dyeing and cleaning.....	9	8,235	2,000	1,500	2,080	2,655	11			27	11,255
26	Dye stuffs and extracts.....	5	272,192	17,850	38,000	66,049	150,293	7	8	7,930	74	26,825
27	Flouring and grist mill products.....	737	2,126,470	173,478	461,466	1,012,528	479,003	948	24	14,481	314	154,623
28	Foundry and machine shop products.....	62	877,401	70,914	121,013	272,405	413,039	57	56	51,231	591	317,293
29	Fruits and vegetables, canning and preserving.....	9	95,260	11,670	22,390	28,230	82,970	8	4	1,475	128	13,108
30	Furniture, cabinetmaking, repairing, and upholstering.....	48	45,545	8,980	10,600	7,480	18,285	49			30	9,308
31	Furniture, factory product.....	8	492,920	28,700	72,086	90,022	302,112	6	24	30,464	333	134,958
32	Gas, illuminating and heating.....	8	566,827	49,500	35,500	439,600	42,227		26	10,484	80	39,960
33	Glass.....	16	1,388,084	75,142	397,301	234,632	631,109	6	85	97,551	1,949	789,422
34	Ice, manufactured.....	8	413,452	58,000	77,700	250,823	26,929	1	19	13,710	40	39,537
35	Iron and steel.....	11	8,202,910	871,833	1,890,380	2,425,704	3,014,093		105	129,477	4,467	2,293,524
36	Leather, tanned, curried, and finished.....	46	5,049,615	110,395	554,202	458,012	3,927,006	38	37	62,889	664	224,444
37	Lime and cement.....	7	256,860	142,500	28,500	9,160	76,700	3	15	9,260	128	47,200
38	Liquors, distilled.....	3	416,967	30,020	150,400	98,247	138,300	2	5	7,800	44	18,778
39	Liquors, malt.....	3	1,714,050	109,811	463,308	866,009	774,922	2	60	70,803	256	117,320
40	Lock and gun smithing.....	6	5,155		2,980	2,175		5			5	1,176
41	Looking-glass and picture frames.....	6	66,103	1,200	7,700	10,240	46,963	5	17	9,900	151	64,980
42	Lumber and timber products.....	950	10,421,570	3,158,542	468,866	3,103,128	3,691,034	1,334	260	210,377	5,327	1,828,558
43	Lumber, planing mill products, including sash, doors, and blinds.....	83	803,678	59,798	88,725	178,899	476,251	126	30	19,760	555	238,595
44	Marble and stone work.....	9	93,947	14,600	11,710	35,050	32,587	12	14	6,810	217	86,518
45	Masonry, brick and stone.....	39	90,765	12,950	1,250	19,046	57,509	51	10	5,200	336	143,649
46	Millinery, custom work.....	127	203,048	31,203	42,624	6,866	127,855	136	17	5,355	205	48,625
47	Mineral and soda waters.....	19	74,222	3,175	3,800	27,630	39,617	23	4	2,135	37	12,755
48	Monuments and tombstones.....	25	38,262	15,010	6,775	4,131	62,346	32	28	4,990	68	31,814
49	Painting, house, sign, etc.....	43	68,940	6,550	4,535	7,370	50,865	49	3	4,456	130	62,751
50	Paper and wood pulp.....	6	926,463	260,350	196,738	302,245	167,130	2	22	25,540	281	93,329
51	Paper hanging.....	3	1,110			260	850	4			2	1,450
52	Patent medicines and compounds.....	5	17,525	700	700	375	15,750	4	3	1,320	4	1,304
53	Photography.....	52	60,975	6,090	7,295	27,620	20,000	59	1	208	47	14,931
54	Pickles, preserves, and sauces.....	5	274,783	12,362	40,194	62,013	160,314	3	40	41,032	437	70,542
55	Plastering and stucco work.....	12	9,591	1,450	3,225	5,546	4,370	15			42	16,124
56	Plumbing, and gas and steam fitting.....	46	279,040	33,400	20,000	26,736	198,904	51	29	14,391	255	114,571
57	Pottery, terra cotta, and fire-clay products.....	14	1,610,266	230,517	584,345	289,964	505,440	13	57	51,592	1,209	500,444
58	Printing and publishing, book and job.....	31	98,289	1,750	5,550	70,014	20,975	35	15	9,996	103	33,648
59	Printing and publishing, newspapers and periodicals.....	147	1,050,150	60,325	77,725	506,580	405,520	151	92	73,207	707	295,413
60	Pumps, not including steam pumps.....	3	48,150		1,000	3,150	44,000	4			13	7,350
61	Roofing and roofing materials.....	21	37,470	7,100	5,800	5,460	19,110	25	3	2,780	52	22,816
62	Saddlery and harness.....	126	319,886	20,978	46,215	44,135	208,558	141	8	9,320	227	64,985
63	Salt.....	4	331,200	160,500	69,500	52,500	48,700		13	13,540	190	54,805
64	Ship and boat building, wooden.....	4	48,155	2,000	4,000	19,200	21,255	4	4	1,575	53	20,201
65	Slaughtering and meat packing, wholesale.....	3	313,000	22,000	55,000	33,000	203,000	3	16	11,800	84	42,546
66	Thinsmithing, coppersmithing, and sheet-iron working.....	57	142,312	12,105	23,460	26,440	80,317	76	3	1,264	121	56,529
67	Tobacco, chewing, smoking, and snuff.....	4	2,253,775	52,500	102,550	49,937	2,048,788	3	50	49,118	318	79,765
68	Tobacco, cigars and cigarettes.....	72	351,017	39,360	44,370	16,937	249,800	81	23	15,602	910	332,223
69	Tools, not elsewhere specified.....	5	194,106	8,500	9,800	37,746	138,060	6	8	8,660	95	56,547
70	Vinegar and cider.....	4	10,025	135	1,140	2,650	6,100	5			4	1,712
71	Watch, clock, and jewelry repairing.....	39	96,758	7,673	13,974	25,315	49,796	98	4	1,142	40	18,016
72	Wood, turned and carved.....	8	151,389	15,200	37,332	40,678	58,179	6	12	10,620	157	40,162
73	Woolen goods.....	33	683,683	28,037	92,408	222,080	311,158	12	16	17,440	384	99,027
74	All other industries.....	56	3,858,356	279,130	573,951	1,172,246	1,833,029	44	127	138,567	2,316	865,229

<sup>1</sup> Embraces agricultural implements, 1; baking and yeast powders, 1; baskets, and rattan and willow ware, 2; boxes, cigar, 1; brass, 1; bridges, 1; brooms and brushes, 2; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 1; cheese and butter, urban dairy products, 1; chemicals, 1; cotton goods, 1; dyeing and finishing textiles, 1; explosives, 1; fertilizers, 2; fur hats, 1; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 2; gloves and mittens, 1; glue, 1; grease and tallow, 1; grindstones, 1; hand stamps, 2; hardware, 1;

## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
748 70 258 2,604	\$266,754 27,728 113,615 1,266,280			6 2 1 1	\$1,174 166 300 300	\$142,621 3,461 11,604 82,855	\$3,389 25 4,824 60	\$2,822 675 1,504 11,831	\$21,219 2,061 5,276 20,464	\$115,091 700	\$671,052 42,911 182,719 1,586,916	\$668,913 41,237 178,107 1,567,300	\$2,139 1,614 4,612 19,616	\$1,327,445 111,019 427,288 2,943,637	12 13 14 15
1	320	1	160			80	40	15	25		10,228	10,115	118	12,284	16
256 13	160,224 5,172	214 75	64,647 28,520	1	156	42,617 36,945	21,847 500	2,466 235	9,357 1,210	8,947 35,000	329,598 355,665	326,902 355,130	2,696 435	808,401 501,050	17 18
2 9	1,100 4,799	87 50 2	16,895 9,000 286			22,640 3,087	3,406 550	47 787	327 1,750	20,000	12,653 160,192 201,784	12,221 160,080 200,909	432 112 825	55,256 255,000 224,376	19 20 21
8,124 48 148 19 74	888,619 19,465 67,100 8,907 26,325			7 6 3	1,405 532 691	226,608 7,462 3,961 3,150 15,820	107,390 3,757 415 2,433 400	18,897 332 671 40 745	100,316 3,378 2,875 677 14,017		1,966,682 85,258 146,634 2,101 144,068	1,958,266 82,766 145,231 1,757 134,400	8,416 2,492 1,408 344 9,578	3,529,241 147,440 361,485 25,066 245,764	22 23 24 25 26
808 588 55	153,603 316,953 7,558			6 3 14	1,020 340 1,030	55,972 45,760 2,983	3,658 3,292 50	18,197 5,554 157	34,117 35,894 2,776		4,555,003 666,244 39,828	4,506,029 640,678 37,911	48,974 19,666 1,417	5,541,953 1,401,852 66,886	27 28 29
80	9,808					2,978	1,883	886	1,159	50	19,998	19,380	618	60,400	30
882	134,693			1	275	35,959	6,150	1,916	27,893		175,200	170,040	5,160	454,097	31
80 1,319 80 4,822 663	39,960 657,984 39,587 2,268,869 224,399					10,238 112,791 11,188 225,165 144,468		2,847 4,804 3,042 32,591 15,259	16,891 105,637 8,146 192,574 128,784		32,978 593,251 22,827 10,422,822 2,541,197	32,592 504,346 9,923 9,507,899 2,535,756	388 88,905 12,404 914,953 5,441	150,680 1,871,795 119,401 16,514,212 3,210,753	32 33 34 35 36
128 44 256 5 126	47,200 16,778 117,320 1,176 50,280					1,400 10,024 492,611 953 1,780	155 800 866 192	477 1,418 20,707 50 413	768 8,606 471,129 67 1,125		34,845 67,963 197,724 1,226 59,052	10,005 65,374 178,925 1,183 58,586	24,840 2,589 18,799 93 516	109,893 113,906 1,113,021 8,129 189,425	37 38 39 40 41
5,266 550	1,817,684 237,371	5	869	56 5	10,005 1,224	814,111 41,171	8,448 8,887	56,135 4,778	249,823 15,585	200 12,471	5,584,717 1,100,914	5,584,320 1,103,324	397 6,590	10,612,837 1,820,463	42 43
240 335 4	86,105 143,529 1,950			7 1 1	443 120 128	1,866 11,408 25,081	80 675 17,667	606 173 1,872	1,230 4,010 5,539		41,765 209,120 246,867	40,896 208,768 245,788	929 852 1,129	205,922 432,083 450,879	44 45 46
34 68 129 263 2	12,072 31,314 62,604 94,593 1,450	2	508			6,009 7,408 5,375 44,198 319	1,514 1,502 3,371 194	418 449 228 3,612 5	4,077 4,577 1,754 40,581 120		17,817 83,131 66,066 274,316 2,439	17,602 83,942 65,966 245,281 2,439	215 239 100 29,035	83,299 180,100 183,351 527,527 6,155	47 48 49 50 51
8 29 77 42 254	960 11,030 36,737 16,124 114,331	1 18 344 1	344 3,901 32,237 240			1,366 9,874 52,649 605 27,603	445 7,322 3,013 60 7,667	21 577 2,369 88 2,003	900 1,910 47,267 502 5,222		11,128 32,716 379,963 17,883 271,293	11,110 32,716 877,241 17,348 269,856	18 487 2,722 35 1,937	70,900 108,031 707,438 44,263 527,933	52 53 54 55 56
975	429,434	263	64,949	31	6,061	114,834	3,254	7,014	104,566		219,184	118,440	100,694	1,104,883	57
72 501	32,880 250,106	25 140	5,233 37,512	6 66	535 7,495	7,635 75,561	3,889 16,674	569 4,065	2,947 58,389	280 1,433	88,355 187,513	86,746 180,166	1,609 7,847	127,982 907,156	58 59
13 50	7,350 22,562					758 2,261	375 960	88 264	300 1,037		58,040 60,274	57,775 59,744	265 530	105,900 103,407	60 61
162 186 53 76	57,576 54,305 20,204 40,642	80 6	4,234 1,620	35 4 2	3,175 500 384	17,063 9,938 1,780 4,623	7,414 593	1,827 2,404 288 1,575	7,772 7,494 890 3,048	50	275,536 57,398 19,354 1,133,954	278,255 31,898 19,184 1,129,754	2,281 25,500 170 4,200	535,258 150,292 51,170 1,337,578	62 63 64 65
121	56,529					11,181	5,939	1,694	3,374	124	117,922	116,150	1,772	249,884	66
66 644 95 4	27,901 238,709 56,547 1,712	252 197	51,864 35,774			659,763 334,628 5,384	310 11,550 370	3,214 2,783 827 7	656,239 320,235 4,137		477,253 250,490 103,825 5,022	473,313 249,620 97,222 4,677	3,940 870 6,603 345	1,362,978 1,060,128 267,516 10,298	67 68 69 70
36 155 226 1,571	17,496 39,562 70,315 738,326	2 138 637	325 26,722 114,178	2 20 108	225 800 1,990 12,725	12,221 5,647 31,619 264,281	7,910 330 2,488 8,802	717 738 2,932 15,086	3,544 4,579 26,229 175,905	50	27,732 99,754 319,313 5,003,389	26,524 99,634 312,829 4,922,079	1,208 120 6,484 81,310	111,753 213,537 507,300 6,839,886	71 72 73 74

hosiery and knit goods, 2; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; ironwork, architectural and ornamental, 1; lamps and reflectors, 1; liquors, vinous, 1; mattresses and spring beds, 2; models and patterns, 1; oil, not elsewhere specified, 1; petroleum, refining, 1; regalia and society banners and emblems, 1; sewing machine repairing, 2; shirts, 1; stamped ware, 1; tin andterne plate, 2; toys and games, 1; upholstering materials, 2; whips, 1; wire, 2; wirework, including wire rope and cable, 2; worsted goods, 1.

TABLE 8.—MANUFACTURES IN WHEELING

	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.
1	All industries .....	406	\$13,224,577	\$1,086,022	\$2,113,951	\$2,545,102	\$7,479,412	426	465	\$439,532	7,219	\$3,096,730
2	Blacksmithing and wheelwrighting .....	17	9,793	1,322	2,260	2,351	8,860	19			15	7,635
3	Boots and shoes, custom work and repairing.	24	8,562	575	775	1,260	952	24			6	2,194
4	Bread and other bakery products.....	23	125,073	24,260	33,500	45,414	21,899	23	13	10,452	52	21,454
5	Carpentering .....	15	225,176	27,575	31,893	25,969	139,739	18	12	8,858	276	93,161
6	Carriages and wagons.....	8	44,000	7,500	4,100	8,100	29,300	10	4	3,150	49	23,661
7	Clothing, men's, custom work and repairing.	28	233,763	13,410	21,240	5,798	193,307	36	15	10,966	180	32,024
8	Clothing, women's, dressmaking.....	21	6,335			1,090	5,245	22			47	3,333
9	Coffee and spice, roasting and grinding.	3	62,670	14,000	12,650	11,620	24,400	7	1	463	10	4,785
10	Confectionery .....	3	56,153			13,058	43,100	4	6	2,562	44	16,719
11	Dyeing and cleaning .....	3	2,800			1,600	1,200	4			14	6,033
12	Foundry and machine shop products.....	10	181,757	14,414	21,338	70,923	75,027	10	14	12,693	120	66,609
13	Furniture, cabinetmaking, repairing, and upholstering.	4	14,000	3,900	3,100	1,385	6,575	5			11	4,907
14	Iron and steel .....	7	3,787,275	418,443	812,500	963,027	1,588,305		35	62,674	1,755	1,049,785
15	Liquors, malt .....	5	1,603,861	100,611	400,803	292,195	715,247	2	46	53,710	205	99,223
16	Looking-glass and picture frames.....	3	1,703			140	1,563	4			4	1,980
17	Masonry, brick and stone .....	14	35,310	5,350	800	10,336	18,774	22	1	780	121	53,607
18	Millinery, custom work .....	15	57,015	15,000	8,250	1,800	31,965	15	10	3,340	71	15,520
19	Mineral and soda waters .....	6	12,071	850	750	4,750	5,721	9	2	1,015	7	1,733
20	Monuments and tombstones .....	3	8,629		1,400	1,329	5,900	3	1	420	9	4,214
21	Painting, house, sign, etc .....	13	52,240	4,150	1,930	4,855	41,305	21	1	150	69	40,502
22	Patent medicines and compounds .....	3	13,800	700	700	200	12,200	3			3	844
23	Photography .....	9	11,300			6,550	4,750	11	1	203	13	4,616
24	Pickles, preserves, and sauces .....	5	274,733	12,262	40,194	62,013	160,314	3	40	41,032	437	70,542
25	Plumbing, and gas and steam fitting ..	13	190,262	31,000	16,850	14,556	127,856	15	7	2,842	112	55,509
26	Printing and publishing, book and job.	6	21,721	1,000	2,000	15,250	3,471	11	1	960	22	7,230
27	Printing and publishing, newspapers and periodicals.	5	239,493	30,000	10,000	139,049	110,449	2	52	43,240	133	107,711
28	Roofing and roofing materials.....	6	9,020	650	800	1,575	5,995	6			21	9,332
29	Saddlery and harness .....	7	26,735	700	1,200	4,030	20,305	8	2	2,600	35	12,140
30	Tinsmithing, coppersmithing, and sheet-iron working.	10	45,265	5,500	9,800	5,625	24,340	14	2	564	37	22,220
31	Tobacco, chewing, smoking, and snuff.	4	2,253,775	52,500	102,550	49,937	2,048,788	3	50	49,118	318	79,765
32	Tobacco, cigars and cigarettes.....	85	246,592	30,900	29,920	7,565	173,207	40	17	11,722	665	261,942
33	Watch, clock, and jewelry repairing.....	13	10,110			5,025	5,085	12	2	900	16	6,715
34	All other industries <sup>1</sup> .....	55	3,397,575	269,450	542,593	766,764	1,813,768	40	125	110,162	2,293	854,020

<sup>1</sup> Embraces awnings, tents, and sails, 1; baking and yeast powders, 1; baskets, and rattan and willow ware, 2; bicycle and tricycle repairing, 2; bottling, 1; boxes, fancy and paper, 2; boxes, wooden packing, 2; brass, 1; brass castings and brass finishing, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by street railroad companies, 1; chemicals, 1; cooperage, 2; dyeing and finishing textiles, 1; fertilizers, 2; fur hats, 1; gas, illuminating and heating, 1; glass, 2; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hand stamps, 1; hardware, 1; ice, manufactured, 2; iron and steel, nails and

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns.....	503	\$12,701,214	\$1,175,097	\$2,257,967	\$3,902,491	\$5,365,659	513	447	\$390,626	8,820	\$3,675,898
2	Benwood .....	16	4,727,266	477,240	1,102,825	1,679,344	1,487,357	11	77	72,379	2,995	1,388,601
3	Charleston .....	119	1,971,307	133,275	152,990	429,243	653,299	110	95	81,995	1,176	454,578
4	Huntington .....	89	2,286,230	146,125	369,105	495,343	1,275,657	92	87	71,905	1,861	371,708
5	Martinsburg .....	101	1,633,024	211,357	356,612	483,231	581,824	103	56	46,384	1,105	232,921
6	Parkersburg .....	131	2,632,387	204,100	276,435	314,830	1,337,522	197	132	117,968	1,683	677,590

## BY SPECIFIED INDUSTRIES: 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 and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
5,802	\$2,750,586	1,775	\$323,019	142	\$23,125	\$1,954,205	\$73,767	\$66,168	\$1,728,315	\$85,955	\$9,076,978	\$8,569,619	\$507,359	\$16,747,544	1
15	7,635					1,994	1,606	76	812		8,972	8,424	548	41,531	2
5	2,194					1,700	1,577	47	76		6,046	6,001	45	21,047	3
48	20,690	2	436	2	828	43,060	1,298	916	40,846		130,324	126,681	3,693	222,063	4
272	92,187			4	974	81,034	1,663	1,445	13,655	64,271	144,707	143,940	857	399,655	5
48	23,261	1	300			2,958	1,775	297	886		32,426	31,371	1,055	78,476	6
71	52,468	108	29,400	1	156	21,075	7,819	1,140	3,569	8,547	116,598	115,418	1,180	289,236	7
		47	8,338			1,794	1,729	26	39		7,540	7,335	205	28,336	8
8	4,499	2	286			2,897	400	772	1,725		195,534	194,859	675	216,976	9
32	14,779	11	1,784	1	156	5,084	2,410	193	2,481		57,881	56,446	1,435	99,963	10
10	5,104	4	984			2,082	1,920		162		775	576	199	14,006	11
120	66,009					3,223	1,493	894	5,836		56,866	54,789	2,127	213,495	12
11	4,907					1,063	220	158	685		4,917	4,684	233	16,417	13
1,724	1,040,110	5	1,800	26	7,875	108,280		16,659	91,621		4,060,630	3,660,792	399,838	5,833,950	14
205	99,223					420,685	300	17,777	402,608		156,790	142,978	13,812	953,092	15
8	1,700	1	280			310	192	18	100		2,227	2,211	16	6,775	16
121	53,007					2,265	185	63	2,017		67,468	67,411	47	151,778	17
2	1,200	69	14,320			7,750	5,831	538	1,881		69,032	68,743	289	125,400	18
6	1,530	1	208			2,890	686	97	2,107		5,459	5,435	24	29,174	19
9	4,214					2,020	421	90	799	740	3,505	3,435	70	13,825	20
69	40,502					2,565	1,404	115	1,024	22	87,276	87,237	39	117,738	21
2	500	1	844			616	195	14	407		9,485	9,485		16,500	22
9	3,720	4	896			3,988	3,329	107	487	65	7,924	7,788	136	29,385	23
77	36,787	344	82,237	16	1,518	52,649	3,013	2,369	47,267		379,963	377,241	2,722	707,433	24
112	65,509					18,478	3,510	720	2,248	12,000	129,253	128,127	1,126	261,103	25
10	5,179	11	1,983	1	118	1,669	1,060	117	812	180	10,958	10,484	474	24,767	26
161	101,643	21	5,963	1	105	24,215	3,581	1,139	19,495		64,270	63,282	988	276,285	27
20	9,252			1	130	1,039	350	47	642		18,811	18,664	147	35,170	28
84	11,990			1	160	1,819	1,504	70	245		28,565	28,530	35	61,840	29
87	22,220					3,056	1,477	399	1,180		20,525	20,117	408	62,962	30
66	27,901	252	51,864			650,763	810	3,214	656,289		477,253	473,813	3,940	1,362,978	31
543	243,224	85	14,799	87	3,919	269,715	3,814	2,061	253,810		185,438	185,026	412	823,992	32
14	6,440	1	150	1	125	1,744	1,066	36	42		5,629	5,437	192	21,666	33
1,438	689,802	805	156,647	50	7,571	193,825	11,999	14,584	169,112	130	2,573,851	2,503,469	70,392	4,185,530	34

spikes, cut and wrought, including wire nails, 1; ironwork, architectural and ornamental, 1; lamps and reflectors, 1; leather, tanned, curried, and finished, 1; lime and cement, 1; liquors, various, 1; lock and gun smithing, 2; lumber, planing mill products, including sash, doors, and blinds, 2; mattresses and spring beds, 1; models and patterns, 1; paper hanging, 1; plastering and stuccowork, 1; pottery, terra cotta, and fire-clay products, 2; slaughtering and meat packing, whole-sale, 1; stamped ware, 1; tin andterne plate, 2; tools, not elsewhere specified, 2; toys and games, 1; wirework, including wire rope and cable, 1.

## TOWNS UNDER 20,000 IN POPULATION: 1900.

7,884	\$3,496,112	707	\$141,683	229	\$37,603	\$688,063	\$64,247	\$61,086	\$477,548	\$85,182	\$13,388,357	\$12,733,759	\$654,598	\$22,405,727 1
2,874	1,362,431	2	416	119	25,754	141,352	170	16,454	109,913	14,815	6,572,629	6,055,049	517,580	11,142,268 2
1,059	428,521	103	24,149	14	1,908	95,991	23,988	9,776	61,321	906	1,033,443	1,013,913	19,530	2,052,762 3
1,779	862,179	74	18,865	8	664	117,075	9,791	12,439	93,995	850	2,598,987	2,563,910	45,027	3,873,432 4
606	195,868	442	81,610	57	5,443	113,757	7,277	5,920	59,754	40,806	382,551	313,049	19,502	1,410,514 5
1,566	657,118	86	16,643	31	3,834	219,888	23,021	16,497	162,565	27,805	2,350,797	2,297,838	52,959	3,926,751 6



# WISCONSIN.

Table 1 shows the manufacturing and mechanical industries of Wisconsin as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing establishments,

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

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

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	16,187	10,417	7,674	7,013	8,064	1,262	55.4	35.7	9.4	128.9	142.8
Capital	\$330,568,779	\$246,515,404	\$73,821,802	\$41,981,872	\$15,831,581	\$3,382,148	34.1	233.9	75.8	165.2	868.1
Salaries of officials, clerks, etc., number	10,760	12,025	(2)	(2)	(2)	(2)	10.6				
Salaries	\$10,608,883	\$8,885,441	(2)	(2)	(2)	(2)	19.4				
Wage-earners, average number	142,076	120,006	57,109	48,910	16,414	6,089	18.4	110.1	80.1	184.9	153.1
Total wages	\$58,407,597	\$42,958,287	\$18,814,917	\$13,575,642	\$4,268,708	\$1,712,496	36.0	128.3	38.6	218.0	149.8
Men, 16 years and over	120,181	105,820	48,255	40,296	14,641	5,798	14.1	118.3	19.8	175.2	152.5
Wages	\$53,961,530	\$40,284,576	(2)	(2)	(2)	(2)	34.0				
Women, 16 years and over	16,266	12,761	6,241	2,114	778	291	27.6	104.3	195.2	173.5	165.6
Wages	\$3,553,063	\$2,486,013	(2)	(2)	(2)	(2)	45.9				
Children, under 16 years	5,679	1,935	2,613	1,500	(2)	(2)	193.5	25.9	74.2		
Wages	\$892,995	\$237,678	(2)	(2)	(2)	(2)	275.7				
Miscellaneous expenses	\$30,935,354	\$18,602,704	(2)	(2)	(2)	(2)	66.3				
Cost of materials used	\$208,838,167	\$145,437,016	\$85,796,178	\$45,851,266	\$17,137,334	\$5,414,981	43.6	60.5	87.1	167.6	216.5
Value of products, including custom work and repairing	\$360,818,942	\$248,546,164	\$123,255,480	\$77,214,326	\$27,849,467	\$9,293,068	45.2	93.8	66.1	177.3	199.7
Total population	2,062,916	1,686,880	1,315,497	1,054,670	775,881	305,391	22.3	28.2	24.7	85.9	154.1
Wage-earners engaged in manufactures	142,076	120,006	57,109	48,910	16,414	6,089	18.4	110.1	80.1	184.9	153.1
Per cent of total population	6.9	7.1	4.3	4.6	2.0	2.0					
Assessed value of real estate	\$503,690,767	\$404,590,340	\$344,788,721	\$252,322,107	\$148,238,766	\$22,458,443	8.4	34.7	80.6	70.2	560.1
Value of land and buildings invested in manufactures <sup>7</sup>	\$104,389,769	\$82,227,801	(2)	(2)	(2)	(2)	27.0				
Per cent of assessed value	20.7	17.7									

<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 6,126 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

<sup>6</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>7</sup> Does not include value of rented property.

Table 1 shows that there has been a notable growth in the manufacturing and mechanical industries of Wisconsin during the half century. The population during these years increased from 305,391 to 2,062,916, while the average number of wage-earners employed in manufacturing establishments increased from 6,089 to 142,076, embracing, in 1900, 6.9 per cent of the entire population, compared with 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 194,991, or 9.5 per cent of the total population of the state. Measured by the value of products, the greatest percentage of increase, 199.7, was during the decade ending with the year 1860, although the greatest absolute increase was between the years 1880 and 1890.

The remarkable growth of manufactures in Wisconsin is to be attributed to an abundant supply of materials and excellent market facilities. Manufacturing is not concentrated in a few localities, but is distributed throughout the state. Six large rivers—the Menominee, St. Croix, Chip-

pewa, Wisconsin, Fox, and Wolf—with many smaller streams, and nearly two thousand fresh-water lakes in the northern part of the state, afford enormous waterpower, as yet only partially developed. On the western boundary of the state are 250 miles of navigable rivers, while the Great Lakes extend for more than 400 miles along the northern and eastern borders. On the shores of Lake Michigan and Green Bay are 11 important manufacturing cities, all accessible to lake-going vessels; and the cities of Ashland and Superior, on Lake Superior, are large and growing manufacturing centers. In 1900 Wisconsin had 6,531 miles of railroads, which have contributed to the development of agriculture and manufactures.

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, 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	18,259	\$331,691,656	19,468	143,027	\$58,449,055	\$30,982,395	\$209,117,785	\$84,508,738	\$115,390,995	\$9,218,002	\$361,696,978
Hand trades <sup>1</sup>	6,054	10,031,550	6,984	14,064	6,047,117	1,388,658	12,212,150	382,551	11,531,179	298,420	26,424,816
Governmental establishment	1	4,100		3	1,920		20		20		2,428
Educational, eleemosynary, and penal institutions	10	187,645		242	10,230	2,000	96,914	7,970	85,732	8,212	117,692
Establishments with a product of less than \$500	2,061	931,182	2,221	706	29,808	45,041	182,634	27,001	154,767	866	757,916
All other establishments	10,193	820,537,229	10,263	128,012	52,360,480	29,540,696	196,626,017	84,091,216	103,619,297	8,915,504	834,894,126

<sup>1</sup> Includes bicycle and tricycle repairing, 179; blacksmithing and wheelwrighting, 1,581; boots and shoes, custom work and repairing, 612; carpentering, 665; clothing, men's, custom work and repairing, 661; clothing, women's, dressmaking, 224; dyeing and cleaning, 29; furniture, cabinetmaking, repairing, and upholstering, 142; lock and gun smithing, 44; masonry, brick and stone, 223; millinery, custom work, 611; painting, house, sign, etc., 379; paper hanging, 23; plastering and stuccowork, 54; plumbing, and gas and steam fitting, 248; sewing machine repairing, 9; taxidermy, 4; watch, clock, and jewelry repairing, 366.

Of the 18,259 establishments of all classes shown in this table, 8,115, or 44.4 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 \$27,182,732, or only 7.5 per cent of the total value of the products of the state.

In addition to the 18,259 active establishments in the state during the census year, with a capital of \$331,691,656, shown in Table 2, there were 98 idle establishments, with a capital of \$2,836,898, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Baskets, and rattan and willow ware	1	\$67,000	Lime and cement	3	\$9,900
Bicycle and tricycle repairing	2	11,540	Lumber and timber products	18	312,335
Brick and tile	11	61,420	Lumber, planing mill products, including sash, doors, and blinds	8	10,100
Cheese, butter, and condensed milk, factory product	16	44,926	Malt	1	24,000
Flouring and grist mill products	11	296,075	Marble and stone work	1	27,351
Foundry and machine shop products	2	14,000	Oil, linseed	1	15,000
Fruits and vegetables, canning and preserving	1	9,000	Paper and wood pulp	1	400,000
Furniture, factory product	1	47,000	Woolen goods	2	34,000
Hosiery and knit goods	2	30,519	All other industries	19	27,462
Iron and steel	1	1,320,325			
Leather, tanned, curried, and finished	2	85,005			

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY 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	6,897	\$258,990,016	91,674	\$39,569,374	\$22,784,877	\$161,656,123	\$268,982,887
	1890	4,612	208,194,682	86,638	29,565,678	16,356,974	116,306,786	188,917,674
Increase, 1890 to 1900		1,885	50,795,334	5,036	10,003,696	7,427,903	45,349,387	75,065,193
Per cent of increase		41.8	24.4	5.8	33.8	48.4	39.0	39.7
Per cent of total of all industries in state	1900	80.5	78.3	64.5	67.7	73.7	77.4	73.2
	1890	48.8	84.5	72.2	68.8	82.6	80.0	70.0
Agricultural implements	1900	51	15,291,554	8,289	1,625,765	699,865	3,290,690	7,886,363
	1890	51	10,611,185	2,765	1,197,693	617,242	1,928,182	5,015,512
Boots and shoes, factory product	1900	40	2,478,626	2,507	821,403	279,913	3,170,921	4,791,684
	1890	32	2,621,606	2,036	774,163	146,845	1,406,557	2,972,233
Carriages and wagons	1900	436	8,461,561	3,402	1,620,693	370,099	3,346,621	6,956,341
	1890	500	7,046,491	3,251	1,469,051	354,675	3,075,638	5,947,499
Cars and general shop construction and repairs by steam railroad companies	1900	46	4,206,285	4,502	2,898,144	138,270	3,525,144	6,306,823
	1890	22	1,681,255	2,148	1,217,032		898,673	2,221,152
Cheese, butter, and condensed milk, factory product	1900	2,018	4,917,940	1,780	898,499	157,123	16,623,859	20,120,147
	1890	966	1,833,988	1,373	405,227	75,721	5,876,630	6,960,711
Clothing, men's, factory product	1900	89	2,767,521	2,827	606,850	511,768	2,369,930	4,393,092
	1890	27	3,200,775	2,662	582,992	258,831	2,317,771	3,909,726
Flouring and grist mill products	1900	717	9,611,764	1,412	717,183	697,714	22,758,056	26,327,942
	1890	497	9,804,761	1,770	799,058	646,648	20,420,677	24,252,237
Foundry and machine shop products	1900	272	22,387,310	12,670	6,376,040	1,671,907	10,167,483	22,252,730
	1890	155	8,965,377	4,987	2,484,924	818,637	8,699,870	8,467,230
Furniture, factory product	1900	78	10,209,901	7,775	2,553,595	717,374	3,899,134	8,721,823
	1890	46	8,270,421	2,909	1,101,542	316,436	1,488,794	3,616,517
Iron and steel	1900	12	5,564,379	1,921	1,216,850	361,671	5,410,066	8,905,226
	1890	9	6,164,973	1,890	981,787	302,405	4,613,753	6,501,761

TABLE 3.—COMPARATIVE SUMMARY OF TWENTY 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.			
Leather, tanned, curried, and finished	1900	42	\$18,288,591	5,262	\$2,241,861	\$785,767	\$16,040,804	\$20,074,878
	1890	88	6,845,812	2,487	1,271,887	381,436	8,732,182	11,161,860
Liquors, malt	1900	147	35,817,950	3,904	1,926,780	10,259,291	4,237,454	19,894,709
	1890	107	16,803,323	2,859	1,457,308	8,806,846	4,829,890	14,193,057
Lumber and timber products	1900	1,066	77,866,223	21,701	9,480,011	2,420,060	85,199,409	57,684,816
	1890	1,119	105,191,521	41,805	10,712,947	5,046,438	86,649,358	60,966,444
Lumber, planing mill products, including sash, doors, and blinds	1900	123	6,591,114	4,877	1,653,819	399,644	5,036,773	8,400,695
	1890	88	5,339,694	3,480	1,411,768	814,775	3,780,105	6,295,810
Malt	1900	17	3,648,145	365	209,812	207,596	3,174,525	4,089,715
	1890	15	2,447,823	339	187,530	122,988	1,848,126	2,472,018
Paper and wood pulp	1900	47	16,580,140	4,240	1,649,010	664,591	6,712,749	10,895,576
	1890	27	5,300,624	1,779	691,492	362,634	2,688,803	4,476,368
Printing and publishing, newspapers and periodicals	1900	495	4,390,988	2,079	1,174,242	462,784	902,588	4,103,415
	1890	379	2,645,930	2,218	916,085	574,866	784,777	3,266,897
Slaughtering and meat packing, wholesale	1900	11	3,784,216	1,361	560,808	405,589	11,850,196	18,601,125
	1890	16	2,269,880	737	338,273	98,388	7,686,075	8,998,754
Textiles:								
Total	1900	62	4,820,162	3,030	940,820	841,458	2,248,124	4,238,242
	1890	60	4,603,613	3,747	807,483	279,828	2,399,217	4,100,201
Cotton goods	1900	3	467,808	347	80,567	18,992	172,207	816,061
	1890	4	392,509	490	181,170	62,477	382,838	620,196
Hosiery and knit goods	1900	27	2,558,290	2,722	600,495	223,216	1,176,146	2,486,813
	1890	23	1,214,727	2,239	379,144	102,727	899,371	1,635,641
Woolen goods	1900	32	1,794,055	861	259,258	104,260	899,711	1,485,868
	1890	33	2,496,377	1,018	297,169	124,124	1,117,013	1,844,304
Tobacco:								
Total	1900	628	2,815,046	2,269	903,239	1,282,498	1,697,152	4,888,080
	1890	359	1,985,630	1,890	766,841	832,435	1,316,098	3,787,677
Chewing, smoking, and snuff	1900	6	717,782	300	103,958	845,650	472,735	1,632,354
	1890	4	683,774	245	95,124	623,507	353,896	1,212,668
Cigars and cigarettes	1900	622	1,597,914	1,969	799,281	436,842	1,224,417	3,255,676
	1890	355	1,301,856	1,651	661,717	308,838	962,202	2,524,909

The 20 leading industries of the state in 1900, as shown in Table 3, embraced 6,397 establishments, or 39.5 per cent of the total number in the state; used a capital of \$258,990,016, or 78.3 per cent of the total; gave employment to 91,674 wage-earners, or 64.5 per cent of the total number; and paid \$39,569,374, or 67.7 per cent of the total wages. The value of their products was \$263,982,867, or 73.2 per cent of the total. In the discussion of Table 3, which follows, the 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 1,066 establishments reported in 1900 gave employment to 21,701 wage-earners, or 15.3 per cent of the wage-earners in the state, and their products were valued at \$57,684,816, or 16 per cent of the total value of the products of the state. In 1890 there were 1,119 establishments, 41,805 wage-earners, and products valued at \$60,966,444. The decrease in the value of products during the decade was \$3,331,628, or 5.5 per cent. Notwithstanding this decrease, Wisconsin in 1900 was the first among the states in the value of its lumber and timber products; Michigan, which was first in 1890, also suffered a decline. Most of the timber has been removed from the southern part of the state, yet in the north there is still an abundance of pine, hemlock, spruce, and deciduous timber. During the census year, including custom sawing, there were produced 3,389,166,000 feet of sawed lumber.

The manufacture of flouring and grist mill products ranked second among the industries of the state in 1900, with 717 establishments, 1,412 wage-earners, and products valued at \$26,327,942. In 1890 there were 497 establishments, 1,770 wage-earners, and products valued at \$24,252,297. The increase in the value of products during the decade was \$2,075,645, or 8.6 per cent. Although the agricultural interests of the state are important and extensive, much of the material for this industry is brought from other states. The Wisconsin wheat crop of 1899 was 11,773,382 bushels,<sup>1</sup> while 22,356,963 bushels of wheat were consumed by the mills of the state.

There were 272 establishments engaged in 1900 in the manufacture of foundry and machine shop products, the industry third in rank, with 12,670 wage-earners, and products valued at \$22,252,730. In 1890 there were 155 establishments, 4,987 wage-earners, and products valued at \$8,467,290. The increase in the value of products during the decade was \$13,785,440, or 162.8 per cent. This is a greater absolute increase than is shown for any other industry. The products of this industry include machinery for motive power (principally gas and steam engines and boilers), and for the equipment of lumber, flour, and paper mills, breweries, and mines. Milwaukee is the principal seat of this industry, with products valued at \$14,495,362, or 65.1 per cent of the total for the state.

<sup>1</sup> Yearbook of the Department of Agriculture, 1899, page 766.

There were 2,018 establishments engaged in the factory manufacture of cheese, butter, and condensed milk in 1900, with 1,780 wage-earners, and products valued at \$20,120,147. In 1890 there were 966 establishments, 1,878 wage-earners, and products valued at \$6,960,711. The increase in the value of products during the decade was \$13,159,436, or 189.1 per cent. The striking growth of this industry in the last decade has brought the state to the second place in value of products in 1900, instead of fourth as in 1890. The products in 1900 included 61,818,502 pounds of butter and 77,748,680 pounds of cheese.

There were 42 establishments engaged in the tanning, currying, and finishing of leather in 1900, with 5,262 wage-earners, and products valued at \$20,074,373. In 1890 there were 38 establishments, 2,487 wage-earners, and products valued at \$11,161,850. The increase in the value of products during the decade was \$8,912,523, or 79.8 per cent. An abundant supply of tan-bark, the result of the extensive lumber operations in the state, has contributed much to the growth of the leather industry.

There were 147 establishments engaged in the manufacture of malt liquors in 1900, with 3,904 wage-earners, and products valued at \$19,394,709. In 1890 there were 107 establishments, 2,859 wage-earners, and products valued at \$14,193,037. The increase in the value of products during the decade was \$5,201,652, or 36.6 per cent. This was the third industry in importance in 1890, measured by the value of products, and while other industries have had a more rapid growth, the figures given show that the increase in this state is more than commensurate with the increase throughout the country, Wisconsin ranking fourth in 1900, as compared with fifth in 1890. Milwaukee continues to be the principal seat of this industry, the value of products having increased from \$10,810,695 in 1890 to \$13,899,390 in 1900.

There were 11 establishments engaged in slaughtering and meat packing in 1900, with 1,861 wage-earners, and products valued at \$13,601,125. In 1890 there were 15 establishments, 737 wage-earners, and products valued at \$8,393,754. The increase in the value of products during the decade was \$5,207,371, or 62 per cent.

There were 47 establishments engaged in the manufacture of paper and wood pulp in 1900, with 4,240 wage-earners, and products valued at \$10,895,576. In 1890 there were 27 establishments, 1,779 wage-earners, and products valued at \$4,475,368. The increase in the value of products during the decade was \$6,420,208, or 143.5 per cent. These mills are situated mainly on the large rivers which afford the abundant power so essential to the successful conduct of this industry. The large quantities of spruce, hemlock, and other woods used are furnished by the forests of the state, and the quality of the water is unexcelled for paper-making purposes.

There were 12 establishments engaged in the manufacture of iron and steel in 1900, with 1,921 wage-earners, and products valued at \$8,905,226. In 1890 there were 9 establishments, 1,890 wage-earners, and products valued at \$6,501,761. The increase in the value of products

during the decade was \$2,403,465, or 37 per cent. The iron ore mined in the northern part of the state is among the best in the world.

There were 78 establishments engaged in the factory manufacture of furniture in 1900, with 7,775 wage-earners, and products valued at \$8,721,823. In 1890 there were 46 establishments, 2,909 wage-earners, and products valued at \$3,616,517. The increase in the value of products during the decade was \$5,105,306, or 141.2 per cent.

There were 123 establishments engaged in the manufacture of planing mill products in 1900, with 4,377 wage-earners, and products valued at \$8,400,695. In 1890 there were 88 establishments, 3,480 wage-earners, and products valued at \$6,295,810. The increase in the value of products during the decade was \$2,104,885, or 33.4 per cent. The manufacture of furniture and of planing mill products are closely allied to lumbering, the principal industry of the state, and their development has been fostered by the abundant supply of available material. These three industries, directly dependent on the forests for their materials, had a combined product valued at \$74,757,384, or 20.7 per cent of the total for all industries of the state.

There were 51 establishments engaged in the manufacture of agricultural implements in 1900, with 3,289 wage-earners, and products valued at \$7,886,363. In 1890 there were 51 establishments, 2,765 wage-earners, and products valued at \$5,015,512. The increase in the value of products during the decade was \$2,870,851, or 57.2 per cent. The growth of this industry has been stimulated by proximity to the markets of Wisconsin and other grain-growing states, and by the ready supply of both wood and iron.

There were 436 establishments engaged in the manufacture of carriages and wagons in 1900, with 3,402 wage-earners, and products valued at \$6,956,841. In 1890 there were 500 establishments, 3,251 wage-earners, and products valued at \$5,947,499. The increase in the value of products during the decade was \$1,008,342, or 17 per cent.

There were 46 establishments engaged in car construction and general shop work of steam railroad companies in 1900, with 4,502 wage-earners, and products valued at \$6,306,823. In 1890 there were 22 establishments, 2,148 wage-earners, and products valued at \$2,221,152. The increase in the value of products during the decade was \$4,085,671, or 183.9 per cent.

There were 628 establishments engaged in the manufacture of tobacco in 1900, with 2,269 wage-earners, and products valued at \$4,888,030. In 1890 there were 359 establishments, 1,896 wage-earners, and products valued at \$3,737,577. The increase in the value of products during the decade was \$1,150,453, or 30.8 per cent. The cultivation of tobacco was introduced in 1850,<sup>1</sup> and large quantities are now produced, especially of grades suitable for use in cigars. The value of cigars and cigarettes produced in 1900 was \$3,255,676, and of chewing and smoking tobacco and snuff, \$1,632,354.

<sup>1</sup> Yearbook of the Department of Agriculture, 1899, page 432.

There were 40 establishments engaged in the factory manufacture of boots and shoes in 1900, with 2,507 wage-earners, and products valued at \$4,791,684. In 1890 there were 32 establishments, 2,036 wage-earners, and products valued at \$2,972,233. The increase in the value of products during the decade was \$1,819,451, or 61.2 per cent.

There were 89 establishments engaged in the factory manufacture of men's clothing in 1900, with 2,327 wage-earners, and products valued at \$4,393,092. In 1890 there were 27 establishments, 2,662 wage-earners, and products valued at \$3,909,726. The increase in the value of products during the decade was \$483,366, or 12.4 per cent.

There were 62 establishments engaged in the manufacture of textiles in 1900, with 3,930 wage-earners, and products valued at \$4,238,242. In 1890 there were 60 establishments, 3,747 wage-earners, and products valued at \$4,100,201. The increase in the value of products during the decade was \$138,041, or 3.4 per cent. The value of hosiery and knit goods increased from \$1,635,641 in 1890 to \$2,486,813 in 1900, or 52 per cent. This was the only one of the textile industries which showed an advance. The value of the woolen goods produced in the state declined from \$1,844,364 in 1890 to \$1,435,368 in 1900, or

22.2 per cent, and that of cotton goods from \$620,196 to \$316,061, or 49 per cent.

There were 495 establishments engaged in the printing and publishing of newspapers and periodicals in 1900, with 2,679 wage-earners, and products valued at \$4,103,415. In 1890 there were 379 establishments, 2,218 wage-earners, and products valued at \$3,256,897. The increase in the value of products during the decade was \$846,518, or 26 per cent.

There were 17 establishments engaged in the manufacture of malt in 1900, with 366 wage-earners, and products valued at \$4,089,715. In 1890 there were 15 establishments, 339 wage-earners, and products valued at \$2,472,018. The increase in the value of products during the decade was \$1,617,697, or 65.4 per cent. This industry is tributary to the manufacture of malt liquors, and does not include the grain malted by brewers for their own use or for sale.

#### URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the cities of La Crosse, Milwaukee, Oshkosh, and Racine, as returned at the censuses of 1890 and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, LA CROSSE, MILWAUKEE, OSHKOSH, AND RACINE, 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	16,187	\$330,568,779	142,076	\$58,407,597	\$30,935,354	\$208,888,167	\$360,818,942
Per cent of increase.....	1890	10,417	246,515,404	120,006	42,958,267	18,602,764	145,437,916	243,516,161
		55.4	34.1	18.4	36.0	66.8	43.6	45.2
La Crosse.....	1900	255	7,230,360	8,009	1,105,935	\$64,006	4,965,850	8,281,749
Per cent of increase.....	1890	200	10,039,872	8,844	1,387,362	703,625	5,971,672	9,157,501
		27.5	128.0	121.7	120.3	22.8	116.8	19.6
Milwaukee.....	1900	3,342	110,863,854	48,328	20,240,656	16,690,165	65,118,719	123,786,449
Per cent of increase.....	1890	2,879	69,145,814	38,850	16,737,261	8,285,410	55,815,485	97,503,951
		16.1	59.6	24.4	20.9	101.4	16.7	27.0
Oshkosh.....	1900	285	8,018,038	4,587	1,762,410	616,564	4,742,744	8,781,248
Per cent of increase.....	1890	423	6,461,812	4,917	1,718,022	526,149	4,668,843	8,620,626
		182.6	24.1	16.7	2.9	17.2	1.6	1.0
Racine.....	1900	252	16,753,215	6,785	2,994,100	1,004,165	6,253,372	12,502,796
Per cent of increase.....	1890	190	11,633,207	4,460	2,009,869	662,448	4,340,308	8,462,359
		32.6	45.8	52.1	49.0	51.6	44.1	47.7
Total for 4 cities.....	1900	4,134	142,865,467	62,709	26,108,151	19,174,900	81,080,685	153,352,242
Per cent of increase.....	1890	3,692	97,180,705	52,071	21,847,514	10,177,632	70,796,208	123,744,437
		12.0	46.5	20.4	19.5	88.4	14.5	23.9
Per cent of 4 cities to total for state.....	1900	25.5	43.1	44.1	44.7	62.0	38.8	42.5
	1890	35.4	39.4	43.4	50.9	51.7	48.7	49.8

<sup>1</sup> Decrease.

It appears from Table 4 that there has been a considerable increase during the past decade in the manufactures of these 4 cities. The number of establishments increased from 3,692 to 4,134, or 12 per cent; the average number of wage-earners from 52,071 to 62,709, or 20.4 per cent; and the value of products from \$123,744,437 to \$153,352,242, or 23.9 per cent. The city of Racine shows the most rapid growth, the value of products having increased from \$8,462,359 to \$12,502,796, or 47.7 per cent. The city of La Crosse shows a general decrease, due to the exhaustion of the forests tributary to its lumber mills, which in 1890 turned out products valued at \$3,570,522, while in 1900 the value was only \$1,544,410.

In Milwaukee, the leading city of the state, the number

of establishments increased from 2,879 in 1890 to 3,342 in 1900, or 16.1 per cent; the average number of wage-earners from 38,850 to 48,328, or 24.4 per cent; and the value of products from \$97,503,951 to \$123,786,449, or 27 per cent. The number of establishments, number of wage-earners, and value of products in this city in 1900 constituted 20.6, 34, and 34.3 per cent, respectively, of the totals for the state.

Table 5 presents the totals for the manufacturing industries of the 53 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.....	16,187	\$380,568,779	17,247	142,076	\$58,407,597	\$30,985,854	\$208,888,167	\$360,818,942	-----	100.0	12,062,916	-----	100.0
Total for urban manufactures.....	8,329	249,792,346	8,926	114,030	46,755,420	25,963,571	143,681,196	262,595,610	-----	72.8	702,186	-----	86.9
Antigo.....	65	469,185	69	873	147,591	42,760	885,989	728,755	45	0.2	5,145	81	0.3
Appleton.....	240	4,975,397	273	2,226	951,147	804,724	8,251,621	5,330,669	8	1.5	15,085	12	0.7
Ashland.....	129	6,017,653	135	1,830	875,715	800,286	1,929,656	4,157,718	11	1.2	13,074	14	0.6
Baraboo.....	75	871,969	85	405	178,509	48,109	846,458	695,731	47	0.2	5,761	25	0.3
Beaverdam.....	57	1,181,842	64	707	215,526	60,287	629,527	1,002,255	38	0.8	5,128	32	0.2
Beloit.....	103	2,593,589	118	2,055	981,217	185,927	1,543,086	3,185,080	19	0.9	10,486	18	0.5
Berlin.....	65	458,021	70	375	134,514	32,112	412,259	730,247	44	0.2	4,489	85	0.2
Chippewa Falls.....	72	1,847,675	79	555	243,161	104,828	1,273,597	2,131,067	23	0.6	8,094	22	0.4
Depere.....	48	854,321	53	860	115,780	35,489	689,331	880,800	39	0.3	4,038	37	0.2
Eau Claire.....	148	4,756,338	157	1,858	726,565	298,327	2,491,102	4,366,230	10	1.2	17,517	9	0.8
Fond du Lac.....	188	2,745,438	189	1,834	677,977	239,112	1,895,233	3,386,822	18	0.9	15,110	11	0.7
Fort Atkinson.....	67	603,698	73	392	146,511	53,406	846,653	781,239	42	0.2	3,043	46	0.1
Grand Rapids.....	66	1,260,534	60	503	174,641	67,146	1,129,078	1,129,078	35	0.3	4,493	35	0.2
Green Bay.....	191	3,383,717	227	1,719	702,829	257,838	1,749,046	3,409,160	17	1.0	18,603	8	0.9
Hudson.....	41	631,920	42	422	226,001	18,775	926,230	1,261,569	31	0.3	3,259	44	0.2
Janesville.....	184	2,630,833	211	1,710	685,842	249,911	1,980,411	3,070,820	13	1.0	18,185	13	0.6
Jefferson.....	66	629,658	74	370	129,299	36,970	513,591	823,924	40	0.2	2,584	50	0.1
Kaukauna.....	71	1,315,616	71	667	300,827	97,153	893,552	1,424,047	30	0.4	5,115	33	0.2
Kenosha.....	71	5,946,975	67	3,149	1,332,380	300,411	5,103,209	7,488,366	6	2.1	11,606	17	0.6
La Crosse.....	255	7,260,360	266	3,009	1,105,985	384,006	4,955,850	8,281,749	4	2.3	28,895	4	1.4
Madison.....	195	3,840,042	227	1,805	826,596	347,383	1,457,387	3,508,808	16	1.0	19,164	7	0.9
Manitowish.....	135	2,581,869	161	1,146	427,218	239,858	1,018,440	2,268,348	21	0.6	11,786	16	0.6
Marquette.....	103	8,070,648	98	1,833	743,937	329,036	2,486,581	4,659,712	9	1.3	16,195	10	0.8
Marshfield.....	63	429,525	66	372	185,354	46,689	349,313	709,144	46	0.2	5,240	30	0.3
Menasha.....	57	3,439,690	58	1,575	570,019	212,065	1,365,582	2,751,270	20	0.8	5,589	28	0.3
Menominee.....	50	8,498,474	58	698	323,412	65,687	977,536	1,533,139	29	0.4	5,555	26	0.3
Merrill.....	69	8,620,126	75	1,694	667,767	130,628	2,329,566	4,150,272	12	1.2	8,537	20	0.4
Milwaukee.....	8,842	110,363,854	8,686	48,828	20,240,656	16,690,165	65,113,719	123,786,449	1	94.8	285,315	1	13.8
Monroe.....	62	821,026	76	217	86,813	58,712	200,580	455,899	50	0.1	3,927	38	0.2
Neenah.....	74	2,183,170	78	616	278,096	67,774	980,168	1,642,414	27	0.5	5,954	24	0.3
North Milwaukee.....	20	1,124,214	14	944	356,298	64,018	1,244,288	1,942,777	24	0.5	1,049	53	0.1
Oconto.....	44	2,021,830	44	440	201,308	79,607	1,280,541	1,732,887	26	0.5	5,646	27	0.3
Oshkosh.....	285	8,018,038	297	4,587	1,732,410	616,564	4,742,744	8,781,248	3	2.4	28,284	5	1.4
Portage.....	72	468,925	71	324	104,742	47,560	228,802	502,234	49	0.1	5,459	29	0.3
Port Washington.....	65	1,000,926	71	811	265,298	77,098	508,080	1,037,318	36	0.3	8,010	47	0.1
Racine.....	252	16,753,215	240	6,785	2,994,100	1,004,165	6,258,372	12,502,796	2	3.5	29,102	3	1.4
Reedsburg.....	45	411,036	56	207	66,871	38,151	243,885	430,550	51	0.1	2,225	52	0.1
Rhinelander.....	62	1,866,855	58	781	307,181	57,259	1,103,659	1,855,433	25	0.5	4,998	34	0.2
Ripon.....	73	493,631	77	860	122,844	36,539	485,101	807,087	41	0.2	3,818	39	0.2
Sheboygan.....	206	7,760,616	211	5,338	1,678,236	678,413	3,995,102	7,469,202	7	2.1	22,962	6	1.1
South Milwaukee.....	29	1,092,523	28	595	318,149	44,788	553,088	1,023,703	37	0.3	3,392	43	0.2
Sparta.....	56	221,172	71	147	56,865	12,041	202,928	343,759	52	0.1	3,555	41	0.2
Stevens Point.....	107	2,197,025	114	979	390,800	98,056	1,391,413	2,171,255	22	0.6	9,524	19	0.5
Stoughton.....	14	713,452	13	253	118,711	43,518	236,825	605,715	48	0.1	3,431	42	0.2
Superior.....	135	5,882,502	138	1,958	925,776	378,667	5,396,730	7,527,703	5	2.1	31,091	2	1.6
Tomah.....	47	986,180	53	212	89,002	30,746	531,287	743,615	43	0.2	2,840	49	0.1
Tomahawk.....	33	172,614	29	180	93,271	26,632	51,609	218,833	53	0.1	2,291	51	0.1
Two Rivers.....	45	836,492	53	971	250,385	75,126	591,406	1,177,621	33	0.3	3,784	40	0.2
Washburn.....	35	1,500,855	37	501	260,036	70,250	568,057	1,165,861	34	0.3	6,814	23	0.3
Watertown.....	86	1,776,312	103	621	204,305	112,071	949,118	1,625,982	28	0.5	8,437	21	0.4
Waupun.....	42	493,690	47	267	87,988	135,502	793,504	1,200,844	32	0.3	3,135	45	0.2
Wausau.....	187	3,094,178	149	1,643	694,626	243,537	2,238,730	3,658,439	15	1.0	12,354	15	0.6
Wauwatosa.....	37	3,110,023	36	2,312	1,154,948	216,398	1,982,008	3,663,892	14	1.0	2,842	48	0.1
Total for state exclusive of urban manufactures.....	7,858	80,770,433	8,321	28,046	11,652,177	4,971,738	65,156,971	98,223,332	-----	27.2	1,300,730	-----	63.1
Per cent of urban manufactures to total for state.....	51.5	75.6	51.8	80.3	80.1	83.9	68.8	72.8	-----	-----	86.9	-----	-----

<sup>1</sup> Exclusive of 6,126 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

Of the 16,187 establishments in the state, 8,329, or 51.5 per cent, were located in these 53 cities and towns. They furnished employment to 114,030 wage-earners, or 80.3 per cent of the total number, and the value of their products, \$262,595,610, formed 72.8 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 La Crosse, Milwaukee, Oshkosh, Racine, Sheboygan, and Superior by specified industries.

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



TABLE 6.—MANUFACTURES

COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State.....	16,187	\$380,568,779	\$80,375,729	\$44,014,040	\$62,101,820	\$164,077,690	17,247	10,760	\$10,608,388	142,076	\$58,407,597
2 Adams .....	24	80,285	11,520	14,545	22,540	11,660	80	120	121,403	18	6,875
3 Ashland .....	151	8,048,907	2,684,048	866,348	1,021,006	4,022,505	156	32	32,631	2,563	1,183,456
4 Barron .....	121	1,950,859	802,543	187,102	171,772	890,442	135	82	74,316	602	209,722
5 Bayfield .....	66	7,787,501	3,825,519	288,786	618,646	2,804,650	65	67	157,007	1,580	772,603
6 Brown .....	842	5,818,981	1,394,685	804,728	1,087,187	2,532,436	889	160		2,469	978,836
7 Buffalo .....	83	288,975	30,675	82,830	88,135	82,335	92	9	8,717	84	38,155
8 Burnett .....	27	73,006	2,600	15,340	35,400	20,206	26	7	715	30	12,616
9 Calumet .....	154	660,287	112,990	196,970	178,086	178,291	172	23	21,807	341	116,080
10 Chippewa .....	185	5,884,806	2,079,808	890,168	949,135	1,965,695	197	88	89,355	1,350	554,117
11 Clark .....	130	1,484,879	524,967	129,560	240,611	590,341	146	38	31,671	510	205,284
12 Columbia .....	221	898,589	74,635	186,807	220,807	416,840	238	50	85,859	536	173,880
13 Crawford .....	103	681,730	346,069	63,550	126,304	145,207	118	14	8,335	245	82,731
14 Dane .....	505	5,258,905	867,120	755,233	1,098,564	3,037,988	585	292	212,160	2,333	1,070,203
15 Dodge .....	988	3,172,902	206,367	885,746	608,568	1,472,221	973	85	78,321	1,431	497,703
16 Door .....	86	610,959	96,155	81,075	139,430	294,279	95	16	12,210	853	148,218
17 Douglas .....	202	8,115,796	2,252,162	1,867,885	2,095,671	1,900,128	201	194	210,639	2,542	1,267,868
18 Dunn .....	119	8,749,411	1,988,459	216,078	661,255	883,624	133	57	55,616	879	403,673
19 Eau Claire .....	208	5,839,470	1,124,056	454,023	1,240,870	3,020,515	224	142	153,576	2,211	878,307
20 Florence .....	5	36,600	3,050	4,200	13,050	16,800	6	8	2,150	23	11,290
21 Fond du Lac .....	496	4,833,221	423,749	768,749	862,216	2,278,507	526	190	177,867	2,727	996,749
22 Forest .....	10	288,252	176,825	26,750	45,430	84,247	9	8	5,420	51	17,844
23 Grant .....	231	750,119	79,508	218,716	202,390	249,505	310	80	10,218	863	138,688
24 Green .....	928	860,357	107,401	244,600	220,451	287,815	203	35	15,481	469	212,182
25 Green Lake .....	131	695,364	100,270	122,505	164,155	808,434	135	43	27,137	466	171,032
26 Iowa .....	207	990,344	83,243	444,625	142,512	804,964	180	54	28,455	331	146,160
27 Iron .....	81	914,729	265,055	81,510	142,514	475,650	85	20	18,940	324	151,892
28 Jackson .....	65	295,092	40,399	58,320	101,108	89,265	85	14	7,385	104	41,175
29 Jefferson .....	376	3,883,177	416,379	1,020,022	860,999	1,585,777	398	170	131,613	1,627	597,410
30 Juneau .....	133	482,700	63,980	124,560	130,231	113,929	146	11	10,854	169	69,269
31 Kenosha .....	123	6,122,287	275,635	704,731	1,084,103	4,057,768	117	122	195,197	3,208	1,357,876
32 Kewaunee .....	156	696,149	76,299	185,444	190,120	294,286	170	23	10,659	440	146,201
33 La Crosse .....	324	8,138,040	1,140,165	1,265,835	1,406,844	4,325,196	834	340	339,299	8,508	1,337,610
34 Lafayette .....	192	836,447	124,408	112,840	91,566	107,643	167	19	1,937	155	62,565
35 Langlade .....	92	922,194	153,829	108,295	206,399	458,671	105	31	26,706	627	260,541
36 Lincoln .....	122	3,903,406	1,468,904	202,455	478,514	1,763,533	127	54	76,918	1,958	801,200
37 Manitowoc .....	401	4,216,628	441,007	1,019,075	962,050	1,794,896	459	125	123,785	2,494	809,259
38 Marathon .....	281	8,722,962	1,920,580	655,362	1,364,097	4,782,923	802	132	171,331	8,303	1,303,359
39 Marinette .....	162	9,892,333	4,451,895	655,945	1,553,059	8,231,484	149	140	175,657	2,703	1,179,504
40 Marquette .....	66	846,767	98,700	59,450	121,845	67,262	68	9	9,935	137	55,314
41 Milwaukee .....	3,523	119,444,761	17,063,767	14,269,546	19,618,062	68,493,886	8,758	4,094	4,836,968	53,530	22,688,110
42 Monroe .....	183	1,394,643	701,216	155,245	227,776	810,406	215	31	20,156	458	185,236
43 Oconto .....	96	8,050,847	1,133,928	801,485	378,789	1,230,645	103	53	57,306	837	349,857
44 Oneida .....	70	2,884,713	888,472	172,181	530,296	1,293,764	61	44	55,610	1,192	510,988
45 Outagamie .....	462	10,418,684	1,230,688	2,455,979	4,127,032	2,599,985	504	195	218,755	3,046	1,557,851
46 Ozaukee .....	169	1,620,611	211,228	268,855	400,269	740,764	171	81	73,945	1,140	868,307
47 Pepin .....	56	125,053	12,005	33,185	45,575	34,288	72	6	1,719	58	19,736
48 Pierce .....	176	791,052	100,380	74,279	206,577	849,816	201	20	12,607	390	154,648
49 Polk .....	87	653,550	100,154	63,062	156,917	337,517	91	18	8,674	262	102,191
50 Portage .....	169	2,714,263	617,797	348,188	687,608	1,065,070	163	64	53,133	1,123	449,459
51 Price .....	46	2,068,884	337,803	176,980	371,075	1,133,026	53	26	24,290	601	282,628
52 Racine .....	355	18,378,988	1,103,510	2,238,081	3,092,625	11,944,772	337	996	972,340	7,793	3,395,684
53 Richland .....	158	652,684	93,485	98,115	178,145	182,939	190	16	2,768	191	72,459
54 Rock .....	417	6,013,953	376,354	913,619	1,605,506	3,117,974	473	328	281,129	3,993	1,776,313
55 St. Croix .....	146	1,602,825	126,335	318,975	260,958	896,557	154	55	40,507	810	369,621
56 Sauk .....	232	1,140,821	136,105	242,008	329,509	433,204	260	44	27,413	797	308,220
57 Sawyer .....	22	1,726,722	365,550	98,755	137,015	1,125,402	19	19	25,764	213	131,406
58 Shawano .....	139	1,924,893	652,462	276,684	392,881	602,866	148	38	32,065	836	374,418
59 Sheboygan .....	485	9,031,969	920,997	1,602,167	1,816,536	4,692,269	520	227	272,705	5,956	1,891,483
60 Taylor .....	35	1,728,592	366,378	137,015	248,152	977,047	49	38	31,520	629	252,063
61 Trempealeau .....	144	434,901	65,045	114,852	136,069	118,935	148	14	6,236	157	56,879
62 Vernon .....	155	580,096	54,802	99,620	173,578	202,096	198	7	2,580	247	85,179
63 Vilas .....	13	845,435	61,204	33,450	156,126	594,655	13	16	22,800	430	200,833
64 Walworth .....	282	821,387	87,515	207,371	229,912	296,569	304	57	12,414	432	197,140
65 Washburn .....	24	731,189	118,617	24,350	106,127	482,095	27	12	14,160	290	116,027
66 Washington .....	242	1,209,907	105,765	819,919	245,181	589,102	278	40	43,437	581	196,079
67 Waukesha .....	264	2,186,904	427,469	556,351	519,899	683,185	273	75	78,115	942	397,386
68 Waupaca .....	213	1,713,008	309,535	227,505	417,508	753,460	225	33	18,011	614	242,125
69 Wausau .....	70	175,372	18,705	39,930	65,805	60,932	88	6	1,044	94	48,380
70 Winnebago .....	508	13,808,111	1,839,062	2,371,788	2,926,886	6,730,375	523	379	387,974	6,866	2,647,519
71 Wood .....	179	4,179,115	991,632	863,396	1,166,446	1,157,641	182	111	111,196	1,774	617,369

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.				Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
120, 131	\$53, 961, 539	16, 266	\$3, 553, 063	5, 679	\$892, 995	\$30, 935, 854	\$1, 581, 292	\$1, 975, 048	\$26, 050, 019	\$1, 319, 995	\$208, 838, 167	\$202, 871, 904	\$5, 966, 263	\$360, 818, 942	1
18	6, 025	1	250	1	100	1, 981	265	828	987	406	64, 038	63, 644	394	87, 303	2
2, 509	1, 169, 400	50	13, 621	4	415	362, 771	18, 166	63, 570	199, 247	81, 788	3, 497, 638	8, 811, 241	180, 397	6, 426, 259	3
581	205, 766	14	2, 946	7	1, 010	70, 788	6, 559	21, 679	41, 983	562	922, 100	916, 602	5, 498	1, 480, 220	4
1, 500	766, 007	18	4, 260	12	2, 336	184, 851	3, 776	61, 662	117, 841	1, 075	2, 399, 705	2, 396, 376	3, 329	3, 070, 916	5
2, 062	901, 467	357	64, 125	50	8, 243	373, 516	22, 005	47, 972	281, 471	22, 068	3, 193, 125	3, 110, 804	82, 321	5, 686, 186	6
79	37, 213	4	862	1	80	19, 835	1, 192	1, 955	16, 338	850	317, 123	310, 343	6, 780	464, 055	7
28	12, 216	1	250	1	150	3, 165	145	787	2, 233	-----	132, 735	131, 258	1, 477	173, 954	8
320	112, 690	18	2, 970	3	420	81, 277	2, 312	3, 315	25, 500	150	550, 609	513, 054	37, 555	910, 218	9
1, 286	540, 063	47	10, 570	17	3, 484	188, 532	6, 518	66, 934	114, 058	1, 022	2, 950, 560	2, 939, 379	11, 181	4, 537, 176	10
489	202, 161	14	2, 002	7	1, 071	63, 507	2, 529	13, 157	47, 055	166	734, 608	726, 226	8, 382	1, 297, 458	11
347	141, 052	166	30, 889	23	2, 439	78, 283	11, 558	4, 765	57, 660	4, 300	744, 234	715, 525	28, 709	1, 278, 161	12
209	75, 660	29	6, 161	7	910	36, 426	2, 081	2, 145	32, 065	135	844, 561	837, 558	7, 003	604, 703	13
2, 120	1, 010, 592	182	55, 192	81	4, 419	424, 040	38, 344	17, 319	329, 196	39, 781	3, 082, 919	2, 997, 624	85, 295	5, 892, 362	14
1, 213	458, 089	182	34, 378	36	5, 296	163, 862	10, 856	12, 547	140, 044	355	2, 529, 029	2, 369, 011	159, 038	4, 012, 429	15
842	145, 608	11	2, 610	-----	-----	26, 932	2, 269	3, 392	20, 771	500	528, 160	521, 774	6, 386	974, 741	16
2, 370	1, 209, 977	140	53, 094	32	4, 297	419, 880	37, 014	58, 624	319, 734	4, 508	6, 349, 224	6, 265, 366	83, 858	8, 933, 218	17
883	394, 875	17	3, 147	29	5, 651	3, 012	43, 589	24, 583	24, 583	-----	1, 355, 241	1, 328, 582	26, 659	2, 123, 056	18
2, 004	837, 561	159	33, 533	48	7, 213	325, 056	18, 805	66, 117	225, 145	14, 989	3, 352, 753	3, 318, 270	84, 483	5, 661, 415	19
23	11, 290	-----	-----	-----	-----	2, 145	80	240	1, 825	-----	21, 465	21, 425	40	41, 835	20
2, 057	876, 282	600	110, 111	70	10, 856	492, 599	24, 921	21, 677	256, 758	129, 213	4, 364, 872	4, 236, 800	128, 072	6, 993, 880	21
51	17, 844	-----	-----	-----	-----	2, 150	48	671	1, 440	-----	40, 805	40, 771	84	76, 164	22
298	127, 760	52	9, 076	13	1, 862	64, 499	11, 053	4, 332	43, 172	5, 942	814, 743	793, 023	21, 720	1, 307, 495	23
418	197, 896	46	12, 925	10	1, 861	82, 162	10, 447	3, 972	62, 362	5, 381	1, 114, 337	1, 092, 185	22, 152	1, 715, 624	24
328	153, 369	131	16, 697	7	966	44, 041	7, 325	4, 152	30, 514	2, 050	676, 283	660, 412	15, 871	1, 110, 360	25
304	140, 195	24	5, 569	8	396	41, 173	6, 019	3, 738	81, 261	107	1, 011, 750	993, 466	48, 294	1, 469, 227	26
811	149, 062	8	920	10	1, 910	29, 240	1, 536	11, 256	16, 448	-----	816, 810	814, 669	2, 141	1, 185, 581	27
97	39, 980	5	1, 045	2	150	21, 275	2, 951	2, 951	15, 514	1, 875	349, 287	343, 022	6, 265	610, 703	28
1, 464	568, 709	132	25, 297	31	3, 404	236, 869	15, 870	16, 931	197, 940	6, 128	3, 276, 295	3, 182, 879	93, 416	5, 129, 677	29
143	64, 952	23	3, 917	3	400	27, 425	9, 989	4, 089	18, 332	15	520, 433	509, 070	10, 763	785, 687	30
2, 578	1, 219, 801	350	88, 725	275	49, 350	369, 077	7, 784	24, 516	336, 777	-----	5, 450, 038	4, 986, 381	463, 657	7, 944, 813	31
356	132, 448	75	12, 607	9	1, 236	39, 371	3, 278	3, 117	27, 576	5, 400	541, 529	528, 434	13, 095	956, 974	32
2, 713	1, 189, 388	745	142, 270	45	5, 524	904, 541	34, 095	50, 377	782, 165	37, 404	5, 909, 948	5, 781, 981	125, 017	9, 807, 887	33
132	58, 972	19	3, 041	4	552	17, 129	5, 098	1, 857	10, 044	130	574, 291	563, 458	10, 833	822, 153	34
596	256, 165	20	3, 039	11	1, 337	64, 141	5, 400	7, 152	51, 139	450	637, 709	602, 194	5, 615	1, 280, 181	35
1, 783	764, 575	40	9, 641	130	26, 984	167, 571	6, 734	40, 457	118, 102	2, 278	2, 476, 098	2, 405, 591	10, 602	4, 554, 192	36
2, 042	757, 999	304	34, 356	148	16, 904	350, 594	23, 400	23, 024	250, 715	53, 365	2, 559, 471	2, 477, 387	82, 084	4, 785, 576	37
3, 090	1, 274, 059	66	11, 407	147	17, 893	416, 174	15, 064	76, 510	290, 220	34, 380	4, 569, 870	4, 517, 318	62, 555	7, 807, 887	38
2, 562	1, 149, 224	128	28, 280	13	2, 000	403, 108	11, 688	113, 809	277, 404	207	3, 874, 804	3, 845, 921	28, 881	6, 972, 610	39
132	54, 274	5	1, 010	-----	-----	6, 036	639	2, 018	3, 299	80	246, 725	243, 988	2, 737	441, 743	40
42, 938	20, 490, 689	7, 541	1, 633, 330	3, 051	463, 591	18, 631, 820	877, 286	439, 715	16, 524, 868	742, 951	76, 160, 224	73, 745, 828	2, 414, 396	140, 252, 383	41
428	180, 773	24	4, 313	1	150	50, 517	7, 244	10, 289	32, 652	332	1, 088, 220	1, 070, 730	17, 499	1, 594, 061	42
789	337, 731	34	8, 325	14	3, 800	103, 430	2, 254	45, 138	62, 468	3, 580	1, 792, 681	1, 761, 950	30, 731	2, 597, 917	43
1, 171	505, 508	14	3, 905	7	1, 575	113, 903	4, 359	22, 772	86, 597	175	1, 856, 031	1, 852, 663	4, 131	3, 139, 307	44
3, 118	1, 445, 724	456	102, 282	72	9, 845	526, 898	50, 596	61, 958	404, 725	9, 619	5, 565, 032	5, 216, 150	849, 782	9, 127, 064	45
975	339, 821	99	13, 603	66	9, 883	121, 791	4, 751	5, 106	108, 849	3, 085	1, 178, 360	1, 111, 211	67, 156	1, 980, 197	46
53	18, 601	4	1, 025	1	50	11, 871	2, 567	798	8, 506	-----	175, 843	172, 972	2, 871	261, 823	47
360	150, 388	15	3, 081	9	1, 179	37, 151	9, 209	4, 481	23, 253	208	609, 145	595, 712	133, 483	1, 118, 421	48
260	102, 024	-----	-----	-----	-----	19, 007	1, 058	4, 198	11, 911	1, 840	777, 026	772, 655	4, 971	1, 221, 507	49
940	420, 428	163	26, 536	20	2, 495	115, 208	7, 411	15, 333	82, 224	10, 240	1, 844, 230	1, 791, 608	52, 022	2, 819, 263	50
600	232, 368	1	260	-----	-----	55, 558	838	22, 098	32, 220	402	1, 122, 904	1, 114, 139	8, 765	1, 632, 131	51
6, 318	3, 008, 545	1, 263	355, 578	212	31, 511	1, 382, 843	47, 875	53, 203	1, 259, 926	16, 839	7, 719, 905	7, 506, 978	213, 022	15, 043, 783	52
175	69, 477	16	2, 982	-----	-----	15, 108	2, 233	3, 701	9, 174	-----	524, 905	515, 682	8, 303	795, 443	53
3, 366	1, 625, 635	581	146, 123	46	5, 055	405, 205	40, 596	25, 162	323, 305	11, 142	4, 408, 247	4, 293, 818	114, 429	8, 040, 447	54
795	365, 946	12	3, 318	3	360	110, 571	5, 895	13, 741	85, 933	2	2, 309, 141	2, 288, 729	20,		

TABLE 7.—MANUFACTURES BY

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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
1	All industries	16,187	\$380,568,779	\$60,375,729	\$14,014,040	\$62,101,320	\$164,077,090	17,247	10,760	\$10,608,383	142,076	\$58,407,597
2	Agricultural implements	51	15,291,554	600,163	1,222,771	1,716,258	11,752,867	42	1,130	836,316	3,289	1,625,765
3	Artificial feathers and flowers	3	5,488			375	5,108	4			8	8,351
4	Artificial limbs	4	22,145			2,843	19,302	2	8	5,506	20	10,240
5	Awnings, tents, and sails	26	76,532	4,150	6,975	11,365	54,042	26	6	4,500	81	31,636
6	Baking and yeast powders	4	94,400		5,000	7,550	81,850	4	5	2,750	8	8,317
7	Baskets, and rattan and willow ware	9	61,578	3,100	12,500	22,986	22,992	12	4	4,200	112	43,856
8	Bicycle and tricycle repairing	179	230,767	22,960	84,500	64,190	109,117	241	7	1,545	144	54,397
9	Bicycles and tricycles	23	2,337,975	157,200	804,536	685,218	1,190,971	13	160	134,007	1,572	625,149
10	Blacking	3	23,085	8,100	7,200	1,385	11,400	4	4	8,912	7	2,512
11	Blacksmithing and wheelwrighting	1,531	2,127,171	437,182	632,147	334,355	728,437	1,766	7	4,960	940	407,280
12	Bookbinding and blank book making	27	357,457	8,300	9,250	119,441	225,466	26	51	40,201	565	155,585
13	Boots and shoes, custom work and repairing.	612	345,339	59,200	93,803	70,478	121,863	656			249	102,929
14	Boots and shoes, factory product	40	2,473,026	80,536	261,290	462,255	1,669,545	29	232	213,600	2,507	821,403
15	Bottling	18	39,152	5,575	6,850	10,320	17,407	22	2	1,300	22	12,143
16	Boxes, cigar	8	228,733	35,850	36,110	31,262	125,611	12	16	13,134	232	52,223
17	Boxes, fancy and paper	8	177,594	16,500	30,000	73,540	58,554	12	13	10,990	323	73,266
18	Boxes, wooden packing	33	1,325,604	157,632	162,615	249,198	760,999	39	47	47,195	1,290	386,743
19	Brass castings and brass finishing	10	920,112	89,072	165,225	237,771	423,044	5	53	57,933	425	133,901
20	Brassware	3	835,980	20,200	20,200	42,280	303,300	2	26	18,000	145	61,950
21	Bread and other bakery products	430	1,699,717	243,845	413,563	464,478	572,831	443	133	113,727	1,329	467,949
22	Brick and tile	163	2,210,504	545,033	401,845	648,719	614,907	165	61	48,521	1,469	542,015
23	Bridges	4	17,600	1,000	1,500	7,400	7,700	5			23	7,355
24	Brooms and brushes	41	124,065	24,700	13,225	17,903	68,237	49	12	8,801	165	55,039
25	Buttons	9	34,499	1,300	4,595	12,539	16,065	9	4	1,425	106	32,103
26	Carpentering	665	1,467,515	256,800	222,401	229,033	759,231	790	24	14,909	3,454	1,664,361
27	Carpets, rag	51	18,901	2,335	5,075	6,345	4,646	52			30	9,307
28	Carrriage and wagon materials	10	183,640	3,800	17,088	40,054	117,098	9	11	7,406	117	41,132
29	Carrriages and sleds, children's	3	206,765	13,000	24,989	33,376	130,400	2	7	7,072	205	69,011
30	Carrriages and wagons	433	8,461,561	863,272	1,301,072	871,994	5,425,223	547	221	249,800	3,402	1,620,693
31	Cars and general shop construction and repairs by steam railroad companies.	46	4,206,235	539,375	1,343,738	690,578	1,632,594		272	245,163	4,502	2,398,144
32	Charcoal	3	8,260	800	1,675	135	650	2			5	1,310
33	Cheese, butter, and condensed milk, factory product.	2,013	4,917,940	220,406	1,767,497	1,850,428	1,079,609	1,538	414	69,676	1,780	893,499
34	Chemicals	4	283,455			154,905	133,460	2	33	43,050	64	26,258
35	Clothing, horse	3	171,592	5,500	12,771	8,324	144,497	1	13	9,280	113	30,663
36	Clothing, men's, custom work and repairing.	661	1,524,320	133,575	214,084	99,780	1,076,831	774	65	47,803	1,946	845,452
37	Clothing, men's, factory product	89	2,767,521	36,710	113,750	108,820	2,508,241	90	233	266,157	2,327	606,850
38	Clothing, women's, dressmaking	224	151,163	9,975	14,250	28,048	98,890	242	3	3,235	765	159,307
39	Clothing, women's, factory product	9	141,750			16,025	125,725	14	21	18,150	253	30,313
40	Coffee and spice, roasting and grinding	6	257,933	20,000	29,500	31,970	170,463	8	50	44,910	41	19,306
41	Coffins, burial cases, and undertakers' goods.	3	235,359	39,000	21,000	20,250	155,109	7	13	8,980	76	32,312
42	Confectionery	56	686,113	43,900	76,613	140,277	425,323	57	102	93,696	749	169,020
43	Cooperage	126	973,188	105,693	163,247	139,231	504,967	140	26	24,015	1,047	422,548
44	Cordage and twine	3	31,565	3,000	2,870	13,310	12,385	3	4	2,600	40	7,370
45	Cotton goods	3	467,803	34,250	75,750	185,900	171,908	2	5	5,220	847	80,567
46	Cutlery and edge tools	5	50,722	10,200	10,300	13,950	16,272	7	8	2,400	19	9,660
47	Druggists' preparations, not including prescriptions.	4	120,064	7,000	23,000	32,861	57,208	1	9	5,858	18	6,420
48	Dyeing and cleaning	29	92,675	17,400	14,570	27,330	33,325	32	15	7,939	123	33,788
49	Electrical apparatus and supplies	7	931,558	5,600	10,000	142,272	823,631	1	56	63,744	527	221,501
50	Electrical construction and repairs	20	131,450	30,575	10,400	16,412	124,063	19	32	14,938	100	49,573
51	Electroplating	8	17,930			11,830	6,100	12			12	4,125
52	Enameling and enameled goods	4	2,108,026	294,324	401,452	463,092	949,258	2	46	75,410	1,296	339,373
53	Engraving, steel, including plate printing.	5	8,900			4,956	3,944	4	2	936	26	7,832
54	Fancy articles, not elsewhere specified	4	17,510	1,500	1,500	1,835	12,025	4			24	4,302
55	Fish, canning and preserving.	6	4,590	1,125	1,150	815	1,500	7			3	1,010
56	Flavoring extracts	6	64,629			6,825	57,804	4	11	7,654	14	5,363
57	Flouring and grist mill products	717	9,611,764	1,018,100	2,319,496	3,189,046	2,585,122	903	226	248,657	1,412	717,133
58	Flood preparations	15	656,165	38,200	113,776	148,489	350,690	9	96	75,661	249	112,551
59	Foundry and machine shop products	272	22,837,810	2,172,961	2,933,977	5,902,778	11,377,594	250	767	971,398	12,670	6,376,040
60	Fruits and vegetables, canning and preserving.	16	550,115	58,103	112,453	120,634	363,925	8	42	32,732	676	117,090
61	Fur goods	33	509,090	6,350	15,100	26,167	461,473	39	37	26,502	449	159,808
62	Furnishing goods, men's	3	17,379			1,139	16,190	3			12	2,732
63	Furniture, cabinetmaking, repairing, and upholstering.	142	361,950	62,485	81,535	34,265	183,665	172	13	10,364	280	119,839
64	Furniture, factory product	78	10,209,901	902,288	1,632,861	2,128,568	5,546,184	46	420	447,921	7,775	2,553,595
65	Furs, dressed	3	32,814	7,200	6,780	6,550	13,264	10	2	1,059	42	17,732
66	Gas, illuminating and heating	26	7,375,192	955,880	378,993	4,402,144	1,643,170	123			532	268,459
67	Gas machines and meters	3	18,165		40	800	17,325	7	4	3,400	3	1,092
68	Glass, cutting, staining, and ornamenting.	6	57,146	600	800	6,478	49,768	8	3	3,685	53	22,639
69	Gloves and mittens	19	219,789	6,250	14,937	26,090	172,512	23	24	17,939	319	78,473
70	Grease and tallow	8	44,651	7,700	14,200	6,780	15,971	8	4	2,250	23	9,190
71	Hairwork	16	22,384	800	800	1,535	19,749	18			30	7,010

## SPECIFIED INDUSTRIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
120,181	\$53,961,539	16,266	\$3,553,063	5,679	\$892,995	\$30,935,354	\$1,581,292	\$1,975,048	\$26,059,019	\$1,319,995	\$208,838,167	\$202,871,904	\$5,966,263	\$300,818,942	1
3,276	1,622,606	5	1,521	13	3,159	699,865	7,410	85,911	647,588	8,956	3,290,690	3,208,981	81,709	7,880,363	2
3	1,830	5	1,521	13	3,159	1,087	648	84	405	—	3,074	2,876	199	10,140	3
20	10,240	82	8,582	1	125	7,274	2,190	42	4,242	800	12,639	12,570	69	94,870	4
48	22,979	2	575	1	125	6,581	8,618	535	2,623	—	45,233	44,721	512	120,036	5
6	3,242	2	575	1	125	2,414	800	176	1,378	—	10,836	10,220	616	80,285	6
94	88,000	10	8,700	8	2,156	1,575	426	428	721	—	20,712	19,200	1,512	91,695	7
130	62,271	2	572	12	1,854	28,639	18,787	1,887	7,757	708	169,406	164,726	4,680	892,761	8
1,500	611,512	1	130	71	13,507	170,266	9,807	7,805	147,451	5,203	1,536,592	1,495,154	41,438	2,795,236	9
2	1,144	1	120	4	1,248	7,867	12	150	7,705	—	12,288	12,166	132	49,705	10
982	406,063	8	1,217	8	1,217	90,801	42,913	13,217	82,029	2,642	732,258	675,844	56,914	2,442,141	11
246	103,810	254	45,738	65	6,037	40,711	11,947	1,226	22,103	5,485	275,295	271,049	4,246	503,365	12
245	101,959	2	520	2	450	40,420	27,924	2,893	9,083	520	219,495	211,181	8,314	687,681	13
1,494	560,246	819	227,820	104	24,837	279,913	15,831	8,913	143,135	112,034	3,170,921	3,150,715	20,206	4,791,684	14
22	12,148	122	23,118	25	2,600	8,615	1,017	122	2,476	—	43,123	42,840	788	70,942	15
85	26,010	122	23,118	25	2,600	13,756	460	1,352	11,944	—	139,393	137,288	2,110	242,436	16
64	20,485	175	27,801	89	15,980	7,464	2,160	423	4,881	—	121,416	118,557	2,859	240,926	17
1,064	858,070	86	8,844	190	24,829	68,620	5,755	5,805	57,060	—	1,250,295	1,229,543	20,752	1,989,603	18
369	176,917	25	4,200	32	9,781	98,429	2,810	4,731	31,888	—	512,555	500,692	11,963	888,775	19
134	53,950	11	8,000	12	10,888	12,088	110	1,508	10,380	—	888,258	887,140	1,118	612,950	20
881	998,781	319	60,029	120	19,139	202,079	67,684	13,148	120,737	510	1,870,611	1,799,492	71,119	3,619,288	21
1,410	531,888	1	100	58	10,527	95,003	13,353	12,058	69,574	13	730,297	66,800	668,497	1,795,993	22
28	7,355	6	1,826	11	842	661	10	41	610	—	15,150	14,440	710	28,984	23
148	52,871	26	5,880	6	140	7,315	2,611	850	3,003	242	147,464	145,715	1,740	291,599	24
74	26,088	26	5,880	6	140	1,830	480	68	1,292	—	18,751	17,011	1,740	63,125	25
3,450	1,663,783	2	360	2	218	486,382	69,353	8,354	50,026	303,149	3,878,159	3,864,146	9,013	7,115,245	26
14	6,435	15	2,664	1	208	2,087	2,156	100	396	35	10,977	10,352	625	51,427	27
117	41,132	2	416	88	7,804	9,237	1,750	692	6,084	705	103,023	101,464	1,559	193,982	28
255	61,291	2	416	88	7,804	10,550	60	850	9,749	—	118,221	118,206	5,015	272,125	29
3,317	1,599,917	47	14,339	38	6,437	970,099	15,947	98,320	309,680	6,752	3,946,621	3,286,152	60,469	6,956,841	30
4,499	2,396,997	3	1,147	—	—	138,270	—	15,988	122,282	—	3,525,144	3,455,870	69,274	6,309,823	31
5	1,310	—	—	—	—	83	—	88	50	—	3,900	3,850	50	7,555	32
1,742	884,673	25	6,470	13	2,347	157,123	19,235	22,022	113,810	2,506	16,023,859	16,965,358	258,501	20,120,147	33
49	24,569	15	1,689	—	—	57,519	5,700	834	51,015	—	131,421	128,734	2,687	254,196	34
19	6,786	94	23,877	—	—	19,412	—	337	13,670	5,400	226,570	225,744	826	311,070	35
1,621	739,635	406	103,660	19	2,157	229,076	109,753	9,022	53,684	52,317	1,822,905	1,802,208	20,697	3,310,047	36
503	238,454	1,765	360,282	59	3,114	511,763	42,039	11,740	104,645	353,239	2,369,980	2,353,439	16,491	4,898,092	37
22	17,614	729	141,207	14	986	31,363	23,917	736	6,255	455	208,156	197,910	5,246	667,843	38
37	27,600	216	53,216	—	—	17,026	4,296	446	12,634	200	100,542	98,723	1,819	271,991	39
86	17,934	5	1,190	1	182	49,134	3,412	2,598	43,124	—	323,628	320,365	3,258	456,876	40
66	30,258	10	2,554	—	—	6,008	—	1,073	4,935	—	79,717	77,886	1,831	172,251	41
216	79,251	358	60,498	175	23,276	80,630	25,229	2,396	62,005	—	985,711	974,380	11,322	1,570,445	42
1,010	415,892	37	6,650	37	6,650	80,966	4,728	12,813	60,905	2,880	905,181	893,904	11,213	1,683,180	43
22	5,615	1	260	17	1,495	1,502	44	252	1,206	—	54,472	63,617	855	74,166	44
131	39,170	191	38,750	25	2,647	13,992	—	3,934	10,058	—	172,267	164,763	7,504	316,061	45
19	9,660	—	—	—	—	342	48	337	457	—	24,625	22,698	1,927	46,628	46
14	5,772	2	388	2	200	8,367	576	626	7,665	—	25,838	23,639	2,199	44,262	47
59	21,481	66	16,941	8	416	14,394	5,090	652	7,902	750	20,556	17,187	3,369	120,233	48
489	213,701	88	7,900	—	—	43,245	8,734	1,943	37,566	—	858,976	847,796	11,180	923,587	49
100	49,578	—	—	—	—	20,948	5,724	683	14,541	—	164,377	162,246	2,131	323,278	50
12	4,125	—	—	—	—	2,013	1,046	22	945	—	9,060	7,656	1,404	28,377	51
1,008	287,718	288	51,060	—	—	61,985	120	9,722	52,143	—	1,150,630	1,110,098	40,532	1,654,345	52
15	6,712	6	650	6	520	2,012	1,528	36	448	—	4,553	4,268	290	24,050	53
1	300	22	4,220	1	82	623	254	72	297	—	13,108	13,022	86	25,679	54
2	720	—	—	1	290	1,005	25	19	961	—	28,142	27,796	346	35,792	55
10	4,668	3	560	1	135	7,409	1,785	154	5,470	—	57,699	57,191	503	103,071	56
1,398	714,217	10	2,312	4	654	697,714	45,485	72,636	579,843	800	22,753,056	22,529,209	223,847	26,327,942	57
159	96,912	60	18,762	80	1,877	357,587	3,132	1,446	352,858	151	372,015	352,803	19,122	1,392,588	58
12,365	6,316,389	270	6,367	285	53,234	1,671,907	46,958	33,480	1,488,562	52,617	10,167,488	9,699,950	467,528	22,252,730	59
303	80,100	201	30,235	102	6,095	91,887	14,050	2,324	48,513	27,000	648,496	527,851	15,645	1,007,765	60
194	91,959	250	67,052	6	797	52,016	10,909	2,866	28,852	9,389	539,688	537,678	2,105	913,754	61
4	969	7	1,700	1	104	1,230	600	14	666	—	11,176	11,101	75	19,500	62
247	112,340	20	5,777	13	1,722	28,270	12,106	2,303	13,763	98	210,729	211,717	5,012	539,328	63
6,940	2,399,705	279	62,200	556	91,630	717,374	15,348	38,878	627,618	35,580	3,899,134	3,802,689	96,445	8,721,823	64
33	16,774	8	718	1	240	3,629	535	172	2,814	8	20,967	19,203	1,764	50,959	65
531	268,039	1	420	—	—	263,896	—	34,732	229,164	—	321,047				

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.
72	Hammocks.....	8	\$242,166	\$11,813	\$51,106	\$28,396	\$150,851	2	6	\$10,800	232	\$68,165
73	Hand knit goods.....	12	12,399	800	595	3,505	7,559	13			8	1,520
74	Hand stamps.....	4	82,881			13,100	19,781	4	3	6,000	87	18,216
75	Hardware.....	11	204,434	2,550	22,700	66,357	112,827	9	24	17,104	339	101,419
76	Hardware, saddlery.....	4	238,532	8,000	49,500	68,612	112,420	5	15	13,068	842	125,072
77	Hats and caps, not including fur hats and wool hats.....	6	441,578	18,000	90,400	103,758	229,720	6	40	37,649	606	171,441
78	Hosiery and knit goods.....	27	2,558,299	59,760	222,935	674,994	1,600,670	18	125	150,209	2,722	600,495
79	House furnishing goods, not elsewhere specified.....	7	195,201	25,500	80,600	29,325	110,776	7	18	11,254	89	38,088
80	Iron and steel.....	12	5,564,379	755,400	844,081	883,471	3,081,477		91	115,449	1,921	1,216,850
81	Iron and steel, nails and spikes, cut and wrought, including wire nails.....	3	118,560	6,500	15,700	48,000	48,360		1	1,040	85	11,838
82	Ironwork, architectural and ornamental.....	12	855,196	78,904	75,527	205,592	500,173	12	65	63,097	698	276,645
83	Jewelry.....	5	28,788			7,841	21,447	8	5	3,508	37	25,842
84	Kaolin and other earth grinding.....	4	103,470	21,200	15,888	42,982	28,400	3	1	1,800	27	10,985
85	Leather goods.....	4	62,555			6,875	55,680	1	6	7,650	159	33,388
86	Leather, tanned, curried, and finished.....	42	18,283,591	1,113,870	1,962,929	1,538,570	13,608,822	48	230	314,956	5,262	2,241,861
87	Lime and cement.....	53	1,916,873	852,785	354,289	227,831	482,468	58	48	69,375	696	235,769
88	Lithographing and engraving.....	7	792,067			305,603	486,454	2	52	88,117	427	208,010
89	Liquors, distilled.....	5	773,890	64,534	102,326	215,280	391,750	2	11	11,000	53	29,979
90	Liquors, malt.....	147	85,817,950	7,816,144	6,842,994	8,515,536	18,143,276	139	484	726,069	3,904	1,826,730
91	Lock and gun smithing.....	44	60,378	10,906	9,605	19,116	20,751	43	5	1,700	20	8,229
92	Looking-glass and picture frames.....	42	107,612	9,000	16,950	10,592	71,070	56	4	2,687	56	25,334
93	Lumber and timber products.....	1,066	77,866,223	30,900,688	2,798,719	9,543,074	84,114,842	1,284	1,131	1,198,695	21,701	9,480,011
94	Lumber, planing mill products, including sash, doors, and blinds.....	123	6,591,114	596,812	948,277	1,044,826	4,001,199	123	245	277,107	4,377	1,653,819
95	Malt.....	17	3,648,145	322,974	1,138,945	596,080	1,590,146	7	52	86,260	366	209,812
96	Marble and stone work.....	54	947,542	805,550	139,785	215,185	227,022	58	45	31,234	506	255,104
97	Masonry, brick and stone.....	228	639,482	43,870	82,275	119,214	444,123	281	19	18,845	1,808	924,831
98	Mattresses and spring beds.....	19	1,159,400	96,597	173,372	188,408	761,023	21	39	69,252	1,045	412,382
99	Millinery and lace goods.....	6	283,578	30,500	36,300	55,150	161,628	10	18	28,847	267	96,309
100	Millinery, custom work.....	611	863,980	103,457	150,023	36,787	573,713	719	48	19,217	1,110	247,613
101	Mineral and soda waters.....	132	1,061,549	303,299	176,711	228,335	354,204	143	70	61,652	967	130,035
102	Models and patterns.....	7	81,607			19,550	62,117	5	11	9,250	151	37,334
103	Monuments and tombstones.....	105	1,139,429	280,174	171,710	129,224	553,321	119	79	64,095	542	278,126
104	Musical instruments and materials, not specified.....	4	15,665			4,230	11,435	3			7	4,488
105	Musical instruments, organs and materials.....	3	24,825	2,900	7,250	3,475	11,200	8			15	6,508
106	Optical goods.....	3	11,945			1,650	10,295	3	1	900	8	3,400
107	Painting, house, sign, etc.....	379	561,492	60,170	72,655	68,668	364,999	451	45	22,819	1,398	621,890
108	Paints.....	5	463,236			39,414	423,822	6	43	28,761	78	23,117
109	Paper and wood pulp.....	47	16,580,140	2,157,253	4,143,680	6,773,753	3,505,454	3	199	307,927	4,240	1,649,010
110	Paper goods, not elsewhere specified.....	3	58,000			17,000	41,000	4	7	5,988	92	22,600
111	Paper hanging.....	23	64,445	1,100	950	5,714	56,681	31	8	2,980	123	60,624
112	Patent medicines and compounds.....	40	467,388	11,350	82,900	147,620	225,513	36	38	35,189	266	97,631
113	Paving and paving materials.....	47	837,625	330,940	85,526	197,571	223,588	48	37	28,714	784	337,324
114	Perfumery and cosmetics.....	3	45,472			2,922	42,550	7	9	12,915	16	4,284
115	Photography.....	311	473,813	60,115	87,305	202,992	123,401	352	21	7,931	253	90,029
116	Photolithographing and photoengraving.....	4	22,361			11,261	11,100	3	2	1,600	51	27,445
117	Pickles, preserves, and sauces.....	15	163,919	20,710	40,190	23,474	79,545	7	16	13,359	92	29,580
118	Plastering and stuccowork.....	54	106,532	15,750	19,941	19,864	59,977	65	1	1,350	189	97,645
119	Plumbers' supplies.....	5	160,997	23,000	24,746	40,094	78,067	4	7	9,160	198	51,786
120	Plumbing, and gas and steam fitting.....	248	968,895	82,050	96,505	109,051	681,289	315	94	51,249	1,265	580,848
121	Pottery, terra cotta, and fire-clay products.....	4	23,349	6,500	5,700	5,650	5,499	9			10	8,739
122	Printing and publishing, book and job.....	103	924,819	51,290	59,620	584,598	229,311	113	67	65,154	716	285,028
123	Printing and publishing, newspapers and periodicals.....	495	4,390,938	374,896	314,413	1,847,556	1,854,624	522	411	349,078	2,679	1,174,242
124	Pumps, not including steam pumps.....	6	6,478	1,700	700	1,030	3,048	6			7	2,614
125	Refrigerators.....	7	719,084	58,655	114,775	140,001	405,658	3	41	47,075	567	193,516
126	Regalia and society banners and emblems.....	4	13,130			430	12,700	5			16	4,003
127	Roofing and roofing materials.....	21	120,875	13,580	18,000	16,865	72,430	25	1	600	78	23,367
128	Rubber and elastic goods.....	3	491,918	6,878	35,774	71,226	378,040		23	39,409	367	106,495
129	Saddlery and harness.....	525	1,327,184	150,366	255,495	110,857	810,466	573	40	29,933	678	270,371
130	Sausage.....	8	247,150	64,800	74,500	45,050	59,800	9	11	19,002	140	50,352
131	Sewing machine repairing.....	9	7,465	1,100	2,600	1,780	1,985	8			8	2,286
132	Ship and boat building, wooden.....	29	832,225	253,700	111,000	250,670	216,855	31	20	19,968	562	282,667
133	Shirts.....	9	76,584	11,000	21,000	18,685	25,899	8	11	9,865	256	72,177
134	Slaughtering and meat packing, wholesale.....	11	3,784,216	268,882	525,162	425,330	2,564,852	17	122	144,833	1,361	560,808
135	Soap and candles.....	15	723,606	119,958	98,892	109,986	394,770	13	75	92,413	199	75,091
136	Soda water apparatus.....	3	114,400	30,400	10,400	11,550	62,050	1	7	7,860	36	22,100
137	Springs, steel, car and carriage.....	5	205,999	14,000	26,500	46,100	119,399	3	15	12,610	131	55,458
138	Starch.....	6	93,260	10,450	22,000	36,750	24,050	4	7	4,020	34	15,267
139	Steam fittings and heating apparatus.....	8	984,426	115,615	122,091	130,218	566,502	7	63	64,713	395	137,661
140	Sugar and molasses, refining.....	18	15,330	1,600	3,245	10,115	870	24			11	2,971
141	Surgical appliances.....	5	24,550	4,400	1,000	2,600	16,550	7	5	2,700	13	2,785

## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.						COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
40	\$23,931	109	\$26,234	88	\$13,000	\$9,488		\$1,008	\$8,480		\$168,014	\$161,833	\$1,681	\$311,319	72
1	282	7	1,238			2,051	\$581	19	684	\$867	10,278	10,154	124	21,635	73
35	12,916	1	300			5,194	2,190	103	2,901		28,913	23,741	172	53,382	74
286	90,088	87	8,575	16	2,756	17,050	2,682	346	14,022		122,464	115,030	7,494	313,045	75
341	124,832			1	240	21,982	650	545	13,787	2,000	102,651	96,303	6,348	234,365	76
276	104,475	808	64,132	22	2,834	46,060	644	1,845	43,571		276,725	267,594	9,131	602,820	77
341	144,862	1,756	357,777	625	97,856	223,216	16,886	6,314	195,374	4,642	1,176,145	1,149,295	26,851	2,486,813	78
64	29,730	24	8,258	1	100	13,974	934	1,314	11,726		230,702	227,419	3,283	320,766	79
1,921	1,216,850					361,571		34,202	315,059		5,410,066	4,182,409	1,227,657	8,905,226	80
29	10,391			6	1,447	5,426		336	5,090		77,265	74,630	2,635	113,600	81
688	274,590			10	2,055	63,329	5,246	3,276	54,207	600	1,153,776	1,141,514	12,262	1,865,075	82
87	25,842					2,127	1,341	29	757		36,051	35,683	368	76,372	83
27	10,985					2,650		335	2,315		18,473	14,438	4,035	42,004	84
63	18,701	67	9,836	24	8,851	3,875	1,194	167	2,514		123,788	122,976	812	178,895	85
5,166	2,226,108	29	6,733	67	8,970	735,767	10,690	79,147	645,930		16,040,804	15,927,911	112,893	20,074,373	86
691	235,044	4	595	1	130	87,514	22,435	6,433	53,646		364,011	171,601	192,410	960,004	87
374	192,900	41	13,092	12	2,018	66,607	1,915	41,038	6,784		221,266	215,786	5,480	715,862	88
53	23,979					2,280,404	1,800	2,278,601			342,236	313,941	28,355	2,608,984	89
3,178	1,770,594	306	84,470	420	71,666	10,259,291	3,656	171,379	10,079,166	5,100	4,237,454	3,879,031	358,423	19,394,709	90
16	7,251	4	848	1	130	6,505	3,730	400	2,275	100	22,078	20,930	1,148	71,237	91
48	23,995	7	1,159	1	180	8,022	5,522	675	1,825		70,680	69,380	1,300	160,983	92
21,151	9,369,994	83	13,486	437	91,531	2,420,060	25,724	770,083	1,597,053	27,200	35,199,409	35,198,024	1,385	67,634,816	93
4,095	1,604,025	6	2,047	276	47,247	399,644	16,112	44,042	321,601	17,889	5,036,773	4,995,114	41,659	8,400,695	94
363	209,012	3	800			207,696	7,400	26,111	171,445	2,640	3,174,525	3,048,208	126,317	4,089,715	95
506	255,104					38,729	3,949	4,923	23,357	6,500	233,637	219,472	14,165	754,456	96
1,805	924,881	1	168	2	282	109,516	6,527	4,787	25,061	78,141	1,923,130	1,916,834	6,296	8,506,175	97
937	886,503	35	21,123	23	4,756	73,600	6,339	4,701	62,500		1,183,122	1,173,720	9,402	1,838,811	98
56	33,114	208	63,017	3	178	42,988	2,234	1,303	39,351	100	299,012	295,707	3,305	529,185	99
9	2,097	1,091	244,623	10	893	120,414	86,643	6,609	27,155	2	1,082,613	1,070,956	11,657	2,047,312	100
344	133,033	16	2,286	7	716	118,605	5,435	6,972	106,038		489,690	480,336	9,354	1,151,747	101
86	28,884	43	6,650	22	1,800	17,380	3,710	262	13,408		62,636	60,741	1,895	144,583	102
642	273,126					41,667	4,162	5,668	29,230	2,607	506,154	497,407	8,747	1,169,897	103
6	4,188			1	300	769	480	8	281		1,977	1,855	122	9,740	104
15	6,508					2,032		151	1,881		5,781	5,447	334	18,488	105
8	8,400					3,233	2,440	64	729		9,500	9,460	40	31,065	106
1,894	621,191	1	200	3	499	75,076	29,868	3,422	34,801	7,490	575,418	571,002	4,350	1,791,013	107
68	24,117	10	4,000			21,400	5,400	2,093	18,907		675,711	673,188	2,523	881,767	108
3,437	1,480,633	775	159,998	28	8,379	604,551	27,671	97,530	532,415	6,975	6,712,749	6,665,996	646,753	10,895,676	109
32	11,700	56	10,100	4	800	7,622	3,200	122	4,800		68,237	68,562	1,675	134,160	110
127	60,474	1	150			9,647	5,435	342	3,762	108	56,073	55,605	468	169,895	111
81	43,291	162	49,640	23	4,700	168,084	7,081	1,213	159,635	150	175,915	172,948	2,367	576,454	112
733	337,156			1	108	32,501	5,344	2,942	24,215		812,317	289,155	23,102	847,789	113
5	1,849	11	2,435			6,174	1,185	163	4,826		32,860	32,569	281	64,935	114
140	60,404	111	29,328	2	288	74,444	46,011	3,028	28,378	2,027	209,798	200,724	9,074	705,872	115
50	27,841			1	104	5,316	2,220	45	3,051		7,669	5,959	1,710	50,724	116
54	20,165	23	7,894	15	1,521	33,110	2,212	834	30,064		131,030	128,841	2,189	316,657	117
139	97,546					16,881	2,222	789	5,205	8,606	150,795	148,230	2,565	350,464	118
133	51,786					10,101	468	589	9,014		55,026	48,218	7,408	156,219	119
1,253	679,154	2	332	10	1,860	92,815	44,794	4,654	43,272	95	1,500,545	1,496,638	9,907	2,797,258	120
8	3,164			2	575	635		170	405		1,277	582	695	14,213	121
635	264,766	50	15,725	31	4,537	79,201	31,883	3,522	30,531	13,265	322,967	306,484	16,473	972,203	122
1,954	1,018,634	519	135,228	206	20,380	462,784	72,108	21,502	300,741	63,433	902,688	899,697	92,891	4,103,415	123
7	2,514					722	282	56	394		4,155	4,077	78	13,224	124
531	186,243			36	7,273	63,466	600	3,172	43,190	16,495	383,220	379,565	3,655	749,412	125
		16	4,003			2,390	1,594	94	702		19,557	19,387	170	35,414	126
77	28,161			1	206	7,632	1,825	474	5,330		42,269	41,209	1,060	127,053	127
70	31,842	205	74,413	2	240	41,870	430	933	40,457		491,567	446,859	44,708	735,670	128
641	261,608	26	7,064	11	1,699	82,143	39,736	9,134	32,508	720	1,077,451	1,063,166	14,285	1,906,632	129
137	49,762	3	650			28,795	1,220	1,472	26,103		394,223	388,297	5,926	640,366	130
3	2,286					1,315	671	15	629		3,730	3,624	106	11,817	131
559	281,667	3	900			42,119	1,653	5,787	24,674	10,005	212,030	201,861	10,819	707,955	132
23	13,976	225	57,351	8	850	6,703	1,179	486	5,043		103,179	101,874	1,305	247,870	133
1,359	560,433	2	375			405,589	21,362	10,015	374,212		11,850,136	11,796,057	54,079	13,601,125	134
133	62,221	60	13,350	1	120	102,284	6,096	3,172	93,016		724,572	712,832	11,690	1,096,092	135
86	22,100					30,037	350	573	3,569	25,540	57,323	56,673	650	152,300	136
130	55,050	1	408			8,230	364	623	7,243		223,060	210,003	13,057	340,823	137
30	14,467					9,999	420	839	8,690		100,719	98,070	2,649	154,030	138
338	135,508	7	2,153			74,376	2,484	4,647	61,475	5,770	733,935	721,771	12,164	1,123,731	139
10	2,543	1	428			418	6	76	337		7,643	6,367	1,270	15,450	140
3	1,485	10	1,300			2,330	1,120	83	1,127		24,039	23,634	355	49,420	141



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.		Num-ber.	Salaries.	Total.	
											Average number.	Wages.
142	Taxidermy	4	\$1,800			\$210	\$1,590	4			1	\$300
143	Tinsmithing, coppersmithing, and sheet-iron working.	497	1,979,821	\$199,120	\$287,815	475,006	1,017,880	597	116	\$72,142	1,458	575,599
144	Tobacco, chewing, smoking, and snuff.	6	717,782			71,060	646,672	7	30	53,420	800	103,958
145	Tobacco, cigars and cigarettes	622	1,597,614	133,473	207,144	66,512	1,190,785	680	68	76,569	1,969	709,281
146	Tools, not elsewhere specified	8	89,450	5,300	2,600	20,700	60,850	8	6	6,250	67	29,580
147	Trunks and valises	16	1,558,855	149,915	288,158	87,922	1,032,860	10	115	133,875	1,083	287,389
148	Upholstering materials	11	204,457	16,100	41,675	80,247	66,435	10	10	10,830	128	45,084
149	Vinegar and cider	5	172,588	5,500	13,000	78,192	75,896	4	19	18,400	88	18,469
150	Watch, clock, and jewelry repairing	366	456,181	61,175	87,295	121,324	186,387	394	8	3,160	236	110,100
151	Windmills	9	614,572	22,669	95,527	78,441	417,935	10	27	27,006	198	94,833
152	Wirework, including wire rope and cable.	12	438,766	18,180	52,480	69,590	298,516	16	39	31,644	199	75,294
153	Wood, turned and carved	11	139,535	21,335	27,845	42,550	47,805	11	2	5,000	35	15,202
154	Woodenware, not elsewhere specified	8	1,773,682	301,200	539,599	102,283	830,600	1	21	26,000	1,047	363,708
155	Woolen goods	82	1,794,035	154,654	265,896	433,588	939,917	26	53	65,210	861	259,258
156	All other industries <sup>1</sup>	108	7,680,732	1,051,824	1,299,204	1,957,473	3,322,231	84	270	279,079	4,190	1,288,726

<sup>1</sup> Embraces axle grease, 1; bags, other than paper, 2; billiard tables and materials, 1; bluing, 2; boot and shoe cut stock, 1; boot and shoe findings, 1; boot and shoe uppers, 2; brass and copper, rolled, 1; carpets and rugs, other than rag, 1; cars and general shop construction and repairs by street railroad companies, 2; cheese and butter, urban dairy products, 1; china, decorating, 1; chocolate and cocoa products, 1; cleansing and polishing preparations, 2; clocks, 1; clothing, men's, factory product, buttonholes, 2; coke, 1; combs, 2; cork, cutting, 1; drug grinding, 1; envelopes, 1; explosives, 1; felt goods, 1; files, 2; foundry supplies, 1; gas and lamp fixtures, 2; glass, 1; glue, 2; graphite and graphite refining, 1; ink, writing, 1; instruments, professional and scientific, 1; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, forgings, 1; labels and tags, 1; lamps and reflectors, 2; lead, bar, pipe, and sheet, 1; linen goods, 2; liquors, vinous, 2;

TABLE 8.—MANUFACTURES IN CITIES

## LA CROSSE.

1	All industries	255	\$7,230,360	\$1,049,415	\$1,117,735	\$1,259,962	\$8,803,248	266	300	\$310,436	3,009	\$1,105,985
2	Agricultural implements	5	293,061	15,500	60,800	23,800	188,461	4	24	81,822	148	71,709
3	Bicycle and tricycle repairing	5	3,550	500	400	1,525	1,125	5			6	1,960
4	Blacksmithing and wheelwrighting	14	11,585	5,500	1,885	1,790	2,460	16			15	6,416
5	Boots and shoes, custom work and repairing.	8	1,565			655	910	8			7	2,061
6	Bread and other bakery products	10	129,242	9,200	25,700	54,634	89,708	9	14	6,171	67	15,468
7	Carriages and wagons	4	140,125	21,000	81,000	12,075	76,050	4	10	6,750	82	85,292
8	Clothing, men's, custom work and repairing.	12	81,125	2,000	3,500	1,475	24,150	17	1	1,000	60	82,455
9	Clothing, women's, dressmaking	3	800			300	500	4			15	2,000
10	Confectionery	4	107,528	4,000	22,427	9,513	71,588	3	17	14,760	147	26,281
11	Cooperage	18	25,275	5,825	3,675	4,075	11,700	14			44	21,485
12	Dyeing and cleaning	3	1,050			475	575	3			2	455
13	Flouring and grist mill products	4	285,224	12,800	89,574	94,000	138,850	3	17	26,130	48	27,319
14	Foundry and machine shop products	3	244,759	47,500	54,500	74,550	68,109	13	4	5,450	108	51,925
15	Furniture, cabinetmaking, repairing, and upholstering.	4	4,465		800	1,165	3,000	4			5	2,610
16	Furniture, factory product	3	63,200	5,600	6,000	7,300	44,300	3	2	1,320	86	80,603
17	Liquors, malt	6	1,660,367	127,200	567,280	811,208	654,670	5	50	61,258	201	91,362
18	Lock and gun smithing	3	1,725			825	900	3			4	975
19	Looking-glass and picture frames	4	5,870			1,995	3,875	4	2	1,320	9	2,400
20	Lumber and timber products	4	2,106,220	684,140	36,800	116,687	1,818,693	3	24	29,047	410	191,622
21	Lumber, planing-mill products, including sash, doors, and blinds.	3	864,800	84,500	62,950	61,451	205,899	2	14	16,100	282	82,578
22	Marble and stone work	3	15,550	3,200	6,050	2,400	3,900	4	3	1,000	4	2,275
23	Millinery, custom work	8	12,100			200	11,900	8			40	9,639
24	Painting, house, sign, etc	3	6,195	100	1,830	590	4,175	3			18	8,000
25	Paving and paving materials	3	17,700	1,200	4,000	3,300	9,200	4			16	7,550
26	Photography	9	12,400	900	2,100	5,500	3,900	9			11	8,400
27	Plumbing, and gas and steam fitting	7	82,875	17,950	13,300	3,850	42,775	10	3	1,000	40	17,850
28	Printing and publishing, book and job	4	10,550			8,000	2,550	5	1	400	8	2,600
29	Printing and publishing, newspapers and periodicals.	8	112,800	12,000	15,800	60,500	25,000	9	9	5,385	107	33,611
30	Saddlery and harness	8	57,881	6,000	5,500	8,815	37,516	6	5	4,501	38	12,901
31	Tinsmithing, coppersmithing, and sheet-iron working.	9	28,525	6,700	13,700	2,925	5,200	7			29	14,361
32	Tobacco, cigars and cigarettes	18	119,418	925	3,000	4,462	111,031	13	9	11,930	133	49,067
33	Watch, clock, and jewelry repairing	12	16,675	3,000	5,000	4,425	4,250	13			12	5,360
34	All other industries <sup>1</sup>	48	1,256,205	72,175	126,614	370,997	686,419	48	91	84,552	302	241,433

<sup>1</sup> Embraces awnings, tents, and sails, 2; billiard tables and materials, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 1; boxes, cigar, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brooms and brushes, 2; carpentering, 2; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 1; cutlery and edge tools, 1; electrical construction and repairs, 1; fur goods, 2; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; hairwork, 1; hammocks, 1; hosiery and knit goods, 2; ironwork, architectural and ornamental, 2; leather, tanned, curried, and finished, 1;



## SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1	\$300					\$597	\$488	\$7	\$2	\$100	\$545	\$481	\$64	\$4,910	12
1,278	543,826	82	\$16,464	93	\$15,219	133,732	46,582	8,523	77,244	1,888	926,322	905,368	20,954	2,676,548	143
170	78,779	102	21,098	28	4,081	845,656	13,390	6,736	825,530		472,785	405,849	6,886	1,632,354	144
1,561	719,512	289	65,159	119	14,610	486,842	42,548	8,943	385,154	197	1,212,560	1,212,560	11,857	8,255,676	145
64	28,730	2	800	1	300	6,674	2,036	461	4,177		47,741	45,819	2,422	107,172	146
762	222,489	158	40,326	163	24,574	105,873	5,044	6,278	94,556		825,157	816,501	8,650	1,560,006	147
122	49,410	6	1,641	1		7,673	450	1,727	6,496		150,540	144,109	6,431	301,895	148
36	18,059	1	260		150	14,532	4,000	717	9,815		90,901	86,739	4,162	163,330	149
226	108,225	7	1,387	3	488	55,947	35,380	8,858	13,145	8,558	133,559	127,085	6,474	629,606	150
196	94,631			2	252	7,850	244	1,359	6,247		243,943	237,485	6,458	444,787	151
190	73,604	9	1,690			34,731	4,842	1,391	23,498		423,951	421,347	2,604	638,797	152
29	14,502			6	700	5,183	253	485	4,445		30,261	29,613	648	70,302	153
1,004	358,588			43	5,120	73,675	120	23,248	50,307		476,270	476,764	516	1,226,671	154
396	152,060	392	96,356	73	10,842	104,250	1,346	9,849	92,680	875	890,711	871,421	23,290	1,435,368	155
2,574	993,159	1,271	240,878	345	54,694	472,464	27,181	29,885	413,075	2,823	4,723,118	4,538,938	184,775	8,163,878	156

matches, 1; mats and matting, 1; mirrors, 1; muclage and paste, 2; nets and seines, 2; oil, essential, 2; oil, linseed, 1; oil, not elsewhere specified, 2; pens, fountain and stylographic, 1; photographic apparatus, 2; pipes, tobacco, 1; pocketbooks, 1; printing and publishing, music, 1; printing materials, 2; rules, ivory and wood, 1; saws, 2; scales and balances, 1; screws, machine, 1; shipbuilding, iron and steel, 1; shoddy, 1; show cases, 1; slaughtering, wholesale, 1; slaughtering, not including meat packing, 2; sporting goods, 2; stationery goods, not elsewhere specified, 2; steam packing, 2; stereotyping and electrotyping, 1; straw goods, not elsewhere specified, 2; tobacco, stemming and rehandling, 2; toys and games, 2; umbrellas and canes, 1; washing machines and clothes wringers, 2; window shades, 1; wool pulling, 1; worsted goods, 2; zinc, smelting and refining, 1.

## BY SPECIFIED INDUSTRIES: 1900.

## LA CROSSE.

2,231	\$960,116	733	\$140,345	45	\$5,524	\$864,006	\$31,515	\$42,412	\$752,675	\$37,404	\$4,905,850	\$4,852,452	\$113,398	\$3,281,749	1
148	71,709					23,684	180	2,209	19,441	1,854	219,088	213,977	5,661	368,012	2
6	1,960					964	549	42	373		4,172	4,010	162	10,850	3
15	6,446					1,433	930	126	377		6,818	6,325	493	26,575	4
7	2,964					499	409		90		2,669	2,632	37	7,925	5
38	10,968	28	4,895	1	110	5,877	730	382	4,765		72,306	70,344	1,962	127,022	6
81	84,992	1	800			6,958	270	1,088	5,600		70,883	68,897	1,986	150,876	7
60	32,455					2,560	1,486	157	917		28,325	28,185	140	92,100	8
31	10,128	15	2,600			461	396		65		1,880	1,250	80	7,400	9
44	21,485	112	15,636	4	500	11,272	1,720	404	9,148		195,700	194,595	1,105	808,802	10
1	185					2,637	60	163	2,414		88,188	82,828	800	78,085	11
48	27,349	1	320			571	384	12	175		525	475	50	3,500	12
108	51,925					39,557		1,205	38,352		1,081,660	1,078,995	7,665	1,208,877	13
6	2,640					7,989	860	1,343	6,036	250	81,194	77,674	8,520	192,150	14
84	80,000	2	608			550	884	11	155		5,232	5,047	185	12,700	15
160	80,955	81	9,170	10	1,237	37,663	456	237	1,970	35,000	35,078	33,958	1,120	119,641	16
3	800					452,414		10,279	442,135		312,670	284,044	28,626	1,138,090	17
4	1,830	1	175			483	441	4	88		1,120	1,065	55	4,700	18
350	180,314	5	680			700	485	60	165		7,191	7,045	146	14,200	19
232	82,578	20	5,308			84,907		14,096	70,811		1,106,852	1,106,852		1,544,410	20
						18,283	500	2,600	15,183		247,076	244,901	2,175	401,962	21
4	2,275					1,000	35	150	815		5,635	5,845	90	15,206	22
18	8,000	40	9,030			6,157	5,690	90	377		32,393	32,393		62,300	23
16	7,550					520	125	36	365		7,905	7,810	95	20,000	24
7	2,575	4	825			413	120	50	240		12,015	12,795	120	26,000	25
40	17,850					2,970	1,728	117	1,125		4,685	4,500	185	21,000	26
7	2,400	1	200			6,659	1,044	586	5,029		67,830	66,535	795	115,814	27
99	81,524	4	1,562	4	425	964	552	47	365		4,768	4,618	150	12,250	28
30	12,201	3	700			5,523	1,255	504	3,764		35,889	33,204	2,025	187,215	29
29	14,361					2,876	732	333	1,811		62,144	61,400	744	94,806	30
98	49,397					3,577	470	92	3,015		26,597	26,192	405	51,800	31
9	4,910	13	2,920	22	2,750	31,245	1,856	353	29,036		74,292	73,905	387	191,865	32
409	155,445	3	450			2,205	1,207	110	583	300	6,527	6,763	64	12,020	33
		449	85,486	4	502	100,429	6,961	5,533	87,935		1,111,143	1,068,933	52,210	1,703,506	34

masonry, brick and stone, 1; mattresses and spring beds, 1; mineral and soda waters, 2; monuments and tombstones, 2; paper hanging, 1; patent medicines and compounds, 1; photographic apparatus, 1; regalia and society banners and emblems, 1; rubber and elastic goods, 1; sausage, 1; sewing machine repairing, 1; ship and boat building, wooden, 1; slaughtering and meat packing, wholesale, 2; soap and candles, 1; stationery goods, not elsewhere specified, 1; surgical appliances, 1; trunks and valises, 1; woolen goods, 1.

## STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

## MILWAUKEE.

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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
1	All industries	3,342	\$110,363,854	\$15,666,490	\$12,590,681	\$18,063,162	\$64,043,512	3,586	4,352	\$4,481,829	48,328	\$20,240,056
2	Agricultural implements	4	4,109,622	201,300	271,853	198,669	3,437,800	4	537	293,504	524	271,343
3	Artificial limbs	4	22,145			2,843	19,302	2	8	5,606	20	10,240
4	Awnings, tents, and sails	10	40,032	1,200	2,375	3,105	33,352	12	2	1,800	35	14,123
5	Baking and yeast powders	8	87,100			7,050	80,050	4	4	2,500	7	3,675
6	Baskets, and rattan and willow ware	4	2,878	1,200	900	118	660	5			2	656
7	Bicycle and tricyclerepairing	51	47,200	700	1,250	12,800	32,950	83			46	16,523
8	Bicycles and tricycles	16	1,217,307	110,000	109,361	480,627	567,319	12	114	85,290	771	296,826
9	Blacksmithing and wheelwrighting	111	231,243	85,360	41,060	26,531	78,292	129	5	3,300	185	105,290
10	Bookbinding and blank book making	11	295,292			95,201	200,091	9	48	38,076	619	141,686
11	Boots and shoes, custom work and repairing.	205	65,544	11,145	9,730	15,133	29,546	214			92	87,439
12	Boots and shoes, factory product	18	1,261,081	43,500	147,000	289,294	782,137	11	96	83,272	1,363	442,277
13	Boxes, wooden packing	6	521,077	192,182	56,828	104,925	257,142	6	17	15,402	495	173,278
14	Brass castings and brass finishing	9	917,862	39,072	165,225	236,821	426,744	4	53	57,033	424	182,653
15	Bread and other bakery products	249	947,272	141,895	206,418	230,928	359,031	248	98	67,748	721	266,553
16	Brick and tile	3	154,711	100	84,500	19,240	100,871	1	4	3,400	110	50,779
17	Brooms and brushes	20	69,211	19,700	7,300	8,986	33,255	23	9	7,085	104	82,002
18	Carpentering	287	776,121	173,870	93,491	101,997	401,763	334	11	8,172	1,590	764,496
19	Carpets, rug	19	4,305	450	275	2,060	1,620	19			17	3,326
20	Carrriages and wagons	30	601,475	174,600	101,999	101,735	223,141	38	12	11,660	253	115,573
21	Cars and general shop construction and repairs by steam railroad companies.	3	139,753	50,500	51,200	26,553	11,600		16	13,594	323	164,871
22	Cheese, butter, and condensed milk, factory product.	4	53,290	3,100	15,200	19,530	15,400	4	9	4,240	24	10,690
23	Chemicals	4	288,455			154,995	133,460	2	33	43,050	64	26,253
24	Clothing, men's, custom work and repairing.	223	544,523	19,600	13,245	84,575	477,043	257	33	28,374	703	315,180
25	Clothing, men's, factory product	76	2,341,902	26,010	66,850	73,166	2,175,876	82	172	194,647	1,659	453,078
26	Clothing, women's, dressmaking	81	81,703	250	300	12,209	68,944	83	3	3,235	335	80,153
27	Clothing, women's, factory product	6	100,525			6,400	94,125	11	10	14,150	101	49,200
28	Coffee and spice, roasting and grinding.	3	212,333	18,000	22,000	23,170	149,163	2	41	34,290	35	16,106
29	Confectionery	17	464,855	27,000	45,886	105,270	286,699	13	65	60,606	510	116,074
30	Cooperage	48	476,920	108,426	80,475	34,462	253,557	48	8	6,138	421	177,181
31	Cordage and twine	3	31,565	3,000	2,870	13,310	12,885	3	4	2,600	40	7,370
32	Druggists' preparations, not including prescriptions.	8	112,064	3,000	21,000	32,861	55,203		9	5,858	13	5,672
33	Dyeing and cleaning	14	74,555	13,100	10,370	20,980	30,105	17	14	7,330	115	31,075
34	Electrical apparatus and supplies	4	688,318	600		109,772	577,946		34	34,514	367	152,400
35	Electrical construction and repairs	8	143,266	30,000	10,000	12,232	91,034	7	27	13,198	70	36,665
36	Electroplating	5	16,530			10,780	5,750	9			8	2,945
37	Enameling and enameled goods	3	1,820,363	233,350	368,000	372,000	796,023	2	39	60,660	1,061	252,742
38	Engraving, steel, including plate printing.	5	8,900			4,956	3,944	4	2	936	26	7,882
39	Fish, canning and preserving	5	2,540	1,125	550	165	700	6			1	290
40	Flavoring extracts	4	60,329			6,250	54,079	2	10	6,904	13	5,183
41	Flouring and grist mill products	7	1,385,374	153,000	197,000	245,081	735,293	5	53	60,243	207	143,209
42	Food preparations	10	187,350	11,200	9,100	28,791	138,259	7	26	14,728	50	17,116
43	Foundry and machine shop products	78	14,726,149	1,530,740	1,540,493	3,797,013	7,857,898	50	459	657,324	7,647	3,990,347
44	Fur goods	13	429,276	200	5,250	20,542	403,281	16	37	26,502	392	141,002
45	Furnishing goods, men's	3	17,370			1,189	16,190	3			12	2,782
46	Furniture, cabinetmaking, repairing, and upholstering.	41	188,752	32,000	30,100	13,047	113,605	54	9	7,964	188	86,170
47	Furniture, factory product	21	1,227,719	114,000	204,297	164,215	745,207	24	94	91,288	1,079	437,790
48	Furs, dressed	3	26,039	6,800	4,900	5,250	9,089	4	1	159	23	12,333
49	Glass, cutting, staining, and ornamenting.	4	52,146	600	300	5,078	46,168	4	3	3,685	43	19,121
50	Gloves and mittens	6	85,423	4,900	7,000	10,208	63,315	4	3	2,299	124	43,429
51	Hairwork	11	19,069			1,280	17,789	13			25	5,735
52	Hand knit goods	9	8,709	700	400	1,825	5,784	10			5	1,020
53	Hand stamps	3	32,826			13,090	19,736	3	3	6,000	37	13,216
54	Hats and caps, not including fur hats and wool hats.	6	441,378	13,000	90,400	103,753	229,720	6	40	37,649	606	171,441
55	Hosiery and knit goods	13	1,031,814	29,750	65,303	270,368	716,393	9	33	58,944	1,417	290,451
56	House furnishing goods, not elsewhere specified.	3	55,975	10,000	15,000	3,125	27,850	3	6	4,784	29	14,510
57	Iron and steel	8	4,300,973	666,933	433,392	699,707	2,459,891		67	81,222	1,590	1,040,287
58	Ironwork, architectural and ornamental.	8	524,241	61,623	44,203	123,554	294,861	9	32	32,576	397	156,058
59	Jewelry	3	11,900			2,900	9,000	4	1	1,400	28	21,920
60	Leather, tanned, curried, and finished.	11	11,373,668	908,029	1,335,190	991,489	8,138,950	12	143	188,359	2,862	1,234,147
61	Liquors, malt	9	27,459,511	6,666,243	3,528,305	2,090,890	15,164,597	3	244	471,329	2,827	1,374,904
62	Lithographing and engraving	7	792,057			305,603	486,454	2	52	88,117	427	203,010
63	Lock and gun smithing	15	14,493	1,000	500	4,012	8,981	14	5	1,700	8	3,303
64	Looking-glass and picture frames	14	60,172	2,440	3,700	5,367	43,705	21	2	1,367	29	14,593
65	Lumber, planing mill products, including sash, doors, and blinds.	15	1,697,749	226,980	312,312	238,985	919,863	8	80	105,586	1,231	435,563
66	Malt	3	1,448,900	135,000	390,000	236,500	687,400		15	29,960	177	115,145

BY SPECIFIED INDUSTRIES: 1900—Continued.

## MILWAUKEE.

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.										
37,880	\$18,168,139	7,501	\$1,625,281	2,991	\$452,236	\$16,690,165	\$370,027	\$471,449	\$14,610,855	\$728,834	\$65,118,719	\$62,982,647	\$2,136,072	\$128,786,449	1
514	268,952			10	2,391	134,109	800	4,859	128,950		806,086	803,079	3,007	2,206,888	2
20	10,240					7,274	2,190	42	4,242	800	12,639	12,570	69	94,870	3
21	10,374	13	8,624	1	125	8,211	1,980	241	1,040		23,356	23,162	194	65,688	4
5	8,100	2	575			2,336	810	176	1,350		10,210	9,635	575	27,885	5
1	500			1	156	188	41	81	116		1,324	1,252	72	8,647	6
40	15,540			6	983	10,102	6,897	236	2,336	633	64,181	62,958	1,223	139,474	7
733	289,599			41	7,227	87,416	9,327	5,045	68,194	4,850	523,540	500,513	17,027	1,223,549	8
184	104,978			1	812	22,196	12,967	1,747	5,827	1,655	32,534	76,354	6,180	372,638	9
221	94,100	233	41,549	65	6,037	33,885	10,134	678	17,958	5,115	245,851	242,198	3,653	524,961	10
92	87,439					15,214	11,309	599	2,944	362	62,462	60,018	2,444	201,422	11
790	297,784	449	127,405	124	17,088	95,689	11,346	4,168	79,165	1,010	1,415,078	1,403,747	11,831	2,195,928	12
831	151,831	34	8,240	80	13,207	87,222	4,708	2,256	30,168		478,206	462,280	10,976	762,281	13
367	174,669	25	4,200	32	3,784	88,272	2,260	4,720	81,292		510,324	498,410	11,914	884,050	14
433	227,566	125	21,873	113	17,114	120,423	42,012	8,364	79,047		1,090,182	1,045,067	45,116	2,157,802	15
110	50,779					19,705	10,500	553	8,652		49,305	8,912	45,453	163,500	16
97	31,670			7	332	6,277	1,836	591	2,608	242	98,533	97,494	1,039	178,689	17
1,558	764,278			2	218	214,726	62,672	4,316	27,464	119,774	1,813,933	1,810,965	2,968	3,324,734	18
6	1,772	11	1,554			1,183	954	32	197		3,975	3,800	175	20,137	19
257	115,865			1	208	28,021	6,724	2,793	17,104	1,400	155,492	149,544	5,558	385,830	20
828	164,871					1,815		815	1,500		119,813	116,229	3,584	300,093	21
23	10,390	1	800			2,500	150	245	2,105		135,523	132,377	3,151	169,225	22
49	24,569	15	1,689			57,549	5,700	834	51,015		131,421	123,734	2,687	254,196	23
578	235,627	114	27,723	16	1,830	134,730	58,317	2,394	30,738	43,281	555,235	549,175	6,060	1,387,138	24
433	209,663	1,177	237,229	44	6,186	481,537	37,312	9,373	81,563	353,239	1,830,421	1,869,715	10,906	3,593,736	25
19	12,014	302	67,153	14	985	17,779	13,289	243	8,502	445	133,309	136,247	2,062	313,806	26
28	21,750	138	27,450			14,930	3,410	446	11,074		54,485	53,773	712	188,991	27
29	14,734	5	1,190	1	182	46,354	2,980	2,417	41,457		253,055	250,645	2,410	864,477	28
161	57,916	199	36,622	160	21,536	62,605	13,089	1,607	47,909		675,995	668,159	7,836	1,040,400	29
410	174,894			11	2,290	23,075	2,315	2,962	17,233	605	387,718	383,949	3,764	716,867	30
22	5,615	1	260	17	1,495	1,502	44	252	1,206		54,472	53,617	855	74,166	31
11	5,412			2	260	3,352	276	151	2,925		22,181	19,982	2,190	88,454	32
51	17,952	61	15,707	3	416	11,233	3,152	542	6,344	750	14,768	12,529	2,239	113,795	33
359	150,960	8	1,500			32,741	7,789	1,623	23,329		178,061	170,921	7,140	502,332	34
70	36,665					17,538	4,347	641	12,550		116,609	114,937	1,622	240,407	35
8	2,945					1,623	746	22	855		7,452	6,708	744	18,927	36
314	208,282	247	44,460			26,880	120	5,502	13,258		1,064,466	1,037,731	26,725	1,703,171	37
15	6,712	6	650	5	520	2,012	1,523	36	448		4,558	4,268	290	24,050	38
10	4,668			1	290	452		13	439		16,172	15,926	246	20,667	39
266	142,875	2	885	1	135	7,130	1,690	130	5,410		53,959	53,431	478	95,621	40
43	15,610	7	1,506	1	234	238,261	16,500	8,675	219,086		5,804,264	5,760,658	53,606	6,357,933	41
7,393	3,939,493					36,225	3,036	409	32,620	151	100,923	97,915	9,008	203,909	42
177	83,664	213	58,016	245	47,416	1,295,497	34,853	53,303	1,183,220	24,121	6,619,173	6,344,399	274,274	14,495,362	43
4	999	7	1,709	2	222	44,849	8,451	2,294	25,407	8,697	474,971	473,411	1,560	795,372	44
163	80,707	12	4,115	1	104	1,280	600	14	666		11,176	11,101	75	19,500	45
				8	1,848	17,954	6,815	1,025	10,013	98	137,224	134,795	2,429	348,876	46
1,041	430,963	5	1,060	33	5,767	119,928	13,078	5,116	101,734		661,532	647,715	13,867	1,485,503	47
27	12,125	1	208			1,586	60	151	1,375		5,912	4,948	984	26,565	48
42	19,031			1	90	6,090	1,780	141	4,169		57,372	56,370	1,002	98,947	49
53	23,640	65	19,006	6	774	3,062	1,195	262	1,605		173,774	177,593	1,181	252,182	50
		25	5,736			4,394	3,740	70	584		9,835	9,591	244	29,886	51
1	282	4	738			1,382	461	13	541	887	8,156	8,036	120	17,049	52
86	12,916	1	300			5,144	2,160	103	2,381		23,328	23,161	167	52,370	53
276	104,475	308	44,132	22	2,834	46,000	644	1,845	43,571		276,725	267,594	9,131	602,820	54
134	57,694	992	183,554	291	44,203	94,286	14,908	3,342	71,394	4,642	566,514	556,921	9,593	1,223,203	55
20	10,610	9	4,000			3,862	504	817	2,541		61,574	60,890	684	97,454	56
1,590	1,040,287					309,347	9,080	25,778	274,489		4,388,707	3,569,991	818,716	7,410,213	57
339	154,303			8	1,755	48,715	4,530	2,139	41,396	600	645,752	642,159	6,593	1,092,659	58
28	21,930					1,625	1,196	29	400		28,092	27,898	194	62,043	59
2,788	1,223,188	11	2,693	63	8,866	416,303	4,560	40,241	371,502		3,000,622	7,998,953	67,609	10,267,835	60
2,162	1,232,075	266	72,520	409	70,809	3,179,627	296	113,097	3,065,234		2,744,137	2,552,654	191,433	13,899,390	61
374	192,900	41	13,092	12	2,018	66,607	16,820	1,915	41,038	6,734	221,266	215,786	5,480	715,862	62
4	2,500	8	673	1	130	3,297	1,968	80	1,249		7,614	7,074	540	28,149	63
27	14,094	2	499			4,114	2,933	309	872		41,708	40,995	718	93,335	64
1,103	420,387			123	15,181	103,553	10,532	3,255	87,245	2,226	1,242,949	1,232,205	10,744	2,152,994	65
175	114,695	2	450			87,823	6,000	16,498	62,635	2,640	1,913,996	1,857,890	56,106	2,317,870	66

TABLE 8.—MANUFACTURES IN CITIES

## MILWAUKEE—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.						Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.	Number.		Salaries.	Total.		
										Average number.	Wages.	
67 Marble and stone work	12	\$356,488	\$166,000	\$18,025	\$92,760	\$82,703	15	12	\$10,060	111	\$64,368	
68 Masonry, brick and stone	89	259,211	33,470	22,350	52,755	160,636	111	5	3,945	677	355,542	
69 Mattresses and spring beds	8	237,380	11,500	10,800	31,180	188,900	8	27	28,225	205	70,155	
70 Millinery and lace goods	4	278,823	30,800	35,000	53,125	160,398	6	18	23,347	233	95,403	
71 Millinery, custom work	118	190,042	14,550	16,500	8,489	160,503	140	19	9,625	834	79,613	
72 Mineral and soda waters	11	123,790	42,350	23,700	25,545	82,195	10	22	14,115	64	27,897	
73 Models and patterns	6	32,830			8,705	24,125	5	8	7,750	102	24,285	
74 Monuments and tombstones	18	451,886	120,600	77,295	46,254	207,737	17	25	28,750	191	99,920	
75 Musical instruments and materials, not specified.	8	13,135			4,200	8,935	2			7	4,488	
76 Optical goods	3	11,945			1,650	10,295	8	1	900	8	8,400	
77 Painting, house, sign, etc	182	288,205	24,870	23,435	33,214	206,686	214	29	15,975	756	347,595	
78 Paper hanging	15	55,536	1,000	850	4,670	49,016	21	7	2,500	98	46,854	
79 Patent medicines and compounds	15	49,365	2,000	4,000	10,215	33,150	16	1	240	14	8,012	
80 Paving and paving materials	9	113,400	1,500	5,200	28,700	78,000	11	11	12,046	345	162,226	
81 Photography	52	84,720	2,300	2,850	44,645	84,925	59	18	7,181	83	84,716	
82 Photolithographing and photoengraving.	4	22,361			11,261	11,100	3	2	1,500	51	27,445	
83 Pickles, preserves, and sauces	3	31,559	10,000	5,000	7,174	9,385	1	6	5,500	14	4,268	
84 Plastering and stuccowork	40	102,761	15,700	19,841	18,864	48,356	47	1	1,350	161	83,665	
85 Plumbers' supplies	3	4,400			1,300	3,100	4			5	2,630	
86 Plumbing, and gas and steam fitting.	109	397,219	20,900	16,700	37,372	322,247	139	50	27,779	700	314,045	
87 Printing and publishing, book and job	58	746,478	42,500	53,500	465,259	185,219	67	59	57,924	562	225,622	
88 Printing and publishing, newspapers and periodicals.	38	1,929,762	240,000	674,367	543,006	671,789	21	225	212,984	898	488,368	
89 Pumps, not including steam pumps	4	2,908	1,000	300	730	878	4			5	1,740	
90 Regalia and society banners and emblems.	3	12,730			230	12,500	4			15	8,828	
91 Roofing and roofing materials	9	82,095	11,800	14,100	10,825	45,870	18	1	600	51	18,776	
92 Saddlery and harness	50	228,351	21,500	20,150	28,334	157,867	55	18	13,628	236	100,039	
93 Sausage	7	246,050	64,800	74,500	47,050	59,700	8	11	19,002	138	49,352	
94 Sewing machine repairing	6	2,440			1,230	1,210	5			2	1,680	
95 Shirts	4	10,705			2,505	8,200	5	2	1,150	40	11,532	
96 Slaughtering and meat packing, wholesale.	5	1,601,498	158,000	108,696	96,002	1,238,140	6	74	76,509	623	273,410	
97 Soap and candles	10	644,686	111,225	84,842	91,429	357,190	7	63	85,251	170	64,906	
98 Soda water apparatus	3	114,400	30,400	10,400	11,550	62,050	1	7	7,860	36	22,100	
99 Steam fittings and heating apparatus	8	934,423	115,615	122,091	130,213	566,502	7	63	64,713	895	137,661	
100 Surgical appliances	3	13,925			1,475	12,450	4	5	2,700	10	1,800	
101 Taxidermy	3	1,780			205	1,575	3			1	800	
102 Tinsmithing, coppersmithing, and sheet-iron working.	107	1,132,812	48,650	44,585	340,443	699,184	126	98	59,207	823	284,764	
103 Tobacco, chewing, smoking, and snuff.	4	716,972			70,660	646,312	4	30	53,420	206	102,881	
104 Tobacco, cigars and cigarettes	232	446,238	46,265	61,206	23,804	309,963	239	27	27,315	647	262,714	
105 Tools, not elsewhere specified	7	33,450	5,300	2,000	10,700	14,550	8	1	350	23	11,030	
106 Trunks and valises	6	991,084	116,815	197,942	46,120	630,157	5	44	72,619	712	171,329	
107 Watch, clock, and jewelry repairing	60	66,102	6,400	4,900	18,030	36,772	61	6	2,600	77	85,190	
108 Wirework, including wire rope and cable.	7	126,514	4,700	8,250	8,944	109,620	7	23	14,044	65	17,618	
109 Wood, turned and carved	5	8,155	1,000	1,200	2,750	3,205	7			8	1,502	
110 All other industries <sup>1</sup>	98	10,468,608	1,815,421	699,845	3,220,679	4,732,723	99	314	307,929	3,551	1,259,747	

<sup>1</sup> Embraces artificial feathers and flowers, 1; bags, other than paper, 1; blacking, 2; bluing, 2; boot and shoe cut stock, 1; boot and shoe findings, 1; boot and shoe uppers, 2; boxes, cigar, 2; boxes, fancy and paper, 2; brassware, 1; carriage and wagon materials, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by street railroad companies, 1; chocolate and cocoa products, 1; cleansing and polishing preparations, 1; clocks, 1; clothing, men's, factory product, buttonholes, 2; coffins, burial cases, and undertakers' goods, 1; cork, cutting, 1; cutlery and edge tools, 1; envelopes, 1; fancy articles, not elsewhere specified, 2; files, 1; foundry supplies, 1; gas and lamp fixtures, 2; gas, illuminating and heating, 1; gas machines and meters, 2; glass, 1; grease and tallow, 2; hammocks, 2; hardware, 2; ink, writing, 1; instruments, professional and scientific, 1; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, forgings, 1;

## OSHKOSH.

		285	\$8,018,038	\$1,129,025	\$833,607	\$1,490,013	\$4,551,398	297	278	\$268,479	4,537	\$1,762,410
1	All industries											
2	Bicycle and tricycle repairing	9	12,875	4,000	1,800	3,450	8,625	12			7	2,350
3	Blacksmithing and wheelwrighting	15	15,495	5,100	2,650	2,875	4,870	16			19	9,090
4	Boots and shoes, custom work and repairing.	8	3,925	1,500	1,250	950	225	8			8	1,101
5	Bottling	3	6,650			4,250	2,400	5			3	2,300
6	Bread and other bakery products	11	27,245	6,700	12,900	4,735	2,910	11			24	8,912
7	Brooms and brushes	3	5,550	600	500	1,700	2,750	3	1	410	10	2,533
8	Carpentering	14	15,125	2,500	3,140	3,415	6,070	16			91	51,019
9	Carriages and wagons	10	547,200	66,500	126,207	58,919	300,574	13	13	13,624	253	113,622
10	Clothing, men's, custom work and repairing.	17	26,712	200	200	2,035	24,227	18	1	260	49	16,608
11	Clothing, women's, dressmaking	11	6,895	400	800	1,370	4,325	11			72	14,601
12	Confectionery	3	12,330	3,000	5,000	1,300	3,030	3			8	2,200
13	Flouring and grist mill products	3	32,400	5,500	8,000	7,500	11,400	5			14	7,663
14	Foundry and machine shop products	11	364,516	28,900	50,635	86,373	198,608	9	14	13,835	186	80,484
15	Furniture, factory product	4	784,676	38,800	78,003	93,958	573,915	2	23	36,125	630	204,307
16	Lumber and timber products	7	2,762,469	717,400	96,000	390,306	1,548,753	10	95	84,304	1,182	510,030

BY SPECIFIED INDUSTRIES: 1900—Continued.

MILWAUKEE—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
111 677 161 55 1	\$84,363 355,542 58,975 33,114 180	25 205 823	\$7,480 62,111 77,990	19 3 10	\$3,750 178 893	\$28,774 50,173 13,754 42,571 33,543	\$2,363 5,454 5,454 2,000 25,598	\$2,181 2,431 922 1,254 1,315	\$17,780 11,282 7,378 39,257 6,630	\$6,500 33,420	\$125,741 745,761 599,269 297,161 255,932	\$121,636 744,779 896,712 293,946 258,726	\$4,105 982 2,557 3,215 2,206	\$288,057 1,304,039 575,701 524,185 532,641	67 68 69 70 71
64 87 191 6	27,897 15,835 99,920 4,188	43	6,650	22	1,800	80,209 5,565 19,351 684	492 3,110 1,125 420	1,568 113 1,895 8	23,149 2,342 16,841 256		39,188 14,846 188,352 1,706	37,469 13,506 183,617 1,599	1,717 1,840 4,735 107	148,849 67,875 886,355 9,040	72 73 74 75
8	3,400					3,233	2,440	64	729		9,500	9,460	40	81,065	76
753 98 13 845 62	347,096 46,854 7,712 162,226 25,985			3	499	50,061 7,912 7,916 13,592 20,857	18,978 4,193 2,856 3,389 18,513	1,802 251 83 231 531	23,291 3,360 4,977 9,972 9,683	5,990 108	286,134 43,615 28,920 250,912 53,784	284,480 43,313 28,272 241,947 52,564	1,654 302 643 8,965 1,220	984,586 133,431 70,499 500,573 204,936	77 78 79 80 81
50	27,341			1	104	5,316	2,220	45	3,051		7,669	5,959	1,710	50,724	82
13 161 5 692	4,088 83,665 2,630 312,945			1	180	1,310 16,667 551 50,491	612 2,163 468 25,486	102 787 24 1,363	596 5,052 59 23,582		10,418 140,706 7,010 674,969	9,433 138,288 6,661 671,200	985 2,418 849 3,769	27,483 317,268 15,662 1,333,745	83 84 85 86
515 604	216,943 452,370	18 92	4,512 22,146	29 142	4,167 13,852	65,785 241,601	24,698 22,855	2,881 7,436	25,545 171,416	12,461 39,894	242,234 406,790	229,711 351,114	12,523 55,685	750,896 1,680,008	87 88
6	1,740					571 2,085	162 1,594	42 94	367 397		2,563 18,652	2,515 18,487	48 165	8,720 33,414	89 90
50	18,570			1	206	6,375	1,033	857	4,985		19,886	19,191	645	76,241	91
208 135 2 5 623	93,772 43,702 1,686 2,412 276,410	19 3 85	4,960 650 9,120	9	1,807	13,944 28,283 1,107 1,036 193,319	9,890 740 551 725 19,562	1,250 1,460 2 2 5,233	7,864 26,083 654 250 168,524		329,015 391,203 2,164 13,735 5,002,144	325,795 385,477 2,164 13,565 4,974,165	3,220 5,726 96 170 27,979	548,841 532,806 8,773 42,937 5,980,340	92 93 94 95 96
112 80 888	52,276 22,100 135,508	58 7 10	12,630 2,153 1,300			94,929 30,037 74,376 1,754 572	5,340 350 2,484 1,000 464	2,834 573 4,647 39 6	86,755 3,669 61,475 715 2		635,876 57,323 738,935 20,690 495	626,369 56,073 721,771 20,690 431	9,507 650 12,164 290 64	967,767 162,300 1,123,731 39,850 4,310	97 98 99 100 101
650	253,403	81	16,892	92	14,969	83,533	23,169	3,130	57,206	78	386,778	377,013	9,760	1,447,838	102
169 465 22 457	78,379 226,755 10,730 124,950	100 160 112	20,721 32,559 30,127	27 22 113	3,781 3,400 16,252	843,309 137,877 2,424 68,564	12,550 13,836 1,530 4,150	6,736 2,629 111 3,903	824,023 121,412 777 60,511		409,799 882,012 10,151 497,075	402,963 378,264 7,829 493,720	6,836 3,743 2,322 3,355	1,624,801 1,091,449 32,072 999,022	103 104 105 106
75 65	84,708 17,618	1	300	1	182	14,711 10,524	8,570 4,092	592 471	3,486 5,301	2,063	32,831 43,649	31,765 42,897	1,066 752	134,305 105,619	107 108
3 2,039	1,502 903,802					677 1,875,575	253 62,639	149 49,182	275 1,262,631		3,597 2,023	3,059	533 144,613	10,433 8,517,549	109 110
		1,015	186,856	497	79,089						4,219,301	4,074,033			

Iron and steel, nails and spikes, cut and wrought, including wire nails, 1; kaolin and other earth grinding, 1; labels and tags, 1; lead, bar, pipe, and sheet, 1; leather goods, 2; lime and cement, 2; liquors, distilled, 1; mirrors, 1; mucilage and paste, 2; musical instruments, organs and materials, 2; oil, linseed, 1; oil, not elsewhere specified, 2; paints, 2; paper goods, not elsewhere specified, 2; perfumery and cosmetics, 2; pipes, tobacco, 1; pocketbooks, 1; pottery, terra cotta, and fire-clay products, 2; printing and publishing, music, 1; printing materials, 1; refrigerators, 2; saws, 1; screws, machine, 1; ship and boat building, wooden, 1; shoddy, 1; show cases, 1; slaughtering, wholesale, not including meat packing, 1; starch, 1; stereotyping and electrotyping, 1; tobacco, stemming and rehandling, 1; toys and games, 1; vinegar and cider, 2; window shades, 1; woodenware, not elsewhere specified, 1; woolen goods, 1; worsted goods, 2.

## OSHKOSH.

\$3,629	\$1,529,627	620	\$151,026	338	\$30,857	\$316,564	\$34,742	\$48,392	\$513,159	\$20,271	\$4,742,744	\$4,695,134	\$47,610	\$3,781,243	1
6	2,276			1	80	838	628	61	244		4,488	4,133	355	11,735	2
17	8,906			2	184	1,078	1,164	130	884		8,376	7,763	603	30,038	3
3	1,101					649	414	27	208		2,717	2,618	99	7,782	4
3	2,300					416	96	3	317		9,612	9,362	250	14,157	5
21	8,151	2	600	1	161	2,845	1,122	204	1,519		41,067	39,491	1,576	66,498	6
5	1,432	5	1,101			138	81	8	49		4,638	4,543	90	9,929	7
91	51,049					15,485	195	78	1,869	13,843	118,337	118,297	40	200,215	8
249	111,404	9	2,519			59,722	812	3,267	50,153		292,533	288,025	4,503	547,936	9
22	10,405	27	6,203			5,098	3,540	79	1,404	75	26,182	24,742	4,808	59,351	10
		72	14,001			1,705	1,187	18	490	10	5,842	5,671	171	28,625	11
5	1,550	3	656			2,800	1,200	95	1,005		18,630	18,430	200	31,000	12
14	7,063					3,254	1,000	473	1,776		95,324	95,344	2,580	116,224	13
179	79,195	6	1,081	1	203	20,623	260	1,204	14,903	4,866	194,652	128,371	6,461	294,933	14
513	180,017	70	20,000	42	9,290	40,413		2,662	57,761		840,681	837,941	2,940	720,323	15
1,024	463,058	6	1,872	152	45,100	145,119		25,103	120,016		1,850,940	1,850,940		2,449,430	16

## STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

OSHKOSH—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	Lumber, planing mill products, including sash, doors, and blinds.	5	\$1,868,646	\$52,800	\$128,185	\$193,048	\$994,618	2	34	\$35,430	748	\$288,504
18	Marble and stone work	8	44,110	38,500	1,660	8,650	400	8			11	5,400
19	Millinery, custom work	13	23,255	2,000	2,000	480	18,825	19	3	1,480	26	5,421
20	Monuments and tombstones	4	22,125	1,000	2,000	725	18,400	5	5	2,655	9	4,850
21	Painting, house, sign, etc	14	18,175	4,100	1,700	1,790	5,585	15			51	18,469
22	Photography	8	15,150		300	9,500	5,850	9			11	3,330
23	Plumbing, and gas and steam fitting	8	34,200	10,700	10,100	8,450	9,950	7	2	1,456	25	15,181
24	Printing and publishing, book and job	6	80,067			22,000	8,067	4			31	12,093
25	Printing and publishing, newspapers and periodicals.	3	76,448			38,308	38,140	2	14	9,567	50	20,768
26	Saddlery and harness	6	13,260			1,060	12,200	7			4	2,316
27	Ship and boat building, wooden	4	39,641	4,000	4,000	19,470	12,171	5	1	468	83	15,342
28	Tinsmithing, coppersmithing, and sheet-iron working.	10	11,780	1,500	1,500	4,250	4,530	10	2	1,500	20	9,646
29	Tobacco, cigars and cigarettes	15	79,960	2,400	4,700	1,115	71,745	18	1	750	83	32,226
30	Watch, clock, and jewelry repairing	7	8,350			3,850	4,500	9			10	4,268
31	All other industries <sup>1</sup>	50	1,623,818	186,925	295,477	538,186	659,230	40	69	66,549	919	286,520

<sup>1</sup> Embraces awnings, tents, and sails, 1; bookbinding and blank book making, 1; boxes, cigar, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 1; coffee and spice, roasting and grinding, 1; cooperage, 2; dyeing and cleaning, 1; electrical construction and repairs, 1; electroplating, 1; fruits and vegetables, canning and preserving, 1; fur goods, 1; furniture, cabinetmaking, repairing, and upholstering, 2; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hairwork, 1; hardware, 1; lime and cement, 2; liquors, distilled, 1;

## RACINE.

1	All industries	252	\$10,753,215	\$912,865	\$1,849,908	\$2,750,182	\$11,240,310	240	876	\$861,900	6,785	\$2,994,100
2	Agricultural implements	9	6,913,584	238,015	542,944	981,939	5,160,636	2	415	869,886	1,472	770,041
3	Bicycle and tricycle repairing	4	10,400			3,600	6,800	5			8	2,700
4	Blacksmithing and wheelwrighting	14	18,775	8,150	3,750	2,950	3,925	20			4	2,678
5	Boots and shoes, custom work and repairing.	10	2,360	400	900	860	200	14			5	2,674
6	Boots and shoes, factory product	5	335,053	21,000	43,000	68,450	202,603		55	53,548	469	154,717
7	Bottling	3	15,650	3,000	3,000	1,050	8,600	2	1	600	4	1,790
8	Bread and other bakery products	6	32,400	4,500	15,500	7,350	5,050	8			83	13,418
9	Carpentering	6	38,850	10,250	20,500	1,600	6,500	7	1	240	41	27,445
10	Carriages and wagons	8	3,774,136	242,647	894,528	321,279	2,815,732	6	95	128,007	1,278	655,408
11	Clothing, men's, custom work and repairing.	15	36,250	2,500	4,000	1,650	23,100	16	2	2,500	50	22,770
12	Clothing, women's, dressmaking	3	6,875	1,500	3,150	1,375	850	4			16	8,900
13	Confectionery	3	6,600			3,459	3,141	8	1	400	9	2,885
14	Foundry and machine shop products	15	724,335	46,975	111,471	170,893	394,996	14	26	31,392	563	241,576
15	Hardware	3	56,372	1,550	2,700	19,504	32,618	2	8	6,520	57	14,223
16	Hardware, saddlery	4	238,532	8,000	49,500	68,612	112,420	5	15	13,068	342	125,072
17	Leather, tanned, curried, and finished	4	351,717	20,000	20,390	19,985	291,342		13	88,720	143	53,858
18	Liquors, malt	3	124,600	12,000	43,200	41,300	28,100	3	8	3,600	14	7,696
19	Lumber, planing mill products, including sash, doors, and blinds.	8	137,987	84,000	56,800	21,651	55,536	2	6	8,630	88	33,675
20	Millinery, custom work	10	41,155	5,150	6,800	905	28,300	10			41	11,416
21	Mineral and soda waters	3	19,250	1,500	1,500	6,900	9,850	4			11	4,377
22	Painting, house, sign, etc	5	3,624			1,400	2,224	6	1	840	33	20,750
23	Photography	6	18,050	4,000	4,500	5,650	3,900	6			8	8,400
24	Plumbing, and gas and steam fitting	7	35,095			3,320	31,775	8	8	1,200	38	24,324
25	Printing and publishing, book and job	3	16,200			11,975	4,225	4	1	672	21	8,500
26	Printing and publishing, newspapers and periodicals.	8	141,844	6,500	9,500	61,783	68,561	8	15	12,858	71	28,317
27	Saddlery and harness	5	11,180	2,000	1,500	880	6,800	5	1	900	4	1,741
28	Springs, steel, car and carriage	5	205,999	14,000	26,500	46,100	119,399	3	15	12,610	131	55,453
29	Tinsmithing, coppersmithing, and sheet-iron working.	7	16,600	3,250	2,250	2,950	8,150	10	8	1,720	27	14,840
30	Tobacco, cigars and cigarettes	12	22,280	1,600	2,860	790	17,030	12	1	720	46	22,408
31	Trunks and valises	5	428,296	25,600	73,866	25,952	300,378		52	45,480	223	74,833
32	Watch, clock, and jewelry repairing	7	34,640	6,500	11,500	7,800	8,840	8			17	9,860
33	All other industries <sup>1</sup>	51	2,910,046	143,278	394,299	338,240	1,480,229	43	133	132,939	1,513	568,300

<sup>1</sup> Embraces awnings, tents, and sails, 1; baskets, and rattan and willow ware, 1; bicycles and tricycles, 1; bookbinding and blank book making, 1; boxes, fancy and paper, 1; brassware, 1; brick and tile, 2; brooms and brushes, 1; carriage and wagon materials, 2; cleansing and polishing preparations, 1; clothing, men's, factory product, 2; clothing, women's, factory product, 1; dyeing and cleaning, 2; electrical construction and repairs, 2; electroplating, 1; fancy articles, not elsewhere specified, 1; flouring and grist mill products, 2; food preparations, 1; fur goods, 2; furniture, factory product, 2; gas, illuminating and heating, 1; grease

## SHEBOYGAN.

1	All industries	203	\$7,766,616	\$773,550	\$1,272,392	\$1,531,441	\$4,189,233	211	202	\$249,931	5,388	\$1,678,236
2	Bicycle and tricycle repairing	3	3,607	600	400	1,150	1,457	5			10	2,700
3	Blacksmithing and wheelwrighting	7	15,362	8,400	2,912	1,250	2,800	8			4	1,685
4	Boots and shoes, custom work and repairing.	11	10,555	2,600	4,450	1,030	2,475	14			6	2,173
5	Bread and other bakery products	8	21,331	7,150	6,800	3,131	4,750	8			22	8,518
6	Brick and tile	3	60,124	25,975	5,800	5,825	22,524	2	7	2,940	23	10,797

BY SPECIFIED INDUSTRIES: 1900—Continued.

OSHKOSH—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						* MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
674	\$272,831	5	\$1,572	69	\$14,601	\$87,881	\$2,016	\$6,863	\$78,502	-----	\$1,061,456	\$1,060,793	\$663	\$1,619,836	17
11	5,400	-----	-----	-----	-----	775	-----	268	507	-----	2,290	1,740	550	11,650	18
9	4,850	26	5,421	-----	-----	5,170	8,560	160	1,460	-----	84,606	34,230	376	61,500	19
61	18,469	-----	-----	-----	-----	1,394	756	118	520	-----	9,336	9,248	90	29,100	20
-----	-----	-----	-----	-----	-----	1,653	569	94	890	-----	14,533	14,328	205	49,950	21
6	2,068	5	1,262	-----	-----	2,233	1,330	42	321	\$40	7,768	7,432	286	24,100	22
25	15,181	-----	-----	-----	-----	1,804	696	192	916	-----	48,396	48,289	107	77,443	23
27	10,809	8	1,004	1	130	2,837	1,852	115	870	-----	12,239	11,230	1,059	33,325	24
44	25,042	6	1,724	-----	-----	6,850	1,835	346	4,569	100	15,547	14,008	1,539	76,492	25
4	2,816	-----	-----	-----	-----	1,920	1,040	78	82	720	7,065	6,942	123	13,834	26
33	15,342	-----	-----	-----	-----	1,134	120	118	896	-----	17,913	16,995	918	56,810	27
20	9,616	-----	-----	-----	-----	1,210	741	88	881	-----	14,332	14,256	76	33,917	28
61	28,378	17	3,169	5	679	14,587	1,928	250	12,339	-----	39,628	39,282	346	112,887	29
10	4,268	-----	-----	-----	-----	1,285	860	40	385	-----	12,097	11,850	247	30,220	30
497	187,015	858	89,081	64	10,424	186,173	6,350	6,223	172,938	617	961,139	940,782	20,407	1,961,376	31

Hquors, malt, 2; looking-glass and picture frames, 2; masonry, brick and stone, 2; matches, 1; mats and matting, 1; mattresses and spring beds, 1; mineral and soda waters, 2; musical instruments and materials, not specified, 1; paints, 1; patent medicines and compounds, 2; paving and paving materials, 1; pickles, preserves, and sauces, 1; roofing and roofing materials, 2; rubber and elastic goods, 1; shirts, 1; straw goods, not elsewhere specified, 1; tobacco, chewing, smoking, and snuff, 1; tools, not elsewhere specified, 1; trunks and valises, 2; vinegar and cider, 1.

## RACINE.

5,531	\$2,652,878	1,076	\$312,080	178	\$20,162	\$1,004,165	\$42,767	\$52,919	\$391,760	\$16,719	\$6,253,372	\$6,089,778	\$163,599	\$12,502,796	1
1,472	770,041					369,231	4,945	21,302	336,547	6,427	1,254,625	1,221,651	32,974	3,001,009	2
8	2,700					1,253	863	5	315	75	7,555	7,359	196	14,880	3
4	2,678					1,352	870	105	377		7,466	7,011	445	30,460	4
5	2,674					691	639	10	42		3,791	3,690	101	11,215	5
257	99,931	198	51,760	14	8,036	20,578	1,000	1,422	13,156		565,347	562,035	3,262	849,215	6
4	1,790					898	160	12	226		6,954	6,807	147	13,840	7
22	10,826	11	2,592			4,538	1,758	324	2,458		32,197	30,988	1,209	60,260	8
41	27,445					4,748	703	120	2,925	1,000	44,603	44,520	83	94,800	9
1,240	645,419	19	7,371	10	2,613	156,077	804	11,247	143,826	200	1,462,058	1,446,921	15,137	2,749,653	10
87	19,620	18	3,150			6,860	3,721	179	1,460		81,914	81,443	471	75,700	11
4	1,540	16	3,900			80	20	30	80		1,125	1,075	50	8,500	12
548	239,392	5	1,345			1,214	861	12	341		6,641	6,430	211	17,800	13
48	13,123			15	2,184	87,623	910	2,302	31,049	3,362	458,665	427,713	30,952	849,455	14
311	124,832	4	800	5	800	5,033	1,000	140	3,893		28,662	27,362	1,300	66,965	15
				1	240	21,932	650	545	18,787	2,000	102,651	96,303	6,348	284,365	16
133	56,058	10	2,300			31,113	4,330	638	26,145		426,265	417,609	8,656	576,236	17
14	7,698					33,350	120	710	32,520		18,282	15,521	2,761	87,270	18
83	38,676					5,772		1,123	4,649		63,189	61,057	2,132	123,957	19
1	582	40	10,634			3,812	2,130	184	1,498		31,112	30,827	285	62,392	20
11	4,377					1,000	360	50	650		5,635	5,224	311	22,916	21
83	20,750					421	96		325		3,804	3,784	20	36,325	22
6	2,600	2	300			1,543	1,056	132	355		5,937	5,537	400	22,830	23
88	24,324					3,454	2,209	45	1,200		46,775	40,520	255	97,418	24
17	7,350	4	1,150			1,071	685	17	369		9,115	8,764	351	22,550	25
50	21,766	21	7,061			15,576	1,650	347	10,729	2,950	80,903	28,540	2,363	120,418	26
3	1,637	1	104			502	304	65	133		6,680	6,626	54	13,329	27
130	55,050	1	408			8,230	384	623	7,243		223,060	210,003	13,057	340,823	28
26	14,263	1	72			1,102	796	58	248		17,119	16,974	145	42,600	29
45	22,226	1	182			11,137	1,358	64	9,765		37,054	36,764	290	84,594	30
139	67,921	20	4,745	9	1,722	29,710	800	1,606	27,804		202,137	198,126	4,041	372,859	31
16	9,560	1	700			673	336	272	65		4,115	3,635	480	21,648	32
695	336,037	703	213,196	115	19,067	226,376	7,371	9,170	207,630	705	1,103,016	1,067,904	35,112	2,319,973	33

and tallow, 1; hosiery and knit goods, 1; house furnishing goods, not elsewhere specified, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; leather goods, 1; marble and stone work, 2; mattresses and spring beds, 1; monuments and tombstones, 2; paper goods, not elsewhere specified, 1; patent medicines and compounds, 2; perfumery and cosmetics, 1; refrigerators, 1; roofing and roofing materials, 1; rubber and elastic goods, 1; ship and boat building, wooden, 1; shirts, 1; tobacco, chewing, smoking, and snuff, 1; wirework, including wire rope and cable, 1; woolen goods, 1.

## SHEBOYGAN.

4,684	\$1,563,642	325	\$55,532	329	\$54,062	\$678,413	\$14,262	\$34,560	\$609,117	\$20,474	\$3,995,102	\$3,890,507	\$104,595	\$7,469,202	1
8	2,400	1	200	1	100	823	540	30	258		3,273	3,046	232	8,652	2
4	1,635					470	240	127	103		3,590	3,292	293	10,356	3
6	2,173					720	467	83	70	100	2,931	2,926	55	7,524	4
19	8,052	3	466			3,098	1,025	343	1,730		29,423	27,621	1,807	55,355	5
23	10,797					2,113		533	1,635		8,720	735	7,985	31,450	6



## STATISTICS OF MANUFACTURES.

TABLE 8.—MANUFACTURES IN CITIES

SHEBOYGAN—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 implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
7	Carpentering.....	20	\$13,628	\$2,225	\$2,675	\$5,525	\$8,208	24			77	\$31,755
8	Carriages and wagons.....	4	56,970	11,800	17,300	5,950	22,420	6	1	\$300	24	10,297
9	Cheese, butter, and condensed milk, factory product.....	8	2,650	50	650	900	1,050	5				
10	Clothing, men's, custom work and repairing.....	14	76,684	16,000	42,004	2,680	16,000	19	1	1,000	56	20,675
11	Cooperage.....	4	2,850	1,500	500	350	500	4			2	805
12	Foundry and machine shop products.....	4	152,469	21,050	\$1,860	42,822	56,787	8	6	7,147	86	\$2,967
13	Furniture, cabinetmaking, repairing, and upholstering.....	8	2,088	350	200	1,070	468	8			5	675
14	Furniture, factory product.....	11	3,586,462	375,337	589,347	742,488	1,879,290	1	96	129,455	8,164	942,376
15	Masonry, brick and stone.....	7	2,495			1,860	635	8			52	21,445
16	Millinery, custom work.....	9	10,100	8,100	1,000	250	5,750	11			21	1,970
17	Mineral and soda waters.....	8	40,568	7,700	12,675	8,505	11,688	2	2	3,000	23	5,788
18	Painting, house, sign, etc.....	7	24,116	6,430	7,080	2,305	8,301	9			46	17,020
19	Photography.....	7	38,650	15,000	11,400	5,450	1,800	11			9	1,072
20	Plumbing, and gas and steam fitting.....	6	16,850	1,725	2,600	925	11,100	9	2	504	23	9,809
21	Printing and publishing, newspapers and periodicals.....	6	51,776	11,800	4,100	28,500	12,876	8	4	3,440	65	18,448
22	Saddlery and harness.....	6	12,422	2,800	4,000	1,427	4,695	7			6	2,180
23	Tinsmithing, coppersmithing, and sheet-iron working.....	6	88,825	25,500	81,500	4,825	22,000	6	8	2,300	22	10,750
24	Tobacco, cigars and cigarettes.....	12	19,887	4,900	4,600	555	9,782	12			25	7,924
25	Watch, clock, and jewelry repairing.....	9	88,550	13,650	16,500	1,850	1,550	10			3	1,014
26	All other industries <sup>1</sup> .....	33	3,482,648	209,408	522,089	665,818	2,085,388	21	80	99,845	1,559	514,118

<sup>1</sup> Embraces artificial feathers and flowers, 1; awnings, tents, and sails, 1; bookbinding and blank book making, 2; boots and shoes, factory product, 2; boxes, cigar, 1; carpets, rag, 1; carriages and sleds, children's, 1; confectionery, 1; druggists' preparations, not including prescriptions, 1; dyeing and cleaning, 1; electrical construction and repairs, 2; enameling and enameled goods, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hosiery and knit

## SUPERIOR.

1	All industries.....	185	\$5,682,562	\$397,022	\$1,742,860	\$1,618,871	\$1,429,309	188	148	\$168,714	1,958	\$925,776
2	Bicycle and tricycle repairing.....	5	9,400			2,550	6,910	5			7	5,270
3	Blacksmithing and wheelwrighting.....	10	14,859	1,850	3,000	8,980	6,529	15			12	8,470
4	Boots and shoes, custom work and repairing.....	18	9,809	150	1,000	8,056	5,603	18			4	2,076
5	Bread and other bakery products.....	8	21,225	250	500	10,855	10,120	9			30	16,280
6	Carpentering.....	4	7,850	1,000	1,700	2,110	2,650	4			18	10,620
7	Clothing, men's, custom work and repairing.....	16	19,810	700	2,400	2,516	14,194	18			86	23,624
8	Clothing, women's, dressmaking.....	7	3,260			785	2,475	8			23	6,790
9	Foundry and machine shop products.....	8	444,051	80,500	129,015	248,644	35,892	8	7	8,206	117	69,671
10	Fur goods.....	8	11,600			2,600	9,000	5			13	5,300
11	Liquors, malt.....	8	111,000	12,000	35,000	36,000	28,000	1	11	10,400	86	25,220
12	Looking-glass and picture frames.....	3	4,010			450	3,560	4			4	2,700
13	Lumber and timber products.....	8	531,052	47,821	55,000	143,612	284,619	5	11	9,373	207	94,784
14	Millinery, custom work.....	6	8,680			706	7,830	7	1	800	16	7,832
15	Painting, house, sign, etc.....	6	7,184			616	6,568	6			12	8,900
16	Photography.....	5	5,885			3,050	2,835	5			3	1,900
17	Plumbing, and gas and steam fitting.....	4	52,800	600	6,000	8,800	42,000	6	8	4,500	54	34,600
18	Printing and publishing, newspapers and periodicals.....	12	118,879	8,400	5,800	64,200	40,479	8	10	8,050	74	57,060
19	Saddlery and harness.....	8	9,459			900	8,559	8			5	4,292
20	Tinsmithing, coppersmithing, and sheet-iron working.....	8	42,450	7,400	16,000	5,550	13,500	11			17	12,750
21	Tobacco, cigars and cigarettes.....	7	19,448		800	1,150	17,098	9			45	27,817
22	Watch, clock, and jewelry repairing.....	10	12,897			8,325	9,072	10			7	4,732
23	All other industries <sup>1</sup> .....	87	4,423,028	791,851	1,486,645	1,274,416	870,116	24	105	127,825	1,223	495,305

<sup>1</sup> Embraces awnings, tents, and sails, 2; bags, other than paper, 1; bookbinding and blank book making, 1; bottling, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; coke, 1; confectionery, 1; cooperage, 2; flouring and grist mill products, 1; furniture, cabinetmaking, repairing, and upholstering, 1; furniture, factory product, 1; gas, illuminating and heating, 1; hairwork, 1; lime and cement, 2; lock and gun smithing, 1; lumber,

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns.....	3,804	\$98,777,701	\$20,798,100	\$12,772,802	\$18,188,768	\$42,023,581	4,138	2,682	\$2,779,354	44,025	\$18,048,257
2	Antigo.....	65	469,185	50,008	77,470	116,557	225,152	69	16	14,746	873	147,591
3	Appleton.....	240	4,975,897	741,282	1,208,908	1,628,750	1,401,447	278	122	189,400	2,226	951,147
4	Ashland.....	129	6,017,653	2,480,230	255,178	807,024	2,465,226	185	72	81,903	1,830	875,715
5	Baraboo.....	76	871,969	48,000	89,050	93,705	152,214	85	21	15,432	405	178,509
6	Beaverdam.....	57	1,181,842	86,650	194,353	300,808	600,086	64	28	35,600	707	216,526
7	Beloit.....	103	2,593,589	137,942	437,648	635,997	1,882,601	118	119	190,178	2,055	931,217
8	Berlin.....	65	458,021	72,200	58,850	84,420	242,551	70	85	28,570	376	134,514
9	Chippewa Falls.....	72	1,847,875	772,500	173,725	202,366	699,084	79	46	51,680	555	248,161
10	Depere.....	48	854,321	194,945	164,304	201,073	293,994	53	15	19,110	360	115,730
11	Eau Claire.....	148	4,756,388	895,041	868,634	877,305	2,615,458	167	127	187,915	1,853	726,665

BY SPECIFIED INDUSTRIES: 1900—Continued.

SHEBOYGAN—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
77 24	\$31,755 10,297					\$19,404 1,521 187	\$36 61	\$110 527 40	\$418 994 86	\$18,840	\$100,039 21,949 5,000	\$99,880 21,297 5,030	\$150 652 60	\$171,025 40,022 6,067	7 8 9
49 2	19,240 805	7	\$1,435			2,970 157	1,896 84	472 27	911 46	191	24,545 1,784	23,785 1,784	760	64,680 8,860	10 11
86 2	32,997 876			8	\$300	3,752 197	102 160	999 8	2,651 29		34,659 1,012	33,226 1,672	1,433 40	99,278 6,200	12 13
2,774 52	878,238 21,445	117	21,780	273	42,358	321,387 340 1,077	1,300 240 886	14,287 34 94	305,800 66 97		1,480,832 31,898 19,965	1,453,816 31,898 19,765	27,016 200	3,189,045 58,374 81,450	14 15 16
12 46 8 23 87	4,574 17,920 995 9,809 14,022	11 6	1,214 977			9,708 1,056 1,824 1,631 7,740		289 253 281 140 381	9,419 703 702 751 5,420		31,901 24,667 7,367 22,216 11,303	\$1,401 24,625 6,998 22,057 10,553	500 142 869 150 760	67,202 53,882 17,618 50,150 58,751	17 18 19 20 21
6 22	2,130 10,750					1,085 1,524	648 530	127 289	810 805	400	7,871 27,905	7,713 27,612	153 293	20,525 58,805	22 23
21 8 1,880	7,474 1,014 480,195	4	450			6,263 1,418 288,037	975 455 2,384	164 528 14,394	5,124 280 271,259	150	15,547 1,900 2,078,995	15,395 1,855 2,012,716	152 105 61,279	42,916 6,904 8,318,211	24 25 26

goods, 1; leather tanned, curried, and finished, 2; lime and cement, 1; liquors, malt, 2; lock and gun smithing, 1; lumber and timber products, 1; models and patterns, 1; monuments and tombstones, 1; plumbers' supplies, 1; printing and publishing, book and job, 1; refrigerators, 1; roofing and roofing materials, 2; upholstering materials, 1.

## SUPERIOR.

1,786	\$868,885	140	\$53,004	32	\$4,297	\$378,067	\$36,734	\$37,636	\$290,789	\$4,508	\$5,896,780	\$5,819,788	\$76,942	\$7,527,703	1
7 12 4	5,270 8,470 2,676					1,335 1,383 1,528	965 846 1,100	63 70 46	807 472 824		6,392 14,077 6,429	6,272 13,655 6,108	120 422 821	18,025 85,343 23,671	2 3 4
22 13	13,450 10,620	8	2,830			3,252 553	2,082 100	98 57	562 896	510	32,900 14,141	32,080 14,074	880 67	77,110 80,474	5 6
30	22,016	6	1,508			7,214	3,529	103	1,092	2,500	89,048	38,669	874	90,098	7
117 4 36	69,074 2,690 26,220	23 9	6,790 2,510			1,467 12,103 1,320 84,366	1,110 2,744 960 240	18 2,889 24 766	839 6,536 836 89,300	500	10,913 100,230 13,769 24,415	10,785 95,163 18,700 22,130	123 5,062 60 2,235	28,591 218,296 27,090 112,840	8 9 10 11
4 207	2,700 94,731					747 21,835 2,883 1,501	530 1,090 1,800 860	14 6,859 32 29	203 14,476 941 512		5,648 345,365 20,731 7,610	5,613 345,365 20,731 7,640	35 846,565 60 70	12,337 559,781 89,625 22,594	12 13 14 15
12 8 54 64	8,900 1,900 31,000 52,220					1,512 2,554 11,284	1,260 1,420 2,154	21 109 309	231 1,025 7,981		5,865 98,994 29,444	5,777 98,728 27,824	88 266 1,620	14,729 160,925 153,454	16 17 18
5 17	4,292 12,750					1,298 1,387	930 595	43 151	823 1,091		12,370 28,646	12,814 28,447	56 199	21,477 56,282	19 20
34 7 1,134	22,265 4,732 469,806	8 62	5,423 21,701	8 27	159 8,798	8,611 3,405 256,064	1,630 2,310 8,509	52 57 26,826	6,929 1,038 221,320		28,106 8,883 4,547,445	27,956 8,740 4,482,909	150 143 64,536	78,145 19,730 5,727,086	21 22 23

planing mill products, including sash, doors, and blinds, 2; marble and stone work, 2; masonry, brick and stone, 2; mattresses and spring beds, 2; mineral and soda waters, 1; paper hanging, 1; patent medicines and compounds, 1; printing and publishing, book and job, 2; roofing and roofing materials, 1; shipbuilding, iron and steel, 1; ship and boat building, wooden, 1; shirts, 1; windmills, 1.

## TOWNS UNDER 20,000 IN POPULATION: 1900.

38,189	\$16,896,488	4,584	\$951,704	1,802	\$200,065	\$5,731,591	\$332,277	\$747,125	\$4,229,255	\$422,934	\$58,208,679	\$51,359,453	\$1,849,226	\$94,246,463	1
852 1,783 1,776 324 515	144,837 859,122 861,079 162,158 179,808	15 890 50 80 161	2,137 85,125 13,921 10,136 31,379	6 58 4 1 81	617 6,900 415 220 4,344	42,760 804,724 800,286 43,109 60,237	3,204 17,522 16,477 5,226 4,192	3,982 40,615 52,256 3,154 6,543	35,124 241,749 149,765 29,014 49,372	450 4,838 81,788 5,715 180	885,939 3,251,621 1,929,656 346,458 520,527	831,354 3,047,777 1,745,350 336,988 504,298	4,585 203,844 184,297 9,470 25,234	728,755 5,330,069 4,157,718 695,731 1,002,255	2 3 4 5 6
1,878 245 514 209 1,659	934,035 117,980 284,437 88,080 687,647	170 124 37 145 155	46,090 15,568 8,024 27,194 32,705	7 7 4 6 44	1,092 966 650 450 6,213	135,927 32,112 104,828 85,489 298,327	12,621 5,301 5,342 1,588 17,566	8,857 22,857 36,736 4,823 59,185	107,483 22,704 61,758 25,990 206,587	7,466 1,250 997 3,683 14,989	1,543,086 412,259 1,278,597 689,331 2,491,102	1,486,772 402,776 1,266,237 664,747 2,461,135	56,814 9,483 7,860 24,584 29,907	3,185,080 736,247 2,131,067 980,800 4,360,280	7 8 9 10 11

## STATISTICS OF MANUFACTURES.

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 imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
12	Fond du Lac.....	188	\$2,745,488	\$299,395	\$489,802	\$479,854	\$1,527,387	189	128	\$120,886	1,834	\$677,977
13	Fort Atkinson.....	67	668,698	110,800	132,084	100,855	320,509	78	49	45,967	392	148,511
14	Grand Rapids.....	66	1,260,584	184,727	309,417	368,984	897,406	60	85	34,216	508	174,641
15	Green Bay.....	191	3,883,717	595,965	472,408	661,155	1,654,104	227	117	112,069	1,719	702,829
16	Hudson.....	41	681,920	84,175	248,750	97,515	261,480	42	24	19,562	422	226,001
17	Janesville.....	184	2,680,883	181,196	389,586	815,106	1,294,995	211	179	129,127	1,710	685,842
18	Jefferson.....	66	629,658	42,570	184,584	108,568	298,988	74	24	19,010	870	129,299
19	Kaukauna.....	71	1,815,646	98,105	298,646	518,016	405,879	71	37	41,514	667	300,827
20	Kenosha.....	71	5,946,975	247,555	660,518	1,034,759	4,004,143	67	105	187,301	3,149	1,832,380
21	Madison.....	195	3,840,042	295,403	432,851	761,018	2,350,770	227	219	178,080	1,805	826,596
22	Manitowoc.....	135	2,581,869	265,484	600,316	534,652	1,181,467	161	84	79,725	1,146	427,218
23	Marinette.....	103	8,070,648	3,796,476	526,995	1,183,106	2,564,071	98	92	129,727	1,888	748,937
24	Marshfield.....	63	429,525	30,420	65,192	75,580	258,383	66	19	17,740	872	135,354
25	Menasha.....	57	8,489,690	412,294	970,149	621,182	1,436,115	58	48	68,477	1,575	570,019
26	Menominee.....	50	8,498,474	1,947,694	168,898	549,877	832,005	58	45	47,196	698	328,412
27	Merrill.....	69	3,520,126	1,433,611	138,580	880,878	1,617,062	75	44	67,158	1,694	687,757
28	Monroe.....	62	321,026	41,700	81,350	66,230	131,746	70	14	7,838	217	86,813
29	Neenah.....	74	2,183,170	232,488	497,502	734,384	668,801	78	43	47,256	616	278,096
30	North Milwaukee.....	20	1,124,214	60,400	193,096	264,589	606,179	14	65	68,441	944	856,298
31	Oconto.....	44	2,021,860	890,845	116,460	123,835	885,720	44	27	31,716	440	201,803
32	Portage.....	72	468,925	21,475	79,632	107,497	260,321	71	42	32,919	824	104,742
33	Port Washington.....	65	1,006,926	128,217	147,800	241,773	489,576	71	61	56,337	811	265,298
34	Reedsburg.....	45	411,095	42,700	80,550	89,679	198,166	50	7	7,800	207	66,871
35	Rhineland.....	62	1,366,855	253,897	181,630	301,426	680,402	58	22	28,530	781	307,131
36	Ripon.....	73	498,581	84,520	91,766	134,433	237,812	77	32	28,276	860	122,844
37	South Milwaukee.....	29	1,092,523	80,100	144,635	241,426	626,362	28	31	32,714	595	318,149
38	Sparta.....	56	221,172	28,986	40,325	74,791	77,120	71	8	5,645	147	56,805
39	Stevens Point.....	107	2,197,025	412,432	296,923	582,470	905,200	114	51	49,523	979	800,800
40	Stoughton.....	14	718,452	19,600	102,725	89,976	501,151	13	31	28,569	263	118,711
41	Tomah.....	47	980,180	655,000	73,385	75,245	182,550	53	13	9,500	212	89,002
42	Tomahawk.....	33	172,514	11,925	39,418	80,955	40,216	29	5	5,460	180	93,271
43	Two Rivers.....	45	886,492	69,098	171,745	216,059	379,590	53	35	40,310	971	250,385
44	Washburn.....	35	1,566,855	918,298	99,000	268,748	280,809	37	11	19,500	501	260,036
45	Watertown.....	86	1,776,312	202,054	461,574	402,311	710,373	103	56	50,241	621	204,305
46	Waupun.....	42	493,590	14,269	42,950	68,023	363,348	47	22	28,650	267	87,988
47	Wausau.....	137	3,094,178	399,474	344,950	432,334	1,917,420	149	100	104,920	1,648	594,626
48	Wauwatosa.....	87	3,110,023	777,150	530,100	409,629	1,393,144	86	161	152,840	2,812	1,154,948

## 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 in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,410	\$605,156	370	\$64,861	54	\$7,960	\$239,112	\$16,727	\$15,175	\$189,372	\$17,888	\$1,895,238	\$1,849,718	\$45,515	\$8,386,822	12
858	188,751	27	6,758	7	1,002	58,406	2,954	3,985	45,467	1,000	346,653	339,125	7,528	781,299	13
462	160,946	29	5,918	12	1,782	64,542	2,657	8,888	52,847	1,150	671,146	650,278	20,868	1,129,078	14
1,466	659,265	210	86,081	48	7,533	257,838	20,286	35,432	183,730	18,380	1,749,046	1,717,085	32,011	3,409,160	15
414	223,900	6	1,851	2	250	18,775	2,258	4,212	12,305		926,230	917,497	8,733	1,261,569	16
1,278	585,607	393	96,272	39	8,968	249,911	23,850	12,625	210,110	3,326	1,080,411	1,042,208	38,203	3,670,820	17
835	121,365	33	7,712	2	222	86,970	2,991	2,792	80,937	250	513,501	497,192	16,459	823,324	18
619	288,371	45	11,830	8	626	97,153	16,117	10,782	69,059	1,200	808,552	793,309	40,243	1,424,047	19
2,527	1,194,715	347	88,315	275	49,350	860,411	7,392	23,856	829,133		5,106,209	4,654,919	451,290	7,488,866	20
1,616	772,423	160	50,000	29	4,173	347,883	31,202	11,998	264,711	39,477	1,457,387	1,407,961	49,426	3,508,508	21
1,044	413,180	99	13,834	3	204	230,858	20,605	11,329	146,759	52,165	1,018,440	982,849	36,091	2,263,848	22
1,698	713,899	128	28,280	12	1,818	329,036	11,068	93,227	224,584	207	2,495,581	2,470,451	25,130	4,659,712	23
834	127,445	21	4,519	17	3,390	46,689	2,289	2,819	87,804	4,277	349,313	341,352	7,961	709,144	24
1,872	582,549	147	30,398	56	7,072	212,065	2,950	35,107	174,008		1,365,592	1,279,670	85,922	2,751,270	25
655	315,209	15	2,652	28	5,551	65,637	2,732	41,806	20,749	350	977,536	954,497	23,039	1,533,139	26
1,540	684,762	28	6,911	126	26,084	180,628	3,080	36,580	88,950	2,118	2,320,566	2,324,901	4,665	4,150,272	27
189	82,062	24	4,179	4	572	58,712	5,084	1,537	46,993	5,098	200,530	192,225	8,305	455,399	28
485	248,094	123	28,794	8	1,208	67,774	3,196	14,472	50,054	52	980,158	913,103	67,050	1,642,414	29
910	349,283			84	7,015	64,013	1,094	3,828	47,996	11,000	1,244,288	1,218,926	25,882	1,942,777	30
419	196,397	19	4,606	2	300	79,607	1,744	84,117	40,246	3,500	1,280,541	1,278,873	1,663	1,782,887	31
182	78,637	125	24,163	17	1,942	47,560	5,215	2,557	85,488	4,300	223,802	220,144	3,658	502,234	32
785	251,672	52	10,093	24	3,533	77,093	1,698	2,250	70,420	2,730	508,080	477,614	30,566	1,037,313	33
129	49,287	77	17,514	1	70	36,151	2,438	1,862	81,776	75	248,885	240,709	8,176	490,550	34
767	303,226	14	3,905			57,259	4,359	12,751	39,974	175	1,103,659	1,099,628	4,131	1,856,338	35
215	93,952	132	26,496	13	1,896	86,539	4,370	2,513	29,530	126	485,101	474,000	11,101	807,087	36
583	315,031	5	1,118	7	2,000	44,783	839	2,537	41,345	12	553,088	517,407	35,681	1,028,703	37
126	53,237	21	3,628			12,041	4,589	1,912	5,540		202,928	194,257	8,671	343,759	38
796	861,769	163	26,536	20	2,495	98,056	6,775	11,792	69,239	10,200	1,391,413	1,346,974	44,439	2,171,265	39
257	116,887	5	1,674	1	150	48,513	3,864	2,086	33,063		236,825	232,803	4,022	605,715	40
210	88,617	2	885			30,746	1,324	6,607	22,315		531,287	523,842	2,445	743,615	41
166	90,046	10	2,325	4	900	26,632	3,704	2,121	20,647	160	51,609	50,121	1,488	218,833	42
651	216,020	184	18,400	136	15,965	75,126	1,829	3,113	65,184		591,406	579,418	11,988	1,177,621	43
472	253,690	17	4,010	12	2,336	70,250	2,009	23,384	44,032	825	563,657	566,617	2,040	1,165,361	44
530	191,848	70	10,377	21	2,030	112,071	5,459	7,186	95,298	4,123	949,118	913,832	35,286	1,625,932	45
170	60,534	97	18,454			135,502	1,828	1,890	20,760	111,024	793,504	787,163	6,346	1,200,344	46
1,467	571,828	49	8,042	127	14,756	243,537	10,148	32,605	193,304	7,480	2,233,730	2,203,330	35,400	3,658,439	47
2,302	1,152,059	10	2,889			216,398	2,514	3,042	210,342		1,032,008	1,033,857	43,151	3,668,592	48

# WYOMING.

Table 1 shows the manufacturing and mechanical industries of the state of Wyoming, as returned at the censuses of 1870 (the first census at which separate totals were published) to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average num-

ber 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, 1870 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.				PER CENT OF INCREASE.		
	1900	1890	1880	1870	1890 to 1900	1880 to 1890	1870 to 1880
Number of establishments.....	334	190	57	32	75.8	233.3	78.1
Capital.....	\$2,411,435	\$1,411,184	\$364,673	\$889,400	70.9	287.0	169.0
Salaries of officials, clerks, etc., number.....	08	122	( <sup>3</sup> )	( <sup>3</sup> )	119.7		
Salaries.....	\$99,777	\$91,477	( <sup>3</sup> )	( <sup>3</sup> )	9.1		
Wage-earners, average number.....	2,241	1,022	391	502	119.3	161.4	122.1
Total wages.....	\$1,380,140	\$787,160	\$187,798	\$347,678	70.1	319.2	146.0
Men, 16 years and over.....	2,179	957	380	500	127.7	161.8	124.0
Wages.....	\$1,308,764	\$767,982	( <sup>3</sup> )	( <sup>3</sup> )	78.2		
Women, 16 years and over.....	47	60		1	121.7		
Wages.....	\$14,280	\$18,205		( <sup>3</sup> )	121.6		
Children, under 16 years.....	15	5	11	1	200.0	161.5	1,000.0
Wages.....	\$3,096	\$932	( <sup>3</sup> )	( <sup>3</sup> )	215.3		
Miscellaneous expenses.....	\$178,532	\$94,078	( <sup>3</sup> )	( <sup>3</sup> )	89.8		
Cost of materials used.....	\$1,885,440	\$1,084,432	\$601,214	\$280,156	73.9	80.4	114.0
Value of products, including custom work and repairing.....	\$4,301,240	\$2,367,601	\$808,494	\$765,424	81.7	163.6	17.4
Total population.....	69,570	60,705	20,789	9,118	49.2	192.0	128.0
Wage-earners engaged in manufactures.....	2,241	1,022	391	502	119.3	161.4	122.1
Per cent of total population.....	2.6	1.7	1.9	5.5			
Assessed value of real estate.....	( <sup>3</sup> )	\$12,719,221	\$4,485,291	\$863,665		183.6	419.3
Value of land and buildings invested in manufactures <sup>7</sup> .....	\$652,886	\$356,090	( <sup>3</sup> )	( <sup>3</sup> )	83.3		
Per cent of assessed value.....		2.8					

<sup>1</sup> Decrease.

<sup>2</sup> Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 5.)

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

<sup>4</sup> Not reported.

<sup>5</sup> Exclusive of 1,961 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

<sup>6</sup> Figures not available.

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

The increase in the number of establishments reported in Wyoming since 1870—nearly tenfold—would seem to indicate a marked development in the manufacturing and mechanical industries of the state during the past thirty years. Wyoming, however, is chiefly a stock-raising and mining region, and the manufactures are almost entirely limited to products which are for local consumption; therefore, the increase in the number of establishments has been chiefly in the neighborhood industries, which are carried on in small shops, and the capital invested, wages paid, and value of products have not increased in the same ratio. Rich deposits of iron ore have been exploited

and abundant supplies of petroleum discovered in recent years, but the lack of transportation facilities has proved a serious handicap to their rapid development, and, consequently, to the development of the manufactures which are closely allied to these industries.

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 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.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES	Num-ber of estab-lish-ments.	Capital.	Propri-eters and firm mem-bers.	WAGE-EARNERS.		Miscella-neous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Aver-age num-ber.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufac-tured form.	Fuel, freight, etc.	
Total	880	\$2,440,958	412	2,250	\$1,391,471	\$180,131	\$1,897,184	\$458,676	\$1,832,399	\$106,109	\$4,824,752
Hand trades <sup>1</sup>	188	168,505	158	278	201,874	48,214	362,372	900	348,200	18,272	807,934
Governmental establishments	5	14,905		6	4,380	450	8,105	5,856	1,816	983	11,853
Establishments with a product of less than \$500	41	14,618	40	3	951	1,149	8,680	121	8,509		11,659
All other establishments	196	2,242,840	219	1,963	1,184,766	130,318	1,528,077	452,299	978,874	91,904	3,493,806

<sup>1</sup> Includes bicycle and tricycle repairing, 5; blacksmithing and wheelwrighting, 80; boots and shoes, custom work and repairing, 18; carpentering, 19; clothing, men's, custom work and repairing, 17; clothing, women's, dressmaking, 3; furniture, cabinetmaking, repairing, and upholstering, 8; lock and gun smithing, 2; masonry, brick and stone, 3; millinery, custom work, 10; painting, house, sign, etc., 5; plastering and stuccowork, 2; plumbing, and gas and steam fitting, 7; taxidermy, 1; watch, clock, and jewelry repairing, 13.

Of the 380 establishments of all classes shown in this table, 179, or 47.1 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 \$819,593, or only 19 per cent of the total value of the products of the state.

In addition to the 380 active establishments in the state during the census year, with a capital of \$2,440,958, shown in Table 2, there were 3 idle establishments with a capital of \$60,850.

Table 3 presents the totals for the manufacturing industries of the cities withdrawn from the enumerators, and places them in comparison with the totals for the entire state and the state exclusive of these cities.

TABLE 3.—URBAN MANUFACTURES.

	Num-ber of estab-lish-ments.	Capital.	Propri-eters and firm mem-bers.	WAGE-EARNERS.		Miscella-neous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Aver-age num-ber.	Total wages.			
Total for state	334	\$2,411,435	372	2,241	\$1,886,140	\$178,532	\$1,885,449	\$4,801,240
Total for urban manufactures	100	968,576	103	979	682,102	100,798	858,976	1,898,865
Cheyenne	71	645,105	79	589	474,111	71,546	642,428	1,254,074
Laramie	29	323,471	24	390	207,991	29,252	811,548	644,291
Total for state exclusive of urban manufactures	234	1,442,859	269	1,262	704,038	77,734	1,031,473	2,402,375
Per cent of urban manufactures to total for state	29.9	40.2	27.7	43.7	49.2	56.5	45.3	44.1

Of the 334 establishments in the state, 100, or 29.9 per cent, were located in these 2 cities. They furnished employment to 979 wage-earners, or 43.7 per cent of the total number, and the value of their products, \$1,898,865, formed 44.1 per cent of the total for the state.

Table 4 shows the totals for the state by counties.

Table 5 shows the totals for the state by specified industries.

Table 6 shows the totals for all industries in the cities withdrawn from the enumerators.

TABLE 4.—MANUFACTURES

	COUNTIES, MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple- ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
1	The State.....	334	\$2,411,435	\$282,341	\$370,545	\$974,005	\$784,544	372	98	\$99,777	2,241	\$1,386,140
2	Albany.....	35	345,571	20,645	38,975	117,790	168,161	44	15	16,948	409	215,950
3	Bighorn.....	19	51,061	6,550	4,825	24,430	15,256	21	1	1,200	25	11,545
4	Carbon.....	24	117,213	22,370	15,730	42,655	86,458	28	12	9,822	299	180,497
5	Converse.....	13	29,700	1,790	3,435	11,175	13,800	14	1	1,800	18	10,300
6	Crook.....	8	41,020	17,500	1,515	11,740	10,865	8			18	6,160
7	Fremont.....	12	72,358	6,455	18,800	30,615	15,488	19	1	1,500	12	5,477
8	Johnson.....	12	44,325	8,950	6,225	15,550	18,600	11	1	1,200	8	4,890
9	Laramie.....	78	731,780	51,000	182,800	318,315	179,065	86	23	26,423	619	494,151
10	Natrona.....	8	117,465	40,990	11,800	25,400	39,275	10	5	8,900	37	17,443
11	Sheridan.....	41	379,450	49,855	30,750	215,820	83,025	49	13	11,251	407	187,469
12	Sweetwater.....	32	314,090	53,870	33,475	72,275	165,370	26	12	11,438	186	113,433
13	Uinta.....	31	103,440	4,475	13,210	42,797	42,958	34	6	7,680	146	101,239
14	Weston.....	20	62,462	2,291	8,005	45,443	6,723	22	4	2,915	62	37,647

TABLE 5.—MANUFACTURES BY

1	All industries.....	334	\$2,411,435	\$282,341	\$370,545	\$974,005	\$784,544	372	98	\$99,777	2,241	\$1,386,140
2	Bicycle and tricycle repairing.....	5	2,725			1,625	1,100	5			2	1,116
3	Blacksmithing and wheelwrighting.....	30	34,690	4,850	5,450	17,365	17,365	33			21	15,118
4	Boots and shoes, custom work and repairing.....	18	8,335	750	1,065	3,225	2,695	21			4	2,444
5	Bread and other bakery products.....	4	3,050	600	600	1,100	750	4			6	1,801
6	Brick and tile.....	4	6,775		4,275	500	2,000	4			11	4,900
7	Carpentering.....	19	57,850	16,800	3,675	8,600	28,775	20	8	7,850	148	123,837
8	Carriages and wagons.....	7	22,890	4,040	8,350	3,150	12,350	9	1	1,800	18	10,260
9	Cars and general shop construction and repairs by steam railroad companies.....	7	591,725	35,760	152,450	278,796	124,719		23	29,374	883	623,046
10	Clothing, men's, custom work and repairing.....	17	17,975	4,450	4,850	1,500	7,675	18			20	13,139
11	Clothing, women's, dressmaking.....	8	400			300	100	4			9	2,155
12	Flouring and grist mill products.....	10	162,675	8,775	46,800	65,600	41,500	5	8	10,240	14	11,360
13	Furniture, cabinetmaking, repairing, and upholstering.....	3	1,270			450	550	4			3	2,600
14	Lime and cement.....	5	44,100	11,450	8,300	21,200	8,150	16	2	1,500	10	4,540
15	Liquors, malt.....	4	80,301	9,625	25,500	26,400	24,776	3	2	2,400	19	12,800
16	Lumber and timber products.....	52	603,956	112,301	13,610	290,960	187,085	77	14	9,195	559	259,025
17	Lumber, planing mill products, including sash, doors, and blinds.....	3	15,400	1,100	1,100	5,000	8,200	5			7	5,905
18	Masonry, brick and stone.....	3	1,525	300	200	425	600	3			6	4,396
19	Millinery, custom work.....	10	10,460	200	600	260	9,400	11	1	800	13	4,058
20	Mineral and soda waters.....	3	5,375	1,600	400	2,900	475	3			3	1,120
21	Painting, house, sign, etc.....	5	3,100	500		600	2,000	7	8	884	17	11,681
22	Photography.....	5	9,150	1,050		8,050	5,050	5			2	906
23	Plumbing, and gas and steam fitting.....	7	11,695	200		4,950	6,545	7	1	900	20	13,712
24	Printing and publishing, newspapers and periodicals.....	38	143,620	8,960	7,900	91,050	40,710	40	6	5,044	86	47,310
25	Saddlery and harness.....	17	72,009	7,150	12,800	5,292	46,767	18	6	7,516	31	26,968
26	Tinsmithing, coppersmithing, and sheet-iron working.....	11	24,445	1,050	2,250	5,100	16,045	10			13	9,152
27	Tobacco, cigars and cigarettes.....	5	14,675			735	13,940	6			16	8,370
28	Watch, clock, and jewelry repairing.....	13	14,645	1,200	645	5,150	7,650	15			4	3,075
29	All other industries <sup>1</sup> .....	26	440,619	54,860	74,625	139,062	172,572	19	18	22,674	321	164,859

<sup>1</sup> Embraces awnings, tents, and sails, 1; bookbinding and blank book making, 1; brooms and brushes, 1; cheese, butter, and condensed milk, factory product, 2; coke, 1; confectionery, 2; furs, dressed, 1; gas, illuminating and heating, 1; hardware, saddlery, 2; iron and steel, 1; lard, refined, 2; lock and

TABLE 6.—MANUFACTURES IN CITIES

1	Total for cities.....	100	\$998,576	\$65,710	\$192,950	\$395,180	\$314,736	103	39	\$37,751	979	\$632,102
2	Laramie.....	29	323,471	18,560	35,600	102,340	166,971	24	14	16,348	390	207,991
3	Cheyenne.....	71	645,105	47,150	157,350	292,840	147,765	79	25	21,403	589	474,111

## BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not in- cluding internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average num- ber.	Wages.	Average num- ber.	Wages.	Average num- ber.	Wages.										
2,179	\$1,968,764	47	\$14,280	15	\$3,096	\$178,532	\$32,689	\$21,238	\$97,417	\$27,188	\$1,885,449	\$1,833,399	\$52,050	\$4,301,240	1
400	213,622	4	1,056	5	1,272	30,515	4,311	2,101	22,708	1,400	830,180	306,204	23,976	697,086	2
25	11,545					1,870	878	374	918	200	23,744	23,222	522	59,390	3
296	180,072	1	325	2	100	8,607	1,625	1,242	5,740		180,803	125,241	6,562	375,581	4
18	10,800					1,068	454	335	279		25,809	24,821	485	48,850	5
13	6,160					1,158	32	726	400		20,766	20,686	80	39,935	6
12	5,477					2,728	560	612	1,551		41,033	40,537	496	68,800	7
8	4,830					2,876	695	479	1,559	143	17,764	17,411	353	30,157	8
597	486,263	21	7,680	1	208	78,355	10,730	6,524	32,401	23,700	690,692	680,824	9,868	1,443,386	9
32	15,750	5	1,693			6,882	5,680	825	377		31,438	30,922	616	102,687	10
404	186,719	1	550	2	200	14,343	3,113	4,576	6,659		257,230	254,414	2,816	692,542	11
170	110,416	11	1,700	5	1,318	22,944	3,361	1,657	16,526	1,400	153,907	150,191	3,716	372,000	12
143	100,098	8	1,141			8,618	1,107	1,252	5,914	845	117,444	114,415	8,029	255,700	13
61	37,512	1	135			3,568	643	585	2,390		45,139	44,608	631	112,280	14

## SPECIFIED INDUSTRIES: 1900.

2,179	\$1,368,764	47	\$14,280	15	\$3,096	\$178,582	\$32,689	\$21,238	\$97,417	\$27,188	\$1,885,449	\$1,833,399	\$52,050	\$4,301,240	1
2	1,116					813	500	45	208		7,360	7,275	85	14,850	2
21	15,118					3,066	1,574	457	775	200	21,812	20,561	1,251	67,640	3
4	2,444					2,182	1,694	100	388		10,041	9,671	370	24,920	4
4	1,437	1	156	1	208	1,367	1,080	71	216		8,699	8,300	399	17,285	5
11	4,900					216	205		11		1,033	88	950	8,450	6
148	123,837					28,527	1,303	427	3,952	22,845	223,948	223,227	716	445,001	7
18	10,200					1,366	270	406	690		29,227	28,542	685	65,485	8
831	622,446			2	600	37,194		6,250	30,944		430,109	461,700	18,499	1,169,813	9
18	11,801	2	1,338			2,823	1,355	217	421	800	22,542	21,933	609	56,830	10
		9	2,155			310	292		18		1,195	1,120	75	6,704	11
14	11,360					5,243		1,406	3,337		168,735	157,629	1,106	215,447	12
3	2,000					510	476	10	24		3,813	3,283	80	9,607	13
10	4,540					1,287	25	337	875		8,713	1,788	1,925	35,225	14
19	12,300					13,710		900	17,810		11,748	10,798	950	52,540	15
559	256,025					6,303		4,798	1,505		297,476	297,476		831,558	16
7	5,965					744	420	124	200		11,955	11,555	400	26,010	17
6	4,396					943	240	8	100	000	17,035	17,035		26,100	18
		18	4,058			2,174	1,618	81	475		11,775	11,675	100	26,360	19
2	760			1	360	205	72	73	60		2,287	2,287		7,647	20
17	11,581					767	654	17	96		7,850	7,790	60	82,352	21
2	900					1,270	1,128	67	75		4,384	4,240	144	12,030	22
20	13,712					1,583	960	230	398		26,581	26,375	206	61,475	23
69	42,492	10	4,402	7	856	12,306	5,230	1,383	4,850	1,343	32,308	28,885	3,423	157,789	24
31	26,968					2,953	1,333	795	880		65,199	64,760	439	121,711	25
13	9,152					1,786	1,190	167	429		22,150	21,960	190	43,102	26
16	8,370					4,463	780	126	3,577		12,123	12,078	50	31,783	27
4	3,075					4,142	1,469	336	1,137	1,200	5,999	5,713	285	24,302	28
310	161,206	7	2,081	4	1,072	34,321	8,761	2,357	23,516	200	384,767	365,665	19,102	709,331	29

gun smithing, 2; oil, not elsewhere specified, 1; paving and paving materials, 1; plastering and stuccowork, 2; printing and publishing, book and job, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; taxidermy, 1; woolen goods, 1.

## UNDER 20,000 IN POPULATION: 1900.

948	\$672,086	24	\$3,536	7	\$1,480	\$100,798	\$14,366	\$7,742	\$54,190	\$24,500	\$353,976	\$322,272	\$31,704	\$1,398,365	1
380	205,663	4	1,056	6	1,272	29,252	4,311	1,908	22,233	800	311,548	287,972	23,576	644,291	2
568	466,423	20	7,480	1	208	71,546	10,055	5,834	31,957	23,700	542,428	534,300	8,128	1,254,074	3