METROPOLITAN DISTRICTS

NEW YORK CITY CHICAGO PHILADELPHIA PITTSBURGH BOSTON ST. LOUIS

CLEVELAND BUFFALO DETROIT CINCINNATI BALTIMORE MINNEAPOLIS-ST. PAUL SAN FRANCISCO-OAKLAND

(901)

STATISTICS OF MANUFACTURES FOR METROPOLITAN DISTRICTS.

CITIES AND THEIR SUBURBS.

The metropolitan districts for which statistics are presented in this report include not only the area within the corporate limits of the city but also parts of the surrounding territory which may in a general way be regarded as closely associated with the development of the city. Statistics as to the population of important urban centers, which are termed "metropolitan districts," have been published in the Thirteenth Census bulletin entitled "Population of Cities," and the boundaries of the districts as there defined have been adopted for the presentation of statistics relative to manufactures. Although these districts were not defined on an industrial basis, it is believed that they include most of the important factories which are intimately connected with the growth of the central cities.

In many cases manufacturing establishments of considerable size are located just outside the boundaries of cities. Such sites are purposely chosen by manufacturers who wish to secure all the advantages of an urban location, such as a plentiful supply of labor, good shipping facilities, and the like, and at the same time escape as many as possible of the expenses and restrictions which they would incur in building their plants within the city limits. The corporate limits of some cities have been extended so as to take in important manufacturing suburbs, while the boundaries of other towns have remained unchanged, although important manufacturing suburbs have developed. When city limits are established or extended the boundaries are in many instances fixed in such a way as to leave outside certain plants which would be expected to come within the city limits. Obviously, the statistics for a city alone do not always accurately represent its importance from an industrial standpoint. It follows, therefore, that the exact importance of a city as a manufacturing center can be ascertained only by combining with the statistics for establishments actually located in the city, figures for the neighboring manufacturing establishments identified or closely associated with its industrial development.

Method of defining districts.—The metropolitan district as defined for the census of 1910, in a general way consists of the city, together with the civil divisions of urban character lying within 10 miles of the city limits. Divisions which lie partly within and partly without the 10-mile limit are included if either one-half of their total population or one-half of their

total area comes within that limit. State boundaries are disregarded, so that in some cases the metropolitan district lies partly in two states. The area within the 10-mile limit thus defined is, of course, a very different thing from the area of a circle having as its radius a line extending 10 miles from the center of the city; nor is it the area bounded by a line drawn parallel to the city boundary at an exact distance of 10 miles, because in mapping out the district no civil divisions can be subdivided. Hence the outline of the area does not follow geometrical lines, but conforms to the boundaries of the political divisions which are on the outer edge of the included area. Owing to this fact, the boundaries of the adjacent territory thus defined sometimes vary considerably in their actual distance from the city lines. The area considered in this report is the net area, or land surface only.

Districts for which statistics are presented.—The statistics for 13 districts only are shown in the report, as the retabulation necessary to make a similar presentation of the figures for all metropolitan districts in the United States is impracticable. The metropolitan districts were selected for this presentation according to their population.

The central cities of the districts selected are, in the order of the importance of the districts as manufacturing centers, as follows: New York, Chicago, Philadelphia, Pittsburgh, Boston, St. Louis, Cleveland, Buffalo, Detroit, Cincinnati, Baltimore, Minneapolis and St. Paul, and San Francisco and Oakland. The districts are presented in the same order in the report.

Comparison with earlier censuses.—This report is a continuation of a similar report prepared in connection with the census of manufactures of 1904 (Bulletin 101, Industrial Districts, 1905), which contains statistics for 1904 and 1899 for 13 "industrial" districts. The central cities represented in the earlier bulletin are the same as those in the present report, except that Providence was included while Detroit was not.

Owing to the fact that different methods were employed in mapping out "metropolitan" and "industrial" districts, the area of the metropolitan district in 1909 is in most cases very different from that of the industrial district in 1904 and 1899. Since in the case of Boston a strict application of the rule used for determining metropolitan districts at the population census of 910 would have given an area almost identical with the area of the industrial district of Boston in 1904 and 1899, the latter area was for convenience of comparison considered as the metropolitan district. The same was true of New York City, except that Nassau County, and a part of the town of Rye, N. Y., which were not included in the industrial district, were added to the metropolitan district, and Maywood borough, N. J., which was in the industrial district, was not included in the metropolitan district. In the case of the other industrial districts shown in the bulletin mentioned, the areas were so different from the metropolitan districts, as determined by the application of the rule described above, that no attempt was made to secure conformity.

On account of the differences in the areas as defined for the two reports, it was deemed advisable, in compiling the tables showing totals for the districts at the various censuses, to segregate the figures for the territory added and that deducted since 1904 and to compute increases only on the basis of the figures for the area which was comprised in the district at both censuses. In the comparison of selected industries, however, it was deemed best, except for the Pittsburgh district, to make no segregation of the figures for the territory added or deducted since 1904, as only a few of these industries were greatly affected; allusions to such will be found in the text.

Summary of the statistics.—Although the main purpose of this report is to bring out the importance of the individual districts as manufacturing centers in separate sections devoted to each, some interest and significance attach to the summarized statistics as presented in Tables 1, 2, and 3. Table 1 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the 13 districts combined, for the central cities, and for the remainder of the territory comprised in these districts. The percentage which the figure for the combined cities represents of the total for all districts is shown in the case of each item.

Table 1	THIRTEEN	METROPOLITA	N DISTRICTS: 19	69
	Total.	Central cities.	Districts exclusive of central cities.	Per cent central cities are of total for dis- tricts.
Population 1 Number of establishments Porsons engaged in manufac- tures.	18,326,338 78,437	13, 848, 151 66, 135	4,478,187 12,302	75.6 84.3
Proprietors and firm mem- bers Salaried employees Wage carners (average	2,789,034 78,196 363,120	2, 115, 967 67, 113 294, 272	673,067 11,083 68,848	75.9 85.8 81.0
number)	4,442,233 \$7,056,832,487 7,768,863,123	1,754,582 2,640,197 \$4,984,243,416 5,699,226,724	593,136 1,802,036 \$2,072,489,071 2,069,636,399	74.7 59.4 70.6 73.4
Salaries. Wages Materials. Miscellaneous	1,768,942,349446,192,6281,322,749,7215,126,778,739873,142,035	1,347,549,736 358,593,706 988,956,030 3,644,994,395 706,682,593	421,392,613 87,598,922 333,793,691 1,481,784,344 166,459,442	76.2 80.4 74.8 71.1 80.9
Value of products Value added by manufacture	8.658.267.349	6,371,374,946 2,726,380,551	2,286,892,403 805,108,059	73.6 77.2

¹ April 15, 1910.

By reference to Table 3, page 905, it will be seen that in 1909 the 13 metropolitan districts combined embraced 3,416,019 acres (approximately 5,338 square miles). Of this amount 733,158 acres represented the area of the cities and 2,682,861 acres that of the outside territory.

In 1909 the combined districts had 78,437 manufacturing establishments, which gave employment to an average of 2,789,034 persons during the year and paid out \$1,768,942,349 in salaries and wages. Of the persons employed, 2,347,718 were wage earners. These establishments turned out products to the value of \$8,658,267,349, to produce which materials costing \$5,126,778,739 were utilized. The value added by manufacture was thus \$3,531,488,610, which figure best represents the net wealth created by manufacturing operations during the year.

The percentages which the statistics for the group of central cities represent of the totals for the districts range from 59.4 per cent for primary horsepower to 85.8 per cent for proprietors and firm members. The central cities contained 75.6 per cent of the population of the districts in 1910 and contributed 73.6 per cent of the value of manufactured products in 1909.

Comparison with United States totals.—Table 2 is a summary of the statistics of manufacturing industries in 1909 and of the population in 1910 for the United States and for the group of 13 metropolitan districts, together with the percentages which this group reported of the totals for the United States.

Table 2		THIRTEE METROPOLI DISTRICTS:)	TÂN
	United States.	Number or amount,	Per cent of total for United States.
Population 1. Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employees. Wage earners (average number) Primary horsepower Capital. Expenses. Services. Salaries. Wages. Materials. Miscellaneous. Value added by manufacture	268,491 7,678,578 273,265 790,267 6,615,046 18,675,376 848,428,269,706 18,454,089,599 4,365,612,851 3,427,037,884 12,142,709,878 1,945,685,870 20,672,051,870	$\begin{array}{r} 18, 326, 338\\ 78, 437\\ 2, 780, 034\\ 78, 196\\ 363, 120\\ 2, 347, 718\\ 4, 442, 223\\ \$7, 056, 832, 487\\ 7, 768, 863, 123\\ 1, 708, 942, 349\\ 446, 192, 628\\ 1, 322, 749, 721\\ 5, 126, 778, 739\\ 873, 142, 035\\ 8, 658, 267, 349\\ 3, 531, 488, 610\end{array}$	19. 9 29. 2 36, 3 28. 6 45. 9 35. 5 22. 8 38. 3 42. 1 40. 5 38. 6 42. 2 44. 9 41. 9 41. 4

¹ April 15, 1910.

Of the total number of manufacturing establishments in the United States in 1909 (268,491), 78,437, or 29.2 per cent, were in the 13 metropolitan districts, and these establishments contributed products valued at \$8,658,267,349, or 41.9 per cent of the total value of products for the United States. These districts are collectively more important from the industrial standpoint than from that of population. Their combined population represented 19.9 per cent of the

METROPOLITAN DISTRICTS.

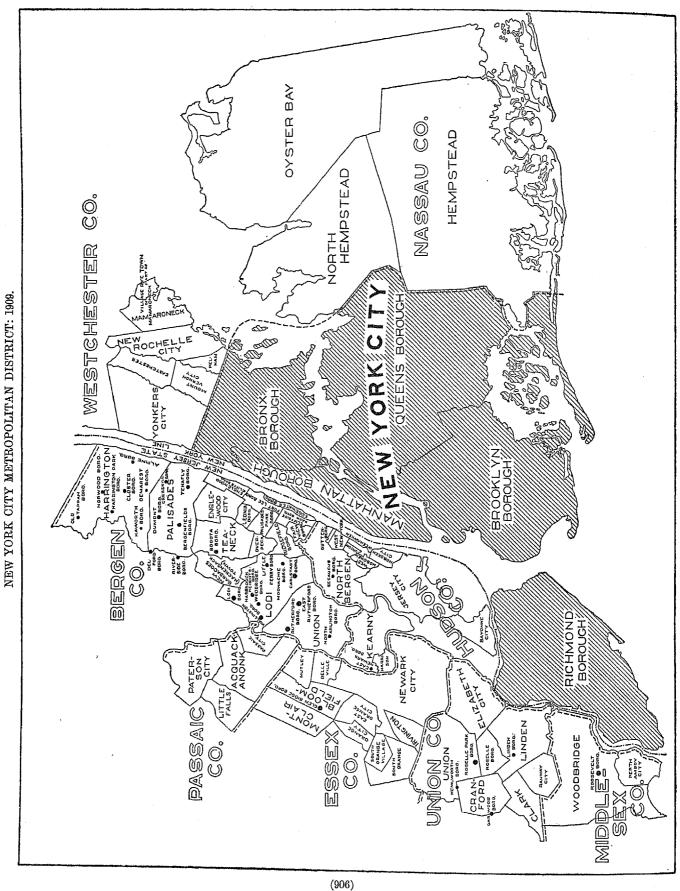
total for the United States in 1910, while the percentages for the items relating to manufactures for 1909 range from 23.8 for primary horsepower to 47.5for salaries. Table 3 is a detailed statement of the statistics of manufactures, population, and area, as reported at the Thirteenth Census for each of the metropolitan districts included in the report.

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MANUFACTURES, POPULATION, AND AREA FOR THIRTEEN SELECTED METROPOLITAN DISTRICTS: 1909.

Table 3				PERSONS	ENGAG	ED IN IN	DUSTRY.						Mincel		Volue
METROPOLITAN DISTRICT.	Popula- tion.1	Area in acres,	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm	Sala- ried em- ployees.	Wage earners (average num-	Primary horse- power.	Capital.	Sal- aries.	Wages.	Materials.	Miscel- laneous ex- penses.	Value of products.	Value added by manu- facture.
					mem- bers.	pioyees.	ber).				Expres	sed in tho	ısands.		
Total	18, 326, 338	3, 416, 019	78, 437	2, 789, 034	78, 196	363, 120	2, 347, 718	4, 442, 233	\$7,056,832	\$446, 193	\$1,322,750	\$5, 126, 779	\$873, 142	\$8, 658, 267	\$3, 531, 488
New York. Chicago Philadelphia. Pittsburgh Boston	6,474,568 2,446,921 1,972,342 1,044,743 1,520,470	409,087 437,733 405,880	9,568 2,369	393[859]	8,600 10,263 2,102	125,055 59,335 39,008 20,692 23,700	325, 924 308, 947 140, 464	739, 229 497, 453 791, 047	642,527	71,161 46,619 24,934	448, 480 195, 466 154, 314 90, 116 103, 321	870, 587 529, 992 366, 892	135,243 79,849 37,878	1,408,780 911,014 578,815	381,022 211,923
St, Louis. Cleveland Buífalo. Detroit.	828, 733 613, 270 488, 661 500, 982	103,174 132,413	2,230 1,964	75,086	1,638	17,873 12,850 9,876 13,596	63,572	216,166 322,280	236,911 280,053	11,190	50,655 36,173	159,897 180,458	27,865 22,109	281,992 279,852	122,095
Cincinnati Baltimore Minneapolis-St. Paul San Francisco-Oakland	563,804 658,715 526,256 686,873	184,660 94,539	2,668	94,954 59,920	2,790 1,674	10,339 9,978	81,825 48,268	$125,080 \\ 119,219$	199,735	11,888 10,872	41, 736 36, 697 27, 725 32, 512	139,107 165,086 166,823 117,441	37, 094 23, 899 20, 069 18, 054	260, 213 244, 340	95,127 77,517

¹ April 15, 1910.



NEW YORK CITY METROPOLITAN DISTRICT.

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Territory included.—The metropolitan district of New York City embraces 616,928 acres of territory, of which 183,555 acres constitute the area of New York, and 433,373 acres the area of the outside territory. The population of the city of New York in 1910 was 4,766,883, and that of the outside territory 1,707,685, the total for the district being 6,474,568.

As defined at the census of 1910, the metropolitan district includes in addition to the central city 15 cities, 41 boroughs, 2 villages, 17 towns, and 17 townships. The following is a list by states and counties of the various primary divisions included in the metropolitan district for 1909. Nassau County, N. Y., and that part of Mamaroneck village, in the town of Rye, have been added to the area since 1904; and the borough of Maywood, N. J., has been deducted from it.

NEW YORK.

New York City, comprising Kings, New York, Queens, and **Richmond** Counties.

NASSAU COUNTY.

Hempstead town. North Hempstead town. Oyster Bay town.

WESTCHESTER COUNTY.

Eastchester town. Mamaroneck town. Mamaroneck village. Mount Vernon city.

New Rochelle city. Pelham town. Yonkers city.

NEW JERSEY.

BERGEN COUNTY.

Alpine borough. Bergenfields borough. Bogota borough. Carlstadt borough. Cliffside Park borough. Closter borough. Cresskill borough. Delford borough. Demarest borough. Dumont borough. East Rutherford borough. Edgewater borough. Englewood city. Englewood Cliffs borough. Fairview borough. Fort Lee borough. Hackensack town (coextensive with New Barbadoes township). Harrington township. Harrington Park borough.

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Hasbrouck Heights borough. Haworth borough. Leonia borough. Little Ferry borough. Lodi borough. Lodi township. Moonachie borough. North Arlington borough. Norwood borough. Old Tappan borough. Overpeck township. Palisades township. Palisades Park borough. Ridgefield borough. Riverside borough. Rutherford borough. Teaneck township. Tenafly borough. Union township. Wallington borough. Woodridge borough.

NEW JERSEY-Continued.

ESSEX COUNTY.

Belleville township. Bloomfield town. East Orange city. Glen Ridge borough. Irvington town. Montclair town.

Kearny town.

Bayonne city. East Newark borough. Guttenberg town. Harrison town. Hoboken city. Jersev City.

Nutley town. Orange city. South Orange township. South Orange village.

Newark city.

HUDSON COUNTY.

North Bergen township. Secaucus borough. Union town. Weehawken township. West Hoboken town. West New York town.

MIDDLESEX COUNTY.

Perth Amboy city (coextensive with Perth Amboy township).

PASSAIC COUNTY,

Acquackanonk township. Little Falls township.

Passaic city. Paterson city.

Roosevelt borough.

Woodbridge township.

UNION COUNTY.

Clark township.	[Linden township.
Cranford township.	Rahway city.
Elizabeth city.	Roselle borough.
Garwood borough.	Roselle Park borough.
Kenilworth borough.	Union township.
Linden borough.	-

On page 906 is an outline map of the metropolitan district as constituted in 1909, showing the various primary divisions included.

Summary for the district.-Table 4 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the New York City metropolitan district, for 22 incorporated places and for the remainder of the district. The percentage which the figure for New York City represents of the total for the district is shown in the case of each item.

In 1909 the New York City metropolitan district had 31,782 manufacturing establishments, which gave employment to an average of 948,706 persons during the year, and paid out \$607,755,267 in salaries and wages. Of the persons employed, 789,175 were wage earners. These establishments turned out products

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to the value of \$2,970,143,382, to produce which materials costing \$1,710,324,660 were utilized. The value added by manufacture was thus \$1,259,818,722. The New York City district ranked first in 1909 among all the metropolitan districts of the United States in the value of its manufactured products.

In the New York City district the greater part of the value of the manufactured products of the district was reported by factories within the central city, which is the leading commercial city and the industrial metropolis of the United States. New York City contained nearly three-fourths (73.6 per cent) of the population of the district in 1910, and contributed more than two-thirds (68.3 per cent) of the value of products in 1909. Its manufacturing establishments constituted over four-fifths (81.6 per.cent) of all in the district and gave employment to more than seven-tenths of the wage earners (70.2 per cent).

Table 4			PERSO	NS ENGAGED	IN MANUFAC	TURES.		
	Population.1	Number of establish- ments.	Total.	Proprietors and firm members,	Salaried employees.	Wage earn- ers (average number).	Primary horsepower.	Capital.
The district	6, 474, 568	31, 782	948,706	34,476	125, 055	789, 175	820, 413	\$2, 117, 433, 047
New York City	4, 766, 883	25,938	680, 510	29,055	97, 453	554,002	429,003	1, 364, 352, 683
District exclusive of New York City-total	1,707,685	5,844	268, 196	5,421	27,602	235, 173	391, 410	753,080,364
Mount Vernon New Rochelle. Yonkers. Bayonne. Bloomfield.	28, 807 79, 803	90 42 158 97 45	1,492 882 13,746 8,790 3,435	76 39 150 84 35	209 108 885 1,187 443	1,207 735 12,711 7,519 2,957	$1,590 \\ 620 \\ 16,978 \\ 28,094 \\ 0,031$	3, 201, 654 1, 377, 185 58, 768, 555 62, 280, 685 7, 768, 644
East Orange Elizabeth Hackensack. Harrison. Hoboken.	34, 371 73, 409 14, 050 14, 498 70, 324	42 163 46 54 244	1,861 13,670 873 7,339 9,339	45 132 44 33 206	430 801 91 806 1,033	1,38612,7377386,5008,100	1,08720,1241,0218,02111,108	3, 849, 230 26, 773, 807 1, 845, 897 20, 602, 053 19, 898, 095
Irvington Jersey City. Kearny. Montclair Newark.	$\begin{array}{c} 11,877\\ 267,779\\ 18,659\\ 21,550\\ 347,469\end{array}$	51 745 18 23 1,858	656 30,239 3,111 321 69,986	40 614 14 17 1,704	76 4,171 277 52 8,327	540 25, 454 2, 820 252 59, 955	$967 \\ 35,917 \\ 5,879 \\ 1,245 \\ 78,263$	$\begin{array}{r} 1,405,795\\79,793,932\\6,551,151\\1,104,570\\154,232,686\end{array}$
Orange Passaic Paterson Perth Amboy.	29, 630 54, 773 125, 600 32, 121	85 169 702 80	5,054 16,386 35,116 6,595	65 145 871 55	606 1, 155 2, 241 674	4,383 15,086 32,004 5,866	5,962 23,245 35,889 22,314	$\begin{array}{c} 11, 147, 977\\ 42, 840, 818\\ 66, 401, 725\\ 25, 100, 426 \end{array}$
Union West Hoboken. West New York. Remainder	21, 023 35, 403 13, 560 311, 385	83 137 66 846	3,155 3,179 1,779 31,192	83 154 70 745	178 243 201 3,408	2,894 2,782 1,508 27,039	3,034 1,477 1,443 81,101	$\begin{array}{r} 10,910,251\\ 4,861,242\\ 4,162,662\\ 138,201,324 \end{array}$
Per cent New York City is of total for district	73. 6	81.6	71.7	84.3	77.9	70.2	52.3	64.4

			EXPE	ISES.				
	Aggregate,		Services.			Miscel-	Value of products.	Value added by manu- facture.
	Aggregate,	Total.	Salaries.	Wages,	Materials.	laneous.		
The district	\$2, 660, 374, 879	\$607, 755, 267	\$159,275,011	\$448, 480, 256	\$1,710,324,660	\$342, 294, 952	\$2,970,143,382	\$1, 259, 818, 722
New York City.	1, 803, 961, 431	445,771,857	122,073,725	323, 698, 132	1,092,155,333	266,034,241	2,029,692,576	937, 537, 243
District exclusive of New York City—total		161, 983, 410	37,201,286	124, 782, 124	618, 169, 327	76, 260, 711	940, 450, 806	322, 281, 479
Mount Vernon. New Rochelle. Yonkers. Bayonne. Bloomfield.	1,530,439	1,010,518 594,831 8,024,498 6,537,438 1,891,323	209,007 113,118 1,298,380 1,762,181 590,790	801, 511 481, 713 6, 726, 118 4, 775, 257 1, 300, 533	$\begin{array}{r} 1,285,557\\814,140\\43,201,019\\58,932,541\\2,300,773\end{array}$	$\begin{array}{r} 322,064\\121,468\\3,264,681\\3,884,749\\1,293,582\end{array}$	$\begin{array}{r} 3,376,415\\ 1,668,724\\ 59,333,865\\ 73,640,900\\ 5,894,710\\ \end{array}$	2,090,858 854,584 16,131,946 14,708,359 3,593,937
East Orange. Elizabeth Hackensack. Harrison Hoboken.	26,560,257 1,787,311 11,241,701	$\substack{1, 122, 402\\8, 565, 061\\478, 674\\4, 597, 295\\5, 917, 896}$	$\begin{array}{r} 264,423\\ 1,052,344\\ 118,504\\ 925,134\\ 1,364,984 \end{array}$	$\begin{array}{r} 857,979\\ 7,512,717\\ 360,170\\ 3,672,161\\ 4,552,912 \end{array}$	$\begin{array}{r} 1,767,600\\ 16,428,569\\ 899,340\\ 5,413,473\\ 9,469,108 \end{array}$	$\begin{array}{r} 406,383\\ 1,566,627\\ 409,297\\ 1,230,933\\ 2,348,568\end{array}$	3,724,879 29,147,334 1,077,966 13,142,377 20,413,015	$\begin{array}{c} 1,957,279\\ 12,718,765\\ 1,078,026\\ 7,728,904\\ 10,943,907 \end{array}$
Irvington Jersey City Kearny Montelair Newark	120, 141, 941 7, 415, 452 982, 042 181, 530, 641	$\begin{array}{r} 380,529\\ 18,264,200\\ 1,809,477\\ 182,472\\ 44,852,938 \end{array}$	102,6565,048,633269,13243,71111,777,343	277,873 13,215,567 1,540,345 138,761 33,075,595	$\begin{array}{r} 2,343,001\\ 89,317,227\\ 5,263,062\\ 668,579\\ 114,679,408\end{array}$	$\begin{array}{r} 82,760\\12,560,514\\842,913\\130,991\\21,998,295\end{array}$	$\begin{array}{r} 3,017,824\\ 128,774,978\\ 8,306,276\\ 1,025,585\\ 202,511,520\end{array}$	$\begin{array}{r} 674,823\\39,457,751\\3,043,214\\357,006\\87,832,112\end{array}$
Orange. Passaic. Paterson Perth Amboy.	35,018,909 62,876,266 69,109,510	3,235,190 8,052,870 18,185,459 3,665,330	772, 282 1, 783, 955 2, 980, 915 986, 001	2,462,908 6,268,915 15,204,544 2,679,329	3,688,432 24,334,845 34,727,598 63,932,054	1,438,995 2,631,194 9,963,209 1,512,126	9, 175, 910 41, 729, 257 69, 584, 351 73, 092, 703	5, 487, 478 17, 394, 412 34, 856, 753 9, 160, 649
Union West Hoboken. West New York. Remainder.	$\begin{array}{r} 6,827,482\\ 4,860,311\\ 8,953,573\\ 153,427,106 \end{array}$	$1,640,485\\1,692,857\\965,826\\20,315,841$	229,669 267,930 236,588 5,003,606	$1,410,816 \\ 1,424,927 \\ 729,238 \\ 15,312,235$	3,538,585 2,488,025 7,408,709 125,266,782	1,648,412 679,429 579,038 7,844,483	7,941,047 5,577,439 9,273,717 168,120,014	4, 402, 462 3, 089, 414 1, 865, 008 42, 853, 232
Per cent New York City is of total for district	67.8	73.3	76.6	72.2	63.9	77.7	68.3	74.4

¹ April 15, 1910.

NEW YORK CITY METROPOLITAN DISTRICT.

Of the places outside of New York City for which statistics are given separately, Newark had the largest value of products in 1909, representing 6.8 per cent of the total for the metropolitan district. The population of Newark in 1910 formed 5.4 per cent of the total for the district.

The part of the district that was outside the cities and towns for which separate figures are given, with an aggregate population equal to 4.8 per cent of the total for the district, contributed 5.7 per cent of the value of the products.

The value of the manufactured products of New York City in 1909 was nearly 60 per cent greater than was reported by Chicago, the city next in rank in this respect, and it was also greater than the value of products reported by any state other than New York, with the exception of Pennsylvania. New York City ranked first in value of products among the cities of the United States in 5 of the 15 leading manufacturing industries of the United States, namely, the making of women's clothing, with over two-thirds (69.3 per cent) of the total for the United States; the making of men's clothing, including shirts, with 38.4 per cent of the total; printing and publishing, with 24.9 per cent; the bakery industry, with 15.6 per cent; and the manufacture of tobacco products, with 15 per cent.

The 22 cities and towns in the district exclusive of New York City for which separate statistics are shown in the table together reported 26 per cent of the value of products for the district in 1909 and a somewhat lower proportion of the population in 1910—22 per cent. In these cities and towns, which are mentioned here according to rank in value of products, the leading industry or industries were as follows: Newark, the smelting and refining of copper, the tanning, currying, and finishing of leather, foundries and machine shops, the manufacture of jewelry, and the brewery industry; Jersey City, slaughtering and meat packing, the manufacture of tobacco products, the gas and soap industries, the refining of sugar, and the refining of petroleum; Bay-

onne, the refining of petroleum and smelting and refining from clippings, sweepings, and scrap; Perth Amboy, the smelting and refining of copper and the manufacture of wire; Paterson, the silk-goods industry and the dyeing and finishing of textiles; Yonkers, the refining of sugar and the manufacture of carpets and rugs; Passaic, the manufacture of woolen and worsted goods and of cotton goods; Elizabeth, the sewing-machine industry and the manufacture of wire; Hoboken and Harrison, foundries and machine shops; West New York, the refining of lard and the manufacture of cottonseed oil and cake; Orange, the manufacture of phonographs and graphophones and of fur-felt hats; Kearny, slaughtering and meat packing and the manufacture of oilcloth and linoleum; Union, the silk-goods industry; Bloomfield, the manufacture of electrical machinery, apparatus, and supplies; West Hoboken, the silk-goods industry; East Orange, the manufacture of electrical machinery, apparatus, and supplies; Mount Vernon, the manufacture of brass and bronze products; Irvington, the reducing and refining of gold and silver from clippings, sweepings, and scrap; Hackensack, the silk-goods industry; New Rochelle, printing and publishing; and Montclair, the paper-goods industry.

Considerable industrial activity was manifested in 1909 by some of the places for which statistics are not shown separately. Among these were the following, with leading industries as stated: Weehawken, the manufacture of electrical machinery, apparatus, and supplies and of wall paper; Garwood, electrical machinery, apparatus, and supplies; Lodi, the dyeing and finishing of textiles; Belleville, the manufacture of fur-felt hats and of brass and bronze products; Rahway, printing and publishing and the manufacture of steel castings; Edgewater, the chemical industry; and Nutley, the manufacture of cutlery and of artificial leather.

Comparison with earlier censuses.—Table 5 is a comparative summary of the statistics for 1909, 1904, and 1899, together with the percentages of increase.

Table 5		1909			1904			1899		PER CENT OF INCREASE.			
	¹ 6, 474, 568 86, 215 ² 6, 3 31, 782 186		Remainder of district. ¹	Total.	Terri- tory de- ducted since 1904.	Remainder of district. ¹	Total.	Terri- tory de- ducted since 1904.	Remainder of district. ¹	1899- 1909	1904- 1909		
Population Number of establishments Persons engaged in manufactures Proprietors and firm members Salaried employees Wage earners (average num-	² 6, 474, 568 31, 782 948, 706 34, 476 125, 055	1,398	31.596	³ 5, 294, 682 25, 257 764, 330 28, 870 80, 472	4 138	³ 5, 293, 995 25, 253 764, 192 28, 870 80, 456	(⁶) (⁴)	4 536 3 85 7	23,259	35.8	24.0 18.7	8. 	
	$\begin{array}{r} 789, 175\\820, 413\\\$2, 117, 433, 047\\2, 660, 374, 879\\607, 755, 267\\159, 275, 011\\448, 480, 256\\1, 710, 324, 660\\342, 294, 952\end{array}$	1,100 2,524 \$3,839,007 2,134,631 691,479 80,861 610,618 1,255,292 187,860	783,075 817,889 \$2,113,594,040 2,658,240,248 607,063,788 159,194,150 447,869,638 1,709,069,368 342,107,092	$\begin{array}{r} 654,988\\ 578,371\\ \$1,572,628,947\\ 1,905,102,665\\ 436,238,272\\ 94,547,089\\ 341,691,183\\ 1,209,010,634\\ 259,853,759\end{array}$	122 605 \$585,677 568,804 101,154 37,534 63,620 398,892 68,758	$\begin{array}{c} 654,866\\ 577,766\\ $1,572,043,270\\ 1,904,533,861\\ 436,137,118\\ 94,509,555\\ 341,627,563\\ 1,208,611,742\\ 259,785,001 \end{array}$	539, 690 (*) \$1, 224, 823, 447 1, 404, 978, 582 332, 657, 663 66, 057, 921 266, 599, 742 910, 389, 938 161, 930, 981	78 (°) \$189,884 162,636 46,306 14,800 31,506 99,203 17,127	$\begin{array}{c} 539, 612\\ (*)\\ 1, 224, 633, 563\\ 1, 404, 815, 946\\ 332, 611, 357\\ 66, 043, 121\\ 266, 568, 236\\ 910, 220, 735\\ 161, 913, 854\\ 1, 614, 037, 399\\ 703, 746, 664\end{array}$	46.0 72.6 89.2 82.5 141.0 68.0 87.7 111.3 83.9	41.6 34.4 39.6 39.2 68.4 31.1 41.4 31.7	28. 35. 31. 43. 28. 32. 60.	

Figures in this column used in computing percentages of increase.
 April 15, 1910.

² State censuses of June 1, 1905. ⁴ June 1, 1900. Figures not available

For purpose of accurate comparison the statistics for 1909 have been adjusted by segregating the figures of the territory added since 1904; and those for 1904 and 1899 by segregating the figures for the territory deducted since 1904.

The percentages of increase in all items, except average number of wage earners and miscellaneous expenses, were greater during the later five-year period 1904–1909 than during the period 1899–1904. The percentages of increase during the decade were especially large for salaries, salaried employees, and miscellaneous expenses. The average number of wage earners increased 46 per cent, wages 68 per cent, and the value of products 83.9 per cent.

The rate of increase from 1904 to 1909 in the amount of primary horsepower used was 41.6 per cent. Statistics as to the primary power used in 1899 are not available.

The proportions of the population and manufactures in the outside territory of the metropolitan district are in general increasing, as is indicated by the percentages in Table 6.

Table 6	PER CENT OF NEW FOR DIST	TERRITORY YORK CITY I FRICT.	f OUTSIDE SOFTOTAL
	1909 ¹	1904 2	1899 ²
Population Number of establishments Persons engaged in manufactures Proprietors and firm members Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses Salaries. Wages. Materials. Miseellaneous. Value of products. Value added by manufacture.	28.2	$\begin{array}{c} 24.2\\ 17.5\\ 27.6\\ 14.6\\ 21.0\\ 29.0\\ 44.1\\ 33.7\\ 20.3\\ 26.4\\ 32.3\\ 20.4\\ 32.3\\ 20.4\\ 22.4$	24.3 17.3 (³) 20.2 28.0 (³) 30.3 27.8 25.3 21.8 25.3 21.8 21.8 26.2 30.3 30.3 11.8 6 27.3 23.5

¹ Based on figures for district as constituted in 1909, exclusive of territory added
 ³ Based on figures for district as constituted in 1904, exclusive of territory
 ⁴ deducted since 1904.
 ⁵ Figures not available.

The proportion of the population of the district reported from the territory outside of New York City increased from 24.3 per cent in 1900 to 25.4 per cent in 1910; while the proportion of the value of products increased from 27.3 per cent in 1899 to 28.8 per cent in 1904 and 31.6 per cent in 1909.

Leading industries.—Table 7 (p. 911) gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the industries shown separately in the table there are 20 for which totals for the district can not be published, because to do so would disclose individual operations; and 3 which were not carried on in the part of the district which is outside the corporate limits of New York City. In the case of all but 3 of the 20 industries of the former class the statistics shown are figures for New York City exclusively.

The leading industry of the New York metropolitan district in 1909 was the manufacture of women's clothing. The 3,058 establishments engaged in the industry there in that year reported products valued at \$270,646,086, or 9.1 per cent of the value of products of all industries in the district. The manufacture of men's clothing, including shirts, ranked next, with 2,630 establishments and products valued at \$224,-943,048, or 7.6 per cent of the total. Other important industries, with the value of their products, were: Printing and publishing, \$194,486,953; slaughtering and meat packing, \$131,081,148; foundries and machine shops, \$107,297,665; the manufacture of tobacco products, \$78,783,942; the bakery industry, \$77,-472,491; the manufacture of silk goods, including the operations of throwsters, \$74,570,282; the brewery industry, \$72,850,405; the making of millinery and lace goods, \$56,072,956.

Among the more important industries that can not be shown separately without disclosing the operations of individual establishments are the smelting and refining of copper, the refining of sugar, the refining of petroleum, the roasting and grinding of coffee, the smelting and refining of lead, the manufacture of carpets and rugs other than rag, of wire, of flour-mill and gristmill products, and of sewing machines and attachments, lapidary work, the manufacture of lead pencils, of oilcloth and linoleum, and the distillation of liquors. Four of these had products in 1909 valued at very much more than \$10,000,000.

Comparative summary, by industries.—The number of establishments, average number of wage earners, and value of products for such of the industries as can be shown separately and had a value of products amounting to \$10,000,000 or more in 1909 are given in Table 8 (p. 913) for the district as constituted in 1909, 1904, and 1899, respectively.

The greatest absolute increase in value of products shown for any single industry during the decade, amounting to \$165,984,908, or 158.6 per cent, was that for the women's clothing industry. The greatest relative increase for any of the industries included in the table, 673.4 per cent, was reported for smelting and refining from clippings, sweepings, and scrap.

An important industry not given in the comparative table is the manufacture of men's furnishing goods. At the censuses of 1904 and 1899 some of the establishments reporting as chief products suspenders, garters, and elastic woven goods were excluded from this industry. As it is not practicable to segregate these establishments, no proper comparison is possible.

NEW YORK CITY METROPOLITAN DISTRICT.

SUMMARY FOR THE NEW YORK CITY METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 7		PER		NGAGE STRY.	D IN								
INDUSTRY.	Num- ber of estab- lish- ments.		Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses,	Value of products.	Value added by manu- facture.
All industries	31, 782	948,706	34, 476	125,055	789, 175	820, 413	\$2,117,433,047	\$159,275,011	\$448,480,256	\$1,710,324,660	\$342,294,952	\$2,970,143,382	\$1,259,818,722
Artificial flowers and feathers and plumes. Artificial stone. Automobiles, including bodies and	328 78	9,867 658	431 58	906 62	8, 530 538	216 724	7,989,321 1,159,539	1,026,438 54,221	3,459,096 328,488	12,268,957 396,752	1,452,932 101,374	21, 197, 040 1, 076, 577	8, 928, 083 679, 825
Automobiles, including bodies and parts Awnings, tents, and sails Bags, other than paper	73 102 1 14	3,183 794 893	38 105 9	406 95 82	2, 739 594 802	2,066 295 397	5,835,500 935,858 1,467,779	617,776 89,187 122,360	2,051,508 381,899 277,031	3,267,755 944,647 3,407,866	1,197,937 158,933 193,714	7, 768, 871 1, 875, 687 4, 093, 706	4,501,116 931,040 685,840
Bags, paper. Baskets, and rattan and willow ware. Blacking and cleansing and polish- ing preparations.	1 I	441 505	9 32	65 38	367 435	200 167	945,286 476,225	179,919	155,542	1,057,550	88,009	1, 682, 054 1, 074, 259	624,504 620,776
Blacking and cleansing and polish- ing preparations. Boots and shoes, including cut stock	89	936	69	283	584	486	1,274,916	42, 686 341, 041	299,327 252,266	453, 483 1, 401, 278	114,737 574,342	1,074,259 2,831,314	620,776 1,430,036
and findings	$197 \\ {}^{1}31$	10,785 1,396	206 32	911 108	9,668 1,256	3,062 913	10,331,048 930,242	1,169,579 138,760	5,181,342 558,450	11,654,728 915,826	1,535,178 133,685	21, 331, 290 1, 842, 913	9,676,562 927,087
Boxes, fancy and paper Brass and bronze products Bread and other bakery products Brick and tile Brushes.	244 221 3,188 19 100	9,882 5,658 25,624 869 2,263	271 211 3,566 18 107	672 629 2, 840 39 258	8,939 4,818 19,218 812 1,898	2,640 7,083 8,206 2,868 1,185	6,124,236 9,254,024 31,867,231 1,234,288 3,022,866	758, 541	3, 422, 516 2, 869, 378 12, 988, 285 395, 666 838, 550	5,031,960 7,016,892 47,302,350 194,757 2,071,214	${ \begin{array}{c} 1,157,352\\ 1,261,510\\ 5,509,952\\ 99,723\\ 426,210 \end{array} }$	11, 664, 690 13, 899, 127 77, 472, 491 949, 802 4, 236, 023	6,032,730 6,882,235 30,170,141 755,045 2,164,809
Buttons Canning and preserving Carriages and wagons and materials. Cars and general shop construction and repairs by steam-railroad com- panies	206 106 352	5,942 1,623 3,595	266 113 415	359 279 177	5,317 1,231 3,003	2,065 1,394 2,688	3,816,014 4,002,697 5,202,973	437, 109 303, 567 255, 434	2,220,200 595,816 2,007,216	3, 494, 352 3, 996, 013 2, 284, 155	521,668 759,638 492,102	7,851,408 6,394,143 6,132,571	4,357,058 2,398,130 3,848,416
panies. Cars and general shop construction and repairs by street-railroad com- panies.	15	7,220		693	6,527	6,310	4,549,246	539, 632	3, 975, 199	4, 478, 889	368, 434	9,362,154	4,883,265
Chemicals. Clocks and watches, including cases	19 68	4,384 6,233	 18	249 1,010	4, 135 5, 205	5, 050 15, 043	9, 727, 277 30, 592, 316	257, 740 1, 821, 533	2,626,117 3,201,333	3,076,782 19,465,937	319,970 2,561,521	6, 280, 610 31, 453, 662	3, 203, 828 11, 987, 725
and materials. Clothing, men's, including shirts Clothing, women's. Collins, burial cases, and under- takers' goods.	² 26 2,630 3,058	2,162 82,618 113,859	9 3,781 4,410	194 6,963 12,280	1,959 71,874 97,169	853 8, 214 11, 699	5,237,218 92,480,114 82,872,421	294, 751 8, 301, 209 13, 351, 994	1,109,602 40,105,627 54,484,844	1,771,169 115,831,472 146,799,740	352,371 39,662,224 24,933,901	4, 214, 754 224, 943, 048 270, 646, 086	2,443,585 109,111,576 123,846,346
takers' goods Confectionery Cooperage and wooden goods, not	1 15 166	731 8,717	14 153	188 1,169	529 7,395	600 7,128	2,101,397 11,329,870	199,283 1,432,917	287,663 2,710,620	1,213,129 14,336,920	196,875 2,719,915	2, 102, 009 23, 297, 461	888,880 8,960,541
Copper, tin, and sheet-iron products. Cordage and twine and jute and	70 614	2, 435 16, 202	65 572	·	2,245 14,150	2, 963 9, 248	6, 681, 717 30, 549, 065	174, 982 1, 848, 360	1,070,361 8,217,995	4,867,356 17,343,960	373,842 2,220,470	7,065,105 32,831,045	2,197,749 15,487,085
linen goods Cordials and sirups	³ 14 35	6,626 344	2 34	$253 \\ 140$	6,371 170	13,635 90	13, 730, 735 791, 916	353,503 165,544	2,177,320 97,607	6, 152, 150 934, 063	$1,318,787 \\ 186,872$	$10,168,084 \\ 1,597,709$	4,015,934 663,646
Cork, cutting Corsets Cotton goods, including cotton small	40 50	1,210 4,458	30 42	98 443	$1,082 \\ 3,973$	1,085 901	1,436,950 3,947,876	118, 232 576, 376	408,596 1,516,570	1,397,820 3,477,259	$183,129 \\ 1,367,385$	2,301,413 7,946,519	903, 593 4, 469, 260
Cutlery and tools, not elsewhere	27 127	5,802 3,049	20 122	234 310	5, 548 2, 617	13,240	15,358,650 3,695,112	367,291	2,241,033	7,354,512	808,820	11,963,362	4,608,850
specified. Dentists' materials. Dyeing and finishing textiles. Dyestuffs and extracts.	15 123 24	345 12,332 778	9 94 11	88	2,017 248 11,407 522	2,661 236 19,603 3,761	3,695,112 2,104,569 24,638,493 4,708,332	398, 543 139, 518 1, 505, 647 411, 715	1,353,278 135,784 5,465,548 342,305	1,267,502 4,543,689 8,099,303 4,108,284	569,516 126,423 1,885,668 621,112	3,917,437 5,023,443 19,708,877 6,464,799	2, 649, 935 479, 754 11, 609, 574 2, 356, 515
Electrical machinery, apparatus, and supplies. Electroplating Engraving and diesinking	224 109 85	19, 731 727 565	97 135 107	3,124 56 43	16,510 536 415		39, 639, 581 360, 068 349, 973	3, 792, 667 48, 773 47, 131	8,846,952 349,317 272,727	21,017,199 227,090 100,458	5,312,274 94,519 72,198	42, 925, 196 976, 190 754, 545	21, 907, 997 749, 100 654, 087
Fancy articles, not elsewhere speci- fied Fertilizers. Fireworks.	186 13 8	4,792 1,295 608	208 2 3	659 144 44	3,925 1,149 561	3, 101 2, 275 130	6, 960, 526 7, 072, 644 910, 301	785, 449 227, 409 82, 880	1,859,443 588,440 238,577	$3,650,942 \\5,322,004 \\460,225$	1,128,245 433,111 139,589	8,694,052 7,254,333 984,685	5,043,110 1,932,329 524,460
Fireworks. Flags, banners, regalia, society badges, and emblems	59 71	759 432	64 69	$102 \\ 155$	593 208	117 128	824, 952 930, 094	81,104 190,206	225, 740 110, 625	745, 335 754, 853	177, 745 188, 058	1,435,091 1,466,874	689, 756 712, 021
Food preparations. Foundry and machine-shop prod- ucts.	133 1,346	2,972 50,775	147 1,079	560 7,233	2,265 42,463	3, 503 59, 353	5, 267, 443 140, 704, 324	803, 554 9, 966, 994	1,009,184 28,550,009	6,267,421 42,151,844	1,332,271 12,353,491	10,213,393 107,297,665	3, 945, 972 65, 145, 821
Fur goods. Furnishing goods, men's Furniture and refrigerators	1 821 330 441 53	10,719 10,750 11,508 1,150	1,264 417 494 70	1,631	42, 463 7, 824 8, 729 9, 894 900	857 1, 428 8, 971	18,635,692 13,386,885	1,693,228 1,925,320 1,349,119	5,482,884 3,762,229 6,157,325 656,904	23,434,150 17,963,707 10,243,756 593,175	3,236,792 2,546,743 2,192,394 139,922	39,874,386 29,264,496 22,543,905 1,834,669	65, 145, 821 16, 440, 236 11, 300, 789 12, 300, 149 1, 241, 494
Furs, dressed. Gas and electric fixtures and lamps and reflectors. Gas, illuminating and heating Glass.	53 169 31 9	6,789 8,886 948	141 	90 1,205 2,825 61	5,443	1,397 3,413 28,881 450	1, 271, 104 11, 479, 073 231, 325, 446 1, 266, 985	113,671 1,487,909 2,952,102 95,277	3, 238, 667 3, 888, 165 486, 696	6,073,357 15,425,665 280,502	1,477,929 9,951,698 106,528	13,655,723 43,934,683 1,127,865	7, 582, 366 28, 509, 018 847, 363
Glass, cutting, staining, and orna- menting	144	2,684	3 167	-	2,301	450 630	2, 252, 506	290, 617	1, 505, 239	1,298,170	359, 726	3,954,295	2,656,125
Gold and silver, leaf and foil Grease and tallow Hair work Hand stamps and steneils and brands Hat and cap materials	53 42 1 126 50 41	603 823 2,704 444	63 43 160 49 41	15 63 253 75	525 717 2,291 320 1,261	$ \begin{array}{r} 66 \\ 1,401 \\ 2 \\ 106 \\ 1.230 \end{array} $	380, 994 3, 576, 687 3, 249, 618 370, 418 3, 351, 914	10, 388 101, 791 229, 862 83, 282 138, 179	271,835 417,260 1,050,412 193,695 515,118	$595, 632 \\1, 682, 517 \\4, 482, 240 \\156, 736 \\3, 444, 123$	74, 338 391, 196 608, 258 65, 960 188, 329	1,066,846 2,759,728 7,817,490 586,110 4,771,957	471, 214 1, 077, 211 3, 335, 250 429, 374 1, 327, 834

¹ Excluding statistics for establishments located outside of the corporate limits of New York City, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries." ² Excluding statistics for establishments located outside of the corporate limits of New York City and of Newark, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries." ³ Excluding statistics for establishments located outside of the corporate limits of New York City and of Newark, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

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SUMMARY FOR THE NEW YORK CITY METROPOLITAN DISTRICT, BY INDUSTRIES: 1909-Continued.

Table 7-Continued.		PEI		INGAGE	d IN							1	
INDUSTRY,	Num- ber of estab- lish ments.		Pro- prie- tors -and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- lancous expenses.	Value of products.	Value added by manu- facture.
Hats and caps, other than felt, straw, and wool Hats, fur-felt. Hats, straw House-furnishing goods House-furnishing goods, not else- where specified	¹ 226 88 44 201 1 73	3,822 8,951 2,526 6,717 899	324 02 49 222 86	288 635 351 546 111	3,210 8,224 2,126 5,949 702	309 6,887 550 1,731 338	\$2,687,949 9,880,172 3,071,865 8,466,808	\$378, 191 788, 896 499, 587 709, 817	4,814,828 1,329,271 2,537,863	\$3,730,433 . 8,076,808 3,602,124 8,066,493	1,504,276 497,693 1,236,356	14, 555, 024	\$3, 784, 491 8, 175, 746 3, 317, 590 6, 488, 531
The printing	60 1 26	1,099 883	23 18	154 357	922 508	19, 842 2, 199	1,225,116 6,588,094 2,997,809	113,358 254,732 573,786	341,274 730,672 358,248	1, 503, 291 1, 025, 759 1, 849, 748	726,821	2,534,238 3,681,401 3,965,174	1,030,947 2,655,642 2,115,426
Iron and steel, steel works and roll- ing mills. Iron and steel forgings	75 12 13	2,002 3,152 766	66 	277 342 107	1,659 2,810 649	2, 101 15, 885 1, 718	4, 522, 045 20, 781, 838 1, 913, 756	339,716 417,088 184,247	1,032,353 1,723,824 451,078	988,077 3,326,160 622,730	377.925	2, 935, 982 6, 717, 834 1, 719, 289	1,947,905 3,391,674
Jewelry and instrument cases. Jowelry and instrument cases. Kaolin and ground earths. Lead, bar, pipe, and sheet. Leather goods.	$2583 \\ 69 \\ 17 \\ 16 \\ 474$	11,445 1,140 224 211 9,733	715 82 11 1 560	1,842 90 27 33 1,107	8,888 968 186 177 8,060	2,659 181 835 1,127 1,895	$\begin{array}{r} 24,190,422\\ 956,651\\ 568,896\\ 945,381\\ 10,525,040 \end{array}$	$2, 343, 505 \\92, 802 \\38, 430 \\71, 678 \\1, 354, 453$	6, 127, 987 520, 828 99, 981 114, 369 4, 328, 593	16, 243, 443 688, 758 298, 125 1, 573, 627 12, 122, 689	2,533,121 115,385	32,388,708 1,721,921 574,610 1,891,401 21,640,916	1,096,559 16,145,265 1,033,163 276,485 317,774 9,518,227
ished. Liquors, malt. Looking-glass and picture frames Lumber and timber products Marble and stone work	97 100 1 115 416 335	5,358 9,404 1,509 12,771 6,247	88 21 122 374 348	412 1, 547 207 1, 206 579	5,320	8,735 44,218 543 26,842 12,732	16, 439, 787 125, 783, 586 1, 609, 048 24, 576, 733 12, 777, 174	727,729 4,510,995 256,309 1,508,892 913,093	3,071,920 6,700,995 711,208 7,031,969 4,975,899	17, 090, 765 17, 515, 639 1, 229, 801 20, 391, 431 6, 169, 872	843,288 30,255,275 365,790 2,060,615 1,429,717	24,250,600 72,850,405 2,990,901 34,106,375 15,506,534	7, 159, 835 55, 334, 766 1, 761, 100 13, 714, 944 9, 336, 662
Mattresses and spring beds. Millinery and lace goods. Mineral and soda waters. Mirrors. Models and patterns, not including paper patterns.	144 1,050 377 137 123	1,901 27,669 2,823 938 1,328	157 1,365 432 46 150	275 3,207 353 110	1,469 23,097 2,038 782 1,045	972 4,237 1,821 835	2,600,982 22,344,815 5,660,392 1,329,347	259,185 3,447,867 363,226 127,725	849, 018 10, 607, 241 1, 254, 647 501, 880	3, 284, 838 28, 815, 237 1, 911, 481 1, 581, 918	513, 838 5,005, 710 1,228, 852 184, 500	5,403,647 56,072,956 5,632,875 2,611,915	2, 118, 809 27, 257, 719 3, 721, 394 1, 029, 997
Mucilage and paste Musical instruments, pianos and organs and materials Oil, not elsewhere specified Optical goods Paint and varnish	14 147 43	214 10,204 1,010	18 92 15	133 59 851 461	137 9,261 534	773 440 6,695 2,058	1,437,147 809,357 24,047,869 5,473,906 631,798	169,834 92,796 1,509,596 615,961	746, 810 86, 315 6, 217, 458 340, 895	631,756 620,559 13,866,343 7,806,632	345,765 111,702 2,847,159 724,579	2,443,207 1,096,329 26,852,411 10,490,967	1, 811, 451 475, 770 12, 986, 068 2, 684, 335
Paper and wood pulp Paper goods, not elsewhere specified. Patent, medicines, and compounds	34 159 15 95	485 5,766 786 4,760	43 72 4 60	74 2,002 59 803	368 3,692 723 3,897	162 12,840 7,115 4,989	631, 798 28, 148, 181 2, 659, 147 8, 498, 291	90,096 3,118,366 125,391 983,118	195, 696 2, 291, 738 420, 952 1, 646, 539	270,908 23,005,327 1,503,734 6,075,613	124, 917 3, 979, 770 192, 288 1, 424, 236	786,985 36,190,744 2,379,942 11,111,353	2,001,005 516,017 13,185,417 876,208 5,035,740
and druggists' proparations Pens, fountain, stylographic, and gold Photographic apparatus and mate- rials	518 1 30	6,956 1,108	349 25	2, 321 353	4,286 730	5,656 192	18,877,603 1,853,306	3, 395, 749 374, 431	2,036,829 426,874	11, 489, 412 1, 562, 874	7,299,491 453,157	30, 897, 557 3, 218, 760	19, 408, 145 1, 655, 886
Photo-engraving Pipes, tobacco. Pottery, terra cotta, and fire-clay products. Printing and publishing. Roofing materials.	28 1 46 1 21	364 1,517 1,772	19 25 30	70 305 160	275 1,187 1,582	159 275 701	555, 873 806, 616 2, 148, 310	81, 130 356, 961 170, 343	162, 687 1, 194, 608 727, 255	274, 509 490, 028 1, 407, 686	125, 910 227, 390 231, 670	728, 033 2, 516, 654 3, 136, 671	453, 524 2, 026, 626 1, 728, 985
	39 3,305 10	3,681 80,491 235	14 2,716 5	290 24,689 68	3,377 53,086 162	6, 157 42, 370 690	10,556,053 135,743,840 1,467,103	472, 897 30, 285, 297 98, 247	1,675,519 38,363,052 93,539	1,050,535 49,535,861 917,873	494, 912 51, 348, 884 157, 291	4,344,349 194,486,953 1,417,916	3, 293, 814 144, 951, 092 500, 043
Thed. Scales and balances. Shipbuilding, including boat build- ing. Show cases.	53 18 107	3,076 424 5,947	41 13 100	475 106 403	2,560 305 5,444	7,900 227 13,182	8,228,357 988,727 15,173,848	792,376 174,059 611,214	1, 328, 452 169, 999	6,256,322 301,223	824, 891 143, 120	10, 159, 440 888, 305	3,903,118 587,082
Silk and silk goods, including throws	17 73	452 2,106	23 64	50 393	379 1,649	476 710	462, 620 2, 052, 761	68, 364 468, 072	980, 583	8, 753, 666 374, 105 1, 116, 864	49,039 585,102	11, 372, 182 815, 852 3, 474, 535	7, 618, 516 441, 747 2, 357, 671
sters Silverware and plated ware Slaughtering and meat packing Smelting and refining, not from the ore	433 71 164 22	36,927 3,638 7,054	399 66 178		5,580	22,622 2,635 11,944	52,039,841 7,654,256 32,776,083	1,825,945	15, 719, 084 1, 913, 840 4, 352, 443	37, 385, 899 3, 169, 374 115, 521, 731	11, 509, 725 792, 894 4, 854, 785	74, 570, 282 7, 746, 402 131, 081, 148	37, 184, 383 4, 577, 028 15, 559, 417
ore	55 30 34	1,228 4,229 241 469	26 42 27 32	178 1,242 58 69	1,026 2,945 156 368	3,816 5,635 192 168	7, 566, 270 16, 465, 068 730, 281 562, 278	252,876 1,298,420 51,105 72,775	641, 853 1, 556, 516 109, 013 184, 055	13, 597, 289 15, 525, 387 352, 881 477, 917	461, 242 4, 467, 235 61, 307 111, 417	16, 362, 751 26, 323, 959 745, 185 983, 721	2, 765, 462 10, 798, 572 392, 304 505, 804
Stores and furnaces, including ges	54 60 33 1 34	899 552 933 1,036	47 94 14 26	219 34 130 220	633 424 789 790	395 50 1,414 1,180	1,313,108 466,998 2,925,247 1,053,954	252,257 44,361 210,791 299,660	312,754 381,622 385,698 771,243	876, 733 218, 441 1, 322, 338 546, 982	302, 907 93, 249 279, 020 224, 871	1, 975, 389 960, 844 2, 394, 806 1, 960, 829	1,098,656 742,403 1,072,468 1,413,847
Sulphuric, nitric, and mixed acids	28 6 57	1,615 494 725	18 56	255 60	1,342 434	2,837 1,575	3,854,100 3,450,357	354, 411 105, 142	918, 433 281, 437	1, 796, 500 1, 062, 224	467, 298 182, 917	3, 709, 129 2, 127, 637	1,912,629 1,065,413
limbs. 11 Fobaceo manufactures. Foys and games. Uppewriters and supplies. Imbrellas and canes. Upholstering materials. Wall paper.	72 33 ¹ 134 20	33, 355 1, 424 1, 144 2, 322 734	2,580 76 19 170 17	176 2,364 129 280 255 95	493 28, 411 1, 219 845 1, 897 622	303 3,981 353 477 495 820	$\begin{array}{r} 968,036\\ 43,135,651\\ 1,236,521\\ 2,662,123\\ 2,218,949\\ 1,644,974\\ \end{array}$	122, 009 295, 665 248, 348	282, 248 12, 341, 435 462, 644 519, 081 898, 774 276, 735	$515,973 \\ 33,382,973 \\ 843,577 \\ 771,296 \\ 4,112,856 \\ 1,242,763 \\ 1,735,473 \\ \end{cases}$	241, 660 19, 160, 047 182, 504 384, 224 433, 572	$1,464,721 \\78,783,942 \\1,827,319 \\2,194,668 \\6,373,852$	948,748 45,400,969 983,742 1,423,372 2,260,996
Wall plaster	11 1 12	1, 199 912	7 5	202 103	990 804	1,338 3,730	3,360,717 3,833,326	135, 514 276, 263 227, 638	276, 735 515, 567 429, 051	1, 242, 763 1, 735, 473 1, 754, 982	158, 599 703, 912 316, 660	6, 373, 852 2, 141, 371 3, 554, 771 2, 902, 908	898,608 1,819,298 1,147,926
cable	87 104 27 1, 195	1,821 1,234 8,759 74,399	82 130 27 1,077	264 87 351 9,061	1, 475 1, 017 8, 381 34, 201	1,408 1,199 11,829 172,198	2,992,537 1,216,895 24,432,187 366,111,896	313,695 108,312 633,218 12,969,377	817, 431 584, 786 3, 407, 853	1, 611, 656 774, 466 11, 836, 738 525, 815, 502	318,659 177,048 924,438	3,407,225 1,993,014 21,044,791 640,407,955	1, 795, 569 1, 218, 548 9, 208, 053 114, 592, 453

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¹ Excluding statistics for establishments located outside of the corporate limits of New York City, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries." ² Excluding statistics for establishments located outside of the corporate limits of New York City and of Newark, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

NEW YORK CITY METROPOLITAN DISTRICT.

COMPARATIVE SUMMARY FOR THE NEW YORK CITY METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

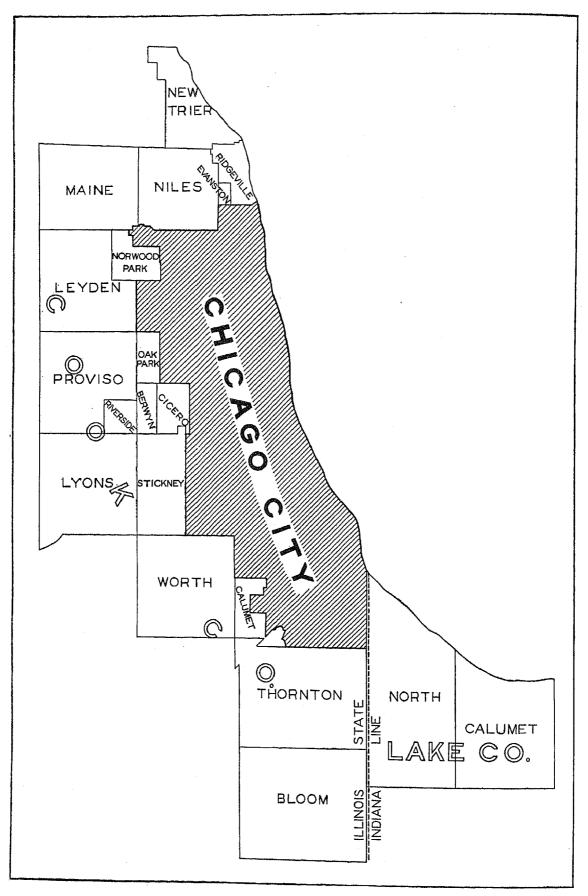
Table 8							[PER	CENT (OF INC	REASE	1		
INDUSTRY.	. :	MBER ESTAB HMEN	-	(.	E EARI AVERAG IUMBER	E	¥AL.	UE OF PROD	ucts.		umber blishm	of	Wa	ge earr ige nur	ners		e of pro	duets.
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904
Clothing Women's Men's, including shirts					120, 656 72, 630 48, 026	84,083 46,390 37,693	\$495, 589, 134 270, 646, 086 224, 943, 048	\$325, 555, 086 171, 457, 727 154, 097, 359	\$224, 422, 767 104, 661, 178 119, 761, 589	49.9 85.7 22.5	38. 6 40. 3 36. 8	8, 1 32, 4 10, 4	109.5	40. 1 33. 8 49. 5	43.5 56.5 27.4	158.6	67.8	63.8
Printing and publishing Newspapers and periodicals Book and job Music.	3,305 905 1,807 69	2, 635 789 1, 387 43	2, 111 519 1, 123 22	53,086 14,340 23,261 383	11,126	11, 123	194, 486, 953 98, 653, 252 64, 036, 884 3, 103, 133	73, 862, 315 47, 251, 436	$103, 465, 731 \\53, 890, 383 \\28, 474, 411 \\853, 862$	74.4 60.9		24. 8 52. 0 23. 5 95. 5	28.9 61.9	21. 2 28. 9 22. 6 34. 9	11. 2 (*) 32. 1 32. 1	83.0	33.6 35.5	37.0 65.9
All other printing and pub- lishing industries ²	524	416		15, 102	13, 421		28, 693, 684				26.0	-6.9	10.4	12.5	-1.9	41.8		9.0
Textiles 4. Silk and silk goods, including	825		468	71,789			152,010,420		85, 204, 647		48.6	18.6	37.0	21.6	12.7	78.4	50.0	19.0
throwsters Woolen, worsted, and felt goods, and wool hats	433 27	299 18	229 22	34,133			74, 570, 282	. ,			44.8	30.6		19.5	6.4	67.3	51.0	10.8
Dyeing and finishing textiles. Hosiery and knit goods Cotton goods, including cot- ton small wares	123 201	88 115	80 87	8,381 11,407 5,949		6, 457 2, 917	14, 555, 024	12, 693, 073 6, 607, 712	9, 558, 051 4, 069, 887	53.8 131.0	74.8		76.7 103.9	41.8 41.4 39.5	26.9 24.9 46.1	176.0 106.2 257.6	55.3 120.3	62.4
Cordage and twine and jute and linen goods	27 514	17 18	32 18	5, 548 6, 371	4,233 7,983		11,963,362 10,168,084	6, 839, 065 15, 060, 947	6, 181, 705 13, 198, 208	1	58.8 	-46.9		31.1		93.5		10.6
Slaughtering and meat packing	164	1	116	5, 580			131,081,148		56, 414, 945			-19.8	-5.6 119.8	-20.2 98.2	18.2 10.9	-23.0 132.4	-32.5 81.4	14.1 28.1
Foundry and machine-shop prod- ucts. Tobacco manufactures. Bread and other bakery products. Liquors, malt.	1, 348 2, 403 3, 188 100	2,585 2,616	(6) 2,218 2,523 128	42, 463 28, 411 19, 218 7, 836	29,448 15,432	(6) 23,847 13,005 6,507	107, 297, 665 78, 783, 942 77, 472, 491 72, 850, 405	93, 142, 730 56, 219, 444 53, 739, 165 60, 043, 479	(*) 49,624,497	 8.3 26.4	15.0 7.0	16.5	19.1 47.8	-0.4 -28.0 24.5 6.5	65.4 18.7 13.0	58.8 99.3 36.9	15.2 40.1 44.2	13, 3 38, 2
Gas, illuminating and heating	1, 050 31		401 ⁶ 20	23, 097 6, 061	16,580 6,138	11,372	56, 072, 956 43, 934, 683	33, 598, 859 33, 824, 295	21, 158, 146 19, 457, 606	161.8	75.9	48.9		39.3 1.3	45.8 23.9	165.0 125.8	66.9	58.8 73.8
and supplies. Fur goods. Paint and varnish	9 224 9 821 159	7 578	$\begin{array}{r} 138 \\ 7 515 \\ 129 \end{array}$	16, 510 7, 824 3, 692	11,338 5,309 3,505		$\begin{array}{r} 42,925,198\\39,874,386\\36,190,744\end{array}$	25, 275, 823 25, 325, 361 28, 487, 381	$\begin{array}{c} 19,367,980\\ 15,256,505\\ 22,133,015 \end{array}$	62.3 59.4 23.3	28. 7 42. 0 23. 3	26.1 12.2	78.4 86.6 21.4	45.6 47.4 5.3	22.5 26.6 15.3	121.6 161.4 63.5		30, 5 66, 0 28, 7
Lumber and timber products Copper, tin, and sheet-iron prod-	416	348	282	11, 191	9,777	7.105	34, 106, 375	26, 606, 448	18, 598, 937	47.5	19, 5	23.4	57. 5	14.5	37.6	83.4	28.2	43.1
Copper, tin, and sheet-iron prod- ucts Jewelry. Chemicals. Patent medicines and compounds	614 10 583 68		918 327 76	14, 150 8, 888 5, 205	6.713	5,610		23, 018, 109 20, 605, 626 21, 301, 430	29,307,392 17,076,426 15,335,030	-33.1 78.3 -10.5	35.5 56.3 5.6	14.1	32, 5 58, 4 52, 5	$13.5 \\ 32.4 \\ 18.6$	$16.7 \\ 19.7 \\ 28.5 \\ 10.7 \\ 28.5 \\ 10.7 \\ $	12.0 89.7 105.1	42.6 57.2 47.7	-21, 5 20, 7 38, 9
and druggists' preparations	518	426	303	4, 286	3,747	3, 474	30, 897, 557	22, 275, 160	20, 477, 851	71.0	21, 6	40.6	23.4	14.4	7.9	50.9	38.7	8.8
Musical instruments, pianos and organs and materials	147 55		8 113 64	9, 261 2, 945	8, 146 1, 806	$5,904 \\ 1,482$	26, 852, 411 26, 323, 959	19,918,683 11,883,205		30. 1 14. 1	17.6 —1.8			13. 7 63. 1	38. 0 21. 9	104.7 164.4	34. 8 121. 5	51. 8 19. 4
finished Confectionery Furniture and refrigerators	97 166 4 41		88 7 110 216	4, 858 7, 395 9, 894		$egin{array}{c} 4,336 \ 4,500 \ 7,475 \end{array}$	24, 250, 600 23, 297, 461 22, 543, 905	17, 112, 858 15, 707, 315 14, 984, 467	$\begin{array}{c} 15,270,910\\ 10,988,348\\ 14,492,701 \end{array}$	50.9	$ \begin{array}{r} 11.5 \\ 26.7 \\ 30.9 \\ \end{array} $	$1.1 \\ 19.1 \\ 56.0$	12. 0 64. 3 32. 4	2, 4 23, 6 35, 8	9.4 33.0 -2.5	$58.8 \\ 112.0 \\ 55.6$	41.7 48.3 50.4	12.1 39.3 3.4
Leather goods, not elsewhere specified. Boots and shoes, including cut	474		325	8,060	8, 264	, i	21,640 916	, ,			19. 1	22.5	18.7	-2.5	21.7	56.3	16. 1	34.6
stock and findings Artificial flowers and feathers and plumes	197 328	$150 \\ 159$	205 162	9, 668 8, 530	7,739 3,384	7,413 4,066	21,331,290 21,197,040	16,511,906		i 1	31.3	-26.8	30.4	24.9	4.4	56.1	29.2	20.9
Smelting and refining, not from the ore	22 88	8 17	12	1,026	795	169	16,362.751	10,661,613	2, 115, 726	83.3		41.7	109.8 507.1 14.1	152.1 29.1 5.7	-16.8 370.4 20.9	319.1 673.4 51.6		
Marble and stone work Brass and bronze products Gas and electric fixtures and	335 221	213 174	(⁶) 171	5, 320 4, 818		3, 217	15,506,534 13,899,127	8, 330, 154	7,934,738	29.2	57.3 27.0	 1. S	49.8	5.1 34.1	···ii.7	75.2	12. 2 66. 9	5.0
lamps and reflectors Boxes, fancy and paper Shipbuilding, including boat building	169 244 107	131 197 97	113 181 115	5, 443 8, 939 5, 444	3,737 8,322 6,203	3,017 6,379 6,185	13,655,723 11,664,690 11,.72,182	9, 820, 192		50.0 34.8 -7.1	29.0 23.9 10.3	15.9 8.8 15.7	80.4 40.1 	45.7 7.4 	23.9 30.5 0.3	151.0 78.2 13.2	62.5 18.8 4.7	54.4 50.0 8.1
Paper goods, not elsewhere speci-												-0.1			0.0	10. L		(** I
fied. Oil, not elsewhere specified Food preparations. Rubber goods, not elsewhere	95 43 133	75 7 36 110	78 44 107	3,897 534 2,265		2, 450 244 1, 485		7, 405, 089 5, 903, 767 6, 708, 259	4, 789, 571 5, 534, 616	21 9	20.9	-18.2 2.8	59.1 118.9 52.5	$21.0 \\ 67.9 \\ 26.7$	$31.5 \\ 30.3 \\ 20.4$	87.2 119.0 84.5	50.0 77.7 52.2	24. 8 23. 3 21. 2
specified	53	7 52	68	2, 560]	2,736	3,052	10, 159, 440	7, 172, 673	9, 326, 922	-22.1	1.9	-23.5	~16.1	-6.4	-10.4	8.9	45.6	-23.1

1 A minus sign (-) denotes decrease.
2 Less than one-tenth of 1 per cent.
3 Includes "bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing."
4 Excluding statistics for four establishments, to avoid disclosure of individual operations.
9 Excluding statistics for two establishments, to avoid disclosure of individual operations.
8 Excluding statistics for one establishments, to avoid disclosure of individual operations.
8 Excluding statistics for one establishments, to avoid disclosure of individual operations.
9 Excluding statistics for one establishments, to avoid disclosure of individual operations.
9 Excluding statistics for three establishments, to avoid disclosure of individual operations.
10 Excluding statistics for three establishments, to avoid disclosure of individual operations.

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CHICAGO METROPOLITAN DISTRICT: 1909.



CHICAGO METROPOLITAN DISTRICT.

Territory included.—The metropolitan district of Chicago embraces 409,087 acres of territory, of which 118,433 acres constitute the area of Chicago and 290,654 acres the area of the outside territory. The population of the city of Chicago proper in 1910 was 2,185,283, and that of the outside territory 261,638, the total for the district being 2,446,921.

As defined at the census of 1910, the metropolitan district includes the central city, together with Berwyn, Bloom, Calumet, Cicero, Evanston, Leyden, Lyons, Maine, New Trier, Niles, Norwood Park, Oak Park, Proviso, Ridgeville, Riverside, Stickney, Thornton, and Worth townships, all in Cook County, Ill., and Calumet and North townships in Lake County, Within these townships, or coextensive with Ind. them, there are seven incorporated places of 10,000 or more inhabitants. Of these four are in Illinois, namely, Chicago Heights city, in Bloom township; Cicero town, coextensive with Cicero township; Evanston city, coextensive with Ridgeville township; and Oak Park village, coextensive with Oak Park township. The remaining three, which are in Indiana, are East Chicago city and Hammond city, both in North township; and Gary city in Calumet township.

The territory comprised within the Chicago industrial district as constituted for the bulletin on industrial districts for 1904 did not include Bloom township, which contains Chicago Heights city, or Maine township, or the townships and incorporated places in Indiana; but it comprised, in addition to the territory represented by the other places mentioned above, Downers Grove and York townships in Dupage County, Ill., and Palos township in Cook County, Ill.

The relative location of the constituent divisions is indicated on the outline map of the district (p. 914).

Summary for the district.—Table 9 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Chicago metropolitan district, for the city of Chicago; for six of the seven other incorporated places within the district which had over 10,000 inhabitants in 1910 four cities, one town, and one village—and for the remainder of the district. The percentage which the figure for Chicago represents of the total for the district is shown in the case of each item. The statistics for Gary, Ind., are included in the "remainder" of the district to avoid disclosing the operations of individual establishments.

Table 9	NUMBER OR AMOUNT.											
		Í			Dist	rict exclusi	ive of Chie	ago.	***************************************		cent Chi- cago i	
	The district.	Chicago.	Total.	Chicago Heights.	Cicero.	Eust Chicago.	Evans- ton.	Ham- mond.	Oak Park,	Remain- der.1	of tots for dis trict.	
Population ² Number of establishments Persons engaged in manufactures Proprietors and firm members Salaried employees. Wage earnors (average number) Primary horsepower Capital Expenses. Services. Salaries Wages Materials Miscellaneous Value of products Value added by manufacture	$\begin{array}{c} 10,202\\ 393,859\\ 8,600\\ 59,335\\ 325,024\\ 739,229\\ 81,144,002,902\\ 1,272,456,182\\ 266,626,915\\ 71,100,747\\ 195,466,163\\ 870,586,561\\ 135,242,706\\ 1,408,779,818\end{array}$	9,650 356,954 8,150 525,236 \$971,840,545 1,156,530,537 240,036,910 65,924,841 174,112,069 793,469,723 123,023,904 1,281,171,181	546 36,905 444 4,514 31,947 213,993 \$172,162,357 26,500,005 5,235,645 21,354,009 77,116,838 12,218,802 127,608,637	$\begin{array}{r} 4,444\\60\\431\\3,953\\10,176\\\$10,420,527\end{array}$	735 2 75 658 1,580 \$2,496,100 1,403,638 97,094 406,154 732,879 167,511 1,461,104	$\begin{array}{c} 10\\ 2,568\\ 6\\ 192\\ 2,370\\ 7,017\\ $4,614,380\\ 4,873,173\\ 1,532,365\\ 247,277\\ 1,285,088\\ 3,059,915\end{array}$	60 1,040 63 140 837 1,056 \$4,241,198 3,329,854 767,307 177,750 589,557 2,350,080 212,467 3,778,298	49 4,379 33 505 3,841 7,348 \$16,270,855 14,894,019 2,474,818 614,185 1,860,633 6,661,355 5,767,840 15,580,250	23 362 21 59 282 758 \$6,060,795 734,654 253,611 57,009 196,602 390,887 90,156 1,117,697	312 23,377 259 3,112 20,006 186,058 \$128,058,502 81,215,110 17,981,947 3,436,969 914,544,978 58,320,303 4,912,860 89,348,460	94. 90. 94. 92. 90. 71. 85. 90. 92. 89. 91. 91. 90.	

¹ Includes Gary, Ind., the statistics for which can not be shown without disclosing individual operations.

In 1909 the Chicago metropolitan district had 10,202 manufacturing establishments, which gave employment to an average of 393,859 persons during the year and paid out \$266,626,915 in salaries and wages. Of the persons employed 325,924 were wage earners. These establishments turned out products to the value of \$1,408,779,818, to produce which materials costing \$870,586,561 were utilized. The value added by manufacture was thus \$538,193,257. The Chicago district ranked second in 1909 among all the metropolitan districts of the United States in the value of its manufactured products. It far exceeded any of them in the value of products of the slaughtering and meat-packing industry.

In the Chicago district, as in all but two of the districts, the greater part of the value of the manufactured products of the district was reported by factories within the central city. Chicago contained nearly

² April 15, 1910.

nine-tenths (89.3 per cent) of the population of the district, of which it is the manufacturing, commercial, and financial center, and contributed over ninetenths (90.9 per cent) of the value of products. Its manufacturing establishments constituted 94.6 per cent of all in the district, and gave employment to 90.2 per cent of the average number of wage earners for that area.

Of the places outside Chicago for which statistics are given separately, Hammond reported the largest value of products, but this value represented only 1.1 per cent of the total for the metropolitan district. The population of this city formed only nine-tenths of 1 per cent of the total in the district.

The area comprised within the 17 townships, or parts of townships, outside of incorporated places having more than 10,000 inhabitants, included in the district, together with Gary city, for which statistics can not be shown separately without disclosing the operations of individual establishments, had a combined population equal to 6.1 per cent of the total for the district and contributed 6.3 per cent of the value of its products. The average value of products per establishment for this group was much greater than that for any of the places shown separately, except East Chicago and Hammond.

The leading industries in Chicago Heights in 1909 were foundries and machine shops, steel works and rolling mills, and steam-railroad car construction shops. The principal industry of Evanston was the

manufacture of wrought iron and steel pipe. In Cicero foundries and machine shops and the manufacture of wrought iron and steel pipe constituted the most important industries. The production of illuminating gas occupied first place in Oak Park. In Gary, Ind., three establishments—a steel plant, a blast furnace, and a cement factory, named in the order of their importance-together contributed nearly the total value of the manufactured products of the city. The principal industries of Hammond were distilleries, steam-railroad repair shops, and foundries and machine shops. The manufacture of iron and steel was the leading industry in East Chicago. An important industrial place for which the statistics are not shown separately is Indiana Harbor, Ind., with large steel works and rolling mills.

Comparison with earlier censuses .- Table 10 gives statistics for the district for 1909, 1904, and 1899. For purposes of comparison the statistics in this table are grouped in such a way as to show separately for 1909 figures for (1) the territory added to the district since 1904 (Bloom and Main townships in Illinois and Calumet and North townships in Indiana) and (2) the remainder of the district; and for 1904 and 1899 figures for (1) the territory deducted since 1904 (Downers Grove, York, and Palos townships in Illinois) and (2) the remainder of the district. Percentages of increase are shown only for the territory which was included in the district in both 1909 and 1904.

Table 10				NUMBER	OR AMOU	NT.					CENT	
		1909			1904			1899 ,				
4 0.1	Total,	Territory added since 1904.	Remainder of district. ¹	Total.	Terri- tory de- ducted since 1904.	Remainder of district. ¹	Total.	Terri- tory de- ducted since 1904.	Remainder of district. ¹	1899- 1909	1904- 1909	1890- 1904
Population Number of establishments Persons engaged in manufactures Proprietors and firm members. Salaried employees. Wage earners (average number) Primary horsopower Capital. Expenses. Services. Salaries. Materials. Miscellaneous. Value of products. Value added by manufacture ¹ Figures in this column used in co	71, 160, 747 195, 466, 168 870, 586, 561 135, 242, 706 1, 408, 779, 818 538, 193, 257	2422 23,913 183 2,550 21,180 117,915,318 \$9,086,071 17,004,035 3,172,816 13,831,219 62,738,549 9,943,771 99,028,732 36,289,867	$\begin{array}{c} 9,960\\ 369,946\\ 8,417\\ 56,785\\ 304,744\\ 550,908\\ \$1,020,937,584\\ 1,182,769,511\\ 249,022,880\\ 67,987,931\\ 181,634,949\\ 807,847,696\\ 125,288,935\\ 1,309,751,086\\ 501,903,390\\ \end{array}$	8, 382 296, 350 7, 481 40, 880 247, 989 379, 566 \$664, 215, 775 882, 469, 100 186, 165, 672 46, 336, 312 139, 829, 354 598, 556, 727 97, 746, 701 970, 974, 280	101 27 19 115 262 \$120,088 229,456 64,009 12,582 51,427 130,346 35,101 272,730	296, 180 7, 454 40, 861 247, 874 379, 304 \$664, 095, 687 882, 239, 644 186, 101, 663 46, 323, 736 139, 777, 927 598, 426, 381 97, 711, 600 970, 701, 550	(5) 32,800 224,991 (5) \$519,409,858 720,597,395 143,083,714 32,501,114 110,582,600	(5) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	7,826 (5) 32,788 224,892 \$519,323,529 720,370,955 143,012,982 32,483,864 110,529,118 506,535,894 70,822,070,121	27.3 73.2 35.5 97.6 64.2 74.5 109.3 64.3 59.5 76.9 62.5	$\begin{array}{c} 24.9\\ 12.9\\ 39.0\\ 22.9\\ 45.2\\ 54.5\\ 34.1\\ 46.8\\ 29.9\\ 35.0\\ 28.2\\ 34.9\end{array}$	24.6 10.2 27.9 22.5 30.1 42.6 26.5 18.1 38.0 20.4

In the area for which comparisons are made the percentages of increase in all the items shown, except one, for the three census years were larger during the more recent five-year period 1904-1909 than during the period 1899-1904. During the decade as a whole the rate of increase was much greater in salaries and capital than in any other items. The average number of

wage earners increased 35.5 per cent during this period and the amount paid for wages 64.3 per cent, a rate of gain approximately equal to that in value of products (62.5 per cent). The rate of increase in primary horsepower of all kinds from 1904 to 1909 was 45.2 per cent. Statistics as to the primary power used in 1899 are not available.

The proportions of the population and manufactures in the outside territory of the metropolitan district are constantly increasing, as is indicated by Table 11.

Table 11	PER CENT OF CHICA DISTRICT.	TERRITORY GO 18 OF T	
	1909 1	1904 2	1899 2
Population. Number of establishments. Persons engaged in manufactures . Proprietors and firm members. Salaried employees. Wage earners (average number)	3.1 3.5 3.5 4.7 3.5 4.7 3.5 4.7 3.5 4.7 3.0 4.1 1.8 2.2	(⁸) 2.3 2.2 2.5 1.4 2.4 2.6 4.0 1.6 2.2 1.6 2.4 1.4 1.4 1.4 1.6 1.9	5.8 2.0 (4) (4) 1.2 1.6 (1) 1.5 1.0 1.6 1.3 1.6 0.9 0.5 1.0 1.3

¹ Based on figures for district as constituted in 1909, exclusive of territory added since 1904.
 ⁸ Based on figures for district as constituted in 1904, exclusive of territory deducted since 1904.
 ⁹ No population census in 1905.
 ⁴ Figures not available.

The proportion which the population outside Chicago, but within the area comprised in the district, in each census year formed of the total in that area increased from 5.8 per cent in 1900 to 7.2 per cent in 1910, and the proportion of the value of products of that area that was contributed by the outlying territory increased from 1 per cent in 1899 to 1.6 per cent in 1904, and to 2.2 per cent in 1909.

Leading industries.-Table 12 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the industries shown separately in the table there are 23 for which totals for the district can not be published, because to do so would disclose individual operations; and 26 which were not carried on in the part of the district which is outside the corporate limits of Chicago. In all these cases the statistics shown are figures for Chicago exclusively.

The predominant industry of the Chicago metropolitan district is slaughtering and meat packing. The figures shown for this industry are for Chicago exclusively, one small establishment in 1909 engaged in the manufacture of sausage in the territory outside Chicago being excluded to avoid disclosing the operations of individual concerns. The 67 establishments in Chicago in 1909 reported products valued at \$325,061,657, or 23.1 per cent of the value of products of all industries in the district. Other important industries were foundries and machine shops, with a value of products amounting to \$104,319,563; the making of men's clothing, including shirts, with products valued at \$85,296,407; printing and publishing, with products valued at \$76,070,564; and steel works and rolling mills, with products valued at \$71,531,974.

The value of products shown for establishments engaged in the manufacture of electrical machinery, apparatus, and supplies, and of copper, tin, and sheetiron products is much less than the actual figures for these industries in the district, statistics for the establishments outside of Chicago having been omitted in order to avoid disclosing the operations of individual concerns.

Table 12		PEF	ISONS EI) IN								
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ces.	Wage earn- ers (aver- age num- ber).	Fri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscella- neous expenses.	Value of products.	Value added by manufac- ture.
All industries	10,202	393, 859	8,600	59, 335	325, 924	739, 229	\$1,144,002,902	\$71, 160, 747	\$195, 466, 168	\$870, 586, 561	\$135, 242, 706	\$1,408,779,818	\$538, 193, 257
Automobiles, including bodies and parts. Awnings, tents, and sails. Bags, other than paper Baking powders and yeast. Beiting and hose, leather	1 41 33 6 10 11	350 213 940	4	20 410	1, 460 282 189 522 233	734 158 157 1,142 430	2, 094, 348 275, 380 575, 574 5, 873, 320 1, 279, 476	$26,144 \\ 24,160 \\ 447,128$	1, 131, 443 139, 065 175, 042 303, 834 164, 536	569,207 685,033 2,888,242	62,783 11,383 1,782,747	915, 463	2,232,970 346,256 280,409 4,120,420 802,987
Boots and shoes, including cut stock and findings. Boxes, clgar Boxes, fancy and paper Brass and bronze products Bread and other bakery products.	31 9 48 156 1,278	248	9 22 38		3.609	214 1,575 1,099	3, 880, 595 292, 197 3, 118, 225 2, 491, 807 20, 988, 156	324, 805 45, 657 399, 684 303, 717 1, 160, 173	$1,919,794\\124,864\\1,311,235\\810,203\\4,373,201$	258,094 2,231,889 3,265,574	48, 436 481, 060 306, 699	540, 774 5, 043, 621 5, 131, 391	3, 810, 613 282, 680 2, 811, 732 1, 865, 817 11, 163, 664
Brick and tile. Brooms. Brushes. Canning and preserving. Carriages and wagons and materials.	28	2, 115 282 334 1, 416 2, 473	50	26 33 189	$ \begin{array}{c c} 222 \\ 275 \\ 1,177 \end{array} $	94 1,470	$\begin{array}{r} 7,860,390\\ 249,943\\ 440,034\\ 2,646,101\\ 7,971,855 \end{array}$	239,014	$\begin{array}{c} 1,890,691\\ 118,294\\ 163,064\\ 525,217\\ 1,365,663 \end{array}$	515,774 3,413,459	30, 790 75, 283 332, 815	680,003 879,548 5,005,292	277,647 363,774 1,591,833
Cars and general shop construction and repairs by steam-railroad companies. Cars and general shop construction and repairs by street-railroad	28	12, 598		596	12,002			· ·	7, 962, 234				
companies. Cars, steam-railroad, not including operations of railroad companies. Chemicals. Cloghing, men's, including shirts.	14	11,857	2	907 164	10, 948 697		39,641,537 2,496,331	1,025,728 231,119		14, 752, 493 1, 316, 406	1, 388, 183 326, 070 13, 782, 710	25,462,246 3,250,423	$10,709,753 \\ 1,934,017 \\ 42,528,369$

SUMMARY FOR THE CHICAGO METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

¹ Excluding statistics for establishments located outside of the corporate limits of Chicago, to avoid disclosure of individual operations. The figures for these estab-lishments are included under the head of "All other industries."

SUMMARY FOR THE CHICAGO METROPOLITAN DISTRICT, BY INDUSTRIES: 1909-Continued.

Table 12-Continued.		rı		ENGAGE USTRY,	D IN								
INDUSTRY.	Num- ber of estab- lish- ments.		Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ces.	Wage earn- ers (aver- ago num- ber).	Pri- mary horse- power	Capital.	Salaries.	Wages.	Cost of materials	Miscella- neous expenses.	Value of products,	Value added b manufa ture.
Clothing, women's Coffee and spice, roasting and	1 204	6,66	6 25	4 79	5,61	5 698	85, 193, 048	8915,02	2 \$2,996,98	59 \$8, 658, 24	19 \$1, 566, 44	3 \$15,676,9	25 \$7,018,0
Context and spice, reasting and grinding Coffins, burial cases, and under- takers goods Confectionery Cooperage and wooden goods, not elsewhere specified	32			2 747	1,006	3 2, 57	5 8, 696, 361	1, 078, 17	2 520, 88	58 14, 968, 95	6 1,631,22	1 19, 593, 1	
Confectionery	1 13 91		3 6 6	$\begin{bmatrix} 5 \\ 0 \end{bmatrix} = \begin{bmatrix} 152 \\ 571 \end{bmatrix}$	576 3,245			269,91 637,61	5 339, 36 4 1, 252, 81	5 763, 53 2 6, 709, 83	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 4 & 1,837,51 \\ 1 & 11,241,01 \end{array}$	i8 1,074,0 1 4,531,1
elsewhere specifical	1 37	1,26) <u>3</u>	2 71	1,166	1,984	1,860,251	109, 580	0 600, SS	35 2, 187, 90		1	1
Copper, tin, and sheet-iron products Corsets.	$1268 \\ 10$			6 495 5 114	3,859 1,005			659,461 149,611		6, 463, 00 8 704, 68) $12, 241, 93$ 1, 778, 92	0 5 778 0
Corsets. Cutlery and tools, not elsewhere specified. Electrical machinery, apparatus, and supplies. Fancy articles, not elsewhere speci- fied.	1 53	1, 16	4	3 142	982	1,499		· ·		1 '			
and supplies	1 1 23	7,338	48	5 1,192	6,096	6,443	16,623,727	1, 369, 911	3, 859, 67	7 11, 405, 47			1 ' '
	307	603			438	210	641, 101	139, 337	218, 48	0 567,99	7 175, 441	1, 289, 11	
Flavoring extracts Food preparations Foundry and machine-shop prod-	19 78	$184 \\ 1, 134$			85 802	234 1,632	652, 257 2, 384, 062	104,617 350,223	56, 34 400, 93	8 465, 89 9 4, 100, 97	9 122, 198 5 534, 280		
Foundry and machine-shop prod- ucts Fur goods	721 $^{1}59$	41,857 455		6,161		63, 273	105, 493, 763	1		7 48.816 11	12 833 705	104 910 60	1
		2,273	38	89 330	308 1,905	59 562	959, 109 2, 339, 851	8, 309, 667 108, 181 383, 301	224,83 820,15	2 1,060,34 6 3,876,61	5 172,016	1,902,50	7 842.1
Furniture and refrigerators	208	11,188	151		9, 957	14,454	16, 495, 370	1,456,603	6,076,24	2 9, 146, 26	3 2, 231, 022	20, 638, 17	
menting, staming, and orna-	¹ 63 46	2,068	1		1,602	1,060	2, 706, 026	587, 709			515, 641	4, 683, 03	1 2, 558, 7
loves and mittens, leather Trease and tallow	1 25 1 10	1,223	33 29 7	156 85 117	839 1, 100 649	476 570 2,207	993,100 899,939	165,495 129,563	441,01	7 1,307,652	2 127, 568	2, 181, 35	2 1,025,5 873,6
Tats and caps, other than felt, straw, and wool.					019	2,201	2, 181, 134	186, 800	452, 288	3, 780, 957	222, 796	4, 947, 92	1, 166, 9
losiery and knit goods. ce, manufactured ron and steel, steel works and roll- ing mile	38 29 9	574 837	48 36	58	463 743	61 167	279, 637 908, 497	63,789 90,071	266, 879 288, 518 174, 538	478, 510 782, 713	93, 429 136, 974	1,046,48	567, 9
	16	263 16,730		28	235	3, 519	1, 281, 990	46, 224	174, 535	142,60	110,746	1, 477, 38(633, 54(694, 6 490, 9
and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.		10, 100		1,485	15, 245	165, 245	72, 236, 968	1,893,407	11, 547, 12(46, 252, 975	2, 465, 557	71, 531, 97	25, 278, 9
ron and steel, doors and shutters.	18	810		68	742	1, 113	1,676,952	90, 172	370, 587	817,003	112, 169	1, 614, 914	797, 9
	5 14 55	$325 \\ 913 \\ 1,169$	$2 \\ 11 \\ 11$	35 95	288 807	$242 \\ 2,330$	328,555 2,899,223	$\begin{array}{c} 43,776 \\ 137,042 \end{array}$	200,868 599,748	256,277	27,360	580, 809 2, 647, 523	324, 5
ewelry. abels and tags	12 103	643 2,633	55 6 101	$204 \\ 126 \\ 315$	910 511 2, 217	294 226	2,899,223 1,573,730 783,305	193,505 135,312	206, 203	377,418	172, 903 215, 906 102, 262	2, 647, 523 2, 634, 642 822, 380	1,416.3
eather, tanned, curried, and fin-				010	2,211	925	2, 958, 881	376, 540	1, 196, 698	3, 406, 739	498, 561	6,074,015	2, 667, 2
anded and stone work.	24 48 62	2,841 3,498	23 2	144 591 327	2,674 2,905	$6,212 \\ 15,882$	14, 485, 671 29, 741, 494	242,402 1,157,792	1,417,978 2,391,182	10,787,874	652, 306	13, 243, 550	2, 455, 6
umber and timber products arble and stone work		2,441 11,912 1,748	$ \begin{array}{r} 46 \\ 135 \\ 134 \end{array} $	1,124	2,068 10,653	2,178 26,580	2,757,696 18,344,078	395,378	1, 121, 472 6, 291, 122	1,768,400	8,279,545 633,337 2,066,736	$13, 243, 550 \\19, 712, 962 \\4, 488, 081 \\32, 560, 502 \\$	14,745,1
attresses and spring beds ineral and soda waters	64	966	55	146 108	1,468 803	3, 107 565	2,777,051	232,662	1,203,929	1,854,232	312,736	$33,569,593 \\ 4,231,289$	12, 318, 80 2, 377, 0
paper patterns, not including	70	670	77	119	474	799	1,042,537 1,120,039	147,340 111,192	430, 756 318, 968	1,481,221 572,189	257,310 381,582	2, 633, 266 1, 657, 706	1, 152, 04 1, 085, 51
not specified	¹ 56 27	435 418	63 33	50 70	322	494	361, 820	47, 271	226,834	161,333	92, 957	686, 538	525, 20
usical instruments, pianos and organs and materials.	42	7, 185	33 12	53 648	332 6,525	200	502, 446	56,883	198,872	171,864	64, 999	614, 307	442, 44
il, not elsewhere specified	11	71	8	40	23	5, 670 82	21, 348, 793	908, 446	3,720,625	6,311,560	1,427,792	14, 555, 453	8, 243, 89
il, not elsewhere specified bint and varnish per goods, not elsewhere specified tent medicines and compounds und deugists? programming	1 61 1 41	2,687 1,255	27 27	1,034 271	$1,606 \\ 957$	5, 837 607	180,873 13,830,299 1,366,605	$\begin{array}{r} 85,706 \\ 1,587,010 \\ 289,754 \end{array}$	16,961 995,733 409,922	378,890 11,845,032 1,392,839	57,955 2,152,436	608, 302 18, 942, 448 2, 830, 754	229,41 7,097,41
otorraphic apparatus and mate	277	3,019	164	1, 492	1, 363	2,030	5,379,189	1,512,267	409,922	1,392,839 3,223,163	455,965		
1418	13	356	8	64	284	430	708, 269	81,011	156, 562	317,784	3, 359, 233 87, 352	10, 376, 264 739, 857	7, 153, 10 422, 07
oto-engraving ttery, terra-cotta, and fire-clay products	21	1,186	4	304	878	405	901, 851	340, 523	848, 224	421,843	276, 703	2, 156, 055	1, 734, 21
	1.466	$1,564 \\ 34,950 \\ 1,473 $	9 1,130	$100 \\ 10, 195 \\ 2$	1,455 3,625 1,198	2, 480 21, 481	3,306,667 49,958,455	144,677 10,907,660	1,011,041 15,657,361	440, 290		2, 247, 109 76, 070, 564	
ughtering and meat packing	1 67 1 67	27,147	19 66	256 5,017 2	1,198 2,064	$716 \\ 45,629$	49,958,455 2,568,381 115,311,628	144, 677 10, 907, 660 295, 162 5, 534, 973	723, 824	21, 830, 421 884, 378 285, 250, 405	$\begin{array}{r} 295,394 \\ 16,846,400 \\ 757,233 \\ 12,001,412 \end{array}$	2,972,6971	1,806,81 54,240,14 2,088,31
nelting and refining, not from the re	1 7	127	4	32	91	168				1		325, 061, 657	39, 811, 25
orting and athletic goods.	27 21	3,329 755	17 19		2,139	4,967	816,079 11,473,794 743,397	71,194 1,332,988	63,277 1,035,233	2,237,114 13,787,459 812,303	33,941 2,466,122 177,684	2,573,769 19,939,041 1,564,482	336,65 6,151,58
tionery goods, not elsewhere	¹ 18	751	8	162	581	374	1,580,801	117, 748 217, 160	328, 811				752,17
tuary and art goods reotyping and electrotyping	$\frac{12}{21}$	437 747	11 13	46 142	380 592	214	445, 888 777, 366		296,534 261,489	591, 877 125, 304	271,698	1,603,754	1,011,87
ad oil stoves		1,263	14		592 1,048	725 937		58, 531 186, 724	472, 376	315,928	47,041 181,650	783,342 1,282,292	658,031 966,36
	24	807	13	265	529	592	2, 545, 769 1, 658, 164	271,787	725,632	1, 156, 666	509, 524	3, 182, 745	2,026,079
to iounding and printing mate-	, 102	6, 936	1,166	427	5,343	783	10, 451, 273	371, 882 716, 830	279,012 2 864 760	916, 537	275,641	2,074,528	1, 157, 991
od, turned and carved	19 38	$588 \\ 624$	9 29	$ \begin{array}{c} 141 \\ 52 \end{array} $	438 543	391	1,852,184	201, 296	2, 864, 769 302, 566	6, 827, 850 375, 385	3,821,879	16,919,417	10,091,567
1	,159 6	1, 452		9,705 50), 913 24	1,190 5,215	903,648	56,138	336, 847	477,908 171,753,102	309,042 95,176 23,543,320	1,247,937 1,182,779 273,923,259	872, 552 704, 871 102, 170, 157

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¹ Excluding statistics for establishments located outside of the corporate limits of Chicago, to avoid disclosure of individual operations. The figures for these estab-lishments are included under the head of "All other industries."

CHICAGO METROPOLITAN DISTRICT.

Comparative summary, by industries.-The number of establishments, average number of wage earners, and value of products for such of the industries as can

be shown separately and had a value of products amounting to \$5,000,000 or more in 1909 are given in Table 13 for 1909, 1904, and 1899, respectively.

COMPARATIVE SUMMARY FOR THE CHICAGO METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

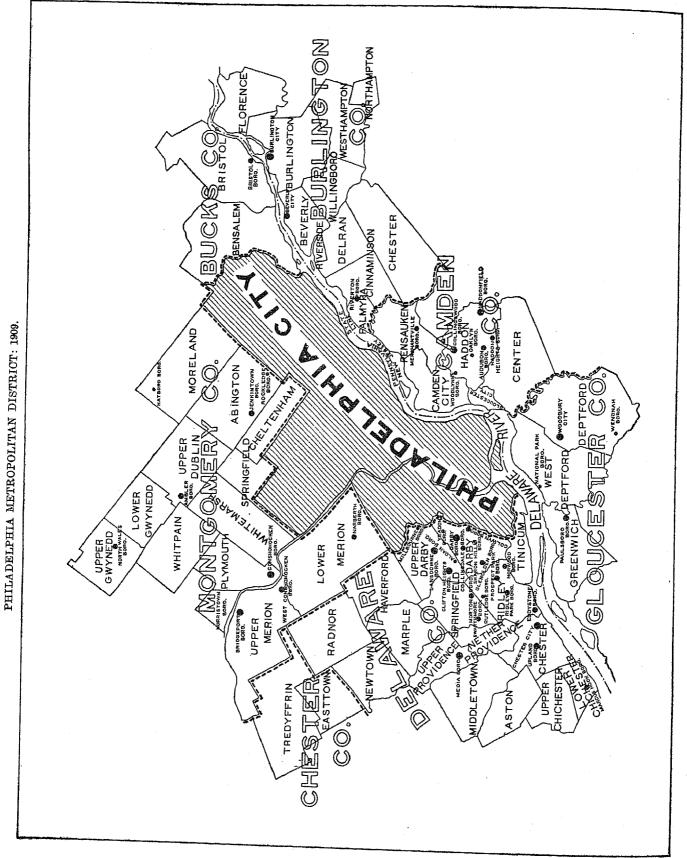
Table 13	37773	ABER	0.5	WAC	E EARI	VERG						PEI	I CENT	OF IN	CREAS	E.1		
INDUSTRY.	E	ABER STAB- HMEN	-	(A	VERAG JMBER	ε	VALL	E OF PRODI	ICTS.		imber dishme		Waş (avera	ge earn ge nun	iers iber).	Value	of proc	lucts.
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	190 1 - 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904
Slaughtering and meat packing Slaughtering and meat packing, wholesale	2 67 29	56 24	51 28		22,767 22,391		\$325,061,657 317.585.257	\$270, 548, 962 262, 586, 609		31.4 3.6	19. 6 20. 8	9.8 14.3	- 13.4 - 14.5	-3.1 -4.0	10.6 10.9	26.4 27.6	20. 1 20. 9	5.2 5.5
Slaughtering, wholesale, not in- cluding meat packing Sausage.	12 2 26	8 24	10	225	222	204 129	4,367,571 3,108,829	6,994,877 967,476	7, 715, 952 742, 202	20.0 100.0	50. 0 8. 3	20.0 84.6		1.4 124.0	8.8 19.4	-43.4 318.9		9.3 30.4
Foundry and machine-shop products.	721	599	(3)		30,002		104,319,563		1	•••••	20.4	• • • • • •		17.8			46.4 52.4	40.8
Clothing Men's, including shirts Women's	882 2678 204	767 ² 593 174	2905 151	5,615	$19,655 \\ 4,308$	15,019 3,988	100,973,332 85,296,407 15,676,925		37,846,669 9,208,454	-25.1 35.1	15.0 14.3 17.2		123.8 40.8		8.0	125.4 70.2	56. 1 34. 7	$ \begin{array}{r} 44.3 \\ 26.4 \end{array} $
Printing and publishing Book and job. Newspapers and periodicals. Music.	1,466 823 485 24	1,308 700 459 32	606 371	4, 119	11,518 3,481	9,552 3,814	76,070,564 37,405,284 30,901,282 946,517	53,472,267 26,243,822 21,991,468 579,417	18, 587, 539 14, 122, 484	30.5 35.8 30.7 9.1	12. 1 16. 6 5. 7 	16.5 16.5 23.7 45.5	66.0 8.0		13.3 20.6 -8.7	101.2	40.5	41.2 55.7
All other printing and publishing industries 4.	134			1		1	6,817,481	4,657,560	1	8.1	20.7	-10.5	69.8	40.4	21.0	99.0	46.4	36.0
Iron and steel, steel works and rolling mills. Lumber and timber products. Bread and other bakery products. Cars, steam-tailroad, not including	16 213 1,278	1 164	135		8,060	(³) 5,866 2,4,478	71,531,974 33,569,593 28,146,786	20,336,62	(³) 12,065,292 12,905,586	57.8 76.3	220.0 29.0 45.2	21. 5 21, 4	81. 0 50. 1	199.732.213.5	37.4	178.2 118.1		
eperations of railroad companies Electrical machinery, apparatus, and	. 24	11		10, 948	7,059	7,589	25, 462, 240 20, 668, 505							1				
supplies Furniture and refrigerators	·		1	n .		1 7.975	20,638,171	17,722,38		73.3	30.0				22.			
Soap. Liquors, malt. Coffee and spice, roasting and grinding Paint and varnish.	27 48 32	23 2 5t 23	27 3 37 3 25	2,13 2,90 1,00	1,832 5 2,762 5 94(5 1,484 3 2,272) 922	19,939,041 19,712,962 19,593,188	16,983,42 15,563,30	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 29. 4 28. 7 32.	39.1	51. -8. 13.	1 27.9) 9.1) 85.4	5.1 7.0 34.4	$ \begin{array}{c} 21.0 \\ 2.0 \\ 38.0 \\ \end{array} $	5 31.8 55.8 0 134.0	3 16.1 3 25.9 0 49.0	$ \begin{array}{c c} 13.5 \\ 23.4 \\ 5 \\ 56.4 \end{array} $
Tobacco manufactures Cigars and cigarottes	.11,070		8 846 822	5,34	3 4,40 1 3,65	1 3,510 1 2,885			8 8,235,26 5 5,180,72	7 30. 7 30.								
Chewing and smoking tobacco and snuff	. 32		4 24	1,05	75	0 631	8,057,350	4,229,73	3,054,54	33.	3 33.5	3	. 67.8	3 41.5	2 18.	9 163.1	8 90.1	5 38.5
Cars and general shop construction and repairs by steam-railroad com- panies	. 28	s •2:	2 24	11 1	1 '					11	1			1	t t			
Musical instruments. Planos and organs and materials Instruments and materials not	. 69 . 45		6 51 2 31		7 5,37 5 4,88	6 4,10	14,555,45	3 8,487,72	6 6, 896, 33	5 35.	5 31.5	2 3.	2 58.	9 33.	5 19.	0 111.	i 71.	5 23.1
specified	- 27	_	-	11		1		1	1 .	11		1	1		1			1
Leather, tanned, curried, and finished Copper, tin, and sheet-iron products Confectionery. Patent medicines and compounds	d 2- - 7268 - 9	8 17	4 16	2 3,85	4 2,47 9 4,39 5 2,96	1 3,66	9 12,241,95	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 8,437,49 3 5,757,33	5 65. 4 75.	4 54. 0 46.	0 7. 4 21.	4 5. 2 24.		1 19. 4 14.	7 45. 0 95.	1 2. 2 70.	8 41.1 5 14.5
and druggists' preparations	- 27	7 • 24	8 620	4 1,30	3 1,50	4 1,12	9 10,376,26	4 11,942,0	5,921,49	35.	8 11.	7 21.	6 20.	7 -12.	9 38.	5 75.	2 -13.	1 101.7
Boots and shoes, including cut stock and findings. Baking powders and yeast Leather goods. Food preparations	. 3 . 1		6 1 5 27	4 52	$\begin{bmatrix} 2 \\ 7 \end{bmatrix} \begin{bmatrix} 64 \\ 2, 04 \end{bmatrix}$	15 44 11 2,02	2 7,008,60 3 6,074,01	$\begin{bmatrix} 2 \\ 5 \end{bmatrix} \begin{bmatrix} 3,890,2 \\ 5 \end{bmatrix} \begin{bmatrix} 5,044,8 \end{bmatrix}$	58 3,335,8354 3,857,94	27 14. 14 43. 30 59.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c} 14.\\ 2 & 18.\\ 0 & -4.\\ \end{array} $	3 18. 1 4. 1 42.	1 —19. 6 8. 5 31.	1 45. 6 0. 9 8.	9 57. 0 96.	1 80. 4 20. 2 86.	$\begin{array}{cccc} 2 & 16.6 \\ 4 & 30.8 \\ 4 & 5.3 \end{array}$
Carriages and wagons, and materials Brass and bronze products Boxes, fancy and paper Canning and preserving	3. 14 ² 5	$\begin{array}{ccc} 4 & 13 \\ 6 & 4 \\ 8 & 3 \end{array}$	0 10	4 1,1(8 3,6)	92,32	74 78	$\begin{bmatrix} 5, 131, 31 \\ 5, 043, 65 \end{bmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 77 \\ 2,703,04 \\ 71 \\ 2,923,29 \end{bmatrix}$	12 27. 99 26.	3 21. 3 23.	7 4. 1 2.	5 48. 6 51.	1 19. 6 55.	8 23. 3 -2.	6 89. 4 72.	8 46. 5 78.	6 29.5 5 -3.4

A minus sign (--) denotes decrease. Percentage not shown where base is less than 100 for wage carners.
Excluding statistics for one establishment, to avoid disclosure of individual operations.
Comparable figures not available.
Includes "bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing."
Excluding statistics for five establishments, to avoid disclosure of individual operations.
Excluding statistics for two establishments, to avoid disclosure of individual operations.
Excluding statistics for two establishments, to avoid disclosure of individual operations.
Excluding statistics for two establishments, to avoid disclosure of individual operations.

The greatest absolute increase during the decade in value of products shown for any individual industry included in the table was for slaughtering and meat packing-\$67,791,506, or 26.4 per cent; the greatest relative increase for any single industry (178.2 per cent) was reported for the lumber industry.

The blast-furnace industry, the manufacture of agricultural implements, the smelting and refining of lead, the gas industry, the refining of petroleum, and the manufacture of cordage and twine and jute and linen goods, of flour and grist mill products, of distilled liquors, of oleomargarine, of cement, and of glucose and starch are among the important industries in the district that can not be shown separately, as to do so would disclose individual operations. They are mentioned in the order of their importance.

The inclusion, in this comparative table, of the 1909 statistics for industries in the territory added since 1904 raises very much the total value of products of steel--- "iron and steel, steel works and rolling mills," and of musical instruments, pianos and organs and materials.



(920)

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PHILADELPHIA METROPOLITAN DISTRICT.

Territory included.-The metropolitan district of Philadelphia embraces 437,733 acres of territory, of which 83,340 acres represent the area of Philadelphia, and 354,393 acres the area of the outside territory. The population of the city of Philadelphia proper in 1910 was 1,549,008, and that of the outside territory 423,334, the total for the district being 1,972,342.

As defined at the Thirteenth Census, the metropolitan district comprised, in addition to the city of Philadelphia, 6 cities, 42 boroughs, and 49 townships-a total of 97 civil divisions. Five of the cities, 11 of the boroughs, and 17 of the townships are situated in New Jersey. The district covered by the statistics published in the bulletin on industrial districts for 1904 contained, besides Philadelphia, 68 civil divisions, all but 8 of which are among the number included for 1909. These 8 divisions comprise Southampton township in Bucks County, Pa.; Thornbury and Willistown townships in Chester County, Pa.; and Bethel, Birmingham, Concord, Edgemont, and Thornbury townships in Delaware County, Pa.

The various cities, boroughs, and townships included in the metropolitan district in 1909 are shown below, by counties. Places included in the district in 1904 are indicated by (*):

PENNSYLVANIA.

PHILADELPHIA COUNTY.

*Philadelphia city.

BUCKS COUNTY.

*Bensalem township. Bristol borough.

CHESTER COUNTY.

*Easttown township.

Tredyffrin township.

Bristol township.

DELAWARE COUNTY.

DELAWAR	COUNTE,
*Aldan borough.	*Morton borough.
*Aston township.	*Nether Providence township.
*Chester city.	*Newtown township.
*Chester township.	*Norwood borough.
*Clifton Heights borough.	*Prospect Park borough.
*Collingdale borough.	*Radnor township.
*Colwyn borough.	*Ridley township.
*Darby borough.	*Ridley Park borough.
*Darby township.	*Rutledge borough.
*Eddystone borough.	*Sharon Hill borough.
*Glenolden borough.	*Springfield township.
*Haverford township.	*Swarthmore borough.
*Lansdowne borough.	*Tinicum township.
*Lower Chichester township.	*Upland borough.
*Marcus Hook borough.	*Upper Chichester township.
*Marple township.	*Upper Darby township.
*Media borough.	*Upper Providence township.
*Middletown township.	*Yeadon borough.
*Millbourne borough.	

PENNSYLVANIA-Continued.

MONTGOMERY COUNTY.

*Abington township. Ambler borough. Bridgeport borough. *Cheltenham township. *Conshohocken borough. *Hatboro borough. *Jenkintown borough. Lower Gwynedd township. *Lower Merion township. *Moreland township. *Narberth borough.

Norristown borough. North Wales borough. *Plymouth township. *Rockledge borough. *Springfield township. Upper Dublin township. Upper Gwynedd township. Upper Merion township. *West Conshohocken borough. *Whitemarsh township. Whitpain township.

Florence township.

Palmyra township.

Riverton borough.

Riverside township.

Northampton township.

Westhampton township.

*Haddon Heights borough.

*Haddonfield borough.

*Pensauken township.

*Merchantville borough. *Oaklyn borough.

Willingboro township.

NEW JERSEY.

BURLINGTON COUNTY.

Beverly city. Beverly township. Burlington city. Burlington township. Chester township. Cinnaminson township. Delran township.

CAMDEN COUNTY.

*Audubon borough. *Camden city. *Center township. *Collingswood borough. *Gloucester city. *Haddon township.

Deptford township.

Paulsboro borough.

Greenwich township.

National Park borough.

*Woodlynne borough. GLOUCESTER COUNTY. Wenonah horough.

West Deptford township. Woodbury city.

On page 920 is an outline map of the metropolitan district as constituted in 1909, showing the various cities, boroughs, and townships included.

Summary for the district.-Table 14 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Philadelphia district; for the cities of Philadelphia, Pa., Camden, N. J., and Chester, Pa., and the borough of Norristown, Pa.; and for the remainder of the district. The percentage which the figure for Philadelphia represents of the total for the district is shown in the case of each item.

In 1909 the Philadelphia metropolitan district had 9,568 manufacturing establishments, which gave employment to an average of 358,218 persons during the year, and paid out \$200,933,659 in salaries and wages. Of the persons employed, 308,947 were wage earners. These establishments turned out products to the value

of \$911,014,010, to produce which materials costing \$529,992,413 were utilized. The value added by manufacture was thus \$381,021,597. The Philadel- | its manufactured products.

phia district ranked third in 1909 among all the metropolitan districts of the United States in the value of

Table 14			NUMB	ER OR AMOUNT				Per cent
	The district.			District exc	clusive of Phila	delphia.		Philadel- phia is of total
	The district.	Philadelphia.	Total.	Camden.	Chester. Norristown.		Romainder.	for district.
Population 1 Number of establishments Persons engaged in manufactures Proprietors and firm members Salaried employees Wage carners (average number) Primary horsepower Capital Expenses Salaries Wages Matorials Miscellaneous Value of products Value added by manufacture	368, 218 10, 263 39, 008 308, 947 497, 453 \$863, 968, 450 810, 775, 271 200, 933, 659 46, 619, 252 154, 314, 407 529, 992, 413 529, 992, 413	$\begin{array}{c} 1,549,008\\ 8,379\\ 204,408\\ 9,162\\ 33,452\\ 251,884\\ 3601,306,873\\ 663,405,035\\ 165,827,013\\ 30,446,184\\ 120,380,829\\ 420,002,277\\ 85,485,746\\ 746,075,659\\ 316,983,382\\ \end{array}$	$\begin{array}{r} 423, 334\\ 1, 189\\ 63, 720\\ 1, 101\\ 5, 556\\ 57, 063\\ 312, 503\\ $172, 571, 577\\ 147, 370, 236\\ 35, 106, 646\\ 7, 173, 068\\ 27, 033, 578\\ 100, 900, 136\\ 11, 463, 454\\ 164, 638, 351\\ 64, 038, 215\\ \end{array}$	$\begin{array}{r} 94,538\\ 365\\ 18,700\\ 9,315\\ 1,867\\ 16,527\\ 29,056\\ \$49,158,308\\ 42,679,240\\ 11,013,136\\ 2,400,488\\ 8,606,648\\ 27,383,800\\ 4,282,304\\ 49,137,874\\ 21,754,074\\ \end{array}$	$\begin{array}{r} 38,537\\128\\7,867\\102\\779\\6,988\\17,181\\\$23,928,262\\17,053,434\\4,355,504\\964,501\\3,392,003\\11,576,388\\1,120,542\\19,373,314\\7,706,926\end{array}$	$\begin{array}{c} 27,875\\111\\4,223\\001\\3,818\\5,713\\56,983,733\\6,009,126\\1,981,134\\378,130\\1,553,004\\3,274,199\\803,793\\7,413,211\\4,139,012\\\end{array}$	$\begin{array}{r} 262, 384\\ 585\\ 32, 021\\ 580\\ 29, 732\\ 79, 603\\ 29, 732\\ 79, 603\\ 802, 501, 274\\ 81, 628, 436\\ 17, 805, 872\\ 3, 423, 949\\ 14, 381, 923\\ 58, 665, 749\\ 5, 156, 815\\ 89, 013, 952\\ 30, 348, 203\\ \end{array}$	81.0 85.8 81.9

1 April 15, 1910.

The greater part of the value of the manufactured products of the district was reported by factories within the central city. Philadelphia contained over three-fourths (78.5 per cent) of the population of the district in 1910, and contributed over four-fifths (81:9 per cent) of the value of manufactured products for 1909. Its manufacturing establishments constituted 87.6 per cent of the total number of such establishments in the district and gave employment to 81.5 per cent of the average number of wage earners for that area.

Of the places outside of Philadelphia for which statistics are given separately, Camden, N. J., had the largest value of manufactured products in 1909, representing 5.4 per cent of the total for the metropolitan district. The population of Camden was 4.8 per cent of the total for the district in 1910.

The group of cities, boroughs, and townships not shown separately, with a combined population equal to 13.3 per cent of the total for the district, contributed 9.7 per cent of the value of products.

The principal industries of Philadelphia in 1909, as measured by value of products, were the woolen and worsted goods industry, printing and publishing, the refining of sugar, foundries and machine shops, the making of women's clothing and of men's clothing, including shirts, and petroleum refining; of Camden, the tanning, currying, and finishing of leather, and shipbuilding; of Chester, the metal-working and textile industries; and of Norristown, the hosiery and knitgoods industry. A large number of other places in the district, statistics for which are not given separately, reported manufactured products ranging from approximately \$1,200,000 to \$10,000,000 in value in 1909. These places included, in Pennsylvania, Eddystone borough, with foundries and machine shops and tex-

tile dyeing and finishing works; Lower Merion township, with steel works and structural iron plants; Bristol borough, with leather and woolen factories; Marcus Hook borough, with petroleum refineries; Conshohocken borough, with steel works; Clifton Heights and Bridgeport boroughs, with woolen factories; Ambler borough, with plants manufacturing steam packing; and Upper Darby township, with flour mills and gristmills. In New Jersey, the places that reported a large value of products included Gloucester city, with factories manufacturing gas and lamp fixtures; Riverside township, with the manufacture of watch cases; and Burlington city and Florence township, with plants manufacturing cast-iron and steel pipe.

Comparison with earlier censuses.-Table 15 gives statistics for the district for 1909, 1904, and 1899, together with the percentages of increase from census to census. For purposes of accurate comparison the statistics for 1909 have been adjusted by segregating the figures for the territory added since 1904; and those for 1904 and 1899 by segregating the figures for the territory deducted since 1904.

The percentage of increase in all items shown except miscellaneous expenses was greater during the later five-year period 1904-1909 than during the period 1899-1904. For the decade 1899-1909 the relative increase was greater in the amount paid for salaries and in the number of salaried employees than for any other items. The average number of wage earners increased 23.2 per cent during this period, but the wages increased 40.3 per cent, a rate of gain somewhat less than that in value of products, 51.3 per cent. The rate of increase in primary horsepower of all kinds from 1904 to 1909 was 27.6 per cent. Statistics as to the primary power used in 1899 are not available.

PHILADELPHIA METROPOLITAN DISTRICT.

Table 15				NUMBE			OF E.1					
		1909			1904			1899				
	Total.	Territory added since 1904.	Remainder of district. ²	Total.	Terri- tory de- ducted since 1904.	Remainder of district. ²	Total.	Terri- tory de- ducted- since 1904.	Remainder of district. ²	1899- 1909	1904- 1909	1899- 1904
Population Number of establishments Persons engaged in manufactures Salaried employees Wage earners (average number) Primary horsepower Capital Sorvices Sorvices Salaries Wages Miscellaneous Value added by manufacture	$\begin{array}{r} 39,008\\ 308,947\\ 497,453\\ 8863,908,450\\ 810,775,271\\ 200,933,659\\ 40,619,252\\ 154,314,407\\ 529,092,413\end{array}$	* 117, 127 227 11, 439 906 10, 339 23, 864 \$31, 623, 055 26, 626, 103 5, 350, 225 1, 024, 957 4, 334, 278 19, 351, 001 1, 915, 957 28, 286, 032	9,341	7,780	(*) 9 137 12 10 115 776 \$425,276 \$467,060 74,034 18,180 55,854 364,723 28,303 484,604 119,881	8,768	(9) 19,163 242,551 (5) \$505,847,424 502,835,584 128,069,629 21,105,446 100,964,183 330,895,698 43,870,257 582,998,753	(6) (6) (12) 135 (6) \$265,979 201,076 52,022 8,778 43,244 142,671 6,383 219,305	8,190 (0) (19,151 242,416 505,581,445 502,634,508 128,017,607 21,096,668 106,920,939 330,753,027 43,863,874	$\begin{array}{c} 14.1\\\\ 98.9\\ 23.2\\\\ 64.6\\ 56.6\\ 56.6\\ 116.1\\ 40.3\\ 54.4\\ 77.7\\ 51.3\end{array}$	$\begin{array}{c} 20.2\\ 17.3\\ 14.8\\ 49.5\\ 14.3\\ 27.6\\ 33.9\\ 30.4\\ 28.8\\ 58.2\\ 21.9\\ 21.9\\ 24.9\\ 30.2\end{array}$	-5.1 33.0 7.8 23.0 19.7 18.6 36.6 15.1 17.1 42.2 16.2

A minus sign (-) denotes decrease.
 Figures in this column used in computing percentages of increase.

³ April 15, 1910. ⁴ No population census of Pennsylvania in 1905.

⁵ June 1, 1900. ⁶ Figures not available.

The proportion of manufactures in the outside territory of the metropolitan district is constantly increasing, as is indicated by Table 16. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904, and those for 1904 and 1899 upon the figures for the district exclusive of the territory subsequently deducted.

Table 16		TERRITORY DELPHIA IS RICT.	
	1909 ¹	1904 °	1899 ²
Population. Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employees. Wage earners (average number) Primary horsepoweet. Capital. Expenses. Services. Salaries. Materials. Materials. Miscellaneous. Value of products.	$\begin{array}{c} 10.3\\ 15.1\\ 9.0\\ 12.2\\ 15.6\\ 22.7\\ 16.9\\ 15.4\\ 15.2\\ 13.5\\ 15.7\\ 16.7\\ 16.0\\ 12.1\\ 15.4\\ 15.2\\ 13.5\\ 15.7\\ 16.0\\ 12.1\\ 15.4\\ 15.4\end{array}$	$(^{3})$ 8,8 12,1 7,2 10,4 12,4 21,8 16,3 13,2 12,4 11,9 12,5 13,9 11,1 12,7 11,1	$\begin{array}{c} 15.6\\ 8.4\\ (^4)\\ (^9)\\ 8.6\\ 11.4\\ (^4)\\ 11.8\\ 10.7\\ 11.2\\ 10.3\\ 11.4\\ 10.8\\ 9.1\\ 10.8\\ 9.1\\ 10.8\\ 10.8\end{array}$

¹ Based on figures for district as constituted in 1909, exclusive of territory added I have a final result of the source of the so

The proportion of the population of the district as originally constituted reported for the territory outside of Philadelphia increased from 15.6 per cent in 1900 to 16.5 per cent in 1910, and the proportion of the value of products contributed by the outlying territory increased steadily, from 10.8 per cent in 1899 to 12.7 per cent in 1904 and 15.4 per cent in 1909.

Leading industries.-Table 17 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the 101 industries shown separately in the table, there are 17 for which the totals for the district can not be given without disclosing individual operations and 18 which were not carried on in 1909 in the part of the district that is outside the city limits. In the case of all these industries, with the exception of one in the former group, the statistics shown are figures for Philadelphia only.

Of the industries shown separately, the woolen and worsted goods industry ranked highest in value of products in 1909, with 8.4 per cent of the total reported for all industries in the district, followed by foundries and machine shops, with 6.5 per cent of this total, and printing and publishing, with 5.1 per cent. Two industries-the men's clothing and cotton-goods industries-each contributed 3.2 per cent of the total value of products for the district, the making of women's clothing exceeding them slightly, with 3.3 per cent. These small percentages tend to show the great total value of the manufactures, as well as their large variety. The industries in which this, the third greatest metropolitan district, led all other districts in 1909 were the manufacture of carpets and rugs, of furfelt hats, and of hosiery and knit goods.

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SUMMARY FOR THE PHILADELPHIA METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 17		PE	RSONS E INDU	NGAGE STRY.	d in								
INDUSTRY,	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscella- neous expenses.	Value of products.	Value added by manufac ture.
All industries	9, 568	358, 218	10, 263	39,008	308,947	497, 453	\$863,968,450	\$46, 619, 252	\$154, 314, 407	\$529, 992, 413	\$79, 849, 199	\$911, 014, 010	\$381,021,5
Artificial flowers and feathers and plumes. Automobiles, including bodies and	29	915	35	76	804	70	934, 444	71,569	261, 863	674,942	111, 125	1,313,901	638,
Babbitt metal and solder. Belting and hose, leather. Belting and hose, woven and rub-	$ \begin{array}{c} 22 \\ 11 \\ 13 \end{array} $	943 212 188	17 8 13	93 67 50	833 137 119	657 174 286	1, 911, 164 783, 315 636, 841	130, 404 66, 342 62, 616	562, 271 79, 235 81, 400	1, 160, 387 1, 466, 586 809, 245	229, 995 64, 402 47, 634	2, 161, 774 1, 759, 625 1, 104, 086	1,001, 293, 294,
Blacking and cleansing and polish-	. 3	393	1	71	321	927	919, 940	88, 126	147, 793	690, 754	92,068	1,074,843	384,
ing preparations	34 82	250 5,286	33 98	82 394	135 4, 794	238	406, 299 5, 173, 846	82, 406 532, 616	59,664 2,172,641	320, 428 5, 037, 440	90, 189 418, 078	623, 597 8, 826, 515	303, 3,789,
Boxes, fancy and paper Brass and bronze products	70 54	346 3,852 1,330	9 71 43	17 254 196	320 3,527 1,091	362 1,488 1,710	364, 160 2, 556, 384 3, 372, 049	26, 376 250, 340 264, 489	124,521 1,157,609 653,801	322,814 1,682,977 2,696,556	28, 594 341, 850 221, 589	8, 826, 515 542, 983 3, 963, 100 4, 323, 789	3,789, 220, 2,280, 1,627,
Bread and other bakery products. Brick and tile. Brushes. Buttons. Canning and preserving	1 07 1	7, 810 1, 997 340 740 804	1,411 77 41 23 26	1, 140 80 40 49 150	5,259 1,840 259 668 628	4,460 4,492 187 393 723	16, 083, 118 3, 847, 196 517, 315 551, 121 1, 527, 752	965,776 85,652 39,302 66,777 165,589	2, 976, 470 974, 607 129, 765 284, 600 226, 086	$12,866,192 \\ 576,623 \\ 385,373 \\ 585,627 \\ 1,771,581$	$\substack{1, 317, 593\\303, 678\\65, 178\\54, 206\\184, 596}$	21, 105, 889 2, 335, 712 719, 159 1, 158, 550 2, 537, 533	8,239, 1,759, 333, 572, 765,
Carpets and rugs, other than rag Carriages and wagons and materials. Cars and general shop construction and repairs by steam-railroad companies	90 128	11,546 1,955	102 147	445 117	10, 999 1, 691	12,165 1,352	24, 175, 744 8, 001, 171	748, 987 143, 813	4, 991, 642 1, 065, 511	14,000,176 1,313,599	2,009,846 215,206	23, 961, 307 3, 357, 654	9, 961, 2, 044,
comparies. Chemicals. Jocks and watches, including cases and materials.	14 23 15	4, 478 2, 677 937	 18 3	388 326 160	4,090 2,333 774	2,786 5,946	5,011,514 15,620,510	280,615 497,463	2,849,401 1,340,705	2, 892, 185 7, 793, 494	159, 812 656, 759	6, 182, 014 11, 720, 552	3, 289, 1 3, 927,
Nothing, horse Nothing, men's, including shirts Nothing, women's	1 ~ 1	243	5	35	203	793 141	2, 737, 282 435, 218 15, 310, 716	162, 446 47, 570	399, 096 77, 296	977,648 509,161	204, 673 51, 122	1,965,029 719,946	987,: 210,*
offee and spice, roasting and grind.	461 355 69	14,597 15,696 728	723 581 85	$1,180 \\ 1,556 \\ 251$	12, 694 13, 559	2,647 2,010	10, 610, 964	1,307,794 1,535,681	6, 111, 911 6, 593, 164	14, 774, 702 16, 692, 952	4,118,327 1,526,447	29, 598, 311 30, 193, 475	14,823, 13,500,
ing	149	3,667	157	377	392 3, 133	1,367 1,887	1, 915, 919 4, 580, 167	229, 106 463, 067	196, 240 1, 080, 794	3, 845, 563 4, 675, 066	232, 397 762, 640	5,033,514 7,862,383	1, 187, 3, 187,
opper, tin, and sheet-iron products	1 44 148	814 3,615	47 175	34 400	733 3,040	$\substack{\begin{array}{c}729\\2,129\end{array}}$	1, 500, 859 6, 683, 076	57,006 420,989	343, 696 1, 622, 543	1, 448, 604 4, 442, 296	98, 792 478, 893	2, 213, 712 7, 726, 681	765, 3,284,
otton goods, including cotton	1 8 161	1,214 14,107	8 149	43	1,163	2,250	3, 816, 268	104,517	429, 250	2, 135, 412	75, 007	3, 324, 660	1, 189,
utlery and tools, not elsewhere specified.	40	1,355	45	809 159	13, 149 1, 151	21,562 2,659	27,357,043 3,595,982	1,451,018 178,229	5, 814, 873 682, 821	16,556,128 824,793	2,189,029 266,180	29, 496, 078 2, 289, 062	12,939,9
Dentists' materials. Dyeing and finishing textiles. Sectrical machinery, apparatus,	20 1 104	812 3,991	24 133	$\frac{112}{283}$	676 3,575	266 7,037	2, 218, 673 6, 178, 763	152,776 357,645	334, 447 1, 828, 587	1, 223, 444 2, 413, 309	167, 372 524, 587	2, 289, 062 2, 148, 996 6, 327, 261	1,464,1 925,
ancy articles, not elsewhere speci-	49	2,355	27	539	1,789	2, 769	6, 803, 248	573,810	935, 023	3, 290, 886	1,064,541	7, 146, 485	3, 913, 9 3, 855, 8
ertilizers	42 12	827 1,068	47 9	$\begin{smallmatrix}&61\\152\end{smallmatrix}$	719 907	341 3,546	882, 995 4, 864, 497	52, 721 237, 597	296,278 429,166	545,025 3,533,270	128, 308 402, 357	1,281,392 4,958,699	736, 1, 425,
iles lour-mill and gristmill products out preparations oundry and machine-shop prod-	7 63 73	1,298 332 1,663	4 83 73	77 44 415	$^{1,217}_{205}$ 1,175	1,313 3,352 2,141	2,686,218 1,593,178 4,867,923	91,445 54,595 518,080	527, 845 120, 799 567, 601	426, 845 4, 348, 714 3, 578, 821	110, 877 99, 037 627, 357	1,539,566 5,036,925 6,364,404	1, 112, 688, 2, 785,
ur goods	635 47	29, 508 284	571 59	3, 838 44	25,099 181	36, 505 10	79, 759, 158 872, 276	4, 712, 254 31, 289	14, 781, 794 128, 529	29, 228, 846 461, 921	4,971,559 97,122	59,633,212 1,031,564	30, 404, 3 569, 0
Irnishing goods, men's. Irniture and refrigerators. Is and electric fixtures and lamps	39 151	1,680 4,189	50 166	321 497	1,309 3,526	143 4,065	1,528,657 7,647,916	378,590 619,031	515, 876 2,009, 627	2, 704, 554 3, 841, 914	215, 801 736, 207	4, 282, 649 8, 306, 258	1,578,0 4,464,3
and reflectors	12	$\begin{array}{c c}1,376\\3,256\\1,185\end{array}.$	38 1	$242 \\ 1,063 \\ 72 \\ 72 \\ 1 \\ 72 \\ 72 \\ 72 \\ 72 \\ 72 $	$1,096 \\ 2,193 \\ 1,112$	879 6,828 419	2,083,017 38,272,880 1,251,725	254, 323 946, 176 89, 431	604, 091 995, 892 559, 371	812,770 3,071,857 497,723	347, 055 2, 021, 969	2, 177, 032 12, 383, 349 1, 367, 246	1,364,2 9,311, 869,2
ass, cutting, staining, and orna- menting ease and tallow at and cap materials ats and cap other then talt	54 17	832 477	55 32	92 116	685 329	599 847	1,263,651 1,911,998	77,076	383, 379 175, 161	917, 803 1, 661, 716	102, 995 122, 016 248, 741 125, 808	1, 367, 246 1, 685, 088 2, 468, 171 822, 369	869,2 767,2 806,4 289,4
ats and caps, other than felt, straw, and wool	6 42 1 27	205 562 6,080	6 55 34	38 43 221	161 464	185 51	398, 676 426, 318	130, 461 33, 336 53, 570	68, 394 187, 960	532, 928 412, 707	53, 696	802,953	
¹ Excluding statistics for establish tablishments are included under th	hments]	located (outside	of the	5,825 corpora	4, 163 te limit	13,337,205 8 of Philadel	341,435]					390, 5 6, 838, 9

PHILADELPHIA METROPOLITAN DISTRICT.

SUMMARY FOR THE PHILADELPHIA METROPOLITAN DISTRICT, BY INDUSTRIES: 1909-Continued.

Table 17-Continued.		PER	SONS EN INDUS		IN								
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscella- neous expenses.	Value of products.	Value added by manufac- ture.
Hats, straw	9	531	7	64	460	85	\$ 498, 430	\$116,568	\$213, 979	\$403,000	\$48,652	\$ 872 , 13 5	\$469,135
Hats, straw House-furnishing goods, not else- where specified. Hosiery and knit goods Ice, manufactured Ink, printing.	19 190 54 8	610 19,345 916 246	$18 \\ 206 \\ 24 \\ 6$	60 898 139 75	532 18, 241 753 165	511 9, 201 16, 617 483	$\substack{1, 262, 790\\21, 139, 386\\6, 770, 869\\742, 447}$	$73,034 \\1,024,814 \\128,237 \\94,362$	149, 249 6, 466, 886 510, 706 104, 581	995, 986 14, 447, 804 684, 893 622, 582	$157,346 \\ 1,881,693 \\ 376,088 \\ 171,841$	1, 488, 736 26, 830, 879 2, 174, 057 1, 050, 113	492, 750 12, 383, 075 1, 489, 164 427, 531
Instruments, professional and scien- tific	32	725	28	107	590	701	1,359,768	114,865	350, 822	226, 525	116, 438	924,367	697,842
Tron and steel steel works and roll.	21	10,078	6	879	9, 193	48, 598	32, 725, 245	1,306,326	5, 330, 367	12, 800, 813	1,777,109	23, 990, 217	11, 189, 404
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills Iron and steel forgings Jewelry	9 14 1 52	900 486 411	7 8 69	84 72 47	809 406 295	1,573 1,769 110	2, 185, 094 1, 682, 423 664, 396	99,582 106,781 37,611	355, 571 287, 806 186, 454	732,560 600,533 426,784	172,987 87,948 69,873	1,405,688 1,185,675 884,433	673,128 585,142 457,649
Labels and tags. Leather goods. Leather, tanned, curricd, and fin-		344 2,115	11 112	58 279	275 1, 724	314 465	453, 056 2, 743, 425	55,150 373,519	126, 316 789, 857	259, 549 2, 163, 672	56,084 208,045	568, 859 4, 039, 367	309,310 1,875,695
lished. Liquors, distilled. Liquors, malt.	$57 \\ 6 \\ 52$	8,301 140 2,410	46 50 32	503 30 423	60	10, 803 549 14, 031	23, 208, 137 1, 269,000 29, 919, 166	843, 194 42, 189 1, 095, 199	3,950,336 70,096 1,511,845	24, 289, 672 383, 126 4, 169, 247	1,871,332 535,165 5,323,271	33,626,349 935,966 15,170,357	9,336,677 552,840 11,010,110
Looking-glass and picture frames Lumber and timber products Marble and stone work Mattresses and spring beds Millinery and lace goods	39 126 134 138 96	431 4,385 2,203 408 3,941	51 128 176 37 131	44 342 134 62 275	338 3,915 1,893 309 3,535	145 9,612 3,335 471 569	$\begin{array}{r} 417,367\\7,329,979\\3,510,136\\602,928\\2,814,129\end{array}$	36, 496 395, 456 150, 192 49, 928 227, 634	$174,089 \\ 2,220,513 \\ 1,272,640 \\ 138,118 \\ 1,181,553$	305, 088 5, 451, 508 1, 606, 161 650, 779 3, 230, 505	66,679 433,341 229,488 93,409 511,138	830, 181 9, 443, 170 3, 975, 294 1, 068, 682 5, 921, 256	$\begin{array}{r} 434,193\\3,991,662\\2,369,133\\411,903\\2,690,751\end{array}$
Mineral and rade maters	100	611 105	113 8	$^{112}_{31}$	386 66	438 193	1, 403, 267 366, 964	$134,547 \\ 55,512$	230,009 30,225	748, 855 611, 045	485,637 51,744	2, 182, 368 808, 054	1, 433, 513 197, 009
Micilage and paste. Musical instruments, planos and organs and materials Oil, not elsewhere specified Optical goods.	1 14 13 14	501 285 419	13 10 12	80 112 116	458 163 291	361 718 110	562, 611 1, 408, 900 455, 324	41,596 132,594 89,571	$155,286 \\ 97,522 \\ 123,330$	$\substack{400,101\\1,571,924\\272,752}$	96,043 155,894 61,174	775,2372,069,023620,693	375, 136 497, 099 347, 941
Paint and varnish Paper and wood pulp Paper goods, not elsewhere specified Patent medicines and compounds and druggists' preparations Photographic apparatus and mate- riate		2,020 1,905 1,777	54 7 35	415 133 319	1,551 1,765 1,423	5,451 14,410 1,500	$\begin{array}{c} 11,677,576\\ 6,991,025\\ 3,416,254 \end{array}$	$\begin{array}{c} 655, 624 \\ 237, 336 \\ 328, 215 \end{array}$	864,060 876,069 562,590	6, 571, 287 3, 411, 994 2, 342, 113	898, 837 799, 842 422, 689	$\begin{array}{c} 10, 107, 711 \\ 5, 869, 693 \\ 3, 907, 711 \end{array}$	3,536,424 2,457,699 1,565,598
Patent medicines and compounds and druggists' preparations	194	3, 422	164	962	2,296	2, 103	10, 459, 787	1, 138, 369	962, 132	4, 328, 756	2,315,182	10,098,183	5, 760, 427
11010		192	6	39	147	114	456, 259	46, 591	104, 137	416, 123	57,292	672, 908	256, 785
Photo-engraving. Pottery, terra-cotta, and fire-clay	1 16	546	15	134	397	105	523, 182	140, 755	381,086	185,230	123,867	917, 108	731,878
Photo-engraving. Pottery, terna-cotta, and fire-clay products. Printing and publishing. Shoddy. Silk and silk goods, including throwstere	$\begin{array}{c c} & 21 \\ 1,037 \\ & {}^220 \end{array}$	967 21,650 518	14 991 32	101 6,471 36	852 14,188 450	1,556 12,750 2,170	2, 744, 334 43, 747, 327 1, 627, 096	$\begin{array}{r}140,772\\5,994,440\\47,039\end{array}$	505,707 8,514,440 185,740	792,994 15,613,927 1,463,218	260,842 8,983,282 74,061	2,020,161 46,675,524 2,051,118	$1,227,167 \\31,061,597 \\587,000$
111 0 W BUAD		3,543	32	270	3,241	2, 425	6, 355, 129	323, 449	1,306,130	3,648,775	544,529	6, 808, 089	3, 159, 314
Slaughtering and meat packing Soap Soda-water apparatus. Springs, steel, car and carriage Steam packing.	98 41 4 5 20	$1,633 \\ 1,336 \\ 246 \\ 256 \\ 2,059$	127 44 6 1 15	240 295 52 28 511	$\begin{array}{c c}1,266\\&997\\&188\\&227\\&1,533\end{array}$	$ \begin{array}{r} 3,712 \\ 1,840 \\ 180 \\ 505 \\ 5,270 \\ \end{array} $	5, 333, 504 4, 637, 198 713, 086 644, 571 6, 466, 853	$\begin{array}{c c}311,658\\346,746\\44,660\\42,249\\424,744\end{array}$	899,096 473,442 122,242 125,268 753,577	$\begin{smallmatrix} 21,922,302\\5,837,845\\194,941\\254,934\\2,450,519 \end{smallmatrix}$	$593,046 \\1,185,448 \\141,624 \\36,116 \\676,013$	$\begin{array}{c} 24,726,467\\8,643,437\\585,189\\534,935\\4,275,695\end{array}$	$\begin{array}{c} 2,804,105\\ 2,805,592\\ 390,248\\ 280,001\\ 1,825,176\end{array}$
Stereotyping and electrotyping		315	13	39	263	284	283, 911	49, 321	196, 217	113, 131	43, 495	520, 969	407, 838
Stoves and furnaces, including gas and oil stoves. Tobacco manufactures. Type founding and printing mate-	20 558	984 9,117	18 601	120 636	846 7,880	891 1, 328	2, 392, 606 9, 274, 919	174, 461 768, 388	550, 130 3, 089, 955	785,586 6,049,325	289,999 3,265,287	2,069,846 15,577,862	1,284,200 9,528,537
rials	- 8	405	6	104	295	275	1,086,090	91,660	160,000	196, 477	108,236	580, 172	353,695
Umbrellas and canes Upholstering materials Wall paper Wall plaster	. 7	$\begin{array}{c} 1,297 \\ 445 \\ 606 \\ 333 \end{array}$	81 10 . 1 . 1	100 48 63 64	1,166 387 542 268	1,342 810 770 1,416	3, 413, 424 1, 641, 174 1, 655, 254 869, 049	101, 891 44, 948 129, 016 90, 054	504, 830 177, 928 258, 745 137, 475	$\begin{array}{c} 1,000,134\\ 1,094,603\\ 1,228,758\\ 358,279 \end{array}$	114,393 166,737 171,211 90,985	2,074,521 1,728,857 2,005,354 700,053	1,014,387 634,254 776,596 341,774
Wirework, including wire rope and cable	. 31	634 466	34 33	53 25	547 408	441 488	916, 039 428, 326	86, 392 21, 539	290,817 158,062	413, 798 167, 495	104,710 16,292	1, 019, 4 14 537, 246	605,616 369,751
Woolen, worsted, and felt goods, and wool hats All other industries	. 164	27,577 48,107	180 865	917 4,542	26, 480 42, 700	47, 893 112,334	73, 339, 391 172, 592, 600	$\substack{1,666,839\\6,114,757}$	10, 538, 596 23, 544, 677	54, 478, 419 125, 461, 846	3, 651, 564 10, 379, 815	76, 261, 845 177, 832, 939	21, 783, 426 52, 371, 093

¹ Excluding statistics for establishments located outside of the corporate limits of Philadelphia, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."
 ² Excluding statistics for one establishment, to avoid disclosure of individual operations. The figures for this establishment are included under the head of "All other industries."

the number of establishments, average number of wage earners, and value of products are given for 1909, 1904, | ing to \$4,000,000 or more in 1909.

Comparative summary, by industries.—In Table 18 | and 1899, for such of the selected industries as can be shown separately and had a value of products amount-

COMPARATIVE SUMMARY FOR THE PHILADELPHIA METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 18		MBER	0.7		E EAR	NEBO						PE	R CENT	OF IN	CREAS	E,1		
INDUSTRY.	1	ESTAB HMEN	-	(4	UMBEI	Æ	VAL	JE OF PROD	JCTS.		umber olishm		Wa (avera	ge eari ige nui	ners nber).	Value	of pro	ducts.
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	189 9- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904
Textiles Woolen, worsted, and felt goods, and wool hats	775 164	716 2 155	731 3 159		67, 497 20, 954	69,902	\$175,061,237 76,261,845	\$130, 144, 984 49, 207, 220		6.0 3.1	8.2 5.8	-2.1 -2.5	10.6 23.9	14.5 26.4	-3.4	45.3		8.0
Cotton goods, including cotton small wares. Hosiery and knit goods. Carpets and rugs, other than rag.	161 190 90	148 154 95	167 155	13, 149 18, 241 10, 999	$12,009 \\ 13,385$	14,640 12,053	29, 496, 078 20, 830, 879 23, 961, 307	22, 113, 073 15, 915, 379 26, 281, 499		3.6 22.6 2,3	8.8 23.4 -5.3	-11.4 -0.6	-10.2 51.3	9.5 36.3	1.9 18.0 11.1 8.1	78.0 29.1 104.3 9.0		14.9 3.2 21.2 19.5
Silk and silk goods, including throwsters Dyeing and finishing textiles Cordage and twine and jute and linen goods Shoddy	38 2 104	2 31 101	² 28 95	3, 241 3, 575	2, 681 3, 698	2, 506 4, 986	6, 808, 089 6, 327, 261	5,079,193 5,425,431	4, 531, 794 7, 583, 304	35.7 9.5	22.6 3.0	10.7 6.3	29.3 28.3	20.9 3.3	7.0 —25.8	50.2 		12.1 -28.5
	28 20	2 12 2 20	$\frac{14}{25}$	$1,163 \\ 450$	1,284 311	$1,795 \\ 362$	3, 324, 600 2, 051, 118	4, 121, 444 2, 001, 745	6, 171, 145 1, 420, 911	-42.9 -20.0	33.3	-14.3 -20.0	$-35.2 \\ 24.3$	-9.4 44.7	-28.5 -14.1	$-46.1 \\ 44.4$	-19.3 2.5	-33.2 40.9
Clothing Women's. Men's, including shirts	816 355 461	439 183 1256	636 ¤ 191 ¤ 445	$26, 253 \\ 13, 559 \\ 12, 694$	15, 595 7, 018 8, 577	15, 448 6, 233 9, 215	59, 791, 780 30, 193, 475 29, 598, 311	36, 513, 637 12, 871, 357 23, 642, 280	$\begin{array}{c} 32, 151, 303 \\ 9, 452, 259 \\ 22, 699, 044 \end{array}$	28.3 85.9 3.6	94.0	31.0 4.2 42.5	69.9 117.5 37.8	68.3 93.2 48.0	1.0 12.6 - 6.9	80.0 219.4 30.4	$\begin{array}{r} 63.8 \\ 134.6 \\ 25.2 \end{array}$	$13.6 \\ 36.2 \\ 4.2$
Foundry and machine-shop products.	635	490	(1)	25, 099	30, 428	(4)	59, 633, 212	64, 633, 889	(4)		29, 6	•••••		-17.5			-7.7	•••••
Printing and publishing Newspapers and periodicals Book and job All other printing and publishing	1,037 313 577	823 258 443	243 424		3, 937 6, 048	3,649 5,373	46, 675, 524 25, 468, 055 15, 636, 573	35, 751, 312 16, 979, 827 14, 043, 287	27, 219, 183 13, 453, 530 10, 150, 202	36.1	26. 0 21. 3 30. 2	4.5	19.2	$12.1 \\ 16.7 \\ 5.9 \end{cases}$	8.3 7.9 12.6	71, 5 89, 3 54, 1	30.6 50.0 11.4	31, 3 26, 2 38, 4
industries •	147 57 98	122 52 100	131 49 75	3, 186 7, 752 1, 266		l '	5, 570, 896 33, 626, 349 24, 726, 467	4, 728, 198 30, 589, 851	3,615,451 19,947,747	12.2 16.3	20.5 9.6	-6.9 6.1	19.6 22.5	19.5 11.2	0.1 10.1	54, 1 68. 6	17.8 9.9	30.8 53.3
Slaughtering and meat packing. Iron and steel, steel works and rolling mills. Bread and other bakery products Tobacco manufactures.	21	16	20	9, 193		7.532	24, 720, 407 23, 990, 217 21, 105, 889 15, 577, 862	13, 904, 244 16, 770, 123 15, 562, 487 9, 453, 331	13, 102, 364 21, 215, 505 11, 173, 460 9, 137, 212		-2.0 31.2 5.7 -15.7	-20.0	83.5 22.1 49.2 27.3	47.0 20.4 5.3 23.5	24.8 1.4 41.7 3.1	88.7 13.1 88.9 70.5	43.1	6.1 21.0 39.3 3.5
Liquors, malt Gas, illuminating and heating Chemicals Hats, for-felt Paint and varnish	52 12 23 3 27 61	54 9 28 * 16 49	\$ 12	1, 955 2, 193 2, 333 5, 825	$1,674 \\ 2,038 \\ 2,009$	1, 814 2, 662 (4) 2, 116	15, 179, 357 12 383 340	12, 477, 139 8, 146, 740 9, 152, 321 5, 847, 771 7, 189, 279	12, 722, 883 5, 883, 245 (4) 3, 075, 470 8, 160, 147	-17.5	-3.7 33.3 -17.9 68.8 24.5	14.3 30.8 	7.8 -17.6 175.3 23.8	16.7 7.6 16.1 63.6 34.3	-7.7 -23.4 -68.2 -7.8	19.3 110.5 238.2 23.9	21.7 52.0 28.1 77.9	-1.9 38.5 90.1
Patent medicines and compounds and druggists' preparations Lumber and timber products Boots and shoes, including cut stock	194 126	115 85	120 88	2, 296 3, 915	1, 945 2, 807		10, 098, 183 9, 443, 170	7, 437, 788 6, 489, 798	7, 519, 662 6, 000, 599	61.7	68. 7 48. 2	-4.2		18.0 39.5	-3.0 7.9	34.3 57.4	35.8 45.5	
Soap Furniture and refrigerators	82 41 151	4 68 37 103	103 37 85	4, 794 997 3, 526	885	541	8, 826, 515 8, 643, 437 8, 306, 258	6, 144, 808 6, 210, 517 5, 871, 036	7,004,141 2,920,642 4,751,260	-20, 4 10, 8 77, 6	$\begin{array}{c} 20.\ 6\\ 10.\ 8\\ 46.\ 6\end{array}$	34.0 21.2	12, 6 84. 3 37. 3	36. 7 12. 7 12, 2	-17.6 63.6 22.4	26.0 195.9 74.8	43.6 39.2 41.5	
Confectionery Cooper, tin, and sheet-iron products. Electrical machinery, apparatus, and supplies.	149 148	83 8 92	2 79 3 87	$3,133 \\ 3,040$	$2,694 \\ 3,180$	$\begin{array}{c} 2,092 \\ 1,929 \end{array}$	7, 862, 383 7, 726, 681	5, 594, 627 5, 647, 800	4,355,495 3,344,134	88.6 70.1	79.5 60.9	5.1 5.7	49, 8 57, 6	16.3 4.4	$28.8 \\ 64.9$	80.5 131.1	40.5 36.8	28, 4 68, 9
Cars and general shop construction and repairs by steam-railroad com-	49 73	40 49	43 2 34	.,	759	368	7, 146, 485 6, 364, 404	5,065,862 3,415,393	4,280,699 1,232,722	14.0 114.7	22.5 49.0	7.0 44.1	38.6 219.3	16.5 54.8	19.0 106.2	66.9 416.3	41.1 86.3	18.3 177.1
panies	14 96	11 42	13 37		3,842		6, 182, 014	5,275,345	4, 238, 156	7.7	27.3	15.4	28.7	6.5	20.9	45. 9	17.2	24.5
Paper and wood pulp Flour-mill and gristmill products Coffee and spice, roasting and grind- ing	90 14 63 69	15 29	12 39	3, 535 1, 765 205	1,540 187	759 1,065 183	5,921,256 5,869,693 5,036,925	2, 132, 167 4, 174, 472 4, 149, 912	1, 445, 984 2, 925, 530 2, 778, 118	E 1	128.6 -6.7 117.2	13.5 25.0 25.6	$365.7 \\ 65.7 \\ 12.0$	143.6 14.6 9.6	$91.2 \\ 44.6 \\ 2.2$	309.5 100.6 81.3	177.7 40.6 21.4	47.5 42.7 49.4
	69 12	44 9	2 43 9	392 907	380 600	308 458	5,033,514	2,704,307	2,642,080		56.8	2.3	27.3	3, 2	23.4	90.5	86.1	2.4
Fertilizers. Brass and bronze products. Furnishing goods, men's Steam packing. Leather goods.	54 39 26 88	50 30 14 73	58 3 32 2 17	$1,091 \\ 1,309 \\ 1,533$	871 964 261	1,309 988 238	$\begin{array}{c} 4,958,699\\ 4,323,789\\ 4,282,649\\ 4,282,649\\ 4,275,695\\ 4,039,367\end{array}$	2,689,160 3,101,196 2,691,789 741,091 3,727,080	2, 475, 451 3, 989, 654 2, 057, 686 769, 116 2, 708, 447	21.9 52.9	33.3 8.0 30.0 85.7 20.5	-6.2 -17.6		487.4	31.0 33.5 2.4 9.7 7.3	100, 3 8, 4 108, 1 455, 9 49, 1	84.4 39.4 59.1 476.9 8.4	8.6 22.3 30.8 3.6 37.6

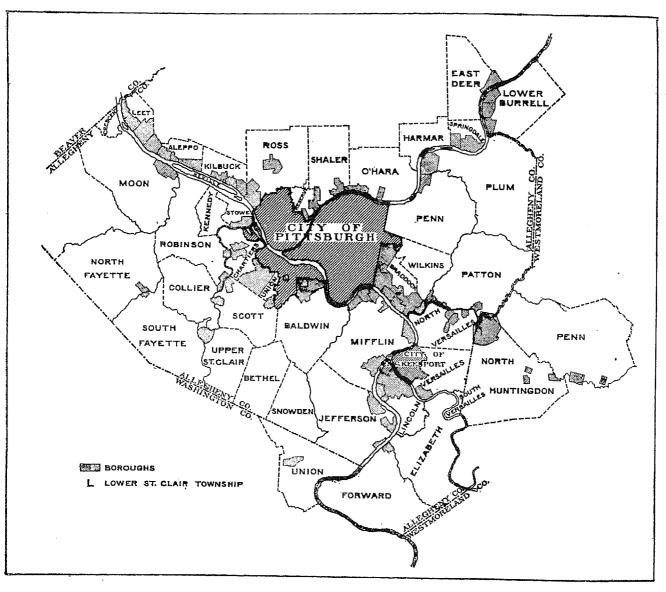
¹ A minus sign (-) denotes decrease. ² Excluding statistics for two establishments, to avoid disclosure of individual operations. ³ Excluding statistics for one establishment, to avoid disclosure of individual operations. ⁴ Comparable figures not available. ⁵ Includes "printing and publishing, music;" "bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing."

The greatest absolute increase in value of products during the decade in the area under consideration— \$33,423,596, or 78 per cent—is shown for the manufacture of woolen, worsted, and felt goods and wool hats. In this industry the city of Philadelphia ranks second among cities of the United States. The omission of the statistics for one establishment in 1899 has only the slightest effect upon the comparison.

The apparent decrease for the dyeing and finishing of textiles is due to the necessary omission of statistics for two establishments, to present which would disclose the operations of individual establishments. In reality there has been a very considerable increase.

Among the important industries that can not be shown separately, since to do so would disclose the operations of individual establishments, are the refining of sugar and of petroleum, the shipbuilding industry, and the manufacture of locomotives and of oilcloth and linoleum.

The relative gain shown in the table for the manufacture of steam packing is much increased by the inclusion of statistics for this industry from territory added to the district since 1904. The absolute gain in the manufacture of woolen, worsted, and felt goods and wool hats is likewise considerably raised by figues for that part of the industry reported from territory new to the district in 1909. Other prominent industries affected in substantially like measure as the latter are the tanning, currying, and finishing of leather and the manufacture of steel. Omitting from consideration these industries, the greatest relative gain in value of products during the decade was for food preparations, 416.3 per cent; and in absolute gain, for the manufacture of clothing—\$27,640,483.



PITTSBURGH METROPOLITAN DISTRICT: 1909.

PITTSBURGH METROPOLITAN DISTRICT.

Territory included.—The metropolitan district of Pittsburgh embraces 405,880 acres of territory, of which 26,511 acres constitute the area of Pittsburgh and 379,369 acres the area of the outside territory. The population of the city of Pittsburgh proper in 1910 was 533,905 and that of the outside territory 510,838, the total for the district being 1,044,743. As defined at the census of 1910, the metropolitan district comprised 119 cities, boroughs, and townships situated in Allegheny, Washington, and Westmoreland Counties; the district covered by the statistics published for 1904 contained only 58 civil divisions, all of which were in Allegheny County.

The following is a list, by counties, of the various cities, boroughs, and townships included in the metropolitan district in 1909:

Aleppo township. Aspinwall borough. *Avalon borough. *Baldwin township. *Bellevue borough. *Ben Avon borough. Bethel township. *Braddock borough. *Braddock township. Bridgeville borough. *Carnegie borough. *Carrick borough. *Chartiers township. Cheswick borough. Clairton borough. Collier township. Coraopolis borough. *Crafton borough. Crescent township. *Dormont borough. *Dravosburg borough. *Duquesne borough. East Deer township. East McKeesport borough. *East Pittsburgh borough. *Edgewood borough. Edgeworth borough. Elizabeth borough. Elizabeth township. *Emsworth borough. *Etna borough. Forward township. Glassport borough. *Glenfield borough. *Greentree borough. Harmar township. *Hays borough. Haysville borough. Heidelberg borough.

ALLEGHENY COUNTY.

ALLEGHENY COUNTY--contd. *Homestead borough. *Ingram borough. Jefferson township. *Kennedy township. *Kilbuck township. *Knoxville borough. Leet township. Leetsdale borough. Lincoln township. *Lower St. Clair township. McKeesport city. *McKees Rocks borough. *Mifflin township. *Millvale borough. Moon township. *Mount Oliver borough. *Munhall borough. *Neville township. *North Braddock borough. North Fayette township. North Versailles township. Oakdale borough. Oakmont borough. O'Hara township. Osburn borough. Patton township. Penn township. Pitcairn borough. *Pittsburgh city. Plum township. Port Vue borough. *Rankin borough. *Reserve township. *Robinson township. *Ross township. *St. Clair borough. *Scott township. Sewickley borough. *Shaler township.

ALLEGHENY COUNTY-contd.

Sharpsburg borough. Snowden township. South Fayette township. South Versailles township. *Spring Garden borough. Springdale borough. Springdale township. *Stowe township. *Swissvale borough. Tarentum borough. *Thornburg borough. Trafford borough (part of). Turtle Creek borough. *Union township. Upper St. Clair township. Verona borough. Versailles borough. Versailles township. Wall borough. West Elizabeth borough. *West Homestead borough. *Westview borough. *Whitaker borough.

ALLEGHENY COUNTY-contd.

*Wilkins township. *Wilkinsburg borough. Wilmerding borough. Wilson borough.

WASHINGTON COUNTY.

Finleyville borough. Union township.

WESTMORELAND COUNTY.

Arnold borough. Irwin borough. Jeannette borough. Lower Burrell township. Manor borough. New Kensington borough. North Huntingdon township North Huntingdon township North Irwin borough. Parnassus borough. Penn borough. Penn township. Trafford borough (part of).

The relative location of the constituent divisions is indicated on the outline map of this district on page 928.

Summary for the district.—Table 19 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population, for the Pittsburgh metropolitan district; for the cities of Pittsburgh and McKeesport, and five of the leading boroughs; and for the remainder of the district. The percentage which the figure for Pittsburgh represents of the total for the district is shown in the case of each item. The statistics for Duquesne and North Braddock boroughs are included with the "remainder" of the district to avoid disclosing individual operations.

In 1909 the Pittsburgh metropolitan district had 2,369 manufacturing establishments, which gave employment to an average of 163,258 persons during the year and paid out \$115,049,924 in salaries and wages. Of the persons employed 140,464 were wage earners. These establishments turned out products to the value of \$578,815,493, to produce which materials costing \$366,892,433 were utilized. The value added by manufacture was thus \$211,923,060. The Pittsburgh district ranked fourth in 1909 among all the metropolitan districts of the United States in the value of its manufactured products. It far exceeded any of the others in the value of its iron and steel output.

In the Pittsburgh district, as in the Boston district, the greater part of the value of the manufactured products of the district was reported by factories outside the central city. Pittsburgh contained over one-half (51.1 per cent) of the population of the district of which it is the manufacturing, commercial, and finan-

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[[]Places included in the district in 1904 are indicated by *. Allegheny, Elliott, Esplen, Montooth, Sheraden, Sterrett, and West Liberty, included in 1904 as separate subdivisions, are now part of the city of Pittsburgh.]

cial center, and contributed slightly over two-fifths of the value of products for the district (42.1 per cent). Its manufacturing establishments constituted seventenths (70 per cent) of all in the district and gave employment to nearly one-half (48.8 per cent) of the average number of wage earners for that area. Of the places outside Pittsburgh for which statistics are given separately, McKeesport had the largest value of products, representing 7.3 per cent of the total for the metropolitan district. This city contained 4.1 per cent of the total population of the district.

Table 19				NI	JMBER OR A	MOUNT.					
		-	-		Distr	ict exclusi	ive of Pittsb	ourgh.			Percent Pitts- burgh
	The district.	Pittsburgh.	Total.	McKees- port.	Braddock.	Wilkins- burg.	Home- stead.	McKees Rocks.	Carnegie.	Remainder.	is of total for district.
Population 2 Number of establishments Persons engaged in manufactures Proprietors and firm members Balaried employees Wage earners (average number). Primary horsepower. Capital Expenses Services Sataries Wages Miscellaneous Value of products Value added by manufacture	$\begin{array}{c} 163,258\\ 2,102\\ 20,092\\ 140,464\\ 701,047\\ 8642,527,046\\ 519,820,653\\ 115,040,924\\ 24,934,082\\ 90,115,842\\ 90,115,842\\ 366,862,433\\ 37,878,296\\ 578,815,493\\ 211,923,060\\ \end{array}$	52,655,536 12,682,604 39,972,932 148,526,783 19,552,290 243,453,693 94,926,910	$\begin{array}{c} 299,086,044\\62,394,388\\12,251,478\\50,142,910\\218,365,650\\18,326,006\\335,361,800\\116,996,150\end{array}$	6,921,568	$19,357\\41\\1,218\\3,42\\1,040\\5,368,880\\4,029,078\\4,029,078\\4,029,078\\4,029,078\\4,029,078\\34,629,078\\34,629,078\\34,650\\15,094,383\\1,747,020$	$18,924 \\ 24 \\ 231 \\ 21 \\ 155 \\ 1,016 \\ \$534,648 \\ 473,042 \\ 150,136 \\ 20,840 \\ 129,206 \\ 202,265 \\ 60,641 \\ 538,217 \\ 275,952 \\ \end{array}$	$\begin{array}{r} 18,713\\26\\248\\17\\60\\171\\81,272,845\\558,990\\160,118\\49,353\\110,765\\321,940\\76,932\\659,106\\337,256\end{array}$	$\begin{array}{c} 14,702\\ 31\\ 3,903\\ 291\\ 3,591\\ 8,872\\ $10,282,079\\ 8,467,270\\ 2,644,226\\ 334,734\\ 2,309,492\\ 5,406,846\\ 416,207\\ 9,786,828\\ 4,379,982\\ \end{array}$	$\begin{array}{c} 10,009\\ 19\\ 500\\ 17\\ 70\\ 422\\ 1,245\\ 2,371,255\\ 2,908,978\\ 388,935\\ 93,614\\ 275,321\\ 2,441,098\\ 98,950\\ 08,950\\ 3,099,446\\ 658,352\\ \end{array}$	$\begin{array}{c} 386, 439\\ 6501\\ 68, 431\\ 379\\ 8, 117\\ 50, 335\\ 414, 091\\ 8296, 079, 947\\ 246, 575, 674\\ 51, 204, 575, 674\\ 51, 204, 575, 672\\ 179, 200, 409\\ 16, 081, 075\\ 273, 683, 165\\ 94, 398, 756\\ \end{array}$	70.0 48.8 73.9 51.2 48.0 38.9 44.1 42.5

Includes Duquesne and North Braddock, the statistics for which can not be shown without disclosing individual operations.

² April 15, 1910.

The group of 112 boroughs and townships, which are not shown separately, with a combined population equal to 37 per cent of the total for the district, contributed 47.3 per cent of the value of its products. The average value of products per establishment for this group of places was much greater than that reported by any of the places shown separately, except McKeesport. A number of the places in this group had a larger output of iron and steel than some of the places for which separate figures are given. Munhall, which adjoins the borough of Homestead, is conspicuous in this regard, followed in importance accord-

ing to the value of iron and steel products by Bessemer, Duquesne, Rankin, Clairton, and Etna.

Comparison with earlier censuses.—Table 20 is a comparative summary of the statistics for the district as a whole for 1909, 1904, and 1899, together with the percentages of increase from census to census. For purposes of comparison with the statistics for the district as given for 1904¹ and 1899,¹ the totals for 1909 are segregated into figures for the territory added since 1904, and into those for the remainder of the district.

¹ Bureau of Census: Industrial Districts, 1905, p. 38.

Table 20		NU	PER CE	PER CENT OF INCREASE. ¹				
		1909					1	
	Total.	Territory added since 1904.	Remainder of district. ²	1904	1899	1899-1909	1904-1909	1899-1904
Population. Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salariod employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Services. Salarios. Wages. Materials. Miscellaneous. Value of products. Value added by manufacture. 1 A minus sign () denotes damages	791,047 \$642,527,046 519,820,653 115,049,924 24,934,082 90,115,842 366,892,433	$\begin{array}{r} {}^3\ 237,786\\ 3\ 50\\ 32,814\\ 280\\ 29,440\\ 3,094\\ 29,440\\ 3,094\\ 29,440\\ 3,095\\ 3121,040,694\\ 97,423,945\\ 22,065,373\\ 3,747,360\\ 19,318,013\\ 67,877,496\\ 19,318,013\\ 67,877,1490\\ 64,87,073\\ 112,709,204\\ 44,837,795\\ \end{array}$	$\begin{array}{r} {}^8 \ 806, \ 957 \\ 2, \ 019 \\ 130, \ 414 \\ 1, \ 822 \\ 17, \ 508 \\ 111, \ 024 \\ 650, \ 788 \\ $521, \ 486, \ 352 \\ 422, \ 300, \ 708 \\ 91, \ 94, \ 551 \\ 21, \ 186, \ 722 \\ 70, \ 797, \ 829 \\ 200, \ 020, \ 934 \\ 31, \ 301, \ 223 \\ 406, \ 100, \ 199 \\ 167, \ 085, \ 205 \end{array}$	$(4) \\ 1, 859 \\ 121, 594 \\ 1, 755 \\ 106, 064 \\ 596, 463 \\ $443, 889, 824 \\ 351, 357, 841 \\ 77, 339, 055 \\ 16, 418, 501 \\ 60, 920, 554 \\ 242, 040, 207 \\ 31, 978, 579 \\ 383, 490, 488 \\ 141, 450, 261 \\ 141, 450, 261 \\ 1850 \\ 141, 450, 261 \\ 1850 \\ 1$	⁶ 623, 342 1, 477 (°) 7, 580 94, 464 (°) \$328, 403, 963 290, 003, 782 50, 761, 743 7, 763, 330 51, 808, 404 200, 040, 608 21, 291, 431 339, 861, 658 130, 821, 659	20.5 36.7 132.2 17.5 58.8 45.6 53.9 160.4 36.7 43.0 47.4 37.1 27.7	8.6 7.3 3.8 27.8 4.7 9.1 17.5 20.2 18.9 29.0 16.2 23.5 -1.8 21.5 18.1	25.9 81.7 12.3 35.1 29.4 106.4 17.6 15.8 50.2 12.8 8.1

A minus sign (-) denotes decrease. ² Figures in this column used in computing percentages of increase.

³ April 15, 1910. ⁴ No population census in 1905.

⁵ June 1, 1900. ⁶ Figures not available.

The percentages of increase in value of products and value added by manufacture were greater during the more recent five-year period, 1904–1909, than during the period 1899–1904, but the number of wage earners and salaried employees and the expenditures for services increased at a more rapid rate during the

carlier than during the later period. The percentages of increase during the decade 1899–1909, were much larger in the number of salaried employees and in salaries than for any other items. The average number of wage earners increased only 17.5 per cent during this period, but the wages paid increased 36.7 per cent,

PITTSBURGH METROPOLITAN DISTRICT.

a rate of gain approximately equal to that in value of products, 37.1 per cent. The relative increase in primary horsepower of all kinds from 1904 to 1909 was 9.1 per cent. Statistics as to the primary power used in 1899 are not available.

The proportions of the population and manufactures in the outside territory of the metropolitan district are constantly increasing as is indicated by the percentages in Table 21. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904.

The proportion of the population of the district as originally constituted that was reported from the territory outside of Pittsburgh, increased from 27.6 per cent in 1900 to 33.8 per cent in 1910, and the proportion of the value of products of that district that was contributed by the outlying territory increased steadily from 35.8 per cent in 1899 to 44.9 per cent in 1904, and to 47.8 per cent in 1909.

Table 21		TERRITORY OUTSIDE SBURGH IS OF TOTAL TRICT.				
	1909 1	1904	1899			
Population	33.8	(2)	27.6			
Population Number of establishments	17.8	16.0	11.9			
Persons engaged in manufactures	39.0	33.1	(8) (2)			
Proprietors and firm members	14.7	13.6				
Salaried employees	39.8	39.9	22.8			
Wage earners (average number)	39.2	32.5	24.0			
Primary horsepower	52.7	57.2	(3)			
Capital.	45.7	41.3	35.5			
Expenses	47.7	45.0	35. 3			
Services	42.8	35.9	26.4			
Salaries	40.1	40.6	20.1			
Wages	43.5	34.7	27.4 38.5			
Materials.	50.3	48.5				
Miscellaneous.	37.7	40.3	28.5 35.8			
Value of products.	$47.8 \\ 43.2$	44.9 38.7	33.8 31.4			
Value added by manufacture	45.2	33.7	91.4			

¹ Based on figures for district as constituted in 1904 and 1899.
 ² No population census in 1905.
 ³ Figures not available.

Leading industries.—Table 22 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

SUMMARY FOR THE PITTSBURGH METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.
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Table 22		PER	SONS E	NGAGEI) IN	i							
INDUSTRY.	Num- ber of estab- lish ments.	Total.	Pro- prie- tors and firm mem- bers.		Wage earners	Pri- mary horse- power.	Capital,	Salaries.	Wages.	Cost of materials.	Miscel- lancous expenses.	Value of products.	Value added by manu- facture.
All industries	2, 369	163,258	2,102	20, 692	140, 464	791,047	\$642, 527, 046	\$24,934,082	\$90,115,842	\$366, 892, 433	\$37,878.296	\$578, 815, 493	
Brass and bronze products Bread and other bakery products Brick and tile Canning and preserving Carriages and wagons and materials.	$15 \\ 391 \\ 41 \\ 111 \\ 40$	822 3,323 911 3,073 644	$ \begin{array}{r} 16 \\ 427 \\ 37 \\ 14 \\ 43 \end{array} $	$102 \\ 569 \\ 61 \\ 1,349 \\ 47$	704 2,327 813 1,710 554	2,850 2,400 5,769 1,811 1,873	$\begin{array}{r} 4,273,850\\ 6,601,004\\ 2,002,934\\ 6,823,389\\ 1,910,883\end{array}$	$\substack{146,622\\539,854\\63,123\\1,337,569\\50,549}$	$\begin{array}{r} 424,736\\ 1,244,127\\ 384,936\\ 615,275\\ 369,519\end{array}$	$\begin{array}{r} 2,468,600\\ 5,403,082\\ 269,966\\ 2,391,890\\ 442,679\end{array}$	$166,707 \\1,028,571 \\130,089 \\1,289,320 \\57,214$	3, 397, 537 9, 568, 400 908, 346 6, 201, 830 1, 031, 239	928, 937 4, 165, 318 638, 380 3, 809, 940 588, 500
Cars and general shop construction and repairs by steam-railroad com- panies	16 1 3 24	10,374 62 1,011	 43	930 14 102	9,438 48 860	15,094 260 340	$8,684,822\ 446,276\ 1,237,435$	779, 132 25, 365 87, 777	6,605,681 31,561 342,412	9, 164, 034 391, 810 1, 121, 773	256,032 49,278 173,143	16, 804, 878 530, 850 1, 949, 728	$7,640,844 \\ 139,040 \\ 827,955$
ing Confectionery	- 4 20	80 955	11 10	$ \begin{array}{c} 42 \\ 112 \end{array} $	$27 \\ 833$	226 724	310,795 1,538,001	36, 270 106, 063	$14,443 \\ 261,872$	$\begin{array}{c} 612,460 \\ 1,549,247 \end{array}$	89,011 158,832	810, 657 2, 284, 087	198, 197 734, 840
Cooperage and wooden goods, not elsewhere specified. Copper, tin, and sheet-iron products. Cutlery and tools, not elsewhere specified	17 69	237 1,933	19 70	$21 \\ 143$	197 1,720	159 4,076	477, 176 3, 925, 925	22,727 177,858	108, 784 946, 072	411,717 2,119,639	$19,002 \\ 282,006$	656, 831 5, 254, 789	243, 114 3, 135, 150
specified	20	1,522	22	109	1,391	3,769	3,565,921	160,712	738,757	1,550,084	159,092	3,086,268	1, 536, 184
Electrical machinery, apparatus, and supplies. Food preparations.	18 16	10, 867 269	11 18	2,826 46	8,030 205	13,160 563	48, 184, 808 672, 554	3,240,797 36,366	4,760,067 82,277	8,521,905 634,283	2,148,067 100,747	20, 260, 163 968, 541	11,738,258 334,258
Foundry and machine-shop products Furniture and refrigerators	218	22,1183737,3224266,474	$ \begin{array}{c} 111 \\ 12 \\ 6 \\ 7 \\ \dots \end{array} $	$3,553 \\ 40 \\ 374 \\ 104 \\ 909$	${ \begin{smallmatrix} 18,454 \\ & 315 \\ 6,942 \\ & 315 \\ 5,565 \end{smallmatrix} }$	$\substack{41,908\\629\\13,632\\10,136\\225,192}$	$\begin{array}{r} 70,585,128\\826,412\\20,795,023\\4,024,177\\100,116,105\end{array}$	$\begin{array}{r} \textbf{4, 404, 869} \\ & 54, 033 \\ & 566, 917 \\ & 119, 368 \\ \textbf{1, 328, 843} \end{array}$	$12,780,152 \\ 187,884 \\ 3,648,952 \\ 214,422 \\ 4,217,097 \\ \end{array}$	$\begin{smallmatrix} 24,140,317\\ 440,447\\ 3,560,783\\ 282,327\\ 72,125,803 \end{smallmatrix}$	$\begin{smallmatrix} 4,361,783\\120,161\\969,222\\245,415\\1,946,926 \end{smallmatrix}$	$\begin{array}{r} 52,411,013\\900,036\\8,765,900\\1,370,635\\85,584,235\end{array}$	$\begin{array}{r} 28,270,696\\ 459,589\\ 5,205,117\\ 1,088,308\\ 13,458,432 \end{array}$
Iron and steel, steel works and roll- ing mills. Iron and steel, bolts, nuts, washers, and rivets, not made in steel works	54	55, 321		4, 165	51,156	357,945	234, 689, 014		35, 925, 008	158,035,351	9, 447, 825	237, 186, 077	79, 150 , 726
and rivets, not made in steel works or rolling mills. Iron and steel forgings Leather, tanned, curried, and fin-	9 8	1,055 590	3 2	98 57	$954 \\ 531$	2,302 2,149	2,653,885 1,592,457	134, 445 72, 360	478, 137 308, 299	1,677,205 690,021	147,473 118,336	2, 662, 158 1, 336, 375	984, 953 646, 354
ished Liquors, distilled	6 8	273 168	2 6	27 38	244 124	846 1,260	1,552,676 2,074,435	46,455 72,322	138,824 72,298	913, 913 732, 544	67,848 2,516,355	1, 161, 603 3, 649, 731	$247,690 \\ 2,917,187$
Liquors, malt Lumber and timber products Marble and stone work. Mattresses and spring beds. Oil, not elsewhere specified	28 86 36	$1,589 \\ 1,419 \\ 424 \\ 256 \\ 110$	90 43 5 8	$235 \\ 142 \\ 35 \\ 28 \\ 35 \\ 35$	$1,354 \\ 1,187 \\ 346 \\ 223 \\ 67$	11,321 5,408 900 261 113	$\begin{array}{r} 24,111,550\\ 3,560,889\\ 756,255\\ 574,089\\ 417,523 \end{array}$	473, 404 155, 714 45, 676 37, 525 64, 002	$\begin{smallmatrix} 1,060,090\\774,708\\242,968\\123,679\\36,754 \end{smallmatrix}$	$\begin{array}{r} 1,936,360\\ 1,854,023\\ 298,671\\ 337,397\\ 437,834 \end{array}$	2, 070, 478 233, 545 70, 319 59, 640 76, 825	8,236,002 3,188,759 737,183 589,588 730,888	6,290,642 1,334,736 438,512 252,191 293,054
Paint and varnish Patent medicines and compounds	24	533	15	146	372	2,463	3, 878, 767	171,737	209,220	2,638,230	354,286	3,779,518	1, 141, 288
and druggists' preparations Petroleum refining. Pottery, terra-colta, and fire-clay products	39 7 8	282 366 773	28 3 5	95 59 61	159 304 707	320 712 1,545	854,688 2,416,532 4,399,070	124, 202 77, 786 88, 009	73,084 206,322 364,534	392,216 2,961,208 506,536	319,470 164,236 180,390	$1,146,920 \\3,934,916 \\1,524,037$	754,704 973,709 1,017,501
products. Printing and publishing Shipbuilding, including boatbuilding Slaughtering and meat packing smeltingand refining, notfrom theore	324 8 19	4,639 392 1,181 74	325 6 9 3	1, 212 30 252 12	3,102 356 920 59	4,653 1,070 4,471 132	$\begin{array}{c} 4,333,070\\ 10,375,382\\ 961,950\\ 4,006,950\\ 840,542 \end{array}$	1,365,389 54,891 319,320 35,100	$2, 131, 206 \\ 254, 059 \\ 612, 745 \\ 48, 850$	2,799,651 322,304 12,665,447 1,800,309	$\substack{1,878,380\\36,263\\587,306\\51,743}$	$\begin{array}{r} 9,663,449\\671,294\\14,492,440\\2,015,171\end{array}$	6, 863, 794 348, 990 1, 826, 993 214, 865
Soap Springs, steel, car and carriage Tobacco manufactures All other industries	11 8 248	493 965 3,562 15,997	$18 \\ 255 \\ 397$	$215 \\ 112 \\ 168 \\ 2,005$	260 851 3,139 13,595	503 1,984 213 45,815	$\begin{array}{c} 1,200,245\\ 3,878,657\\ 1,920,770\\ 48,808,102 \end{array}$	$106, 192 \\ 218, 651 \\ 144, 063 \\ 2, 406, 991$	113,416463,240865,2187,634,157	466, 660 1, 930, 710 1, 200, 809 34, 692, 188	$\begin{array}{r} 475,108\\145,504\\1,129,041\\3,397,307\end{array}$	1,232,164 3,168,338 3,713,594 51,249,325	$\begin{smallmatrix} 765, 504\\1, 237, 628\\2, 512, 785\\16, 557, 137\end{smallmatrix}$

¹ Excluding statistics for establishments located outside of the corporate limits of Pittsburgh, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

The predominant industry of the Pittsburgh metropolitan district is the manufacture of iron and steel. The products of steel works and rolling mills in this district in 1909 were valued at \$237,186,077, of which Pittsburgh¹ alone reported \$82,306,627; the output of blast furnaces was valued at \$85,584,235, Pittsburgh contributing \$20,668,023. The products of the foundries and machine shops had a value of \$52,411,013, of which \$21,690,645 was reported by Pittsburgh. In each instance, therefore, the territory outside the city contributed by far the greater part of the total for the district.

The combined product of steel works and rolling mills and of blast furnaces in the entire district had an aggregate value of \$322,770,312, or 55.8 per cent of the value of products for all industries in the district and 23.4 per cent of the value of products of these two branches of the iron and steel industry in the United

States. By adding the value of products of the foundries and machine shops, \$52,411,013, the total becomes \$375,181,325, or 64.8 per cent of the total value of products for all industries in the district. Of this combined total, Pittsburgh alone contributed \$124,665,295, or 21.5 per cent.

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Other prominent industries were the manufacture of electrical machinery, apparatus, and supplies, with products valued at \$20,260,163; steam-railroad repair shops, with products valued at \$16,804,878; and slaughtering and meat packing, with products valued at \$14,492,440.

The manufacture of coke is omitted from the table as to include it would disclose the operations of individual establishments.

Comparative summary, by industries .--- The number of establishments, average number of wage earners, and value of products for such of the industries as can be shown separately and had a value of products amounting to \$2,000,000 or over in 1909, are given in Table 23 for the district as constituted in $190\overline{4}$ and 1899.

¹Thirteenth Census of the United States: 1910. Volume IX, Manufactures, pp. 1106-9.

COMPARATIVE SUMMARY	FOR THE	PITTSBURGH	METROPOLITAN	DISTRICT,	$\mathbf{B}\mathbf{Y}$	SELECTED	INDUSTRIES
		1909,	1904, AND 1899.	,			

Table 23		MBER			E EAR							PE	R CENT	rorn	NCREAS	3E. ¹		
INDUSTRY.		ESTAB HMEN			UMBEI		VAL	UE OF PRODI	UCTS.	Ni estal	umber blishm	of ents,		ge cari ige nui		Value	of proc	duets.
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904 1909	1899- 1904		1904- 1909		1899- 1909	1904- 1909	1899- 1904
Iron and steel industries Iron and steel ² All other iron and steel indus-	69 50	78 50	79 58	48,178 45,616	46,920 45,512	41,943 39,431	\$270, 939, 386 260, 725, 906	\$226,543,315 222,182,110	\$205,233,498 195,981,129	-12.7 -13.8	-11.5	-1.3 -13.8	14.9 15.7		11.9 15.4	32.0 33.0		
tries ³	19	28	21	2,562	1,408	2,512	10, 213, 480	4,361,205	9, 252, 369	-9.5		33. 3	2.0	82.0	-43.9	10.4	184.2	-52.9
Foundry and machine-shop products. Slaughtering and meat packing Cars and general shop construction and repairs by steam-railroad com-	190 5 14	170 ⁶ 24	(4) 6 13	13,979 841	13,207 897	(4) 588	39,081,192 13,106,735	31,837,305 10,085,477	(4) 6,051,328	7.7	11.8 41.7	84.6	43.0	5.8 -6.2		116.6	22.8 30.0	
panies	12	5.8			4,585			6, 107, 325	2,643,464	-7.7	50.0	38. 5	134.1	34.6	73.9	334.2	87.9	131.0
Printing and publishing. Newspapers and periodicals Book and job. All other printing and publishing industries 7.	289 103 161	240 96 132	$162 \\ 56 \\ 85$	$2,931 \\ 1,157 \\ 1,343$	$2,901 \\ 1,289 \\ 1,406$	2,423 1,295 975	9,369,020 5,874,748 2,821,906	5,119,240	3,330,540	83.9	7.3	71.4	-10.7	-10.2	-0.5	76.4	14.8	53.7
	1	12	21	431	206	153	672,366	276, 742	170, 258	19.0	108.3	-42.9	181.7	109.2	34.6	294.9	143.0	62.5
Bread and other bakery products Liquors, malt Canning and preserving Tobacco manufactures. Glass	21 ⁶ 11 232 14	$261 \\ 19 \\ {}^{8} 6 \\ 265 \\ 14$	153 15 65 8218 21	$1,710 \\ 3,103$	969 1,406	614 1,444 2,125	6,627,755 6,201,830 3,674,907	5,372,943	5,266,755 4,429,382 2,492,001	40.0 120.0 6.4	10.5 83.3 -12.5	26.7 20.0	80.3 18.4 46.0	$ \begin{array}{c} 14.2 \\ 21.6 \\ -2.1 \end{array} $	57.8 2.6 49.2	25.8 40.0	23.4 0.2 8.9	2.0 40.4 61.9
Brass and bronze products Paint and varnish Petroleum refining. Lumber and timber products	21	⁸ 15 6 15 5 64	9 7 12 5 45	219	198	231 243 161 834	3, 188, 424 3, 085, 665 2, 818, 219 2, 636, 138	2,175,774	1,513,440	33.3 75.0 20.0	-20.0	25.0	18.1 36.0	1.4		$52.1 \\ 86.2$	45.1	4.8 43.8

¹ A minus sign (-) denotes decrease. ² Includes blast furnaces and steel works and rolling mills. ³ Includes blast furnaces and steel works and rolling mills. ⁴ Includes at all censuses, "Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills;" "iron and steel forgings;" "iron and steel pipe, wronght;" and "itm plate and terneplate." For 1904 and 1904, "iron and steel, doors and shutters." For 1904, "ordnance and accessories." For 1904 and 1899, "iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills." And for 1899, "wire." ⁴ Excluding statistics for three establishments, to avoid disclosure of individual operations. ⁵ Excluding statistics for one establishment, to avoid disclosure of individual operations. ⁶ Includes "printing and publishing, music," "bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and ⁸ Excluding statistics for two establishments to avoid disclosure of individual operations.

"Hithographing." * Excluding statistics for two establishments, to avoid disclosure of individual operations

The greatest absolute increase in value of products during the decade in the area under consideration is shown for the manufacture of iron and steel, by steel works and rolling mills and blast furnaces-\$65,-705,888, or 32 per cent. The greatest relative increase, 334.2 per cent, was reported for cars and general shop construction and repairs by steam-railroad companies. The manufacture of electrical machinery, apparatus, and supplies is an important industry in this district, but the statistics can not be given in this

table, as to do so would disclose individual operations. Other important industries not shown separately, for the same reason, in this table are, in the order of their importance, the manufacture of iron and steel bolts, nuts, washers, and rivets, not made in steel works or rolling mills; confectionery; springs, steel, car and carriage; and liquors, distilled. Smelting and refining, not from the ore, is also omitted, because comparable figures for 1904 can not be given without disclosing individual operations.

BOSTON METROPOLITAN DISTRICT.

Territory included .--- The metropolitan district of Boston embraces 335,905 acres of territory, of which 26,289 acres constitute the area of Boston and 309,616 acres the area of the outside territory. The population of the city of Boston proper in 1910 was 670,585, and that of the outside territory 849,885, the total for the district being 1,520,470.

As defined for the three censuses, the metropolitan district comprised 14 cities and 33 towns, as follows:

SUFFOLK COUNTY.

Boston city. Chelsea city.

Revere town. Winthrop town.

ESSEX COUNTY.

Lynn city. Marblehead town. Nahant town. Peabody town.

Salem city. Saugus town. Swampscott town.

MIDDLESEX COUNTY.

Arlington town.		Newton city.
Belmont town.		Sherborn town.
Cambridge city,		Somerville city.
Everett city.		Stoneham town.
Framingham town.		Wakefield town.
Lexington town.		Waltham city.
Lincoln town.		Watertown town,
Malden city.		Wayland town.
Medford city.	Ň,	Weston town.
Melrose city.		Winchester town.
Natick town.		Woburn city.

NORFOLK COUNTY.

Braintree town.	Needham town.
Brookline town.	Norwood town.
Canton town.	Quincy city.
Dedham town.	Randolph town.
Dover town.	Wellesley town.
Hyde Park town.	Westwood town.
Milton town.	Weymouth town.

On page 935 is an outline map of the metropolitan district as constituted in 1909, showing the various cities and towns included.

Summary for the district.—Table 24 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Boston metropolitan district; for the cities of Boston, Cambridge, Chelsea, Everett, Lynn, Malden, Medford, Melrose, Newton, Quincy, Salem, Somerville, Waltham, and Woburn, and the towns of Arlington, Brookline, Framingham, Hyde Park, Peabody, Revere, Wakefield, Watertown, Weymouth, and Winthrop; and for the remainder of the district. The percentage which the figure for Boston represents of the total for the district is given in the case of each item.

In 1909 the Boston metropolitan district had 5,389 manufacturing establishments, which gave employment to an average of 214,641 persons during the year, and paid out \$132,394,865 in salaries and wages. Of the persons employed, 185,952 were wage earners. These establishments turned out products to the value of \$564,054,506, to produce which materials costing \$315,770,540 were utilized. The value added by manufacture was thus \$248,283,966. The Boston district ranked fifth in 1909 among all the metropolitan districts of the United States in the value of its manufactured products.

In the Boston district, as in the Pittsburgh district, the greater part of the value of the manufactured products of the district was reported by factories outside the central city. Boston contained less than onehalf (44.1 per cent) of the population of the district of which it is the manufacturing, commercial, and financial center, and contributed a little more than twofifths (42.1 per cent) of the value of products. Its manufacturing establishments constituted nearly three-fifths (58.5 per cent) of all in the district, and gave employment to a little more than one-third of the wage earners (37.4 per cent).

Of the places outside of Boston for which statistics are given separately, Lynn had the largest value of products, representing 12.7 per cent of the total for the metropolitan district; but it contained only 5.9 per cent of the total population.

The group of 23 towns that are not shown separately, each having less than 10,000 inhabitants, had a combined population of 8 per cent of the total for the district and contributed 6 per cent of the value of the products.

The principal industries of Boston in 1909, as measured by value of products, were printing and publishing and the manufacture of boots and shoes, of clothing, of foundry and machine shop products, and of confectionery. The leading industry of Lynn was the manufacture of boots and shoes, in which it led all other places in the United States. The leading industries of Cambridge were foundry and machine shop products, printing and publishing following; of Somerville, slaughtering and meat packing; of Chelsea, ubber goods; of Peabody, the tanning, currying, and finishing of leather; of Salem, boots and shoes; of Watertown, rubber boots and shoes; and of Quincy, shipbuilding.

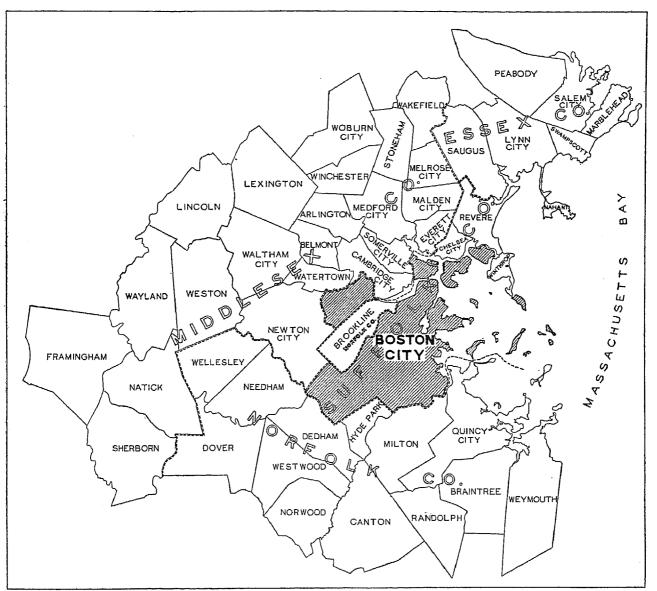
Table 24			PERSC	ONS ENGAGED	IN MANUFACI	URES.		
	Population	. ¹ Number of establish- ments.	Total.	Proprietors and firm members.	Salaried employees,	Wage earn- ers (average number).	Primary horsepower.	Capital.
The district	1, 520, 47	0 5,389	214, 641	4,989	23, 700	185,952	223, 886	\$444, 558, 420
Boston	670, 58	5 3,155	85,158	2,873	12,648	69,637	68,419	175, 181, 571
District exclusive of Boston-total	849, 85	5 2,234	129, 483	2,116	11,052	116, 315	155, 467	269, 376, 849
Arlington Brookline Cambridge Chelsea. Everett	11, 18 27, 79 104, 85 32, 47 83, 48	2 110	335 404 17,475 6,694 3,096	18 19 223 98 56	34 45 1,992 642 360	283 340 15,200 5,954 - 2,680	851 339 21, 372 8, 339 7, 816	777, 613 616, 841 87, 928, 906 11, 020, 840 22, 904, 539
Framingham Hyde Park Lynn Maldon Medford	15 50	6 431 4 86	3,307 4,649 30,685 3,259 673	19 37 469 71 33	219 292 2,848 288 80	3,069 4,320 27,368 2,900 560	4,486 8,856 17,089 3,433 1,123	7,770,084 8,158,338 42,784,070 9,910,489 1,595,568
Melrose. Newton Peabody Quincy. Revere.	30 80	2 183	1,141 2,378 5,231 6,247 125	21 39 55 241 12	$\begin{array}{r} 82 \\ 160 \\ 326 \\ 514 \\ 12 \end{array}$	1,038 2,174 4,850 5,492 101	1,535 4,153 9,981 9,147 548	2,014,905 5,669,439 15,804,274 11,974,782 661,166
Salem Somerville. Wakefield Waltham. Watertown.	43, 60 77, 25 11, 40 27, 85 12, 85	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6,852 5,951 2,359 6,354 4,805	149 97 14 67 13	365 574 115 250 457	6,338 5,280 2,230 6,037 4,335	11,436 7,680 1,729 7,583 4,862	9, 345, 244 17, 282, 271 3, 864, 496 12, 870, 737 7, 220, 006
Weymouth Winthrop Woburn Remainder	12, 89 10, 13 11, 13 15, 30 121, 30	2 7 8 59	2,238 19 1,867 13,344	45 6 65 249	202 6 149 1,040	$1,991 \\ 7 \\ 1,653 \\ 12,055$	1,902413,56017,606	5, 503, 936 25, 479 8, 405, 106 25, 267, 720
Per cent Boston is of total for district	44.	1 58.5	39.7	57.6	53.4	37.4	30.6	39.4
			EXPEN	SES.				
			Services.				Value of products.	Value added by manu-
	Aggregate.	Total.	Salaries.	Wages.	Materials.	Miscel- laneous.		facture.
The district	\$503, 201, 166	\$132, 394, 865	\$29,073,546	\$103, 321, 319	\$315, 770, 540	\$55,035,761	\$564,054,506	\$248, 283, 966
Boston	211, 132, 069	55, 550, 637	15,640,830	39, 909, 807	124, 577, 155	31,004,277	237, 457, 472	112,880,317
District exclusive of Boston-total	292,069,097	76, 844, 228	13, 432, 716	63, 411, 512	191, 193, 385	24,031,484	326, 597, 034	135, 403, 649
Arlington. Brookline. Cambridge. Chelsea.	587,799 469,711 38,452,610	$\begin{array}{r} 222,825\\231,548\\10,769,652\end{array}$	45,621 37,065	177,204	310,930	54,044		
Everett	15,898,771 7,514,065	$\begin{array}{r} 10,769,652\\ 4,195,557\\ 1,979,098 \end{array}$	37,005 2,404,198 869,302 471,250	$194,483 \\ 8,365,454 \\ 3,326,255 \\ 1,507,848$	$196,048 \\ 23,505,657 \\ 10,508,746 \\ 4,506,266$	42,115 4,117,301 1,134,408	$\begin{array}{r} 695,356\\ 532,303\\ 44,227,395\\ 17,002,492\\ 8,746,923\end{array}$	$\begin{array}{r} 384,426\\ 336,255\\ 20,661,738\\ 6,433,746\\ 4,240,657\end{array}$
Chelsea Everett. Framingham. Hyde Park. Lynn. Malden. Medford.	$\begin{array}{c} 15,898,771\\7,514,065\\5,573,259\\6,914,496\\65,098,218\\6,814,078\\1,828,641\end{array}$	4,195,557	2,404,198	104,483	196,048 23,565,657 10,568,746	42,115 4,117,801 1,134,408 1,028,701 389,880 710,756 5,063,599 749,751	532,303 44,227,395 17,002,492	$\begin{array}{r} 384,426\\ 336,255\\ 20,661,738\\ 6,433,746\\ 4,240,657\\ 3,505,558\\ 3,984,857\\ 30,142,053\\ 3,818,800\\ 795,415\end{array}$
Fvereit Framingham. Hyde Park. Lynn. Malden. Medford. Melrose. Newton. Peabody. Quincy. Revere.	$\begin{array}{c} 15, 898, 771\\ 7, 514, 065\\ 5, 573, 259\\ 6, 014, 496\\ 65, 098, 218\\ 0, 814, 078\\ 1, 828, 641\\ 2, 364, 261\\ 5, 243, 565\\ 14, 568, 353\\ 9, 739, 261\\ 381, 297\end{array}$	$\begin{array}{c} 4, 195, 557\\ 1, 979, 008\\ 1, 772, 073\\ 2, 852, 513\\ 18, 073, 532\\ 1, 676, 775\\ 445, 874\\ 578, 648\\ 1, 427, 171\\ 3, 055, 531\\ 4, 239, 743\\ 65, 177\\ \end{array}$	2,404,108 869,302 471,250 325,652 376,638 3,007,714 380,323	194,4838,365,4543,326,2551,507,8481,446,4212,475,87515,665,818	$\begin{array}{r} 196,048\\ 23,565,657\\ 10,568,746\\ 4,506,266\\ 3,411,306\\ 3,351,227\\ 41,361,087\\ 4,387,552\\ 1,249,874\end{array}$	$\begin{array}{c} 42,115\\ 4,117,301\\ 1,134,408\\ 1,028,701\\ 389,880\\ 710,756\\ 5,063,599\\ 749,751\\ 132,893\\ 196,906\\ 432,905\\ 1,320,735\\ 1,655,651\\ \end{array}$	532, 303 44, 227, 395 17, 002, 492 8, 748, 923 6, 916, 864 7, 336, 084 71, 503, 140 8, 200, 852	$\begin{array}{c} 336,255\\ 20,661,738\\ 6,433,746\\ 4,240,657\\ 3,505,558\\ 3,984,857\\ 30,142,053\\ 3,818,800\\ 8,818,800\\ \end{array}$
Framingham. Hyde Park. Lynn Malden. Medford. Melrose. Newton Peabody. Quincy. Revere. Salem. Somerville. Wakefield. Wakefield. Watertown.	$\begin{array}{c} 15,898,771\\7,514,065\\5,573,259\\6,914,496\\65,098,218\\6,814,078\\1,828,641\end{array}$	$\begin{array}{c} 4, 195, 557\\ 1, 979, 008\\ 1, 772, 073\\ 2, 852, 513\\ 18, 673, 532\\ 1, 676, 775\\ 445, 874\\ 578, 648\\ 1, 427, 171\\ 3, 055, 531\\ 4, 239, 743\\ \end{array}$	$\begin{array}{c} 2,404,108\\860,802\\471,250\\325,652\\376,038\\3,007,714\\330,323\\114,773\\85,766\\301,883\\417,309\\806,103\end{array}$	$194,483\\8,865,454\\3,326,255\\1,507,848\\1,446,421\\2,475,875\\15,665,818\\1,346,452\\331,101$	$\begin{array}{r} 196,048\\ 23,565,657\\ 10,568,746\\ 4,506,266\\ 3,411,306\\ 3,351,227\\ 41,361,087\\ 4,387,552\\ 1,249,874\end{array}$	42,115 4,117,301 1,134,488 1,028,701 389,880 710,756 5,063,599 749,751 132,893 196,906 432,905 1,320,735 1,352,755 751,204 4,096,771 264,333 994,684	$\begin{array}{c} 532, 303\\ 44, 227, 395\\ 17, 002, 492\\ 8, 744, 923\\ 6, 916, 854\\ 7, 336, 084\\ 7, 336, 084\\ 71, 503, 140\\ 8, 205, 852\\ 2, 045, 289\\ 2, 824, 669\\ 6, 278, 714\\ 15, 548, 732\\ 10, 505, 403\\ \end{array}$	$\begin{array}{c} 336,255\\ 20,661,738\\ 6,433,740\\ 4,240,657\\ 3,505,558\\ 3,984,857\\ 30,142,053\\ 3,818,800\\ 795,415\\ 1,235,962\\ 2,805,225\\ 5,356,645\\ 6,601,536\\ 115,103\\ \end{array}$
Framingham. Hyde Park. Lynn. Malden. Medford. Medford. Newton. Peabody. Quincy. Revere. Salem Somerville. Wakefield.	$\begin{array}{c} 15, 898, 771\\ 7, 514, 065\\ 5, 573, 259\\ 6, 014, 496\\ 65, 098, 218\\ 0, 814, 078\\ 1, 828, 641\\ 2, 364, 261\\ 5, 243, 565\\ 14, 568, 353\\ 9, 739, 261\\ 381, 297\end{array}$	$\begin{array}{c} 4, 195, 557\\ 1, 979, 008\\ 1, 772, 073\\ 2, 852, 513\\ 18, 073, 532\\ 1, 676, 775\\ 445, 874\\ 578, 648\\ 1, 427, 171\\ 3, 055, 531\\ 4, 239, 743\\ 65, 177\\ \end{array}$	$\begin{array}{c} 2, 403, 108\\ 8, 809, 302\\ 471, 250\\ 325, 652\\ 376, 638\\ 3, 007, 714\\ 330, 323\\ 114, 773\\ 85, 766\\ 301, 883\\ 417, 360\\ 806, 103\\ 11, 085\\ 306, 354\\ 091, 567\\ 156, 701\\ 166, 701\\ 166, 701\\ 360\\ 363\\ 360\\ 363\\ \end{array}$	$\begin{array}{c} 104,483\\8,865,454\\3,320,255\\1,507,848\\1,446,421\\2,475,875\\15,665,818\\1,346,452\\331,101\\492,882\\1,125,288\\2,638,162\\3,433,640\\54,092\\2,892,786\\2,869,808\\1,045,960\end{array}$	$\begin{array}{c} 196,048\\ 23,565,657\\ 10,568,746\\ 4,500,236\\ 8,411,306\\ 3,351,227\\ 41,361,087\\ 4,387,552\\ 1,249,877\\ 1,249,877\\ 1,588,707\\ 3,383,459\\ 10,192,087\\ 3,383,459\\ 10,192,087\\ 8,843,867\\ 2092,263\\ 8,639,856\\ 81,922,802\\ 2,834,900\\ 2,444,341\\ \end{array}$	$\begin{array}{c} 42,115\\ 4,117,301\\ 1,184,488\\ 1,028,701\\ 389,880\\ 710,756\\ 5,063,599\\ 749,751\\ 132,983\\ 196,906\\ 432,905\\ 1,320,73$	$\begin{array}{c} 532, 303\\ 44, 227, 395\\ 17, 002, 492\\ 8, 746, 923\\ 6, 916, 864\\ 7, 336, 084\\ 71, 503, 140\\ 8, 205, 852\\ 2, 045, 289\\ 2, 2, 045, 289\\ 2, 824, 669\\ 6, 278, 714\\ 15, 548, 732\\ 10, 505, 403\\ 407, 366\\ 14, 576, 276\\ 35, 686, 527\\ 5, 527, 102\\ 7, 814, 178\end{array}$	$\begin{array}{c} 336, 255\\ 20, 661, 738\\ 6, 433, 740\\ 4, 240, 657\\ 3, 505, 558\\ 3, 984, 857\\ 30, 142, 053\\ 3, 818, 800\\ 795, 415\\ 1, 235, 962\\ 2, 805, 225\\ 5, 356, 645\\ 6, 601, 536\\ \end{array}$

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¹ April 15, 1910.

BOSTON METROPOLITAN DISTRICT.



Comparison with earlier censuses .- Table 25 is a comparative summary of the statistics for the district as a whole for 1909, 1904,¹ and 1899,¹ together with the percentages of increase from census to census.

The percentages of increase in average number of wage earners and in wages and miscellaneous expenses-and for total expenses-value of products, and value added by manufacture, were greater during the earlier five-year period, 1899-1904, than during the period 1904-1909. For the decade as a whole the relative increase was greatest in the amounts paid for salaries and for miscellaneous expenses, and in the number of salaried employees. The average number of wage earners increased 41.3 per cent and the amount paid for wages 57 per cent, a gain approximately equal to that in value of products-59.4 per cent. The relative increase in primary horsepower of all kinds from 1904 to 1909 was 38.2 per cent. Statistics as to the primary power used in 1899 are not available.

¹ Bureau of Census: Industrial Districts, 1905, pp. 32, 33.

Table 25	NUM	BER OR AMO	UNT.	PER CENT OF INCREASE. ¹			
	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	
Population	* 1, 520, 470	^{\$} 1,354,653	4 1, 249, 504	21.7	12.2	8.	
Number of establish- ments Persons engaged in man-	5,389	4, 870	5,005	7.7	10.7	-2.	
ufactures Proprietors and firm	214,641	182, 270	(5)		17.8	••••••	
members	4,989 23,700	5, 123 16, 666	(*) 12,731	86.2	-2.6 42.2		
Wage carners (aver- age number) Primary horsepower	185,952 223,886			41.3	$15.9 \\ 38.2$	21.	
Capital	,			66.9		16.	
Expenses Services	503, 201, 166 132, 394, 865			63, 1 66, 6			
Salaries Wages	29,073,546 103,321,319	18,637,473	13, 671, 864	112.7	56.0	36.	
Materials Miscellaneous	315, 770, 540 55, 035, 761	249,836,542	200, 057, 065	57.8	26.4	24.	
Value of products Value added by manu-	564, 054, 506	457, 254, 360	353, 955, 958	59.4	23.4	29.	
facture	248, 283, 966	207, 417, 818	153, 898, 893	61.3	19.7	34.	

A minus sign (-) denotes decrease.
 April 15, 1910.
 State census, May 1, 1905.

⁴ June 1, 1900. ⁵ Figures not available.

The proportions which the population and the statistics of manufactures for the territory outside of Boston represent of the totals for the metropolitan district are shown in Table 26.

Table 26	PER CENT TERRITORY OUTSIDE OF ROSTON IS OF TOTAL FOR DISTRICT.						
	1909	1904	1899				
Population Number of establishments Persons engaged in manufactures Proprietors and firm members Salaried employees Wage earners (average number) Primary horsepower Capital Expenses Services Services Salaries Materials Materials Miscellaneous Value of products Value added by manufacture	$\begin{array}{c} 55.9\\ 41.5\\ 00.3\\ 42.4\\ 46.6\\ 02.6\\ 00.4\\ 00.6\\ 58.0\\ 46.2\\ 61.4\\ 00.5\\ 43.7\\ 57.9\\ 54.5\end{array}$	$\begin{array}{c} 56.0\\ 43.6\\ 00.8\\ 44.7\\ 43.4\\ 63.1\\ 69.4\\ 57.7\\ 50.2\\ 58.7\\ 43.9\\ 62.0\\ 62.1\\ 43.5\\ 59.7\\ 50.7\\ \end{array}$	$\begin{array}{c} 55.1\\ 42.5\\ (1)\\ (1)\\ 39.6\\ 59.8\\ (1)\\ 51.2\\ 55.5\\ 54.2\\ 40.2\\ 57.1\\ 58.9\\ 35.8\\ 54.0\\ 47.7\end{array}$				

¹ Figures not available.

The proportion of the population of the district reported from the territory outside of Boston increased from 55.1 per cent in 1900 to 55.9 per cent in 1910, while the proportion of the value of products increased from 54 per cent in 1899 to 57.9 per cent in 1909.

Leading industries.—Table 27 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

The manufacture of boots and shoes is the leading industry in the Boston district. The value of the products in 1909 amounted to 18.3 per cent of the value of the products for all industries. Two industries printing and publishing and slaughtering and meat packing—each contributed 6.3 per cent of the value of products for the district; and two others—leather, tanned, curried, and finished, and foundry and machine-shop products—5.8 per cent and 5.3 per cent, respectively.

1

SUMMARY FOR THE BOSTON METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 27 INDUSTRY.	Num- ber of estab- lish ments.	PERSONS ENGAGED IN INDUSTRY.											
		Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ces.	Wage earners (aver- age num- ber).	horse-	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products.	Value added by manu- facture.
All industries	5, 389	214,641	4,989	23,700	185,952	223, 886	\$444, 558, 420	\$29, 073, 546	\$103, 321, 319	\$315, 770, 540	\$55, 035, 761	\$564, 054, 506	\$248, 283, 96
Automobiles, including bodies and parts Awnings, tents, and sails Beiting and hose, leather Blacking and cleansing and polish-	24 25 1 5	1,001 309 76	14 29	139 40 30	848 240 46	623 46 43	$1,556,831 \\ 189,040 \\ 411,771$	$138,000\\31,931\\37,400$	619, 408 132, 216 35, 232	1,054,842 251,032 512,504	169,277 37,920 28,304	2,280,009 527,045 698,278	1,225,16 276,01 185,77
ing preparations Boots and shoes, including cut stock	52	718	43	207	468	805	1, 521, 478	301,119	217,058	1,629,244	398, 972	3,212,367	1,583,12
and findings.	379	38, 711	411	2,802	35, 498	16,035	40, 954, 462	2,863,520	19,124,660	68, 508, 765	5,025,947	103, 242, 953	34, 734, 18
Boxes, fancy and paper Brass and bronze products. Bread and other bakery products Brushes. Canning and preserving	48 46 535 17 28	2,377 1,067 5,018 1,250 499	$\begin{array}{c} 35 \\ 40 \\ 569 \\ 14 \\ 21 \end{array}$	158 73 811 108 122	2, 184 954 3, 638 1, 128 356	${ \begin{smallmatrix} 1,242\\ 1,973\\ 7,887\\ 382\\ 589 \end{smallmatrix} }$	1,402,661 1,885,918 9,095,032 1,880,065 1,046,197	$\begin{array}{c} 202, 662 \\ 102, 327 \\ 568, 053 \\ 136, 476 \\ 137, 224 \end{array}$	$\begin{array}{r} 867,627\\ 617,770\\ 2,045,634\\ 447,549\\ 154,354\end{array}$	$1,678,118\\1,664,303\\8,786,364\\1,158,060\\1,452,880$	258,364 213,430 1,591,750 224,376 172,684	3,315,959 2,925,298 14,363,718 2,202,880 2,070,803	$1,637,84 \\1,260,99 \\5,577,35 \\1,044,82 \\617,92$
Carriages and wagons and materials. Cars and general shop construction and repairs by steam-railroad com-	58	741	72	45	624	849	964, 989	41,540	410, 246	465, 705	90, 630	1,213,649	747,94
panies Cars and general shop construction and repairs by street-railroad com-	12	3, 855		170	8, 685	3,926	8, 258, 702	154, 420	2, 385, 208	2,336,201	, 22,298	4,948,127	2,611,92
panies. Chemicals. Clothing, men's, including shirts	$14 \\ 17 \\ 210$	1,018 892 5,720	8 268	18 150 461	1,000 734 4,991	$1,356 \\ 2,012 \\ 1,290$	1, 313, 596 2, 835, 041 6, 605, 004	23,588 226,972 579,803	$687,288 \\ 481,179 \\ 2,484,549$	490,210 1,856,886 8,116,856	$14,647 \\ 450,091 \\ 2,292,149$	1,215,732 3,600,363 15,252,827	725,52 1,743,47 7,135,97
Clothing, women's	139	4,740	165	456	4,119	660	2, 789, 911	442,666	1,857,998	4,771,194	548, 834	8,748,500	3,977,30
ing. Coffins, burial cases, and undertak-	12	644	10	279	355	936	2,621,518	444, 448	193,184	3, 879, 975	670,652	5, 543, 838	1,663,86
ers' goods Confectionery. Cooperage and wooden goods. not	5 78	211 5,659	5 53	29 650	177 4,956	327 3,378	496, 902 6, 028, 139	28,480 1,001,577	106, 416 1, 606, 018	272, 933 7, 436, 106	$\begin{array}{r} 44,705 \\ 1,411,233 \end{array}$	512,893 12,487,864	239,90 5,051,70
elsewhere specified	13	405	8	22	375	776	579, 993	35, 995	201,623	600, 678	43,281	937,048	336,31
Copper, tin, and sheet-iron products. Cordage and twine and jute and linen	99	2,350	94	279	1,977	982	5, 174, 517	306, 472	1,129,482	2,231,785	409,384	4, 629, 656	2,397,87
goods Cotton goods, including cotton small	6	743	1	47	695	1,983	1,940,311	70,491	268,046	1,111,120	100,580	1,608,541	497,42
Wares	6	2,642	3	47	2, 592	7,402	4,691,657	98,211	1,041,391	2,237,334	290,078	4, 426, 528	2, 189, 19
Specified	32 11	$1,597 \\ 1,288$	32 6	$122 \\ 62$	$1,443 \\ 1,220$	$1,404 \\ 3,609$	2,437,535 2,208,627	190,312 109,548	629, 494 571, 943	1,021,080 783,910	829, 292 178, 717	3, 182, 744 2, 086, 930	2,161,66 1,303,02
Electrical machinery, apparatus, and supplies	53	12, 373	19		10,846	11,462	23, 392, 474	1,759,833	5,884,212	7,917,558	1,986,290	19,787,013	11, 869, 45
fied Flavoring extracts Food preparations Foundry and machine-shop products,	$ \begin{array}{r} 18 \\ 21 \\ 25 \\ 363 \end{array} $	$327 \\ 123 \\ 456 \\ 16, 174$	$ \begin{array}{r} 16 \\ 18 \\ 27 \\ 261 \end{array} $	$31 \\ 40 \\ 181 \\ 2.006$	280 65 248 13,907	72 23 434 18 007	$\begin{array}{r} 291,429\\ 287,345\\ 722,543\\ 38,311,242\end{array}$	$30,206 \\ 92,965 \\ 231,917 \\ 2,563,245$	$114,559 \\ 30,986 \\ 143,291 \\ 8,790,982 \\ 932$	205,962 266,922 749,275 11,620,707	69,362 77,688 346,919 3,398,855	506,704 611,661 1,654,763 29,752,537	300, 74 344, 73 905, 48 18, 131, 83

¹ Excluding statistics for establishments located outside of the corporate limits of Boston, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

BOSTON METROPOLITAN DISTRICT.

SUMMARY FOR THE BOSTON METROPOLITAN DISTRICT, BY INDUSTRIES: 1909-Continued.

Table 27—Continued.	Num- ber of estab- lish- ments.	PERSONS ENGAGED IN INDUSTRY.											
		Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- lancous expenses,	Value of products.	Value added by manu- facture.
Fur goods. Furnishing goods, men's. Furnishing goods, men's. Furniture and refrigerators. Gas, illuminating and heating. Glue.	12 27 91 19 8	267 2,141 3,381 1,195 449	16 21 95 6	46 255 290 171 43	205 1,865 2,996 1,024 400	28 896 4,471 4,420 1,591	\$722,717 2,958,800 5,546,316 36,524,593 2,289,349	\$30, 289 379, 339 387, 882 202, 742 56, 674	\$149,316 827,326 1,875,336 577,181 160,995	\$545,551 3,607,193 2,701,662 2,114,345 643,781	\$\$2,639 607,797 706,016 700,691 138,533	\$936, 052 6, 107, 568 6, 657, 891 6, 274, 063 970, 657	\$390,501 2,500,375 3,956,229 4,159,718 326,876
Grease and tailow Hosiery and knit goods House-furnishing goods, not else- where specified Jewelry Lasts	$\frac{15}{32}$	303 2,535	10 21	55 129	238 2,385	$572 \\ 1,266$	$685,839 \\ 3,031,502$	$79,855 \\ 231,230$	148,830 908,035	805, 023 2, 580, 003		$1,176,442 \\ 4,940,772$	371,419 2,360,769
	14 42 10	$^{315}_{1,130}$	$15 \\ 40 \\ 9$	$26 \\ 121 \\ 25$	$274 \\ 969 \\ 226$	285 555 847	620,637 1,143,398 669,600	30, 639 130, 998 36, 680	112,267 487,675 186,848	558, 487 783, 603 197, 286	97,357 133,565 95,497	844, 841 1, 804, 643 604, 513	280,354 1,021,040 407,227
		1,081	71	160	850	385	986, 52	160, 180	410, 191	1,155,667	185, 562	2, 094, 291	938,624
Leather goods Leather, tanned, curried, and fin- ished Liquors, malt Looking-glass and picture frames Lumber and timber products	1 1201	9,038 1,338 260 2,533	92 2 25 120	513 210 60 244	$8,433 \\ 1,126 \\ 175 \\ 2,169$	15,542 4,799 102 7,393	29,511,938 13,435,765 325,217 3,912,853	$741,561 \\ 478,169 \\ 49,632 \\ 281,119$	$\substack{\textbf{4,504,568}\\\textbf{1,019,213}\\\textbf{114,047}\\\textbf{1,438,170}}$	$\substack{22,913,876\\1,956,874\\204,403\\3,187,661}$	$\substack{\substack{1,816,609\\2,434,017\\84,296\\453,444}$	32, 493, 668 7, 553, 669 538, 595 6, 112, 989	9,579,792 5,596,795 334,192 2,925,328
Marble and stone work Mattresses and spring beds Millinery and lace goods Mineral and soda waters Mucilage and pasto	35 67 54	$3,051 \\ 648 \\ 1,894 \\ 386 \\ 103$	258 32 71 64 9	187 98 219 94 39	$2,606 \\ 518 \\ 1,604 \\ 228 \\ 55$	$7,547 \\ 439 \\ 324 \\ 282 \\ 482 \end{cases}$	$\begin{array}{r} \textbf{3, 455, 026} \\ \textbf{665, 559} \\ \textbf{1, 478, 094} \\ \textbf{933, 060} \\ \textbf{585, 402} \end{array}$	$\begin{array}{r} 225,457\\118,917\\252,854\\121,140\\61,332\end{array}$	$1,931,735 \\ 259,246 \\ 636,167 \\ 154,350 \\ 37,719$	$\substack{1,624,653\\1,077,536\\2,147,694\\465,061\\975,656}$	463, 931 191, 851 290, 036 264, 934 87, 186	$\begin{array}{c} \textbf{4,896,578}\\ \textbf{1,826,305}\\ \textbf{3,748,470}\\ \textbf{1,191,833}\\ \textbf{1,260,266} \end{array}$	$\begin{array}{r} \textbf{3,271,925}\\ \textbf{748,769}\\ \textbf{1,600,776}\\ \textbf{726,772}\\ \textbf{284,610} \end{array}$
Musical instruments, pianos and or- gáns and materials Oil, not elsewhere specified Paint and varnish	34 6 28	3,086 256 569	20 3 13	303 31 186	2,763 222 370	2,337 563 1,522	$8,660,626 \\ 575,904 \\ 1,752,160$	464,000 47,834 244,575	1, 767, 582 132, 784 213, 436	2, 634, 723 1, 691, 743 1, 706, 955	702, 856 141, 707 363, 146	6,145,903 2,068,154 2,904,313	3, 511, 180 376, 411 1, 197, 358
Patent medicines and compounds and druggists' preparations Photo-engraving.	106 20	1,356 545	71 19	378 120	907 406	484 111	3,187,013 379,302	495,629 161,538	433, 865 325, 712	$2,037,322 \\ 139,352$	1, 779, 165 92, 251	5,641,942 791,479	3, 604, 620 652, 127
Printing and publishing Shipbuilding, including boat build-	. 784	17,289	629	3,948	12,712	9,816	24,070,792	4,611,452	8,721,281	9,475,017	8, 114, 400	35, 796, 494	26, 321, 477
ing.	. 48	3,743	50	313	3,380	3,247	6,918,752	570, 509	2, 137, 903	2, 514, 333	1,011,058	6,486,527	3,972,194
sing, solution, solution, solution, solution, solution, sters, sters, slaughtering and meat packing.	- 5 - 42	524 2,980	6 36	33 340	485 2,604	788 3,814	385,355 12,846,390	42,076 407,791	175,488 1,430,903	429,238 31,648,702	45,270 625,361	759,540 35,714,106	330, 302 4, 065, 404
Soap. Soda-water apparatus Stationery goods, not elsewhere speci- fied		541 439	19 1	137 94	385 344	1,063 741	2,196,412 2,840,180	189,686 117,787	189,197 227,890	1, 055, 689 389, 747	740, 651 209, 723	$3,690,126 \\ 1,323,017$	1, 734, 437 933, 270
Stationery goods, not elsewhere speci- fied	6	423	1	44	378	107	209, 595	36,700	151,317	339, 256	130, 009	744,359	405, 103
Stoves and furnaces, including gas and oil stoves	. 7	819	2	107	710	807	1,804,448	169, 841	535, 127	470, 653	193,237	1,507,932	1,037,279
Tobacco manufactures. Window shades and fixtures. Woolen, worsted, and felt goods, and wool hats. All other industries.	200	2,807 134	205 7	188 10	2, 414 111	70 9	2,771,842 173,888	251,094 17,807	1,830,556 61,799	2, 121, 929 479, 878	832,661 58,261	$5,719,211 \\ 667,275$	3, 597, 282 187, 397
	1 12	$1,732 \\ 32,106$	4 684	93 3, 291	1, 635 28, 131	5,144 50,435	5, 279, 399 94, 129, 241	149,597 4,086,034	725, 239 15, 043, 512	3,946,006 58,475,473	302,357 9,112,567	5,609,089 98,903,705	1,663,083 40,428,232

¹ Excluding statistics for establishments located outside the corporate limits of Boston, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

Comparative summary, by industries.—The number of establishments, average number of wage earners, and value of products for such of the industries as can be shown separately and have a value of products amounting to \$4,000,000 or more in 1909, are given in Table 28 for the district for 1909, 1904, and 1899.

The greatest absolute increase in value of products during the decade-\$51,869,122, or 101 per cent-is

shown for boots and shoes. The greatest relative increase, 220.3 per cent, was reported for the manufacture of hosiery and knit goods. Among the more important industries that can not be shown at all in any tables are, in the order of their importance, sugar refining, the rubber boot and shoe industry, and the manufacture of chocolate and cocoa products, of rubber goods, of rubber and woven belting and hose, of clocks and watches, and of paper and wood pulp.

COMPARATIVE SUMMARY FOR THE BOSTON METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 28	NU.	MBER	OF	WAG	E EAR	NERS						PE	R CEN	F OF 11	NCREAS	3E. ¹		
INDUSTRY.		ESTAB HMEN		1 (1	VERA UMBER	Æ	VAL	UE OF PRODI	JCTS.		umber blishm		Wa (avera	ge car ige nur	ners nber).	Value	org to e	ducts.
	1909	1904	1899	1909	1904	1899	1909	190 1	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909		1899- 1904
Boots and shoes, including cut stock and findings	379	387	448	35, 498	28,011	22, 707	\$103, 242, 953	\$67, 945, 133	\$51,373,831	-15.4	-2.1		56.3	26.7	23,4	101.0	52.0	
Printing and publishing. Newspapers and periodicals Book and job. Music. All other printing and publishing	784 251 430 11	694 236 366 10	697 207 364 9	12, 712 3, 811 5, 719 102	10, 724 3, 452 4, 843 89	10, 677 3, 430 4, 428 160	35, 796, 494 16, 912, 492 13, 944, 512 468, 197	29, 760, 753 16, 615, 499 9, 753, 314 505, 990	27,315,573 13,270,745	12.5 21.3 18.1	13.0 6.4 17.5	-0.4 14.0	$19.1 \\ 11.1$	18.5 10.4 18.1 14.6	0.4 0.6 9.4	31.0 27.4 38.7	20.3 1.8 43.0	9.0 25.2
industries ²	92 42 109 363	82 34 104 307		-	2, 340 2, 464 6, 933	1, 663 4, 789	4, 471, 293 35, 714, 106 32, 493, 668	31, 590, 422	3, 582, 087 19, 042, 769 18, 602, 569	-21.4 75.0 12.4	12.2 23.5 4.8	-29.9 41.7 7.2	15.8 56.6 76.1	31.6 5.7 21.6	-12.0 48.2 44.8	24.8 87.5 74.7		19.4 65.9 34.8
Clothing. Men's, including shirts. Women's.		$\frac{258}{149}$	278 178 100		7,052 3,855 3,197		29, 752, 537 24, 001, 327 15, 252, 827 8, 748, 500		(*) 13,551,864 9,763,057 3,788,807	25.5 18.0 39.0	18.2 35.3 40.9 27.5	-7.2 -16.3 9.0	63.5 46.2 90.9	-0.9 29.2 29.5 28.8	26.6 13.0 48.1	77.1 56.2 130.9	8.6 27.5 23.2	38.9 26.8
Textiles. Woolen, worsted, and folt goods, and wool hats. Hosiery and knit goods Cotton goods, including cotton	78 12 32	82 14 31	88 11 35	10, 229		8, 909	21, 458, 183	18, 401, 951 4, 116, 845 2, 873, 309	13, 805, 250 2, 370, 981 1, 542, 616	-11.4 9.1	4.9 14.3 3.2	-6.8 27.3 -11.4	14.8 6.2 106.5	1.6 	13.0 21.9 18.2	55.4 136.6	16.6 36.2	69.9 33.3 73.6
Dycing and finishing textiles Cordage and twine and jute and linen goods.	6 11 6	5 14 6	10 12 8	2, 592 1, 220		2, 643 1, 069 1, 051	4, 426, 528 2, 086, 930 1, 608, 541	3, 213, 679 1, 590, 035 3, 280, 304	3, 324, 170 1, 398, 893 2, 705, 243	-40.0	20.0 21.4	-50.0 16.7	-1.9 14.1	8.7 10.8	7.4 3.0	220, 3 33, 2 49, 2	72.0 37.7 31.3	86.3 3.3 13.7
Silk and silk goods, including throwsters. All other textiles 4 Electricalmachinery, apparatus, and	5 6	7 5	7 5	485	510 1, 183	637 814	759, 540 2, 026, 783	788, 321 2, 539, 458	784,006 1,679,341	-23.6 -28.6 20.0		-25.0	-33.9 -23.9 49.5	-41.8 -4.9 2.9	13.7 19.9 45.3	40, 5 3, 1 20, 7	-51.0 3.7 20.2	21.3 0.6 51.2
supplies. Bread and other bakery products Confectionery. Liquors, malt. Furniture and refrigerators.	53 535 78 • 20 91	42 531 67 23 4 81	38 468 56 525 578	4,956	2 221	4, 484 3, 158 2, 309 1, 261 2, 744	$19,787,013\\14,363,718\\12,487,864\\7,553,669\\6,657,891$	12, 786, 569 10, 883, 020 8, 109, 237 6, 715, 215 5, 382, 857	8,851,042 9,282,637 5,141,966 7,518,668 5,438,724	39.5 14.3 39.3 -20.0 16.7	26.2 0.8 16.4 -13.0 12.3	13.5	141.915.2114.6-10.79.2	50.8 12.9 36.4 18.5 5.8	60.4 2.0 57.3 24.7	123.6 54.7 142.9 0.5	32.0 54.0 12.5	44.5 17.2 57.7 10.7
Shipbuilding, including boat build- ing	4S 19	51 20	56 24	3, 380 1, 024	3, 481 806	1, 351 813	6, 486, 527 6, 274, 063	6, 162, 794 4, 482, 519	2,605,805 3,755,171	-14.3 -20.8	-5.9		5.2 150.2 26.0		3.2 157.7 -0.9	22.4 148.9 67.1	23.7 5.3 40.0	-1.0 136.5 19.4
gans and materials	34 123	35 123	36 89	2, 763 2, 169	3,060 2,530	$2,414 \\ 1,645$	6, 145, 903 6, 112, 989	6, 373, 907 7, 261, 235	4,915,586 4,990,269	-5.6 38.2	-2.9	-2.8 38.2		-9.7 -14.3	$26.8 \\ 53.8$	25.0 22.5	-3.6 -15.8	29.7 45.5
Tobacco manufactures Patent medicines and compounds and druggists' preparations Coffee and spice, roasting and grind-	200 106	163 88	163 85	2, 414 907	2, 587 780	1, 881 922	5, 719, 211 5, 641, 942	4, 841, 685 5, 767, 461	3, 748, 480 4, 175, 120	22. 7 24. 7	22.7 20.5	3.5	28.3 1.6	-6.7 16.3 -	37.5	52.6 35.1	18.1 	29.2 38.1
ing Cars and general shop construction and repairs by steam-railroad com-	12	15	(3)	355	293	(3)	5, 543, 838	3, 479, 213	(3)	••••• -	-20.0	••••- -		21.2			59.3	•••••
panies Marble and stone work Copper, tin, and sheet-iron products	12 195 99	13 151 73	10 (³) 76	3, 685 2, 606 1, 977	2.737	2,027 (³) 1,450	4,948,127 4,896,578 4,629,656	4, 008, 695 4, 461, 862 8, 451, 651	2, 527, 804 (⁸⁾ 2, 827, 926	20.0 30.3	-7.7 29.1 35.6	30.0 	81.8 36.3	25.4 4.8 33.9	45.0 1.9	95.7 63.7	23.4 9.7 34.1	58.6 22.1

1 A minus sign (-) denotes decrease.
2 Includes "bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing."
2 Comparable figures not available.
4 Includes "carpets and rugs, other than rag," and "shoddy."
6 Excluding statistics for one establishment, to avoid disclosure of individual operations.

ST. LOUIS METROPOLITAN DISTRICT.

Territory included.-The St. Louis metropolitan district, which was the sixth in importance in the United States in manufacturing industries in 1909, embraces 197,993 acres of territory, of which 39,276 acres constitute the area of St. Louis and 158,717 acres the area of the outside territory. The population of the district in 1910 was 828,733 and that of the city of St. Louis proper was 687,029. As defined at the census of 1910, the metropolitan district includes, in addition to the city of St. Louis, Carondelet and Central townships, and Kirkwood city (in Bonhomme, Carondelet, and Central townships) in St. Louis County, Mo.; East St. Louis city, and Canteen, Centerville, and Stites townships in St. Clair County, Ill.; and Nameoki and Venice townships in Madison County, Ill. The part of Kirkwood city in Bonhomme township, Mo., and Nameoki and Venice townships (in which Granite City is situated) have been added to the district as it was constituted for the report for the census of 1905 on Industrial Districts, Bulletin No. 101. A part of Centerville township was annexed to Belleville city in 1906 and is now outside the district. It is impracticable to segregate statistics for manufacturing establishments, if any, within this small area in 1904 and 1899. Canteen township was organized from a part of Centerville township in 1910. Parts of Centerville township were also added to East St. Louis city in 1908 and 1909.

On page 940 is an outline map of the St. Louis district showing the cities of St. Louis, East St. Louis, and Kirkwood, and the various townships included.

Summary for the district.—Table 29 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the St. Louis metropolitan district, for the cities of St. Louis and East St. Louis, and for the remainder of the district, the percentage which the figure for St. Louis represents of the total for the district being shown in the case of each item.

Table 29		NUME	ER OR AMOUNT	r.		Per cent
			Distric	t exclusive of St. 1	Louis.	St. Loui is of tota for
	The district.	St. Louis	Total.	East St. Louis.	Remainder.	district.
Population 1	$\begin{array}{c} 126, 453\\ 2, 045\\ 17, 873\\ 106, 535\\ 228, 925\\ 3364, 139, 219\\ 324, 139, 219\\ 324, 139, 219\\ 324, 157, 263\\ 22, 612, 726\\ 50), 544, 537\\ 206, 552, 373\\ 45, 429, 583\end{array}$	$\begin{array}{c} 687,029\\ 2,667\\ 104,587\\ 1,869\\ 15,347\\ 87,371\\ 163,615\\ \$$269,392,377\\ 297,246,700\\ 68,205,900\\ 19,670,911\\ 48,534,989\\ 188,189,163\\ 40,851,727\\ 328,445,513\\ 140,306,150\end{array}$	$\begin{array}{c} 141, 704\\ 284\\ 21, 866\\ 176\\ 2, 526\\ 19, 164\\ 65, 310\\ 886, 963, 879\\ 96, 892, 429\\ 13, 951, 303\\ 2, 941, 815\\ 11, 009, 548\\ 78, 363, 210\\ 4, 577, 856\\ 101, 674, 931\\ 23, 311, 721\\ \end{array}$	$\begin{array}{c} 58, 547\\ 139\\ 6, 005\\ 92\\ 661\\ 5, 252\\ 23, 273\\ $31, 297, 548\\ 16, 701, 465\\ 3, 940, 653\\ 600, 549\\ 3, 250, 104\\ 11, 440, 076\\ 1, 320, 736\\ 18, 227, 960\\ 6, 787, 884\\ \end{array}$	$\begin{array}{c} 83, 157\\ 145\\ 15, 861\\ 84\\ 1, 805\\ 42, 037\\ 855, 060, 331\\ 80, 190, 061\\ 10, 010, 710\\ 2, 251, 206\\ 7, 759, 444\\ 66, 923, 134\\ 3, 257, 120\\ 83, 446, 971\\ 16, 523, 837\\ \end{array}$	87. 81. 70.

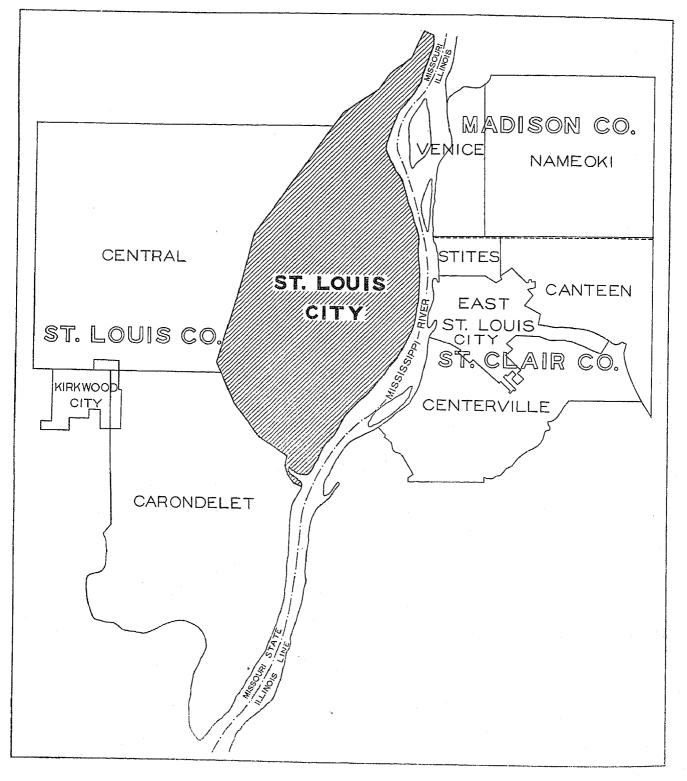
1 April 15, 1910.

In the St. Louis district, as in Cleveland, Detroit, and all but two of the other districts, the greater part of the value of manufactured products of the district was reported by factories within the central city. St. Louis contained over four-fifths (82.9 per cent) of the population of the district of which it is the manufacturing, commercial, and financial center, and contributed over three-fourths (76.4 per cent) of the value of products for the district. Its manufacturing establishments constituted over nine-tenths (90.4 per cent) of all in the district, and gave employment to more than four-fifths (82 per cent) of the average number of wage earners for that area. The principal industries of East St. Louis in 1909 were flour mills and grist mills, foundries and machine shops, steel works and rolling mills, and the chemical industry.

Granite City, which is included with the "remainder" of the district, as it was returned as of less than 10,000 population in 1910, has important manufactures, with large values of products. These manufactures include steel, glucose, babbitt metal and solder, tin plate and terneplate, and stamped and enameled ware.

(939)

ST. LOUIS METROPOLITAN DISTRICT: 1909.



Comparison with earlier censuses.—Table 30 is a comparative summary for the district as a whole for 1909, 1904, and 1899, together with the percentages of increase from census to census. For purposes of accurate comparison with the statistics for the district as given for 1904¹ and 1899,¹ the totals for 1909 are segregated into figures for the territory added since 1904, and into those for the remainder of the district.

¹Bureau of the Census: Industrial Districts, 1905, p. 45.

Table 30		NU	MBER OR AMOUN	т.		PER CE	NT OF INC	REASE. I
	,	1909						
	Total.	Territory added since 1904.	Remainder of district. ²	190 1	1899	1899-1909	1904-1909	1899-1904
Population . Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Salaries. Salaries. Wages. Materials. Miscellaneous. Value of products. Value added by manufacture.	$\begin{array}{c} 2,951\\ 126,453\\ 2,045\\ 17,873\\ 106,535\\ 228,925\\ \$356,356,256\\ 394,139,219\\ 82,157,263\\ 22,612,726\\ 59,544,537\\ 266,552,373\\ 266,552,373\\ 266,552,373\\ 266,552,373\\ 269,583\\ 45,429,583\\ \end{array}$	* 23, 954 49 7, 314 300 6,596 20,344 \$26,042,286 19,065,226 4,518,038 817,684 3,700,354 13,113,277 1,433,911 20,728,878 7,615,601	$\begin{array}{r} {}^{1}804,779\\ 2,902\\ 119,139\\ 2,015\\ 17,185\\ 99,939\\ 208,581\\ \$330,313,970\\ 375,073,99,225\\ 21,795,042\\ 55,844,183\\ 253,439,096\\ 43,995,672\\ 409,441,366\\ 156,002,270\\ \end{array}$	(*) 2,603 106,041 1,944 12,413 91,684 131,405 \$289,133,806 282,152,003 61,913,138 14,546,325 47,366,813 180,806,473 39,432,392 319,709,859 138,903,386	$\begin{array}{c} {}^{5} 638, 134\\ 2, 731\\ (\bullet)\\ 9, 157\\ 70, 556\\ (\bullet)\\ \$159, 634, 795\\ 201, 154, 271\\ 42, 067, 942\\ 10, 396, 824\\ 31, 691, 118\\ 31, 029, 394\\ 28, 036, 935\\ 228, 039, 639\\ 97, 060, 245\\ \end{array}$	26.1 6.3 	$\begin{array}{c} 11.5\\12.4\\3.7\\38.4\\9.0\\58.7\\14.2\\32.9\\25.4\\49.8\\17.9\\40.2\\11.6\\28.1\\12.3\end{array}$	$\begin{array}{c} -4.7\\ 35.6\\ 220.9\\ \\ 81.1\\ 40.3\\ 47.1\\ 30.9\\ 49.5\\ 38.0\\ 40.2\\ 40.2\\ 43.1\end{array}$

A minus sign (-) denotes decrease.
 Figures in this column used in computing percentages of increase.

The percentage of increase in salaried employees, salaries, and cost of materials was greater during the more recent five-year period, 1904–1909, than during the period 1899–1904. The number of establishments increased during the later five years, while an actual decrease was reported for the earlier period. The percentages of increase during the decade 1899–1909 were much larger in salaries and capital than for any other items. The average number of wage earners increased 41.6 per cent and their wages 76.2 per cent, a rate of gain almost as great as that in value of products— 79.5 per cent. The rate of increase in primary horsepower of all kinds from 1904 to 1909 was 58.7 per cent. Statistics as to the primary power used in 1899 are not available.

The proportions of the population and manufactures in the outside territory, as compared with the total for the metropolitan district, are constantly increasing, as is indicated by the percentages in Table 31. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904.

The proportion of the population of the district as originally constituted, reported from the territory outside of St. Louis, increased from 9.9 per cent in 1900 ³ April 15, 1910. ⁴ No population census in 1905. June 1, 1900.
Figures not available.

to 14.6 per cent in 1910, and the proportion of the value of products increased steadily from 15.1 per cent in 1899 to 16.4 per cent in 1904 and 19.8 per cent in 1909.

1909 ¹ 14. 6 8. 1 12. 1 7. 2	(²) 4.6 9.5	3.1
8.1 12.1	4.6 9.5	
12.1	9.5	
	0.0	
	3.1	
10.7	8.3	3.2
	9.8	8.1
21.6	17.4	(4)
18.4		5.7
		16.3
		6.8
		3.1
		8.0 22.3
		2.3
		15.1
10.1	6.7	5.9
	18.420.712.19.713.125.77.119.810.1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

² No population census in 1905. ⁸ Figures not available.

Leading industries.—Table 32 gives statistics for 1909 for the industries of the district, having products valued at \$500,000 or more, so far as separate figures can be presented.

SUMMARY FOR THE ST. LOUIS METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 32		PER	SONS I INDU	ENGAGE JSTRY.	D IN								
INDUSTRY.	Num- ber of estab- lish ments.		Pro- prie- tors and firm mem- bers.	ried em- ploy-	Wage earners (aver- age num- ber)	Pri- mary horse- power.	Capital,	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products;	Value added by manu- facture,
All industries	2, 951	126, 453	2,045	17,873	108, 535	228, 925	\$356, 356, 25	6 \$22, 612, 726	3 \$59, 544, 537	\$266, 552, 37	3 \$45, 429, 58	3 \$430, 170, 244	\$163, 617, 871
Automobiles, including bodies and parts	11	340	2	56	282	139	620,371	61 895	197, 452	726, 798	02 400		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Awnings, tents, and sails. Blacking and cleansing and polish- ing preparations.	12	287	22	68	217	81	465, 171	65,894		556,008	63,075	1,302,283 826,487	575, 485 270, 479
Boots and shoes, including cut stock and findings. Boxes, fancy and paper		164 13,006	17 3	50 865	97 12,138	150 7,547	207,608 10,562,837	60, 982 990, 893	52, 577 6, 169, 631	290, 656 23, 735, 168		570,914	280,258
		865	9	66	790	493	680, 947	80,560	286, 224	463,904	74,375	83,970,372 959,532	10, 235, 204 495, 628
Brass and bronze products Bread and other bakery products Brick and tile Canning and preserving Carrieges and measure and entertaint	11 484 14	325 3,476 2,016	6 475 2	50 648 79	269 2,353 1,935	385 8,086 3,302	963,035 7,240,585 4 972 103	76,162 585,435 128,560 97,421	179,6611,287,883988,71575,296	$\substack{1, 631, 835\\4, 992, 567\\660, 832}$	74,074 893,152	2,164,768 9,047,142	532, 933 4, 054, 575 1, 763, 520
Canning and preserving. Carriages and wagons and materials.	1 9 85	293 2,608	2 10 63	92 250	191 2,289	161 3,173	4,972,103 975,608 5,209,760	97, 421 362, 377	75,296	628,066 3,867,741	233, 268 87, 598 409, 728	2, 424, 352 962, 193 6, 401, 405	1, 763, 520 334, 127 2, 533, 664
Cars and general shop construction and repairs by steam-railroad										,,.		5, 202, 200	#7 033, 004
and reparts by steam-rairoad companies Clothing, men's, including shirts Clothing, women's. Coffee and spice, roasting and grind- ing	$12 \\ 50$	2,930 5,246 2,745	32	140 463	$2,790 \\ 4,751$	2,644 879	2,084,188 5,419,636	$134,168 \\581,726 \\301,456$	1,636,377 1,966,168	1, 328, 248 5, 382, 012 2, 901, 808	41, 290 700, 988	3,140,082 9,687,421	1,811,834 4,305,409
Coffee and spice, roasting and grind- ing	¹ 58 23	2,745 1,091	49 6	257 515	2,439 570	438 1,886	2,050,468 4,547,171		1,021,016		326, 582	9, 687, 421 4, 886, 052	1,984,244
Coffins, burial cases, and under- takers' goods.		596		106	490	608		697,362 132,066	268, 406 268, 230	7, 217, 065 664, 539	740, 472 184, 358	9,513,595	2,296,530
Confectionery Cooperage and wooden goods, not elsewhere specified Copper, tin, and sheet-iron products. Electrical machinery, apparatus, and supplies Fertilizers	25 28	1,453	14 16	217 84	1,222	823	1,173,575 1,747,211	132,066 349,724	512, 420	2, 174, 939	440, 694	1, 371, 092 3, 848, 422	706, 553 1, 673, 483
Copper, tin, and sheet-iron products. Electrical machinery, apparatus,	126	$1,174 \\ 3,632$	113	355	3, 164	2,921 2,031	1, 993, 922 6, 632, 822	111, 762 428, 406	554,888 1,580,170	1,847,889 4,851,264	187, 141 489, 289	3,009,209 8,018,879	1,161,370 3,167,615
Fertilizers	¹ 16 4	912 186	7 7	206 50	699 136	650 780	1,523,842 912,025	265, 414 68, 375	$380,114 \\ 62,153$	636, 129 384, 450	267, 054 49, 963	2, 080, 635 038, 439	$1,444,506 \\ 253,989$
Flavoring extracts. Flour-mill and gristmill products	8 16	$ \begin{array}{c} 165 \\ 355 \end{array} $	3 4		74 246	55 4,082	355, 894 2, 252, 576 2, 377, 416	104,156 152,634	28, 794 144, 915	264, 230 5, 853, 913	78, 766 220, 359	622, 676 6, 578, 904	358, 446 724, 991 955, 861
Foundry and machine-shop prod-	¹ 21 176	559 7,800	18 83	159 1,107	382 6,610	946	2,377,410 17,581,220	152,634 206,776	169, 722	3, 498, 913	259, 348	4, 454, 774	
ucts. Furnishing goods, men's	9	289	8	56	225	11,009 10	337, 737	1,415,475 54,525	4,239,599 82,937	8, 125, 592 391, 022	1,534,408 33,065	17, 338, 198 679, 722	9, 212, 606 288, 700
Furniture and refrigerators	165 7	3,310 257	22 4	406	2,882	5,163	5,689,684	504, 488	1,620,135	2, 735, 029	578, 957	6, 110, 965	3, 375, 936
Ice, manufactured. Iron and steel, steel works and roll-	13	264	•••••	51 42	202 222	185 8,790	490, 237 2 , 384, 270	64, 956 50, 472	126,313 172,067	285, 412 312, 303	48, 406 44, 511	547, 446 805, 644	262,034 493,341
Jewelry	9 8	6,293 268	4	579 40	5,714 224	21,004 117	19, 921, 785 147, 673	591, 813 31, 842	$3,444,688 \\ 152,947$	$ \begin{array}{r} 6,264,040 \\ 228,493 \end{array} $	$1,262,804\ 33,034$	12, 037, 791 532, 037	5, 778, 751 304, 144
Leather goods Leather, tanned, curried, and fin- ished Liquors, malt Lumber and timber products Marble and stone work	1 32	1,204	21	223	960	693	2, 292, 601	271, 519	514, 931	1,629,336	359, 916	3, 108, 131	1, 478, 795
Liquors, malt Lumber and timber products	9 14 86	246 5, 598	3	23 589		519 26, 102	1, 478, 051 47, 252, 731 7, 121, 163	$\begin{array}{r} 42,487\\ 1,128,556\end{array}$	145, 548 2, 484, 681	1, 598, 865 6, 691, 627	51,646 8.313,901	2,034,979 24,191,737	436, 114 17, 500, 110
	44	3, 574 705	36 34	420 83	3, 118 588	10,077 1,188	7,121,103 1,321,432	496, 848 120, 852	1,852,297 495,983	4,432,065 762,294	8, 313, 901 431, 959 130, 149	24, 191, 737 8, 197, 133 1, 670, 011	3, 765, 068 907, 717
Millinery and lace goods Mineral and soda waters Paint and varnish	18 44 1 23	655 355	13 29	128 100	514 226	$\begin{array}{c} 64 \\ 152 \end{array}$	440, 308 559, 123	97, 111 95, 613	182,561 115,089	548, 877 179, 944	102, 493 109, 775	1,045,408 611,266	496, 531 431, 322
raper goods, not elsewhere specified.	1 23 9	869 404	$\frac{1}{3}$	270 41	598 360	2,139 269	4,661,187 657,021	398, 199 57, 724	315, 048 150, 670	3,738,225 380,044	552, 908 96, 286	5, 564, 021 796, 028	1, 825, 796 415, 984
Patent medicines and compounds and druggists' preparations Pottery, terra-cotta, and fire-clay	1 99	1,626	87	677	862	800	4, 506, 796	879,642	364,259	2,280,680			
Printing and publishing	1 13 375	2,246 8,685	$\frac{2}{246}$	195 2,258	2, 049 6, 181	4,230		294, 825 2, 859, 936	1,060,843 4,051,105		1, 730, 626 327, 657	6, 846, 391 2, 682, 754	4, 505, 711 2, 048, 337
rooming materials	4	81	2	23	56	14,736 120	8, 776, 838 13, 138, 946 386, 914	2,859,936 21,092	4,051,105 31,353	634, 417 5, 258, 278 435, 179	3, 505, 974 44, 680	$\begin{array}{c} 2,682,754 \\ 17,785,074 \\ 565,917 \end{array}$	2,048,337 12,526,796 130,738
Slaughtering and meat packing Stoves and furnaces, including gas and oil stoves	11	6,354 2,048	19 2	976 979	11	3,148	18, 107, 879	1,057,528	3,065,827	74, 920, 220	1,826,870	81, 903, 483	6, 983, 263
cable	19	832	6	143	1,673 683	1,826 853	7, 254, 137 2, 241, 838	535,244 247,120	1, 198, 582	2,457,524	774,328	5,923,388	3, 465, 864
All other industries	750	8,066	569				124, 637, 914	247, 129 5, 250, 586	364,932 14,132,446	1,697,227 66,006,756	375, 121 15, 494, 902	3, 323, 043 109, 389, 449	1, 625, 816 43, 382, 693

¹ Excluding statistics for establishments located outside of the corporate limits of St. Louis, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

Among the 46 industries shown separately in the table there are 10 for which totals for the district can not be published, because to do so would disclose individual operations; and 16 which were not carried on in the part of the district which is outside the corporate limits of St. Louis. In all these cases the statistics shown are figures for St. Louis exclusively.

The most important industry in the St. Louis metropolitan district, measured by value of products, was slaughtering and meat packing, while the manufacture of boots and shoes was second in this respect, but led in average number of wage earners and wages. The establishments in the boot and shoe industry, all of which were within the city limits, contributed over two-thirds of the value of products for this industry reported for the state. The tobacco industry, for which separate figures can not be given without disclosing the operations of individual establishments, ranked third, followed by the manufacture of malt liquors.

Comparative summary, by industries.-The number of establishments, average number of wage earners, and value of products reported for such of the industries as can be shown separately and had a value of products amounting to \$4,000,000 or more in 1909 are given in Table 33 for 1909, 1904, and 1899.

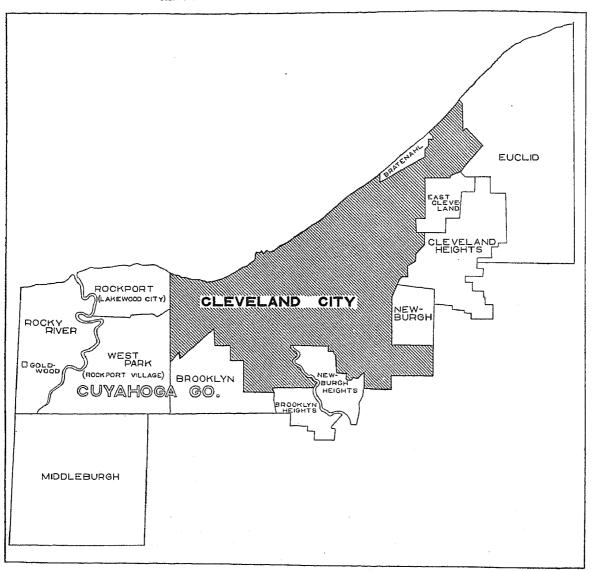
The greatest absolute increase in value of products during the decade in the area under consideration was reported for the slaughtering and meat-packing industry-\$41,186,839, or 101.2 per cent. The greatest relative increase, 383.1 per cent, is shown for the manufacture of copper, tin, and sheet-iron products, but as figures for one establishment are omitted from the total for the industry for 1899, in order to

avoid disclosing individual operations, the actual percentage of increase in this industry is less than that shown in the table. Moreover, the increase shown is due, in part, to the inclusion of a large establishment in Granite City, which was not a part of the district for 1904 and 1899. The manufacture of boots and shoes, including cut stock and findings, shows exceptional development during the decade, the average number of wage earners in the industry having increased 124.9 per cent and the value of products 300.3 per cent. The total for steel works and rolling mills is considerably increased for 1909 by the addition of statistics for establishments not included in the district as constituted for 1904.

COMPARATIVE SUMMARY FOR THE ST. LOUIS METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 33	NU	MBER	OF	WAG	E EARI	NERS						PE	R CENT	OF D	CREAS	E.1		
INDUSTRY.	1	ESTAB IIMEN	-	()	UMBER	Æ	VALU	JE OF PRODU	JCTS.		ımber əlishm		Wa (avero	gë ëari gë nur	ners nber),	Value	of pro	ducts.
	1909	1904	1899	1909	1904	1899	1909	1901	1899		1904- 1909	1899- 1904	1899- 1909	1904- 1909		1899- 1907		1899- 1904
Slaughtering and meat packing Boots and shoes, including cut stock and findings. Liquors, mait.	28 33 14		35	5, 359 12, 138 5, 009	9,331	3, 019 5, 398 2, 670	33,970,372	\$57,960,808 19,662,388 20,930,462	8,487,020	-5.7	50.0	—16. 1 —37. 1		30.1	72.9	300.3	72.8	131.7
Printing and publishing Book and job Newspapers and periodicals All other printing and publish- ing industries 4	375 207 124 44	188 150	336 175 130 31	6, 181 3, 865 1, 698 618	1,682	$2,336 \\ 1,281$		7, 545, 139	4,430,502	18.3 4.6	10.1 17.3	15, 4	65. 5 32. 6	9.1 1.0	51.6 31.3	91.5 51.6	9.6	
Foundry and machine-shop products.	176	3 148	(6)	6, 610	6,438	(5)	17, 338, 198	12,990,068	(5)		18.9			2.7			33. 5	
Clothing Men's, including shirts Women's	108 50 \$58	53	$178 \\ 136 \\ 42$	7, 190 4, 751 2, 439	5,646 3,942 1,704	$5,461 \\ 3,504 \\ 1,957$	$\begin{array}{c} 14,573,473\\9,687,421\\4,886,052 \end{array}$	6,850,351	9, 303, 208 6, 315, 762 2, 987, 446	39. 3 63. 2 38. 1	$9.1 \\ -5.7 \\ 20.1$	-44.4 -61.0 9.5	35.6	20.5		53.4	41.4	8.5
Iron and steel, steel works and roll- ing mills. Coffee and spice, roasting and grind- ing. Bread and other bakery products Lumber and timber products	9 23 484 86	19 2 322	(5) 20 396 355	570 2,353	1,933	(⁵) 419 1,483 2,251	9,047,142			15. 0 22. 2 50. 4	50.0 21.1 50.3 22.9	-5.0 -18.7	36.0 58.7	21.7	15.5 30.3	84.2	43.2	41. 1 28. 6
Copper, tin, and sheet-iron products. Patent medicines and compounds and druggists' preparations Flour-mill and gristmill products Carriages and wagons and materials.	126 6 99 16 85	3 95 2 9	18	862 246	196	861 281	6, 846, 391 6, 578, 904	4, 483, 335 5, 182, 444 3, 974, 437 5, 809, 708	4,664,118 4,557,507	15.1 	4.2	10.5 50.0	0.1 -12.5	0.1 25.5	-30.2	46.8	32, 1 65, 5	11.1 12.8
Furniture and refrigerators Stoves and furnaces, including gas and oil stoves Paint and varnish Food preparations	2 65 13 7 23 3 21	2 14 2 25	8 40 (6) 18 23	2, 882 1, 673 598 382	1,875 552	(⁶) 448	6, 110, 965 5, 923, 388 5, 564, 021 4, 454, 774	4,057,216 5,523,277 5,909,089 2,409,270	(⁶) 3,868,746	27.8	-7.1	38.9	33. 5	-10.8 8.3	23.2		7.2	52.7

1 A minus sign (-) denotes decrease.
 2 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 3 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 4 Includes "printing and publishing, music; ""bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing."
 4 Comparable figures not available.
 5 Comparable figures not available.
 6 Excluding statistics for four establishments, to avoid disclosure of individual operations.
 7 Excluding statistics for four establishments, to avoid disclosure of individual operations.



CLEVELAND METROPOLITAN DISTRICT: 1909.

CLEVELAND METROPOLITAN DISTRICT.

Territory included.—The metropolitan district of Cleveland embraces 103,174 acres of territory, of which 29,209 acres constitute the area of Cleveland and 73,965 acres the area of the outside territory. The population of the city of Cleveland proper in 1910 was 560,663, and that of the outside territory 52,607, the total for the district being 613,270. As defined at the census of 1910, the metropolitan district includes the central city, together with Bratenahl, Brooklyn, Brooklyn Heights, Cleveland Heights, East Cleveland, Euclid, Goldwood, Middleburgh, Newburgh, Newburgh Heights, Rockport, Rocky River, and West Park townships in Cuyahoga County. The industrial district covered by the report on industrial districts for the census of 1904 (Bulletin No. 101) did not include Middleburgh township, but it comprised, in addition to the territory represented by the other places named above, the area which now constitutes Bedford, Independence, South Newburgh, and Warrensville townships. Glenville township (the part which remained after the organization of Bratenahl township in 1904), part of Brooklyn township, and part of Newburgh Heights township were added to Cleveland in 1905; Corlett township, which formed part of Newburgh township in 1904, was annexed in 1909; and part of what was Collinwood township in 1904 was annexed in 1910. Goldwood township was organized from part of Rocky River township in 1910.

The location of each of the constituent divisions of the district is indicated on the outline map (p. 944).

Summary for the district.—Table 34 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Cleveland metropolitan district, for the city of Cleveland, and for the remainder of the district, the percentage which the figure for Cleveland represents of the total for the district being shown in the case of each item.

In 1909 the Cleveland metropolitan district had 2,230 manufacturing establishments, which gave employment to an average of 103,709 persons during the year, and paid out \$66,805,430 in salaries and wages. Of the persons employed, 89,088 were wage earners. These establishments turned out products to the value of \$281,992,131, to produce which materials costing \$159,896,454 were utilized. The value added by manufacture was thus \$122,095,677. The Cleveland district ranked seventh in 1909 among the metropolitan districts of the United States in the value of its manufactured products. The percentages which the figures relating to manufacturing industries in the central city in 1909 form of the total for the district are higher than in any other of the districts except two—Detroit, which exceeds in percentage of establishments and salaried employees, and Minneapolis-St. Paul, where the concentration is greater in 7 of the 15 items shown. They are remarkable for their small degree of variation, ranging from 92.5 per cent for primary horsepower to 97 per cent in the case of proprietors and firm members.

Table 34	NUME	EE OR AMOU	JNT.	Per cent
	The district.	Cleveland.	District exclusive of Cleve- land. ¹	Cleve- land is of total for dis- trict.
Population ¹ . Number of establishments. Persons engaged in manufactures Proprietors and firm members Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Services Salaries. Wages. Materials Miscellaneous. Value of products.	$103,700 \\ 1,771 \\ 12,850 \\ 89,088 \\ 216,166 \\ $236,911,160 \\ 254,566,810 \\ 66,805,430 \\ 16,150,153 \\ 50,655,277 \\ 159,896,454 \\ 27,864,926 \\ 281,992,131 \\ \end{cases}$	2,148 98,686 1,718 12,240 84,728 199,898 \$227,397,484 245,390,440 63,558,820 15,505,840 45,052,971 154,915,023 26,916,597 271,960,833	82 5,023 610 4,360 16,268 \$9,513,656 9,176,370 3,246,610 644,304 2,602,306 4,931,431 945,329 10,031,298	96.3 95.2 97.0 95.3 95.1 92.5 96.0 96.4 95.1 96.0 94.9 96.9 96.9 96.9

 ¹ Includes Lakewood city, coextensive with Rockport township, the statistics for which can not be shown without disclosing individual operations.
 ² April 15, 1910.

Comparison with earlier censuses.—Table 35 is a comparative summary of the statistics for the district as a whole for 1909, 1904, and 1899, together with the percentages of increase from census to census. For purposes of accurate comparison the totals for 1909 have been adjusted by segregating the figures for the territory added since 1904; and those for 1904 and 1899 by segregating the figures for the territory deducted since 1904.

The percentage of increase in all items shown except capital was greater during the more recent five-year period, 1904–1909, than during the period 1899–1904. The percentage of increase during the decade 1899– 1909 was considerably larger in salaries, miscellaneous expenses, and number of salaried employees than for any other items. The average number of wage earners increased only 56.4 per cent, but the wages increased 86.1 per cent, a rate of increase considerably less than that in value of products, 98.6 per cent. The relative increase in primary horsepower of all kinds from 1904 to 1909 was 36.9 per cent. Statistics as to the primary power used in 1899 are not available.

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Table 35				NUM	BER OR AM	DUNT.					CENT	
		1909			1904			1899				
	Total.	Terri- tory added since 1904.	Remainder of district. ¹	, Total.	Terri- tory de- ducted since 1904.	Remainder of district. ¹	Total.	Terri- tory dg- ducted since 1904.	Remainder of district. ¹	1899- 1909		1899- 1904
Population Number of establishments Persons engaged in manufactures Salaried employees. Wage earners (average number). Primary horsepower. Capital Expenses Services. Salaries. Wages Materials Miscellaneous. Value of products Value added by manufacture	12, 550 89, 088 216, 166 \$236, 911, 140 254, 506, 810 16, 150, 153 50, 655, 277 159, 896, 454 27, 864, 926 281, 992, 131	27,080 9 128 2 17 109 213 \$175,137 166,977 61,847 17,33 44,510 95,125 10,005 205,791 110,666	2 606, 190 2, 221 103, 581 1, 769 215, 953 883, 979 215, 953 8236, 736, 003 254, 399, 833 66, 743, 583 16, 132, 816 50, 610, 767 159, 801, 329 27, 854, 921 281, 786, 340 121, 985, 011	$\binom{3}{1}$, 720 76, 671 1, 529 7, 341 67, 801 160, 593, 829 44, 210, 685 8, 859, 707 75, 356, 918 100, 783, 886 15, 593, 258 179, 184, 277 78, 400, 391	$(3) \\ (5) \\ (1) $		$\begin{array}{c} & 4420,508\\ & 1,423\\ (5)\\ & 5,189\\ & 57,222\\ (3105,381,527\\ 121,538,525\\ 32,962\\ 656\\ & 5,614,108\\ 27,348,548\\ 77,956,310\\ 10,619,850\\ 142,464,823\\ 64,508,504\\ \end{array}$	* 5, 523 17 (6) 26 325 (5) \$608, 423 427, 823 193, 111 29, 600 153, 511 220, 410 14, 302 604, 754 384, 344	* 414, 985 1,406 (6) 5,103 56,897 \$104,683,104 121,1:1,002 32,769,545 5,574,508 27,105,037 77,735,309 10,605,548 141,800,069 64,124,160	46.1 58.0 148.6 56.4 126.1 100.1 103.7 189.4 86.1 105.6 162.6 98.6 99.2	$\begin{array}{c} 30.7\\ 36.2\\ 16.5\\ 76.1\\ 32.3\\ 36.9\\ 45.3\\ 59.5\\ 52.3\\ 83.9\\ 44.4\\ 59.5\\ 80.1\\ 58.4\\ 57.0\\ \end{array}$	20.8 41.1 18.2 55.6 31.7 33.7 57.3 28.9 28.9 45.8 25.4 21.2

Figures in this column used in computing percentages of increase.
 April 15, 1910.

^a No population census in 1905. ⁴ June 1, 1900.

⁵ Figures not available.

The proportions which the population and manufactures outside of the city of Cleveland represent of the totals for the metropolitan district are shown for 1909, 1904, and 1899 in Table 36. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904; and those for 1904 and 1899 upon the figures for the district exclusive of the territory deducted.

Except for population and number of establishments, for which the proportion in the outside territory decreased, there was an increase in the percentages for every item shown from census to census. However, from 1904 to 1909 some items show an increase, while others show a decrease. The proportion of the value of products contributed by the territory outside of the city of Cleveland increased steadily from 1.8 per cent in 1899 to 3.4 per cent in 1904 and 3.5 per cent in 1909.

A considerable area has been annexed to the city of Cleveland since 1904, but it is not practicable to ascertain the figures for the manufacturing establishments reported therefrom. The fact that losses or only slight gains in the relative importance of the outside territory are shown in 1909 as compared with 1904 for most of the items in the table is due in part to these annexations.

Fable 36	PER CENT OF CLEV FOR DIST	ELAND IS	
·	1909 1	1904 %	1899 ²
Population Number of establishments	7.5	(3)	8.0
Number of establishments	3.3	4.9	4.0
Persons engaged in manufactures Proprietors and firm members	4.7 2.9	4.9	
Propriedors and min members	4.6	5.6	(1)
Salaried employces Wage earners (average number)	4.0	4.8	2.
Primary horsepower	7.4	4.3	(1) 2.
Capital		4.0	3.3
Expenses.		3.2	1.
Services.		4.7	2.
Salaries		5.4	2.
Wages		4.6	2.
Materials.		2.6	1.
Miscellaneous	3.4	2.7	1.
Value of products	3.5	3.4	1.
Value added by manufacture	4.0	4.3	1.

² Based on figures for district as constituted in 1904, exclusive of territory deducted since 1904.
 ³ No population census in 1905.
 ⁴ Figures not available.

Leading industries.-Table 37 gives the statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

SUMMARY FOR THE CLEVELAND METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 37		PER		NGAGE STRY.	D IN								
INDUSTRY.	Num- ber of estab- lish ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products.	Value added by manu- facture.
All industries	2, 230	103,709	1,771	12, 850	89,088	216, 166	\$236, 911, 140	\$16, 150, 153	\$50, 655, 277	\$159, 896, 454	\$27, 864, 926	\$281, 992, 131	\$122,095,677
Automobiles, including bodies and parts.	32	7,115	20	687	6,408	9,135	16,600,162	875,471	4,022,846	10,417,034	2,719,144	21,403,926	10,986,892
Boots and shoes, including cut stock and findings.		631	8	66	557	304	466, 861		225, 339	509,505		951.470	441 065
and findings Boxes, fancy and paper Brass and bronze products Bread and other bakery products	6 28 210	790 931 1,732	23 213	51 107 267	739 801 1,252	647 872 14	823, 648 2, 736, 769 2, 619, 019	84,441 67,539 120,863 312,142	265, 692 518, 327 820, 767	626,986 1,362,392 2,766,268	38, 574 110, 064 214, 408 441, 383	1,140,581 2,567,708 4,812,449	513, 595 1,205,376 2,046,181
Brick and tile Cars and general shop construction and repairs by steam-railroad com-	16	640	11	31	598	2, 235	1,046,947	48,588	317,216	226,617	90, 069	861,131	634, 514
panies. Chemicals Clothing, men's, including shirts Clothing, women's.	9 5 93 96	$3,256 \\ 557 \\ 3,166 \\ 6,226$	110 100	268 88 311 708	2, 988 469 2, 745 5, 418	$ \begin{array}{r} 3,470 \\ 1,840 \\ 346 \\ 771 \end{array} $	1,410,633 1,571,754 3,318,688 4,940,583	252,986 140,581 373,505 1,126,263	$\substack{1,922,294\\307,084\\1,095,644\\2,903,174}$	2,726,481 978,241 3,202,770 6,496,487	50, 565 168, 026 722, 112 1, 311, 241	4,952,326 1,865,957 5,953,321 12,788,775	2, 225, 845 887, 716 2, 750, 551 6, 292, 288
Confectionery. Cooperage and wooden goods, not	16	908	10	95	803	679	1, 294, 403	149,651	253,380	1,553,118	328, 825	2,851,927	1,298,809
Copper, tin, and sheet-iron products. Cutlery and tools, not elsewhere		289 1,531	9 32	19 135	261 1,364	533 1,231	500, 289 4, 781, 532	35,501 182,547	136,266 639,659	470,501 1,627,901	46, 516 230, 011	708,106 2,966,476	237, 605 1, 338, 575
specified Electrical machinery, apparatus, and supplies	115 140	1,662	11	207	1,444	3,246	4,097,000	227,837	759,362	664,732	418, 831	2,395,436	1,730,704
• •	17	1,899 237	20 19	301 35	1,578 183	1,980 284	3,308,386 269,060	346,012 48,291	760,159 69,163	1,780,067 448,041	595, 849 76, 933	4,035,808 718,176	2,255,741 270,135
Food preparations Foundry and machine-shop prod- ucts	239	20,622	125	2,357	18,140	24,759	42, 445, 280	3,187,777	10,624,367	15, 559, 650	3,913,638	37,929,051	22,369,401
Furniture and refrigerators Gas and electric fixtures and lamps and reflectors Hosiory and knit goods	¹ 25 17 13	557 409 1,365	19 16 12	71 67 119	467 326 1,234	578 199 407	660,051 313,359 1,894,348	72,665 96,495 184,747	288,072 192,863 484,818	490,742 228,775 1,812,809	65, 200 85, 045 227, 440	1,068,551 653,709 2,957,248	577, 809 424, 934 1, 144, 439
Iron and steel, steel works and roll- ing mills. Iron and steel, bolts, nuts, washers, and rivets, not made in steel works	114	8, 278	2	738	7, 538	60, 575	25,086,577	848,567	5,149,604	28,039,016	1,635,723	38, 463, 316	10,424,300
and rivets, not made in steel works or rolling mills Iron and steel forgings Leather, tanned, curried, and fin-	1 10 1 10	2, 663 544	4	$177 \\ 56$	2, 486 484	$3,760 \\ 2,174$	6,125,408 1,809,719	253,680 75,190	1,175,605 301,978	3,001,215 504,055	232, 357 83, 174	5,428,356 992,693	2,427,141 488,638
ished	4	124	, 1	15	108	422	385,757	18,170	69,155	468,162	36,671	636,153	167, 991
Liquors, malt Lumber and timber products Millinery and lace goods Oil, not elsewhere specified	11 56 6 10	$904 \\ 1,528 \\ 536 \\ 171$	5 26 4 2	$155 \\ 155 \\ 60 \\ 114$	744 1,347 472 55	3,395 5,959 143 93	9,887,715 2,647,529 458,565 332,669	357,945 177,296 83,214 150,192	593, 579 799, 965 189, 979 35, 466	1, 484, 143 2, 869, 205 726, 461 594, 367	$\substack{1,861,581\\244,914\\33,450\\101,239}$	5, 124, 478 4, 299, 586 1, 206, 250 978, 544	3, 640, 335 1, 460, 381 479, 789 384, 177
Paint and varnish Patent medicines and compounds	¹ 24	1,258	5	493	760	2,624	5, 393, 459	704,448	468, 471	3, 888, 978	823,090	6, 138, 466	2,249,488
and druggists' preparations Printing and publishing Slaughtering and meat packing	1 50 250 1 35	322 4,688 1,336	56 176 28	$\substack{\substack{141\\1,398\\232}}$	$\substack{125\\3,114\\1,076}$	66 3,334 2,570	429,277 6,957,828 3,555,435	$\substack{\substack{123,731\\1,505,926\\259,535}}$	62,188 2,013,158 599,489	315,940 2,782,781 15,398,662	353, 954 2, 089, 088 478, 096	1,010,113 9,648,012 17,192,048	694, 173 6, 865, 231 1, 793, 386
Stoves and furnaces, including gas and oil stoves Tobacco manufactures Wirework, including wire rope and	20 258	2, 097 2, 240	7 282	247 91	1, 843 1, 867	1,899 29	4,092,596 928,101	281,126 135,376	1,155,072 734,479	2,286,206 1,047,764	689,340 561,484	4, 977, 096 2, 772, 681	2, 690, 890 1, 724, 917
cable. All other industries.	1 17 525	1, 219 21, 278	6 409	159 2,629	1,054 18,240	1,760 73,833	2, 224, 887 71, 496, 840	209,892 3,031,963	657,620 10,042,977	1,171,177 41,369,205	242, 764 6, 543, 527	2,472,200 67,069,857	1,301,113 25,700,652

Excluding statistics for establishments located outside of the corporate limits of Cleveland, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

The 35 industries shown separately in the table include 10 for which totals for the district can not be published, because to do so would disclose individual operations; and 18 which were not carried on in the part of the district which is outside the corporate limits of Cleveland. In all these cases the statistics shown are figures for Cleveland exclusively.

The principal industry of the Cleveland metropolitan district in 1909, measured by value of products, was steel works and rolling mills, closely followed by foundries and machine shops. The latter industry, however, ranked first in all other items except primary horsepower and cost of materials. The automobile industry, with products valued at \$21,403,926, occupied third place. Slaughtering and meat packing, the making of women's clothing, printing and publishing, the paint and varnish industry, and the manufacture of men's clothing were among the leading industries of the district. The blast-furnace industry was also important, but it can not be shown separately without disclosing the operations of individual establishments.

Comparative summary, by industries.—The number of establishments, average number of wage earners, and value of products for such of the industries as can be shown separately and had a value of products amounting to \$4,000,000 or more in 1909 are given in Table 38 for 1909, 1904, and 1899.

COMPARATIVE SUMMARY FOR THE CLEVELAND METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

												PEF	R CENT	OF IN	CREAS	E. ¹		
Table 38	I	MBER STAB- HMEN	- 1	(A	EARI VERAG	E	VALU	E OF PRODU	CTS.		ımber lishme		Wa (avera	go earn go nun	iers nber).	Value	of proc	luots.
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909		1899- 1904
Iron and steel, steel works and roll- ing mills	2 14 239	9	(³)	7,538 18,140	8,577 13,632	(3) (3)	\$38,463,316 37,929,051	\$32,279,437 24,916,327	$\begin{pmatrix} 3\\ 3 \end{pmatrix}$	 	40.6			1			52.2	•••••
Foundry and machine-shop products. Automobiles, including bodies and parts.	32			6,408	1,800	(3)	21, 403, 926		(³) \$7,623,547					ļ	27.3	145.8	362, 9 80, 1	
Clothing. Women's	189 96	3] 3 78		8,163 5,418 2,745	4,876 3,394	3, 829 2, 362 1, 467	18,742,096 12,788,775 5,953,321	7,427,553	4,213,248	24.7	23.1		129.4	59.6	43.7 1.0	74.6	99.9	
Men's, including shirts Slaughtering and meat packing	. 13		ļ	1	1		17, 192, 048			11	1	ł	í	Į.	1	1		
Printing and publishing Newspapers and periodicals	. 25	8 79	4 38	851	2,30 758 1,273	3 710	9,648,012 4,655,256 4,093,203	3,365,938	2,073,324	126.3	8.9	107.9	19.9	12.3	6.8	3 124.5	38.3	62.3
Book and job. All other printing and publish- ing industries ⁵	. 13 . 3				1 °			425,760	496, 19				1	1	ļ	2 81.8 1 111.4	1	-14.2
Paint and varnish Iron and steel, bolts, nuts, washers,	. 42	4 21	10	3 76	57	5 391	6,138,460											
and rivets, not made in steel works or rolling mills.	1	0		7 2,48 0 74	3 1,96 4 60	$ \begin{array}{c c} 2 & 1,308 \\ 1 & 477 \\ \end{array} $	5,428,356 5,124,478	8,620,854 8,986,059	4,033,91	6 42. 5 10.	22.5	2 10.			8 26.0	0 27.0	28.6	6 -1.2
Stoves and furnaces, including gas and oil stoves	·· 2	10	7 (8)	1,84	3 1,52	7 (3)	4,977,09	5 3,004,965	3 (3)		. 17.0	B	•	20.	(·····	•	. 05.1	6
Cars and general shop construction and repairs by steam-railroad companies Bread and other bakery products. Lumber and timber products	21	9 4 10 15	6 1 0 4 10 3 4	0 2,98 4 1,25 5 1,34	8 1,31 2 1,24 7 1,09	3 1,44 9 55 1 1,26	3 4,952,32 2 4,812,44 8 4,299,58	9 3,049,51	1,525,39	7 101.	9 40. 4 30.	2 -4.	2 126. 4 6.	8 0. 2 23.	2 126. 5 14.	3 215. 0 53.	6 10.	8 99.9 9 38.5
Electrical machinery, apparatus, and supplies	1	10 * 3		5 1,57				8 2,652,98	7 2,551,74	3 60.	0 33.	3 20.	0 7.	6 27.	8 - 15.	8 58.	2 52.	1 4.0

A minus sign (--) denotes decrease.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 Comparable figures not available.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Inditions.
 Inditions.

Comparable figures are not available for 1899 for | the three most important industries in the district. The greatest absolute and relative increases during the

five-year period, 1904-1909, in average number of wage earners and value of products are shown for the manufacture of automobiles, including bodies and parts.

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BUFFALO METROPOLITAN DISTRICT.

Territory included.—The metropolitan district of Buffalo embraces 132,413 acres of territory, of which 24,791 acres constitute the area of Buffalo and 107,622 acres the area of the outside territory. The population of the city of Buffalo proper in 1910 was 423,715, and that of the outside territory 64,946, the total for the district being 488,661. As defined at the census of 1910 the metropolitan district comprised the cities of Buffalo, Lackawanna, and Tonawanda, and the towns of Cheektowaga, Hamburg, Lancaster, Tonawanda, and West Seneca, all of which are in Erie County, and the city of North Tonawanda in Niagara County.

The industrial district covered by the figures published for 1904 and 1899 did not include Lancaster or North Tonawanda, but comprised, in addition to the territory represented by the other places just mentioned, the towns of Amherst and East Hamburg. Since the census of 1904 Lackawanna has been incorporated as a city, but the figures for it can not be shown separately, as to do so would disclose the operations of an individual establishment of great importance, which is engaged in the iron and steel and certain related industries. On page 950 is an outline map of the metropolitan district as constituted in 1909, showing the various cities and towns included.

Summary for the district.—Table 39 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Buffalo metropolitan district, for the cities of Buffalo and North Tonawanda, and for the remainder of the district, the percentage which the figure for Buffalo represents of the total for the district being shown in the case of each item. The statistics for Lackawanna are included in the "remainder" of the district to avoid disclosing individual operations.

Table 39		NUM	MBER OR AMOUNT	`.	•	
			Dist	rict exclusive of P	Buffalo.	Per cent Buffalo is of total for
	The district.	Buffalo.	Total.	North Tona- wanda.	Remainder.1	district.
Population 4 Number of establishments. Persons engaged in manufactures. Proprietors and firm members Salaried employees. Wage earners (average number). Primary horsepower. Capital Expenses. Services. Services. Salaries. Wages. Materials Miscellaneous. Value added by manufacture.	75,086 1,638 9,870 322,280 \$280,052,887 249,930,280 47,363,003 11,190,444 36,172,559 180,458,300 222,108,957	423,715 1,753 61,246 1,453 8,345 51,412 121,791 \$193,041,267 195,019,696 38,074,567 9,347,339 28,727,228 136,538,241 20,406,888 218,803,994 82,265,753	64,946 211 13,840 1,531 12,160 200,489 \$87,011,620 54,910,564 9,285,436 1,843,105 7,445,331 43,920,059 1,702,069 61,048,352 17,128,233	11,955 81 3,146 56 2,824 15,888 8,273,779 8,800,817 1,882,530 300,282 1,582,288 6,389,208 5,89,079 9,599,776 8,210,568	52,991 130 93 1,265 9,336 1,84,601 \$78,737,841 46,049,747 7,403,906 1,542,843 37,530,851 1,112,990 51,448,676 13,917,725	86.7 89.3 81.6 90.9 84.5 80.9 978.0 80.4 83.5 79.4 83.5 79.4 83.5 79.4 83.5 79.2 82.8 82.8

¹ Includes Lackawanna, the statistics for which can not be shown without disclosing individual operations.

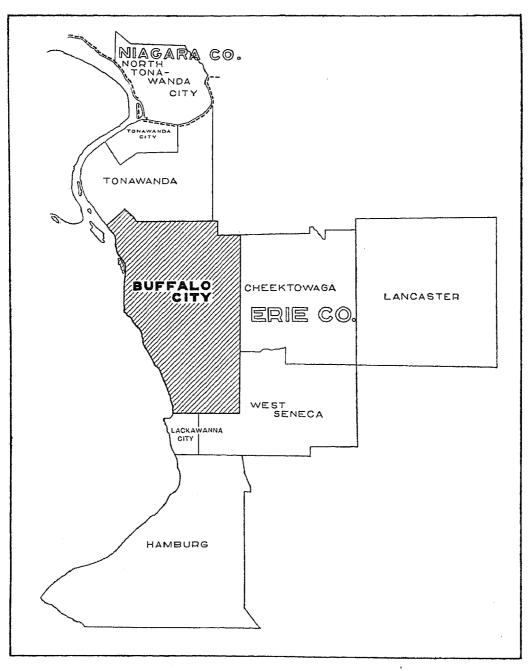
* April 15, 1910.

In 1909 the Buffalo metropolitan district had 1,964 manufacturing establishments, which gave employment to an average of 75,086 persons during the year and paid out \$47,363,003 in salaries and wages. Of the persons employed, 63,572 were wage earners. These establishments turned out products to the value of \$279,852,346, to produce which materials costing \$180,458,300 were utilized. The value added by manufacture was thus \$99,394,046. The Buffalo district ranked eighth in 1909 among all the metropolitan districts of the United States in the value of its manufactured products.

The greater part of the value of the manufactured products of the district was reported by factories within the central city. Buffalo contained nearly nine-tenths (86.7 per cent) of the population of the district of which it is the manufacturing, commercial, and financial center, and contributed nearly eighttenths (78.2 per cent) of the value of products for the district. Its manufacturing establishments constituted 89.3 per cent of all in the district, and gave employment to 80.9 per cent of the average number of wage earners for that area.

The group of five towns and one city having less than 10,000 population, and Lackawanna city, statistics for which can not be shown separately without disclosing the operations of individual establishments, had a combined population equal to 10.8 per cent of the total for the district and contributed 18.4 per cent of the value of its products.

BUFFALO METROPOLITAN DISTRICT: 1909.



Comparison with earlier censuses.—Table 40 is a comparative summary of the statistics for the district as a whole for 1909, 1904, and 1899, together with the percentages of increase from census to census. For purposes of accurate comparison the statistics for 1909 have been adjusted by segregating the figures for the territory added since 1904; and those for 1904 and 1899 by segregating the figures for the territory deducted since 1904.

The percentage of increase in the items shown, except average number of wage earners and wages, and for capital, services, miscellaneous expenses, and value added by manufacture, was greater during the more recent five-year period, 1904–1909, than during the period 1899–1904. The percentages of increase during the decade 1899–1909 were especially large in salaries, capital, materials, salaried employees, and miscellaneous expenses. The average number of wage earners increased 60.6 per cent and their wages 98.9 per cent, which was a much less gain than in the value of products—137.9 per cent. The relative increase in primary horsepower of all kinds from 1904 to 1909 was 77.4 per cent. Statistics as to the primary power used in 1899 are not available.

BUFFALO METROPOLITAN DISTRICT.

Table 40			PER CENT OF INCREASE. 1									
		1909			1904 1899							
	Total.	Territory added since 1904.	Remainder of district. ²		Territory deducted since 1904.	Remainder of district. ²	Total.	Territory deducted since 1904.	Remainder	1899 1909	1904- 1909	1899- 1904
Population Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower Capital. Expenses. Services. Services. Materials. Miscellaneous. Value of products. Value added by manufacture.	75,086 1,638 9,876 63,572 322,280 \$280,052,887 249,930,260 47,363,003 11,190,444 36,172,559 180,458,300 92,106,957	106 3,661 82 299 3,280 16,651 \$9,054,435 9,472,029 2,178,889 335,570 1,843,319 6,654,914 6,654,914 6,654,914 10,233,548	1,858 71,425 9,577 60,292 305,629 \$270,968,452 240,458,231 45,184,114 10,854,874 34,329,240 173,803,386 21,470,731 269,558,798	1,63156,2871,6395,85448,794172,688 $$189,384,845149,666,49531,072,3206,270,39224,795,927102,623,74815,970,427168,111,658$	16 103 16 5 82 431 \$186,830 176,181 43,648 5,945 37,701 113,153 19,382 212,630	1,615 56,184 1,623 5,849 48,712 172,257 \$188,198,015 149,490,314 31,028,674 6,270,448 24,758,226 102,510,595 16,951,045	1,563 (*) 3,951 37,568 (*) \$105,094,082 100,927,024 20,912,547 3,634,828 17,277,719 71,090,632 8,923,843,772	12 (6) (6) (7) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	1,551 (6) 3,947 37,533 (6) \$104,991,763 100,809,213 20,894,401 3,631,388 17,263,013 71,000,409 8,914,35 113,295,488	19.8 142.6 60.6 158.1 138.5 116.2 198.9 98.9 144.8 140.9 187.9	$ \begin{array}{r} 15.0\\ 27.1\\ -4.1\\ 63.7\\ 23.8\\ 77.4\\ 44.0\\ 00.9\\ 45.6\\ 73.1\\ 38.7 \end{array} $	4.1 48.2 29.8 79.2 48.3 48.5 72.7 43.4 44.4 78.9 48.2
¹ A minus sign (-) denote ² Figures in this column u	es decrease. sed in compu	ting percer	itages of incr	ease.	³ Apri ⁴Stat	il 15, 1910. e census, Jun	ie 1, 1905.		June 1, 1900. Figures not a	vailable		

The proportions of the population and manufactures in the outside territory as compared with the total metropolitan district are in general increasing, as is indicated by the percentages in Table 41. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904, and those for 1904 and 1899 upon the figures for the district exclusive of the territory deducted.

Table 41	PER CENT TERRITORY OUTSIDE OF BUFFALO IS OF TOTAL FOR DISTRICT.							
	1909 ¹	1904 2	1899 2					
Population. Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employces. Wage earners (average number). Primary horsepower. Capital. Expenses. Salaries. Salaries. Materials. Materials. Miscolaneous. Value added by manufacture.	$5.7 \\ 14.3 \\ 4.3 \\ 12.9 \\ 14.7 \\ 60.2 \\ 28.8 \\ 18.9 \\ 15.7 \\ 13.9 \\ 16.3 \\ 21.4 \\ 5.0 \\ 18.8 \\ 14.4 \\ 5.0 \\ 18.8 \\ 14.4$	$\begin{array}{c} 9.5\\ 4.8\\ 10.3\\ 3.9\\ 10.0\\ 10.6\\ 57.7\\ 27.2\\ 12.6\\ 12.5\\ 11.6\\ 12.7\\ 13.8\\ 5.4\\ 12.2\\ 9.8\end{array}$	7.0 4.7 (⁸) (³) (³) (³) 8.8 7.1 8.6 5.6 9.22 7.1 3.5 6.8 6.2					

¹ Based on figures for district as constituted in 1909, exclusive of territory added since 1904. a lighter for district as constituted in 1909, exclusive of territory added ⁹ Based on figures for district as constituted in 1904, exclusive of territory deducted since 1904. * Figures not available.

The proportion of the population of the district that was reported from the territory outside of Buffalo increased from 7 per cent in 1900 to 9.3 per cent in

1910, and the proportion of the value of products of that district that was contributed by the outlying territory increased steadily from 6.8 per cent in 1899 to 18.8 per cent in 1909.

Leading industries.-Table 42 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the 29 industries shown separately in the table there are 12 for which totals for the district can not be published, because to do so would disclose individual operations; and 7 which were not carried on in the part of the district which is outside the corporate limits of Buffalo. In all these cases the statistics shown are figures for Buffalo exclusively.

The most important industry as measured by value of products was the manufacture of iron and steel, which is included under "all other industries," to avoid disclosure of individual operations. Of the industries shown separately, slaughtering and meat packing ranked highest in value of products, with 9.1 per cent of the total reported for all industries in the district, closely followed by foundries and machine shops, with 8.4 per cent of this total, and flour mills and gristmills, with 7.3 per cent. Other important industries, arranged according to value of products, were the manufacture of automobiles, including bodies and parts, the lumber and soap industries, printing and publishing, and the malt and malt-liquor industries.

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SUMMARY FOR THE BUFFALO METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

									1				
Table 42	27	PE	RSONS E INDU) IN								
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Prim- ary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscella- neous oxpenses.	Value of products.	Value added by manu- facture.
All industries	1,964	75,086	1,638	9,876	63,572	322,280	\$280,052,887	\$11,190,444	\$36,172,559	\$180,458,300	\$22,108,957	\$279,852,346	\$99, 394, 046
Automobiles, including bodies and parts	23	3,640	13	583	3,044	4, 561	9,300,037	283,056	2, 199, 567	4, 595, 655		9,597,763	5,002,108
preparations.	יי 11	287	4	147	136	209	942, 202	123, 055	66, 554	411, 139	230,481	963, 586	552, 447
and findings. Brass and bronze products Bread and other bakery products	1 14 1 18 203	722 414 1,848	14 12 195	55 55 261	653 347 1,392	370 2,417 1,224	909,755 1,046,601 4,478,564	55, 264 71, 657 251, 023	267, 136 210, 942 749, 587	834,868 1,141,075 3,441,903	63,903 95,633 447,465	1,355,821 1,790,549 5,720,259	520, 953 649, 474 2, 278, 356
Carriages and wagons and materials Cars and general shop construction and repairs by steam-railroad com-	55	535	56	29	450	574	1,010,649	44, 500	258,832	571, 805	60,641	1,237,668	665, 863
and repairs by steam-railroad com- panies Clothing, men's, including shirts Clothing, women's Confectionery	17 160 114 26	3,474 1,681 655 633	70 12 22	284 181 87 106	$3,190 \\ 1,430 \\ 556 \\ 505$	2,768 365 61 604	2, 390, 773 2, 308, 628 448, 391 614, 336	218, 579 181, 935 62, 666 92, 522	$\substack{1,938,340\\600,778\\181,899\\160,073}$	2, 276, 958 1, 796, 766 565, 054 738, 814	94,771 463,658 93,111 117,585	4,524,448 3,698,623 1,014,059 1,179,919	2,247,490 1,901,857 449,005 441,105
Cooperage and wooden goods, not elsewhere specified	1 13 73	194 1,912	12 78	10 265	172 1,569	206 1,955	305, 536 4, 146, 847	11,582 288,640	94, 126 864, 560	428, 078 2, 290, 255	22, 413 255, 967	608,941 4,166,751	180,863 1,876,496
Elåctrical machinery, apparatus, and supplies. Flour-mill and gristmill products Foundry and machine-shop products.	1 8 19 168	347 842 11, 118	4 10 100	61 325 1,178	282 507 9,840	654 11,473 13,161	1, 174, 857 5, 510, 380 22, 812, 333	84,975 333,786 1,494,641	$\begin{array}{r} 141,327\\ 342,145\\ 5,766,209\end{array}$	335, 849 17, 825, 995 10, 247, 358	66,020 934,453 3,290,403	661,287 20,358,557 23,549,010	325,438 2,532,562 13,302,552
Furniture and refrigerators Jewelry Leather goods Leather, tanned, curried, and finished. Liquors, malt	133 14 122 4 16	2,347 401 609 579 828	25 22 27 7	270 81 73 59 155	2,052 298 509 513 673	2,846 116 460 1,297 4,888	4,083,497 1,307,483 937,585 3,058,110 12,783,514	311,618 99,059 96,134 85,065 412,529	$1,036,648 \\173,650 \\262,166 \\246,027 \\536,338$	$\begin{array}{r} 2,155,903\\ 385,255\\ 520,546\\ 2,193,954\\ 1,480,712 \end{array}$	304, 191 77, 813 85, 463 133, 536 2, 935, 828	4, 184, 964 979, 250 1, 129, 321 2, 808, 993 6, 496, 549	2,029,061 593,995 608,775 615,039 5,015,837
Lumber and timber products Malt Marble and stone work Mettresses and spring beds	58 16 21 8	3,047 362 427 230	49 8 20 4	287 66 33 36	2,711 288 374 190	11,029 3,862 460 137	6, 383, 495 15, 471, 572 782, 556 256, 132	295, 421 144, 429 38, 581 25, 732	1,452,301 221,795 252,154 91,147	6, 402, 776 5, 656, 794 450, 317 276, 144	503, 273 357, 141 111, 812 44, 142	9,321,233 7,094,740 984,873 554,814	2,918,457 1,437,952 534,556 278,670
Patent medicines and compounds and druggists' preparations	. 67	618	50	316	252	874	1, 161, 646	216,608	102,118	438, 922		2,953,515	2, 514, 593
Printing and publishing Slaughtering and meat packing Soap Tobacco manufactures All other industries	.) 204	1,592	142 35 2 227 418	230	3,170 1,662 1,360 533 24,914	2,489	$\begin{array}{c} 6,842,971\\ 7,270,613\\ 7,256,506\\ 630,258\\ 154,427,060 \end{array}$	807,256 329,310 214,556 33,523 4,482,742	544,592	$\begin{array}{c} 2,399,934\\ 21,788,626\\ 5,760,070\\ 503,155\\ 82,483,620 \end{array}$	548,499	$\begin{array}{c} 7,842,910\\ 25,416,054\\ 8,652,900\\ 1,273,222\\ 119,730,861 \end{array}$	5,442,976 3,627,428 2,892,830 710,067 37,247,241

• Excluding statistics for establishments located outside of the corporate limits of Buffalo, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

BUFFALO METROPOLITAN DISTRICT.

Comparative summary, by industries.-The number | of establishments, average number of wage earners, and value of products for such of the leading indus- | 1909, 1904, and 1899, respectively.

tries as can be shown separately and had products of \$2,000,000 or more in 1909 are given in Table 43 for

COMPARATIVE SUMMARY FOR THE BUFFALO METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 43	NTIT	WBER	05	WAGI	E EARI	VERS						PE	R CENT	OF IN	CREAS	E.1			
INDUSTRY.	1	ISTAB- HMEN	•	(A	VERAG	E	VALI	JE OF PRODU	ICTS.		ımber olishm			ige cari ige nur		Value	Value of products.		
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	189 9 - 1909	1904- 1909	1899- 1904	1899- 1909			
Slaughtering and meat packing Foundry and machine-shop products Flour-mill and gristmill products Automobiles, including bodies and	2 39 168 19	3 33 128 14	(4)	1, 662 9, 840 507	1, 182 7, 762 431	974 (*) 201	\$25, 416, 054 23, 549, 910 20, 358, 557	\$16,219,823 15,880,210 9,889,016	· (1) ·		18.2 31.2 35.7		70.6 152.2	26.8	21, 4 114, 4	115.9 507.6	48.3	37.8 195.1	
Automobiles, including bodies and parts. Lumber and timber products Soap	1 23	37	36	3,044 2,711 1,360	2.069	2,161	9, 597, 763 9, 321, 233 8, 652, 900	1,385,509 5,573,289 4,792,915	5,014,241	61.1	56.8	2.8	25.5	387.0 31.0 19.3	-4.3			11.1	
Printing and publishing Newspapers and periodicals Book and job All other printing and publish-	45 104	45 103	35 87	1,182	935	757	7, 842, 910 4, 165, 243 1, 739, 634	2,950,295 1,307,512	1, 749, 037 1, 455, 933	28.6 19.5	 1.0	28.6 18.4	56.1 14.8	26.4 20.6	23.5 -29.3	138.1 19.5	41.2 33.0	68.7 10.2	
ing industries ^a Malt Liquors, malt Bread and other bakery products		17 2 19	16 2 18	288 673	1 591	205 560	7,094,746	3,035,801 5,187,216	1,959,967 4,269,973		-5.9	6.2 5.6	40.5	13.9	9.8 5.5	262.0 52.1	25.2	54.9 21.5	
Clothing. Men's, including shirts. Women's.	74	102	134 124	1,986	2,143 1,777	1,885 1,627	4,712,682 3,698,623	4,877,942 4,369,341	3,216,360 2,943,117	-44.8	1	-23.9	5.4 12.1 115.5	-7.3 -19.5 51.9	9.2	25.7	-15.4	48.5	
Cars and general shop construction and repairs by steam-railroad com- panies Furniture and refrigerators Copper, tin, and sheet-iron products. Patent medicines and compounds and druggists preparations Leather, tanned, curried, and finished	2 33 2 33 73	3 26 3 40		2,052 1,569 252	4,094 1,659 1,479 264 686	1,220 354 489	4, 184, 964 4, 166, 751 2, 953, 514	2,543,082 2,555,076 2,025,36	2 1,828,706 828,720 1,933,044	57.1 170.4 42.6	26.9 82.4) 23.8 5 48.1	68.2 343.2	7 - 22.1 23.7 26.1 5 - 4.8 5 - 25.2	36.0 317.8	128.8 402.8 52.8	63.1 45.8	39.1 208.3 4.8	

A minus sign (-) denotes decrease. Percentage not shown where base is less than 100 for wage earners, or less than \$100,000 for value of products.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Comparable figures not available.
 Includes "book binding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing;" and for 1909 and 1904

The greatest absolute increase in value of products during the decade in the area under consideration, \$17,007,721, or 507.6 per cent, is shown for flour mills and gristmills, and the next greatest relative increase is in copper, tin, and sheet-iron products.

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Of the industries shown in the comparative table, only two-lumber and timber products and foundry and machine-shop products-are greatly affected by the inclusion of statistics for manufactures in territory added to the district since 1904.

DETROIT METROPOLITAN DISTRICT.

Territory included.—The metropolitan district of Detroit embraces 96,554 acres, of which 26,103 acres comprise the area of Detroit and 70,451 acres the area of the outside territory. The population of the city of Detroit proper in 1910 was 465,766 and that of the outlying territory 35,216, the total for the district being 500,982. In addition to the city of Detroit the district includes Wyandotte city and the townships of Ecorse, Greenfield, Grosse Pointe, Hamtramck, and Springwells, all of which are in Wayne County. Owing to the fact that adjacent territory in Canada, including the thriving municipalities of Windsor and Walkerville, is industrially to a large extent tributary to Detroit, the statistics for the district do not adequately represent the area closely associated with the development of Detroit. A tendency on the part of the city to enlarge its area in conformity with the metropolitan development seems to be indicated by its recent acquisitions of territory, namely, part of Greenfield township (288 acres) added in 1905; part of Springwells township (4,416 acres), including Delray village, added in 1906; and parts of Grosse Pointe, Greenfield, and Hamtramck townships (3,255 acres) added in 1907.

The following is an outline map of the district showing the various cities and townships included:



DETROIT METROPOLITAN DISTRICT: 1909.

Detroit was first settled in 1701 by the French, in whose possession it remained until surrendered to the British in 1760. In 1796 it became territory of the United States. It was incorporated as a town in 1802 and as a city in 1815. Detroit was the seat of government of Michigan territory until 1837, when the territory

became a state, and was capital of the state until 1847. The progress of the city commercially, industrially, and in other respects, particularly during the decade 1899–1909, has been very marked. While Detroit has many industrial advantages, perhaps the most important is its geographical position with reference

DETROIT METROPOLITAN DISTRICT.

to the Great Lakes, the city being situated on the Detroit River, the channel of communication between the upper and lower lakes.

Summary for the district.—Table 44 is a summary of the statistics of manufacturing industries in 1909, with a statement of the population in 1910, for the Detroit metropolitan district, for the city of Detroit, and for the territory outside Detroit, the percentage which the figure for Detroit represents of the total for the district being shown in the case of each item.

The percentages which the figures for the central city represent of the total for the metropolitan district are much larger than in the case of most of the other metropolitan districts discussed in this report. It should be borne in mind in this connection that certain Canadian municipalities are closely associated with the city commercially and industrially. The percentages representing the contribution of Detroit to the totals for the district are remarkable for their small degree of variation, being over 90 in the case of every item except primary horsepower, for which the figure is 83.7.

Table 44	NUMI	Per cent		
	The dis- triet.	Detroit.	District exclusive of Detroit.	
Population 1. Number of establishments. Persons engaged in manufactures. Proprietors and firm members Salaried employees Wage earners (average number). Primary horsepower Capital. Expenses. Salaries. Materials. Miscellaneous. Value of products Value added by manufacture	$\begin{array}{c} 2, 104 \\ 101, 482 \\ 1, 865 \\ 13, 596 \\ 86, 021 \\ 136, 460 \\ \$210, 401, 992 \\ 228, 207, 916 \\ 62, 037, 838 \\ 16, 028, 377, 848 \\ 009, 461 \\ 137, 848, 079 \\ 28, 321, 900 \\ 268, 899, 761 \end{array}$	$\begin{array}{c} 2,036\\ 95,841\\ 1,804\\ 13,026\\ 81,011\\ 114,190\\ \$190,124,928\\ 215,227,611\\ 58,266,672\\ 15,259,770\\ 43,006,902\\ 130,217,541\\ 26,743,398\\ 252,992,123\end{array}$	688 5,041 611 5,010 22,270 \$20,277,064 12,980,305 3,771,166 708,607 3,002,559 7,630,538 1,578,001 15,907,638	96. × 94. 4 96. 7 95. 8 94. 2 83. 7 94. 2 93. 9 94. 2 93. 1 94. 2 94. 4 94. 4

¹ April 15, 1910.

Leading industries.—Table 45 gives the statistics for the district for 1909, by industries, separate figures being shown for industries having products valued at \$500,000 or over, except where such figures would disclose the operations of individual concerns.

Table 45		PERS		NGAGEI STEY.) IN	•							
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products.	Value added by manu- facture.
All industries	2, 104	101,482	1,865	13, 596	86, 021	136, 460	\$210, 401, 992	\$16, 028, 377	\$46, 009, 461	\$137, 848, 079	\$28, 321, 999	\$268, 899, 761	\$131, 051, 68 9
Automobiles, including bodies and parts	1 68	17, 437		1,762	15, 675	14,666	28,927,610	1,781,089	9,620,799	31, 362, 816	4,031,212	59, 536, 154	28, 173, 338
Boots and shoes, including cut stock and findings. Brass and bronze products. Bread and other bakery products. Brick and tile.	8 37 274 18	${ \begin{smallmatrix} 1,453\\4,374\\1,624\\545 \end{smallmatrix} }$	$ \begin{array}{r} 6 \\ 16 \\ 281 \\ 24 \end{array} $	120 326 226 19	1,327 4,032 1,117 502	362 10,651 1,118 1,879	1,581,616 7,306,220 2,023,013 765,261	159,878460,889219,68325,757	490,659 2,048,987 643,737 311,796	$\substack{1,701,978\\8,272,612\\2,920,029\\203,224}$	192,048 547,573 326,084 53,005	2, 743, 913 12, 297, 331 4, 869, 289 794, 132	1, 041, 935 4, 024, 719 1, 949, 260 590, 909
Canning and preserving Carriages and wagons and materials . Clothing, men's, including shirts Clothing, women's. Coffee and spice, roasting and grind-	9 1 34 22	496 321 3,008 1,041	6 44 27 29	82 14 195 91	408 263 2, 786 921	549 188 951 154	$\substack{1,275,792\\654,849\\2,472,588\\825,433}$	99, 309 26, 630 249, 973 81, 971	$156,923 \\ 164,230 \\ 963,231 \\ 357,317$	854,966 189,026 2,351,801 661,199	$\begin{array}{r} 69,208\\22,711\\539,856\\141,525\end{array}$	$1,568,254 \\ 506,648 \\ 4,760,840 \\ 1,493,831$	713, 28 317, 62 2, 409, 04 832, 63
Coffee and spice, roasting and grind- ing	6	68	1	· 26	41	186	220, 585	30, 724	23,856	452, 075	31,610	616, 503	164, 42
Confectionery. Copper, tin, and sheet-iron products.	23 72	501 2, 152	30 74	84 146	387 1,932	341 1,453	374, 491 3, 890, 125	68, 813 158, 324	138, 886 850, 687	629, 377 1, 932, 126	145,577 221,820	1, 136, 465 3, 534, 425	507,08 1,602,29
Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products.	23 1 5	685 220	15 5	129 46	541 169	575 1,150	1,055,892 1,431,775	144, 529 64, 880	225,745 78,060	493, 221 4, 422, 024	193, 391 256, 133	1, 147, 922 5, 089, 114	654,70 667,09
Foundry and machine-shop prod- ucts	1 215	10, 212	125	1,393	8,694	10,336	20, 434, 102	1,412,656	4,827,966	7,614,067	2, 549, 920	18, 296, 033	10, 681, 96
Fur goods Furniture and refrigerators Gas and electric fixtures and lamps	1 19 1 33	519 2,528	24 28	124 210	371 2,290	$ \begin{array}{c} 24 \\ 3,722 \end{array} $	884,029 3,203,273	112, 471 256, 688	180,850 1,186,158	706, 846 1, 301, 810	186, 363 610, 804	1, 737, 783 3, 761, 834	1,030,93 2,460,02
Gas and electric fixtures and lamps and reflectors. Hosiery and knit goods Iron and steel, steel works and roll-	11 9	243 367	9 7	34 26	200 334	202 214	345,674 423,975	37,651 25,426	114,236 91,249	324, 098 325, 787	71,799 25,501	612, 465 559, 398	288,30 233,61
Iron and steel, steel works and roll- ing mills.	5	1,064		75	989	3, 430	1,969,480	114,316	558,871	1,316,652	168,877	2, 297, 048	980, 39
Leather goods Liquors, malt Looking glass and picture frames Lumber and timber products	122 118 12 63	516 838 367 2,658	18 13 15 56	95 179 25 244	403 646 327 2,358	530 3,886 265 5,724	821,356 5,208,290 405,111 5,309,164	84, 532 249, 952 40, 665 264, 769	210,576 494,702 158,051 1,157,914	$\begin{array}{r} 818,508\\ 1,184,890\\ 222,193\\ 4,320,849\end{array}$	86,976 1,772,265 68,820 306,977	$\begin{array}{r} 1, 396, 320 \\ 4, 942, 213 \\ 567, 910 \\ 6, 899, 666 \end{array}$	577,81 3,757,32 345,71 2,578,81
	1	724	11	355	358	1,304	3, 177, 728	497, 405	233, 709	2, 241, 498	702, 171	4, 201, 252	1, 959, 75
Paint and varnish. Patent medicines and compounds and druggists' preparations Printing and publishing	74 228	4,289 4,068	54 216	1, 417 1, 327	2,818 2,525	1,819 2,609	10, 179, 080 4, 180, 514	1,853,467 1,165,913	1,328,477 1,572,047	4, 303, 728 2, 046, 914	2,360,760 1,315,719	11, 558, 419 7, 302, 872	7, 254, 69 5, 255, 95
Shipbuilding, including boat build-	1	607	22	100	485	1,079	1,611,177	77, 173	308, 726	511,909	144,554	1, 101, 635	589,72
•		983	33	139	811	3,092	3, 340, 183	138, 182	432, 996	11, 220, 715	306,960	12, 849, 574	1,628,85
Slaughtering and meat packing Stoves and furnaces, including gas and oil stoves Tobacco manufactures	8 203 500	3,130 6,550 27,894	207 469	322 459 3, 806	2,808 5,884 23,619	$2,741 \\ 925 \\ 60,335$	6,238,684 5,488,671 84,376,251	480, 823 638, 216 5, 005, 623	$1,809,363 \\ 2,177,068 \\ 13,093,589$	$\begin{array}{c}1,570,276\\5,871,500\\35,499,365\end{array}$	$\begin{array}{c} 1,008,834\\ 3,174,103\\ 6,682,843 \end{array}$	5, 676, 418 12, 779, 032 72, 265, 062	4, 106, 14 6, 907, 53 36, 765, 69

SUMMARY FOR THE DETROIT METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Excluding statistics for establishments located outside of the corporate limits of Detroit, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

Among the 31 industries shown separately in the table are 9 for which the totals for the district can not be published, because to do so would disclose individual operations; and 17 which were not carried on in the part of the district which is outside the corporate limits of Detroit. In all these cases the statistics shown are figures for Detroit exclusively.

By far the most important industry in Detroit is the manufacture of automobiles, including bodies and parts. The figures given for this industry in the table do not include statistics for one establishment located outside the city limits. The 68 establishments engaged in this industry in Detroit reported 22.1 per cent of the value of products for all industries in the metropolitan district. Aside from the omission of the establishment located outside the limits of Detroit, the statistics given for the industry do not adequately represent the importance of the industry in the district, owing to the fact that many establishments engaged in the manufacture of brass and bronze products and foundry and machine-shop products, which are also leading industries in the district, turn out automobile accessories and manufacture and repair automobile engines and parts.

Other important industries, arranged according to the value of products, were slaughtering and meat packing, the manufacture of tobacco products and of patent medicines and compounds, printing and publishing, and the lumber industry. The manufacture of chemicals, an industry for which separate statistics can not be published without disclosing individual operations, is also of considerable importance.

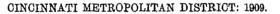
CINCINNATI METROPOLITAN DISTRICT.

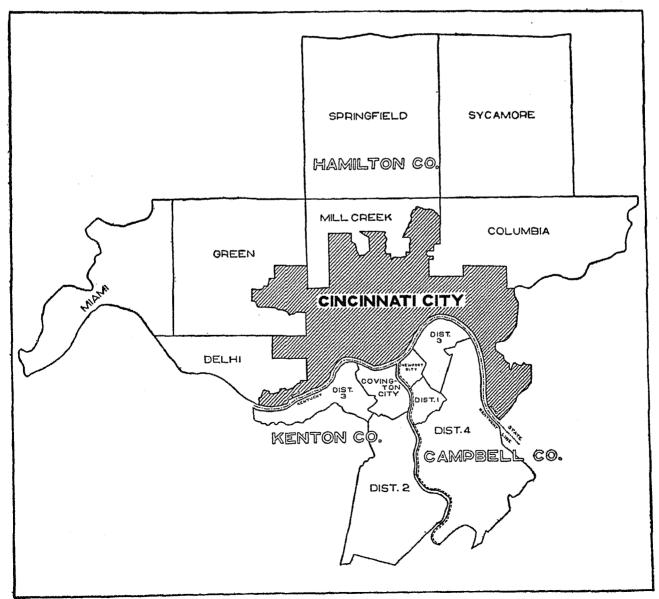
Territory included.—The metropolitan district of Cincinnati embraces 111,772 acres of territory, of which 31,893 acres constitute the area of Cincinnati and 79,878 acres the area of the outside territory. The population of the city of Cincinnati proper in 1910 was 363,591, and that of the outside territory, 200,213, the total for the district being 563,804.

As defined at the census of 1910, the metropolitan district comprised, in addition to the central city, seven townships in Hamilton County, Ohio—Columbia, Delhi, Green, Miami, Millcreek, Springfield, and Sycamore—and seven magisterial districts in Kentucky—the first, second, third, and fourth in Campbell County, and the first, second, and third in Kenton County. The incorporated places of over 10,000 inhabitants within the district, besides Cincinnati, are Norwood city, Ohio, which is included in Columbia and Millcreek townships; Newport city, Ky., which comprises district 2 and part of district 1 in Campbell County; and Covington city, Ky., which comprises district 1 and part of districts 2 and 3 of Kenton County.

The report for 1904 included all the cities named and all the townships except Miami, Springfield, and Sycamore. In 1907 a part of Millcreek township was annexed to Cincinnati, and in 1909 Spencer and parts of Anderson and Delhi townships were added to the city.

The following is an outline map of the metropolitan district as constituted in 1909, showing the various cities, townships, and magisterial districts included:





Summary for the district.—Table 46 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Cincinnati metropolitan district; for Cincinnati and Norwood cities in Ohio, and Covington and Newport cities in Kentucky, and for the territory outside these cities which is included in the metropolitan district. The percentage which the figure for Cincinnati represents of the total for the district is shown in the case of each item.

	able 46 NUMBER OR AMOUNT.												
				District e	xelusive of Cir	icinnati.		Per cent Cincin- natils of total for					
	The district.	Cincinnati.	Total.	Covington,	Newport.	Norwood.	Remainder.	district.					
pulation 1	12, 040 80, 332 140, 254 \$212, 555, 469 233, 538, 340 57, 337, 552	363, 591 2, 184 72, 488 2, 015 10, 281 60, 192 \$150, 254, 292 174, 788, 679 43, 860, 281 12, 759, 309 31, 100, 972 101, 931, 950 28, 906, 448 194, 515, 692 92, 583, 742	200, 213 643 23, 083 2, 365 20, 140 \$62, 301, 177 \$8, 749, 661 13, 477, 271 2, 842, 233 10, 635, 038 37, 175, 111 8, 097, 270 65, 883, 927 28, 708, 816	53, 270 196 $4, 528$ 397 $3, 942$ $8, 256$ $56, 633, 612$ $8, 011, 897$ $2, 265, 391$ $427, 176$ $427, 176$ $427, 176$ $427, 176$ $427, 567$ $8, 711, 929$ $4, 240, 990$	$\begin{array}{r} 30, 309\\ 144\\ 2, 995\\ 146\\ 277\\ 2, 632\\ 3, 750\\ $4, 568, 332\\ 5, 858, 015\\ 1, 618, 096\\ 277, 405\\ 1, 340, 631\\ 3, 366, 278\\ 873, 641\\ 6, 400, 596\\ 3, 124, 318\\ \end{array}$	16, 185 49 4, 445 507 3, 907 6, 881 \$13, 367, 715 8, 534, 513 2, 712, 079 631, 612 2, 080, 567 4, 020, 773 1, 801, 661 9, 084, 332 5, 663, 559	$100, 449 \\ 254 \\ 11, 115 \\ 212 \\ 1, 244 \\ 9, 659 \\ 837, 731, 518 \\ 36, 345, 236 \\ 6, 881, 705 \\ 1, 506, 080 \\ 5, 375, 625 \\ 25, 317, 121 \\ 4, 146, 410 \\ 40, 997, 070 \\ 15, 679, 949 \\ 100, 100, 100, 100, 100, 100, 100, 10$	76.8 81.8 74.8 73.2					

In 1909 the Cincinnati metropolitan district had 2,827 manufacturing establishments, which gave employment to an average of 95,571 persons during the year, and paid out \$57,337,552 in salaries and wages. Of the persons employed, 80,332 were wage earners. These establishments turned out products to the value of \$260,399,619, to produce which materials costing \$139,107,061 were utilized. The value added by manufacture was thus \$121,292,558. The Cincinnati district ranked tenth in 1909 among the metropolitan districts of the United States in the value of its manufactured products.

In the Cincinnati district, as in all the districts except Pittsburgh and Boston, the greater part of the value of the manufactured products of the district was reported by factories within the central city. Cincinnati contained nearly two-thirds (64.5 per cent) of the population of the district of which it is the manufacturing, commercial, and financial center, and contributed about three-fourths (74.7 per cent) of the value of products. Its manufacturing establishments constituted nearly eight-tenths (77.3 per cent) of all in the district and gave employment to approximately three-fourths of the wage earners (74.9 per cent).

Of the places outside Cincinnati for which statistics are given separately Norwood had the largest value of products, representing 3.7 per cent of the total for the metropolitan district; and it contained 5.4 per cent of the total population. The average value of manufactured products per establishment for this city was larger than for any other city shown, not excepting Cincinnati. The group of seven townships or parts of townships, and of five magisterial districts or parts of districts, outside of incorporated places having a population of more than 10,000 had a combined population equal to 17.8 per cent of the total for the district, and contributed 15.7 per cent of the value of its products.

The principal industries of Cincinnati in 1909, as measured by value of products, were slaughtering and meat packing, foundries and machine shops, and the manufacture of men's clothing. Those of Norwood were printing and publishing, and the manufacture of paper goods (playing cards and games), furniture, and foundry and machine-shop products. During the decade this city increased in population from 6,480 to 16,185. The leading industries in Covington were foundries and machine shops and the manufacture of chewing and smoking tobacco; and in Newport, steel works and rolling mills and breweries. The most important places from a manufacturing standpoint outside of these cities were Ivorydale, with its large soap works; Lockland village, with the manufacture of roofing materials and mattresses and spring beds; and St. Bernard, with the manufacture of soap.

Comparison with earlier censuses.—Table 47 is a comparative summary of the statistics for the district as a whole for 1909, 1904, and 1899, together with the percentages of increase from census to census. For the purposes of comparison with the statistics for the district as given for 1904¹ and 1899,¹ the totals for 1909 are segregated into figures for the territory added since 1904, and into those for the remainder of the district.

¹ Bureau of Census: Industrial Districts, 1905, p. 54.

CINCINNATI METROPOLITAN DISTRICT.

Table 47		NU	MBER OR AMOUN	łT.		PER CENT OF INCREASE.		
		1909						
	Total.	Territory added since 1904.	Remainder of district. ²	1904	1899	1899-1909	190 1 –1909	1899-1904
Population Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Services. Sarvices. Salaries. Wages. Materials. Miscellaneous. Value added by manufacture.	12,040 80,332 140,254 \$212,555,469 233,558,340 57,337,552 15,601,542 41,736,010 139,107,061 37,093,727	$\begin{array}{c} {}^{3} 29, 229\\ 85\\ 3, 184\\ 73\\ 278\\ 2, 833\\ 9, 399\\ \$6, 058, 352\\ 8, 606, 054\\ 1, 898, 757\\ 400, 277\\ 1, 498, 450\\ 6, 649, 873\\ 6, 649, 873\\ 6, 665, 424\\ 9, 324, 048\\ 3, 283, 175\\ \end{array}$	$\begin{array}{r} {}^3 534, 575\\ 2, 742\\ 92, 387\\ 2, 520\\ 12, 368\\ 77, 409\\ 12, 368\\ 77, 409\\ 500, 855\\ {\color{red}{\textbf{$200}}}, 855\\ {\color{red}{\textbf{$200}}}, 800, 855\\ {\color{red}{\textbf{$200}}}, 800, 855\\ {\color{red}{\textbf{$300}}}, 825\\ 15, 201, 265\\ 40, 237, 530\\ 133, 006, 188\\ 36, 427, 303\\ 3251, 075, 571\\ 118, 009, 383\\ \end{array}$	(*) 2,600 85,147 2,587 9,825 72,735 11,798 \$170,769,226 180,907,427 44,862,009 10,929,512 33,332,557 102,721,628 33,383,702,605 100,373,977	* 473, 282 2, 973 (°) (°) (°) (°) (°) (°) (°) (°) (°) (°)	13.0 -7.8 81.4 20.3 58.7 62.3 112.0 49.1 61.8 43.7 52.9 44.0	$\begin{array}{c} 5.5\\ 8.5\\2.6\\ 25.9\\ 6.5\\ 42.5\\ 20.9\\ 24.3\\ 23.6\\ 39.1\\ 18.6\\ 29.5\\ 9.1\\ 23.6\\ 17.6\end{array}$	

¹ A minus sign (-) denotes decrease. ² Figures in this column used in computing percentages of increase.

^a April 15, 1910.
⁴ No population census in 1905.

⁶ June 1, 1900. ⁶ Figures not available.

In all items shown, except number of establishments and cost of materials, the percentage of increase was greater during the earlier five-year period, 1899-1904, than during the period 1904-1909. During the decade as a whole the rate of increase was much greater in number of salaried employees and salaries than for any other items. The average number of wage earners increased only 20.3 per cent during this period, but the wages increased 49.1 per cent, a rate of gain approximately equal to that in value of products (52.9 per cent). The increase in primary horsepower of all kinds from 1904 to 1909 was 42.5 per cent. Statistics as to the primary power used in 1899 are not available.

The proportion of population and manufactures in the outside territory of the district as compared with the total for the city of Cincinnati is, in general, increasing, as indicated by the percentages in Table 48. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904.

Fable 48	OF CINCI	PER CENT TERRITORY O OF CINCINNATI IS OF FOR DISTRICT.							
	1909 1	1904	1899						
Population	$\begin{array}{c} 21.5\\ 20.0\\ 16.9\\ 22.3\\ 32.3\\ 27.2\\ 22.3\\ 20.9\\ 16.1\\ 22.7\\ 23.4\\ 20.4\\ 20.4\\ 22.5\end{array}$	(*) 16.5 19.0 15.7 16.6 19.5 27.0 23.7 18.9 19.3 18.9 18.9 18.9 18.9 18.9 18.9	$\begin{array}{c} 31.1\\ 17.5\\ (3)\\ 9.6\\ 14.7\\ (4)\\ 15.2\\ 13.9\\ 15.2\\ 14.4\\ 13.2\\ 16.5\\ 13.7\\ 14.4\end{array}$						

Based on figures for district as constituted in 1904 and 1899.
 No population census in 1905.
 Figures not available.

The proportion of the population of the district, as originally constituted, that was reported from the territory outside of Cincinnati, increased from 31.1 per cent in 1900 to 32 per cent in 1910, and the proportion of the value of products of that district that was contributed by the outlying territory increased steadily from 13.7 per cent in 1899 to 18.2 per cent in 1904 and 22.5 per cent in 1909.

Leading industries.-Table 49 gives the statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the 45 industries shown separately in the table there are 14 for which totals for the district can not be published, because to do so would disclose the operations of individual establishments, and 8 which were not carried on in the part of the district which is outside the corporate limits of Cincinnati. In all these cases the statistics shown are figures for Cincinnati exclusively.

The manufacture of soap is a very prominent industry in the district, but it is not shown separately because only the comparatively small part of it reported from the city of Cincinnati can be given without disclosure of the operations of individual establishments.

The manufacture of foundry and machine-shop products was the leading industry in the Cincinnati district, the value of the products amounting to 10.1 per cent of the value of the products for all industries. There were two other industries having also a considerable proportion of the total-slaughtering and meat packing, with 7.7 per cent, and men's clothing, including shirts, with 6.8 per cent. Printing and publishing and the manufacture of malt liquors, carriages and wagons and materials, and lumber and timber products were also prominent.

Important industries for which complete figures can not be given without disclosing the operations of individual concerns are, in the order of their importance, liquors, distilled, and electrical machinery, apparatus, and supplies.

SUMMARY FOR THE CINCINNATI METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 49		PE	BSONS E INDU	NGAGE	D IN								
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- num- ber).	Prim- ary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscella- neous expenses.	Value of products.	Value added by manu- facture.
All industries	2, 827	95, 571	2, 593	12,646	80, 332	140, 254	\$212,555,469	\$15,601,542	\$41,736,010	\$139,107,061	\$37,093,727	\$260,399,619	\$121, 292, 558
Bags, paper Boots and shoes, including cut stock	5	358		59	299	320	673, 221	72, 156	129, 254	729,570	88,965	1,088,250	358, 680
Boots and shoes, including cut stock and findings Boxes, fancy and paper Brass and bronze products. Bread and other bakery products	1 32 15 16 264	8,702 738 650 2,017	21 9 14 268	692 60 62 252	7, 989 669 574 1, 497	4,631 218 444 955	7,656,352 442,245 1,319,651 2,865,239	1,015,788 69,947 81,369 240,612	3,517,986 184,858 336,079 817,761	8,583,670 291,704 443,067 3,395,179	1,091,44456,73472,208467,103	$\substack{14,998,672\\679,170\\1,069,245\\5,691,232}$	6, 415, 002 387, 466 626, 178 2, 296, 053
Canning and preserving. Carriages and wagons and materials. Cars and general abop construction and repairs by steam-railroad com-	1 g 99	315 3,370	5 86	93 433	217 2,851	420 3,325	646, 176 6, 020, 606	104,583 455,415	77,465 1,621,880	482, 894 4, 367, 976	114, 346 793, 276	825,010 8,157,665	342, 116 3, 789, 689
panies Chemicals. Clothing, men's, including shirts	1	1,747 162 8,492	4 371	68 36 1,001	1,679 122 7,120	1,590 508 776	1,651,864 712,874 10,421,295	60, 896 63, 250 1, 211, 737	$1,039,010 \\76,268 \\2,971,422$	797, 824 474, 291 8, 709, 525	71,284 110,802 2,978,071	1,969,014 898,729 17,646,324	1, 171, 190 424, 438 8, 936, 799
Clothing, women's Coffee and spice, rossting and grinding. Confectionery. Cooperage and wooden goods, not	26 1 8 1 22	1,541 356 922	41 7 21	175 128 130	1,325 221 771	176 691 573	1,229,502 1,083,406 970,132	216, 923 130, 513 138, 741	618,775 91,271 279,008	1,513,764 1,595,209 1,221,923	298,714 148,571 191,436	2,912,862 2,110,024 2,029,075	1, 399, 098 514, 815 807, 152
elsewhere specified Copper, tin, and sheet-iron products.	20 65	697 1,390	17 61	48 203	632 1,126	1,269 1,409	1,445,850 2,652,111	75, 438 203, 115	291,804 548,651	766, 016 2, 969, 153	85,888 286,921	1,232,289 4,470,093	466, 273 1, 500, 940
Cordage and twine and jute and linen goods. Electrical machinery, apparatus, and supplies.	3	569	2	21	546	975	874,617	25, 596	160, 561	534, 344	57,032	803, 912	269, 568
Fertilizers. Flags, banners, regalia, society	¹ 13 5	303 442	9 9	71 96	313 346	397 1,314	529,186 1,551,162	95, 364 70, 217	200, 215 156, 346	333,495 1,003,766	83, 472 213, 652	835,500 1,675,679	502,005 671,913
Fertilizers Flags, banners, regalia, society badges, and emblems Flour-mill and gristmill products	8 11	498 124	3 8	92 38	403 78	317 1,062	668,178 570,850	88, 122 42, 339	162,418 53,614	503,151 1,432,174	91,803 49,407	888,361 1,635,493	385, 210 203, 319
Foundry and machine-shop products. Furnishing goods, men's. Furniture and refrigerators. Hats and caps, other than felt, straw, and wool. Ice, manufactured.	238 10 63	13,716 302 3,059	130 13 68	1,880 45 237	11, 706 244 2, 754	18,372 14 5,079	29, 542, 095 283, 746 4, 953, 600	2,378,730 50,618 291,900	6, 793, 105 76, 599 1, 422, 175	$11, 127, 047 \\ 509, 649 \\ 2, 338, 774$	3, 165, 929 62, 662 748, 992	26, 186, 468 760, 348 5, 646, 080	15,059,421 250,699 3,307,306
and wool Ice, manufactured	¹ 12 15	323 243	20 5	43 58	260 180	33 4, 471	263, 776 2, 343, 548	44, 842 73, 093	112,280 115,427	283, 528 161, 161	29,508 110,508	532, 325 567, 814	248, 797 406, 653
Ink, printing. Jewelry. Leather goods. Leather, tanned, curried, and finished. Liquors, distilled.		273 284 664 1,043 300	25 23 10	92 49 106 36 29	181 210 535 097 271	1,417 88 252 2,269 1,750	$\begin{array}{c} 1,545,929\\ 1,002,184\\ 1,500,970\\ 9,503,170\\ 2,833,836\end{array}$	189, 286 52, 464 100, 886 71, 187 62, 549	129,855 156,398 278,188 570,074 178,395	794, 337 517, 559 799, 653 3, 677, 263 1, 824, 464	459,361 59,717 135,783 207,483 6,333,076	1,884,894 935,935 1,518,778 5,058,920 8,744,761	1,090,557418,376719,1251,381,6576,920,297
Liquors, malt. Lumber and timber products Marble and stone work Millinery and lace goods Musical instruments, planos and organs and materials		2,371 2,809 396 494	66 47 10	389 330 43 56	1,982 2,413 306 428	13,591 9,318 1,012 59	17, 929, 034 8, 398, 650 639, 390 136, 086	790, 475 412, 386 50, 846 48, 828	${ \begin{smallmatrix} 1,400,039\\ 1,306,785\\ 208,549\\ 120,381 \end{smallmatrix} }$	2,656,167 4,345,585 290,104 294,157	4, 304, 883 553, 179 01, 138 29, 545	11,016,171 7,401,558 731,691 546,648	8, 360, 004 3, 055, 973 441, 587 252, 491
Oil, not elsewhere specified	17 4	760 111	5	43 45	712 64	835	1,184,890	61,919	371, 324	1,080,430	113, 361	1, 752, 617	672, 187
Paint and varnish. Patent medicines and compounds and druggists' preparations. Printing and publishing	101	636	19	209	408	152 1,356	524,279 4,026,491	47, 695 282, 229	40, 541 214, 994	461, 286 2, 485, 801	80,954 324,074	672,682 3,879,810	211,396 1,394,009
	1	542 6,806	43 281	218 1,525	281 5,000	424 6,058	1,004,884 13,183,475	206, 275 1, 638, 634	114,279 3,236,020	516, 796 4, 220, 558	250, 209 2, 828, 940	1, 293, 009 13, 998, 611	776, 213 9, 778, 053
Safes and vaults Signs and advertising novelties Slaughtering and meat packing Stoves and furnaces, including gas and oil stoves	¹ 5 6 61	703 357 1,400	1 2 78	123 66 183	579 289 1, 139	970 275 3,745	1, 156, 228 798, 835 4, 701, 132	256, 800 62, 096 204, 899	358, 838 130, 791 683, 196	629,840 329,528 17,497,119	84,376 279,837 466,588	1,401,157 938,868 19,922,613	771, 317 609, 340 2, 425, 494
	¹ 15 300	1,092 3,462	3 321	217	872	1,086	2,150,012	209,126	485,300	1,013,055	368,058	2, 324, 950	1,311,895
Tobacco manufactures Wood, turned and carved All other industries	10 530	3,462 317 19,625	321 7 467	243 36 2,587	2,898 274 16,571	634 837 44, 787	3,009,283 733,996 55,221,433	257, 593 64, 857 3, 229, 210	1, 126, 640 138, 113 8, 633, 080	2, 421, 365 815, 324 38, 367, 816	1,262,330 51,936 7,340,171	5, 496, 839 870, 093 64, 699, 380	3,075,474 554,769 26,331,564

1 Excluding statistics for establishments located outside of the corporate limits of Cincinnati, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

CINCINNATI METROPOLITAN DISTRICT.

Comparative summary, by industries.—The number of | establishments, average number of wage earners, and value of products for such of the industries as can be | Table 50 for 1909, 1904, and 1899.

shown separately and had a value of products amounting to \$2,000,000 or more in 1909 are given in

COMPARATIVE SUMMARY FOR THE CINCINNATI METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 50	NITE	ABER	07	WAG	E EARN	TEPS						PE	R CENT	r of in	CREAS	E.1		
INDUSTRY.	E	STAB SMEN	- 1	(A	VERAG JMBER	E	VALU	E OF PRODU	CTS.		1mber blishm		Wa (avera	ige earr ige nur	iers nber).	Value	of pro	lucts.
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909	190 1- 1909	
Foundry and machine-shop products. Liqours, malt, distilled, and vinous	238 37	206 38	(²) 39	11,706 2,302	9, 588 2, 086	(*) 1,757	\$26, 186, 468 22, 152, 542	\$18, 793, 155 21, 771, 153	(*) \$19,210,452	5.1	15.5 2.6	-2.6	31. Ö	22.1 10.4	18.7	15.3	39.3 1.8	
Clothing Men's, including shirts Women's.	327 301 26	356 327 29	539	8,445 7,120 1,325	6,590 5,419 1,171	6,829 5,439 1,390	20, 559, 186 17, 646, 324 2, 912, 862		12,905,093	-43.6 -44.2 -36.6	8.1 8.0 10.3	-38.6 -39:3 -29.3	23.7 30.9 4.7	31.4	3.5 0.4 15.8	36.7	16.4	17.4
Slaughtering and meat packing Boots and shoes, including cut stock and findings	61 4 32			,	878 6, 644		19, 922, 613 14, 998, 672	13, 509, 702 11, 152, 013										
Printing and publishing Newspapers and periodicals Book and job. Music. All other printing and publishing industrics 6	105 167	102 148 6	7	5,000 947 2,252 52	4, 420 838 2, 072 57	4,047 1,076 1,641 51	324, 612	193, 528	3, 594, 243 2, 545, 828 266, 985	23.5 35.8 14.3	2.9 12.8 33.3	20.0 20.3 	-12.0 37.2	13.0 8.7	-22.1 26.3	52.0 90.2 21.6	23.6 25.5 67.7	51.5 27.5
carriages and wagons and materials. Lumber and timber products Bread and other bakery products Furniture and refrigerators.	99 80 264	92 65 237	91 54 314	2,851 2,413 1,497	$3,244 \\ 2,154 \\ 1,440$	1,279 3,310 1,705 1,199 2,355	8,157,665 7,401,558 5,691,232	8,799,029 6,507,172 4,231,455	8,050,291 4,663,369 3,309,397	8.8 48.1 	7.6 23.1 11.4	1.1 20.4 -24.5	5 24.9	-12.1	-2.0 26.3 20.1	1.3 58.7 72.0	-7.3 13.7	9.3 39.5 27.9
Tobacco manufactures Cigars and cigarettes Chewing and smoking tobacco and snuff.	286	313	357	2,541	'	3,737	3,879,701	4, 607, 195	4, 973, 86	-19. 9	-8.6	8-12.3	3 32.0	-24. 4 -25. 3 -17. 4	9. C	-22.0	-15.8	-7.4
Leather, tanned, curried, and fin- ished	415	51 26	41 25	997 1,120 408 872	1,122 277	851 278	4,470,093	2, 714, 012 2, 672, 698	1,803,27 2,298,23	58.5	27.6	4.0	4 32.3	0.4 3 47.3	31.8 -0.4	147.9	64.7 45.2	50.5
Coffee and spice, reasting and grind- ing Confectionery	.] *2) 10 5 18	221 771	170 653	109 441		1, 835, 366 1, 568, 021)-20. (7 - 16.7	. 102.8	30.0		49.0 52.1		

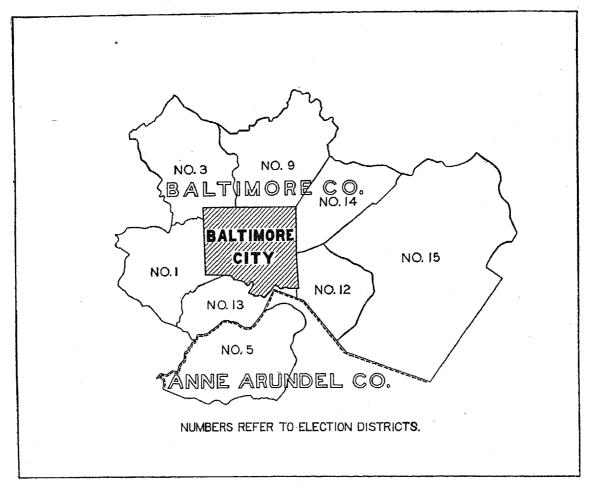
A minus sign (--) denotes decrease. Percentages not shown where base is less than 100 for wage earners.
Comparable figures not available.
Excluding statistics for two establishments, to avoid disclosure of individual operations.
Excluding statistics for one establishment, to avoid disclosure of individual operations.
Excluding statistics for one establishment, to avoid disclosure of individual operations.
Excluding statistics for three establishments, to avoid disclosure of individual operations.
Excluding statistics for three establishments, to avoid disclosure of individual operations.
Excluding statistics for three establishments, to avoid disclosure of individual operations.

The greatest absolute increase in value of products during the decade shown for any industry in the table is for slaughtering and meat packing-\$9,139,372, or 84.8 per cent. The greatest relative increase, 147.9 per cent, was reported for the manufacture of copper, tin, and sheet-iron products.

Among important industries that can not be shown at all in any tables without disclosing the operations of individual establishments are, in the order of their importance, the manufacture of roofing materials, mattresses and spring beds, paper goods, and cottonseed oil and cake.

93426°-13-61

BALTIMORE METROPOLITAN DISTRICT: 1909.



962

BALTIMORE METROPOLITAN DISTRICT.

Territory included.—The metropolitan district of Baltimore embraces 184,660 acres of territory, of which 19,290 acres constitute the area of Baltimore, and 165,370 acres the area of the outside territory. The population of the city of Baltimore proper in 1910 was 558,485, and that of the outside territory 100,230, the total for the district being 658,715.

As defined at the census of 1910, the metropolitan district comprised, in addition to the city of Baltimore, eight election districts, namely, Districts 1, 3, 9, 12, 13, 14, and 15, in Baltimore County, and District 5 in Anne Arundel County. The report for 1904 included all this territory but District 5.

On page 962 is an outline map of the metropolitan district as constituted in 1909, showing Baltimore and the election districts included.

Summary for the district.—Table 51 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910 for the Baltimore metropolitan district, for the city of Baltimore, and for the remainder of the district; the percentage which the figure for Baltimore represents of the total for the district being shown for each item.

Table 51	NUMI	ER OR AMO	UNT.	Per
	The dis- triet.	Baltimore.	District exclusive of Balti- more.	Balti- more is of total for district.
Population ¹ Number of establishments. Persons engaged in manufactures. Proprietors and firm members Salaried employees Values of the second second second Capital. Expenses Services Salaries Wages Materials Materials Materials Value of products.	2,068 94,954 2,700 10,339 81,825 125,080 \$199,735,181 237,569,865 48,585,334 11,888,229 36,697,105 165,085,541 23,808,990 260,213,324	558, 485 2, 502 83, 473 2, 660 9, 369 71, 444 \$164,436,758 108,514,786 31,170,787 107,023,883 20,149,028 186,977,710 79,953,827	100, 230 106 11, 481 130 970 10, 381 48, 316 \$35, 295, 423 68, 4655, 079 6, 843, 459 1, 317, 141 5, 526, 318 58, 061, 658 3, 749, 902 73, 235, 614 15, 173, 956	84. 8 93. 8 87. 9 95. 3 90. 6 87. 3 61. 4 82. 3 71. 1 85. 9 88. 9 84. 9 84. 9 84. 3 71. 9 84. 9 85. 9

1 April 15, 1910.

In 1909 the Baltimore metropolitan district had 2,668 manufacturing establishments, which gave employment to an average of 94,954 persons during the year, and paid out \$48,585,334 in salaries and wages. Of the persons employed \$1,825 were wage earners. These establishments turned out products to the value of \$260,213,324, to produce which materials costing \$165,085,541 were utilized. The value added by manufacture was thus \$95,127,783. The Baltimore

district ranked eleventh in 1909 among all the metropolitan districts of the United States in the value of its manufactured products.

In the Baltimore district, as in most of the other districts, the greater part of the value of the manufactured products of the district was reported by factories within the central city. Baltimore contained more than four-fifths (84.8 per cent) of the population of the district of which it is the manufacturing, commercial, and financial center, and contributed a little more than seven-tenths (71.9 per cent) of the value of products for the district. Its manufacturing establishments constituted over nine-tenths (93.8 per cent) of all in the district, and gave employment to nearly nine-tenths (87.3 per cent) of the wage earners.

As there are no incorporated places in any of the election districts, separate figures are not given for any places except Baltimore, although Sparrow Point and Canton are of much industrial importance. For the steel works, blast furnaces, steel shipbuilding plant, and coke ovens at Sparrow Point a combined value of products was reported for 1909 reaching into the millions. A large value of products was also reported for a copper smelter and refinery and for a petroleum refinery at Canton. None of these industries can be reported separately, as to do so would disclose the operations of individual establishments.

Comparison with earlier censuses.—Table 52 is a comparative summary of the statistics for the district as a whole for 1909, 1904,¹ and 1899,¹ together with the percentages of increase from census to census. For purposes of accurate comparison the statistics have been adjusted by segregating the figures of the territory added since 1904.

The percentages of increase in all items, except capital and miscellaneous expenses, were greater for the later five-year period, 1904–1909, than during the period 1899–1904. The percentages of increase during the decade 1899–1909 were especially large in salaries, salaried employees, and miscellaneous expenses. The average number of wage earners increased 12.4 per cent and their wages 38.9 per cent, a rate of gain not equal to that in value of products—45.4 per cent. The rate of increase in primary horsepower from 1904 to 1909 was 16.1 per cent. Statistics as to the primary power used in 1899 are not available.

¹Bureau of the Census: Industrial Districts, 1905, p. 50. (963)

Table 52			PER CE	REASE, I				
	· ·	1909						
•	Total.	Territory added since 1904.	Remainder of district. ²	1904	1899	1899-1909	1904-1909	1899-1904
Population. Number of establishments. Persons engaged in manufactures. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Services. Salaries. Wages. Materials. Miscellaneous. Value of products. Value added by manufacture.	10,33 81,825 125,080 \$199,735,181 237,569,865 48,585,334 11,888,229 30,697,105 165,085,541 22,898,990	$\begin{array}{r} 557,770\\ 126,332\\ 431,438\\ 2,031,174\\ 221,993\\ 2,951,340\\ \end{array}$	$\begin{array}{c} * \ 650, \ 948 \\ 2, \ 655 \\ 93, \ 603 \\ 2, \ 784 \\ 10, \ 246 \\ 80, \ 573 \\ 122, \ 014 \\ \$190, \ 687, \ 623 \\ 234, \ 788, \ 928 \\ 48, \ 027, \ 564 \\ 11, \ 761, \ 897 \\ 36, \ 225, \ 667 \\ 168, \ 554, \ 367 \\ 168, \ 554, \ 367 \\ 23, \ 670, \ 997 \\ 257, \ 261, \ 984 \\ 94, \ 207, \ 617 \end{array}$	(*) 2, 243 81, 225 2, 506 7, 297 71, 432 105, 063 \$166, 770, 882 180, 810, 209 36, 648, 368 7, 724, 061 28, 924, 307 124, 600, 047 19, 561, 794 202, 659, 272 78, 059, 225	$\begin{array}{c} {}^{5}577, 670\\ (2,352\\ (8)\\ (9)\\ 5,744\\ 71,088\\ (9)\\ \$122,009,527\\ 154,392,949\\ 32,298,174\\ (6,187,327\\ 20,110,847\\ 108,775,530\\ 13,319,245\\ 176,009,124\\ 68,133,594\\ \end{array}$	12.9 78.4 12.4 61.2 52.1 48.7 90.1 38.9	$\begin{array}{c} 18.4\\ 15.2\\ 11.1\\ 40.4\\ 12.8\\ 16.1\\ 17.9\\ 29.8\\ 31.0\\ 52.3\\ 25.4\\ 30.9\\ 21.0\\ 26.9\\ 20.7\\ \end{array}$	$\begin{array}{r}4.6\\4.6\\$

¹ A minus sign (-) denotes decrease. ² Figures in this column used in computing percentages of increase.

The proportions of the population and manufactures in the outside territory of the district are in general increasing, as is indicated by Table 53. The percentages for 1909 are based upon the figures for

the district exclusive of the territory added since 1904.

Table 53		TERRITORY MORE IS RICT.	
	1909 1	1904	1899
Population . Number of establishments. Persons engaged in manufactures . Proprietors and firm members . Salaried employees. Wage earners (average number). Primary horsepower. Capital . Expenses . Salaries . Wages . Materials . Miscellaneous. Value of products. Value added by manufacture.	$10.8 \\ 4.5 \\ 8.6 \\ 11.3 \\ 37.1 \\ 16.4 \\ 28.0 \\ 13.1 \\ 10.1 \\ 14.0 \\ 34.4 \\ 14.9 \\ 27.3 \\ 10.1 \\ 10.1 \\ 14.9 \\ 27.3 \\ 10.1 \\ 10$	(2) 3.6 8.6 3.0 6.7 8.7 38.3 10.8 27.0 10.7 8.3 11.4 35.0 6.8 25.2 9.6	$\begin{array}{c} 10.5\\ 3.3\\ (3)\\ (3)\\ (4)\\ 7.1\\ (3)\\ 12.1\\ 24.4\\ 9.1\\ 5.1\\ 10.0\\ 30.8\\ 9.1\\ 23.6\\ 12.1\end{array}$

Based on figures for district as constituted in 1904 and 1899.
 No population census in 1905.
 Figures not available.

The proportion of the population of the district reported from the territory outside of Baltimore increased from 10.5 per cent in 1900 to 14.2 per cent in 1910, while the proportion of the value of products increased from 23.6 per cent in 1899 to 25.2 per cent in 1904 and to 27.3 per cent in 1909. ³ April 15, 1910.
⁴ No population census in 1905.

⁶ June 1, 1900. ⁶ Figures not available.

Leading industries.—Table 54 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the 30 industries shown separately in the table there are 6 for which totals for the district can not be published, because to do so would disclose individual operations; and 9 which were not carried on in the part of the district which is outside the corporate limits of Baltimore. In all these cases the statistics shown are figures for the city of Baltimore exclusively.

As shown in the table, the manufacture of men's clothing is the leading industry in the Baltimore district and is wholly within the city of Baltimore, the value of the products amounting in 1909 to 13.9 per cent of the value of products for all industries. Another leading industry is the smelting and refining of copper, but it can not be presented without disclosure of individual operations.

Two industries—copper, tin, and sheet-iron products and slaughtering and meat packing—have substantially the same proportion of the district's value of products—5.5 and 5.2 per cent, respectively. Other industries of nearly as great importance are the manufacture of foundry and machine-shop products and of tobacco products.

BALTIMORE METROPOLITAN DISTRICT.

SUMMARY FOR THE BALTIMORE METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 54		PERS		NGAGEI STRY.) IN								
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ecs.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products.	Value added by manu- facture.
All industries	2,668	94, 954	2, 790	to, 339	81, 825	125,080	\$199, 735, 181	\$11,888,229	\$36,697,105	\$165,085,541	\$23,898,990	\$260, 213, 324	\$95, 127, 783
Belting and hose, woven and rubber. Boots and shoes, including cut stock	4	315	1	35	279	305	825, 720	48, 785	87, 058	995,018	119,463	1, 317, 501	322, 483
and findings. Bread and other bakery products Canning and preserving Carriages and wagons and materials.	14 410 57	670 2,429 3,893 511	11 432 58 49	65 296 264 37	594 1,701 3,571 425	$252 \\ 1,010 \\ 2,368 \\ 429$	$\begin{array}{r} 677,706\\ 2,733,849\\ 4,325,220\\ 658,577\end{array}$	64, 484 197, 643 266, 053 37, 193	239, 242 780, 407 936, 271 241, 716	$\begin{array}{r} 912,172\\ 3,795,757\\ 4,821,265\\ 285,768\end{array}$	146,576461,778384,40246,113	1,431,017 5,970,981 6,526,225 750,703	518, 845 2, 175, 224 1, 704, 960 464, 935
Cars and general shop construction and repairs by steam-railroad com- panies. Clothing, men's, including shirts. Clothing, women's. Coffee and spice, roasting and grinding. Confectionery.	1 8 324 69 15 50	4, 481 20, 670 2, 953 332 1, 867	453 99 14 45	$318 \\ 1,621 \\ 282 \\ 149 \\ 258$	$\begin{array}{r} 4,163\\ 18,596\\ 2,572\\ 169\\ 1,564 \end{array}$	6, 318 3, 785 348 531 1, 416	3, 471, 038 19, 233, 106 1, 685, 753 954, 593 2, 700, 836	229,111 1,767,616 270,207 178,410 277,460	2,705,389 7,326,304 878,116 77,213 458,707	4, 353, 393 20, 672, 395 2, 279, 483 2, 430, 610 3, 116, 303	46, 986 3, 862, 384 491, 341 73, 052 427, 610	7, 364, 880 36, 269, 212 4, 333, 171 2, 877, 712 5, 011, 253	2, 981, 487 15, 596, 817 2, 053, 688 447, 102 1, 894, 950
Copper, tin, and sheet-iron products. Fertilizers. Foundry and machine-shop products Furnishing goods, men's Furniture and refrigerators	111	5,265 1,460 5,040 543 1,358	58 5 99 30 48	528 227 508 79 153	$\begin{array}{r} {4,679} \\ {1,228} \\ {4,433} \\ {434} \\ {1,157} \end{array}$	4,642 3,685 5,708 50 1,786	21,646,215 7,989,458 9,323,414 395,207 1,824,983	685,039 374,553 665,348 67,200 145,388	$\substack{1,868,361\\542,662\\2,582,872\\137,453\\547,704}$	9,350,634 6,175,708 5,427,002 491,754 1,013,534	$\substack{ \substack{ 1,126,767\\529,740\\1,237,951\\56,787\\210,269} }$	$14,350,235\\8,469,056\\10,961,564\\890,783\\2,197,239$	4,999,601 2,293,948 5,534,562 * 399,029 1,183,705
Glass. Hats, straw Ice, manufactured Leather goods	4 7 112 135	842 1,808 242 410	6 4 1 40	38 110 46 64	798 1,694 195 306	310 930 5,102 181	706,073 2,607,298 1,964,302 610,078	57,147 295,635 65,482 54,872	404,379 687,648 151,028 142,634	179,535 1,783,214 222,110 560,318	64,376 294,920 172,731 83,622	850, 545 3, 347, 330 693, 828 963, 019	671, 010 1, 564, 116 471, 718 402, 701
Liquors, distilled Liquors, malt Lumber and timber products Marble and stone work		306 936 2,501 895	2 6 62 49	76 148 204 82	228 782 2,235 764	$1,917 \\ 5,688 \\ 6,147 \\ 1,428$	$\begin{array}{c}3,550,272\\7,808,729\\3,062,107\\1,234,894\end{array}$	147,330 316,998 217,208 158,302	110,375 636,045 971,147 499,130	811,438 1,385,223 3,284,547 783,025	$2,507,907 \\1,934,429 \\283,372 \\148,701$	3,681,619 5,017,678 5,230,404 1,759,724	2,870,181 3,632,455 1,945,857 976,699
Paint and varnish Patent medicines and compounds and druggists' preparations Printing and publishing Shipbuilding, including load building	. 12 1 71 243	1,813 4,189	20 53 229 11			450 667 3,203 3,563	502,670 4,056,157 5,640,382 2,077,571	35, 198 744, 013 1, 201, 885 66, 744	54,982 425,844 1,758,475 340,326	699, 514 2, 136, 457 2, 234, 055 260, 087	127,358 925,660 1,374,766 127,403	1,000,938 5,470,590 7,579,430 871,470	301,424 3,334,133 5,345,375 611,383
Slaughtering and meat packing Tobacoo manufactures. Umbrellas and canes. All other industries.	. 9	3,866	11 15	319 111	1,029 3,303 514 19,664	559	6,450,005 827,463	144,271	1,170,929	1,075,854	135,879	$\begin{array}{c} 13,653,693\\ 10,288,867\\ 1,649,810\\ 89,432,247 \end{array}$	2,173,8634,751,354 $673,95622,930,222$

¹ Excluding statistics of establishments located outside the corporate limits of Baltimore, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

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Comparative summary, by industries.-The number of establishments, average number of wage earners, and value of products for such of the industries as

can be shown separately and had a value of products amounting to \$2,000,000 or more in 1909 are given in Table 55 for 1909, 1904, and 1899.

COMPARATIVE SUMMARY FOR THE BALTIMORE METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 55				WAGE EARNERS						PE	n cent	OFD	CREAS	1E,1				
INDUSTRY.	I	MBER ESTAB HMEN	-	(A	(AVERAGE VALUE OF PRODUCTS.				Number of establishments.			Wage carners (average number).			Value of products.			
	1909	1904	1899	1909	1904	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909		1899- 1904
Clothing. Mon's, including shirts Women's	393 324 69	181 130 51	213 155 58	21,168 18,596 2,572	14,565 12,823 1,742	13,023 12,044 1,879	\$40, 602, 383 36, 269, 212 4, 333, 171	\$28,341,141 25,276,257 3,064,884	\$23, 349, 392 20, 842, 738 2, 506, 654	109.0	149.2	-15.0 -10.1 -12.1	54.4	45.3 45.0 47.6	6,5	74.0	43.5	21.3
Copper, tin, and sheet-iron products. Blaughtering and meat packing Foundry and machine-shop products Tobacco manufactures	65 52 111 220	44 87	50 (3)	4,679 1,029 4,333 3,303	2,512 562 4,622 3,650	2,745 466 (³) 4,027	14, 350, 235 13, 653, 693 10, 961, 564 10, 288, 867	8,608,602 6,847,973 9,561,706 10,545,035	5,933,166 6,476,918 (3) 9,581,893	4.0	18.2 27.6	-15.3 -12.0 -11.1	70.5 120.8 	83.1 -6.3	20.6	110.8	99.4 14.6	5,7
Liquors. Malt. Distilled.	28 15 13	30 16 14	22 12 10	$1,010 \\ 782 \\ 228$	876 655 221	659 538 121	8,699,297 5,017,678 3,681,619	6, 206, 447 4, 185, 170 2, 021, 277	4, 175, 569 2, 934, 028 1, 241, 541	25.0	-6.3	33.3	45.4	$15.3 \\ 19.4 \\ 3.2$	21.7	71.0	19.9	42.6
Fertilizers	16	15	19	1,228	930	762	8, 469, 656	5, 562, 156	3, 895, 437	-15.8	6.7	-21.1	61.2	32.0	22, 0	117.4	52.3	42.8
Printing and publishing Book and job Newspapers and periodicals All other printing and publish-	243 151 53	124	222 142 44	2,886 1,675 600	2,445 1,270 667	2,873 1,178 1,179	7, 579, 430 3, 491, 225 3, 049, 576	5, 648, 462 2, 164, 562 2, 662, 307	4, 942, 851 2, 037, 037 2, 186, 437	9.5 6.3 20.5	21.8	- 6.3 -12.7 27.3	42.2	31.3	-14.9 8.3 -43.4	71.4	61.3	6.3
ing industries 4	39	28	36	611	502	516	1,038,629	821, 593	719, 377	8.3	39.3	-22.2	18.4	21.7	-2.7	44.4	26.4	14.2
Cars and general shop construction and repairs by steam railroad com- panies. Canning and preserving. Bread and other bakery products Patent medicines and compounds and druggists' preparations	² 8 57 410 2 71	50 352	6 48 350 57	1,701	1,475		5, 970, 981		3, 529, 959 10, 791, 369 3, 696, 376 3, 195, 665	18.8 17.1	14.0 16.5	0.6	-37.1 18.4	-14.9 15.3	-26.1 2.6	39, 5 61, 5	1.8 31.5	-40.6 22.8
Lumber and timber products Confectionery Hats, straw. Furniture and refrigerators	50	6	42 (*)	2,235 1,564 1,694 1,157	1,624 1,049 1,139 1,776	1,681 858 (³) 1,627	5, 230, 404 5, 011, 253 2, 347, 330 2, 197, 239	2.597.943	3, 426, 781 1, 923, 939 (³) 2, 690, 610	19.0	48.7 16.3 16.7 	2.4	82.3	37.6 49.1 48.7 -34.9	22.3		92.9 15.3	35.0

A minus sign (-) denotes decrease.
Excluding statistics for one establishment, to avoid disclosure of individual operations.
Comparable figures not available.
Inchides "printing and publishing, music;" "bookbinding and blank-book making;" "engraving, steel and copper plate, and plate printing;" and "lithographing."
Excluding statistics for two establishments, to avoid disclosure of individual operations.

The greatest absolute increase in value of products

during the decade, \$15,426,474, or 74 per cent, is shown for the manufacture of men's clothing. The greatest relative increase, 196.5 per cent, was reported for the manufacture of distilled liquors.

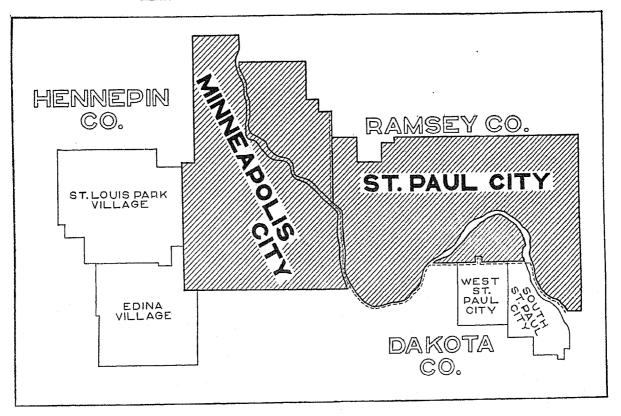
The inclusion of the 1909 statistics for establishments within the territory added to the district since 1904 affects considerably the totals for the fertilizer and canning and preserving industries, and to a much smaller degree those for lumber and timber products.

MINNEAPOLIS-ST. PAUL METROPOLITAN DISTRICT.

Territory included.—The Minneapolis-St. Paul metropolitan district embraces 94,539 acres, of which 32,069 acres represent the area of Minneapolis, 33,390 acres the area of St. Paul, and 29,080 acres the area of the outside territory. The population of Minneapolis in 1910 was 301,408, that of St. Paul 214,744, and that of the outside territory 10,104, the total for the district being 526,256. As defined at the census of 1910 the Minneapolis-St. Paul metropolitan district comprises, in addition to the cities of Minneapolis and St. Paul, the villages of Edina and St. Louis Park in Hennepin County and the cities of South St. Paul and West St. Paul in Dakota County. The territory comprised within the Minneapolis-St. Paul industrial district as constituted for the bulletin on industrial districts for 1904 did not include South St. Paul and West St. Paul cities, but it contained in addition to the other places named above, Brooklyn, Crystal Lake, Richfield (now Richfield village), and St. Anthony townships and Robbinsdale and West Minneapolis villages in Hennepin County and New Canada and Rose townships and North St. Paul village in Ramsey County.

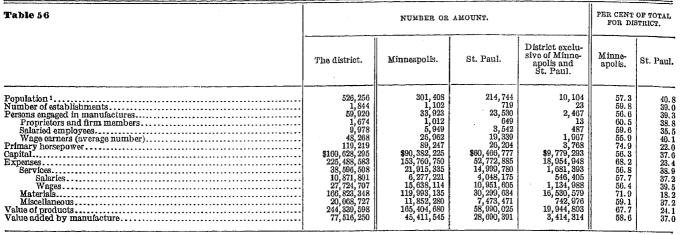
The location of each of the places included in 1909 is indicated on the following outline map of the district:





Summary for the district.—Table 56 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the Metropolitan-St. Paul district, for the cities of Minneapolis and St. Paul, and for the remainder of the district; the percentages which the figures for Minneapolis and St. Paul separately represent of the total for the district being shown in the case of each item.

In 1909 the Minneapolis-St. Paul metropolitan district had 1,844 manufacturing establishments, which gave employment to an average of 59,920 persons during the year and paid out \$38,596,508 in salaries and wages. Of the persons employed, 48,268 were wage earners. These establishments turned out products to the value of \$244,339,598, to produce which materials were used costing \$166,823,348. The value added by manufacture was thus \$77,516,250. The Minneapolis-St. Paul district ranked twelfth in 1909 among the metropolitan districts of the United States in the value of its manufactured products.



1 April 15, 1910.

The percentages which the combined statistics for the central cities represent of the total for the metropolitan district are larger in the majority of instances than those for any of the other metropolitan districts, although those for Cleveland and Detroit are larger in a number of items. The percentage is not less than 90 for any item, the range being from 90.1 per cent for cost of materials to 99.3 per cent for proprietors and firm members. The two cities contained 98.1 per cent of the population of the district and contributed over nine-tenths (91.8 per cent) of the value of the manufactured products of the district.

Comparison with earlier censuses.—Table 57 gives statistics for the district for 1909, 1904, and 1899.

For purposes of comparison the statistics in this table are grouped in such a way as to show separately for 1909 figures for (1) the territory added to the district since 1904 (South St. Paul and West St. Paul) and (2) the remainder of the district; and for 1904 and 1899 figures for (1) the territory deducted since 1904 (Brooklyn, Crystal Lake, Richfield, and St. Anthony townships, together with Robbinsdale and West Minneapolis villages, in Hennepin County and New Canada and Rose townships and North St. Paul village in Ramsey County) and (2) the remainder of the district. Percentages of increase are shown for the territory included in the metropolitan district in both 1909 and 1904. 3

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Table 57				NUMBI	ER OR AMO	UNT,			i		CENT	
		1909			1904			1899				
	Total.	Territory added since 1904.	Remainder of district. ¹	Total.	Territory deducted since 1904.	Remainder of district. ¹	Total.	Territory deducted since 1904.	Remainder of district. ¹	1899- 1909	1904- 1909	1899- 1904
Population. Number of establishments. Persons engaged in manufactures. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Services. Salaries. Wages. Materials. Miscellaneous. Value of products. Value added by manufacture.	9,978 48,268 119,219 \$160,628,295 225,488,583 38,596,508 10,871,801	10 1,785 33 1,430 2,799 \$5,822,520 17,441,729 1,212,495 355,349 854,140 15,975,889 854,140	$1,834 \\ 58,135 \\ 1,671 \\ 9,626 \\ 46,838 \\ 116,420 \\ 5154,805,775 \\ 208,040,854 \\ 37,384,013 \\ 10,513,452 \\ 26,870,561 \\ 150,847,459 \\ 19,816,382 \\ 225,919,114 \\ \end{array}$	$\begin{array}{c} 1,506\\ 44,297\\ 1,423\\ 5,830\\ 37,044\\ 90,111\\ \$108,209,964\\ 148,422,314\\ 25,142,703\\ 5,994,418\\ 10,148,285\\ 109,364,757\\ 13,914,854\\ 101,803,453\\ 101,803,453\\ \end{array}$	$\begin{array}{c} 11\\ 947\\ 7\\ 156\\ 784\\ 1,010\\ \$4,233,052\\ 1,473,728\\ 606,409\\ 197,803\\ 408,666\\ 676,400\\ 190,859\\ 1,613,133\end{array}$	1 1 495 43, 350 1, 416 5, 674 36, 260 89, 101 \$103, 976, 915 146, 948, 586 24, 536, 234 5, 796, 615 18, 739, 619 108, 688, 357 13, 723, 995 160, 190, 320	1,340 (*) (*) 33,755 (*) \$79,283,521 112,570,667 19,400,751 4,158,905 15,247,846 85,836,608 7,327,248 126,613,742	(6) (5) (6) (865 (6) (52,213,377 1,411,631 500,418 109,253 391,165 730,113 181,100 1,512,417	1,332 (6) 4,280 (6) \$77,070,144 111,159,036 18,906,333 4,049,652 14,856,681 85,106,555 7,146,148 125,101,325	37.7 124.9 42.4 100.9 87.2 97.7 159.6 80.9 77.2 177.3 80.6	$\begin{array}{c} 34.1\\ 18.0\\ 69.7\\ 29.2\\ 30.7\\ 48.9\\ 41.6\\ 52.4\\ 81.4\\ 43.4\\ 43.4\\ 43.8\\ 84.4\\ 41.0\end{array}$	12.2 32.6 10.2 34.9 32.2 29.8 43.1 26.1 27.7 92.0 28.0

Figures in this column used in computing percentages of increase.
 April 15, 1910.

The relative increase in all the items for which comparative figures are given in the table, except miscellaneous expenses, was larger during the more recent five-year period, 1904–1909, than during the period 1899–1904. For the decade as a whole the relative increase was much greater in miscellaneous expenses, number of salaried employees, and salaries than for any other items. The average number of ^a State census, June 1, 1905. ⁴ June 1, 1900. ⁶ Figures not available.

wage earners increased 42.4 per cent during this period, but the amount paid for wages increased 80.9 per cent, a rate of gain approximately equal to that in value of products, 80.6 per cent. The relative increase from 1904 to 1909 in the amount of primary power of all kinds used was 30.7 per cent. Statistics as to the amount of primary power used in 1899 are not available.

MINNEAPOLIS-ST. PAUL METROPOLITAN DISTRICT.

The proportions which the population and statistics of manufacturing industries of the territory outside Minneapolis and St. Paul represented of the total for the area comprised in the district in both 1909 and 1904 are shown in Table 58. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904 and those for 1904 and 1899 upon the figures for the district exclusive of the territory subsequently deducted.

The proportion which the population of the territory outside of Minneapolis and St. Paul, but within the area comprised in the district, represented of the total for that area was the same for 1899 and 1909, while the proportion of the value of manufactured products of that area which was reported from such outlying territory decreased from five-tenths of 1 per cent in 1899 to four-tenths of 1 per cent in 1904 but increased to seven-tenths of 1 per cent in 1909. The percentages for all but one of the other items also decreased from 1899 to 1904, but increased from 1904 to 1909. The decade shows a steady increase.

Table 58	PER CENT TERRITORY OUTSI OF MINNEAPOLIS-ST. PAUL OF TOTAL FOR DISTRICT.								
	1909 ¹	1904 *	1899 *						
Population	0.6	0.5	0.0						
Number of establishments	0.7	0.3	0.5						
Persons engaged in manufactures Proprietors and firm members	1.2	0.0	(3)						
Proprietors and firm members	0.6	0,2	(2)						
Salaried employees	1.4	0.7	1.0						
Wage earners (average number)	1.1	0.6	. 0. 8						
Primary horsepower	0.8 2.6	0.6	(*)						
Capital Expenses	0.7	1.4	1.0						
Services		0.7	1.2						
Salaries	1.8	1.0	1.1						
Wages	1.0	0.6	1.0						
Materials	0.4	0.3	0.1						
Miscellaneous.	2.5	0.8	0.4						
Value of products	0.7	0.4	0.3						
Value added by manufacture	1.3	0.8	0.9						

 Based on figures for district as constituted in 1909, exclusive of territory added since 1904.
 Based on figures for district us constituted in 1904, exclusive of territory deducted since 1904.
 Figures not available.

Leading industries.—Table 59 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

	SUMMARY FOR	THE MINNEAPOLIS-ST.	PAUL METROPOLITAN DISTRICT	, BY INDUSTRIES: 1909.
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Table 59		PER		NGAGEI STRY,	D IN								
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products.	Value added by manu- facture.
All industries	1,844	59,920	1,674	9,978	48, 268	119,219	\$160 , 628, 295	\$10,871,801	\$27,724,707	\$166, 823, 348	\$20,068,727	\$244, 339, 598	\$77, 516, 250
Agricultural implements Artificial stone Boots and shoes, including cut stock	1 10 1 48	573 464	1 61	72 33	500 370	735 205	1,332,094 375,324	75,702 22,758	340, 985 224, 511	669, 946 168, 657	172, 438 37, 789	1,509,533 548,573	839, 587 379, 916
Boxes, fancy and paper Bread and other bakery products	9 7 1 169	2,195 610 1,663	2 2 185	175 60 214	2,018 548 1,264	849 423 800	3,618,742 905,807 4,138,935	253,106 86,040 229,472	1,032,575 225,038 734,041	3, 235, 184 451, 585 2, 779, 482	454,960 93,879 531,870	5,144,543 968,606 4,973,477	1, 909, 359 517, 021 2, 193, 995
Butter, cheese, and condensed milk. Canning and preserving Carriages and wagons and materials Cars and general shop construction and repairs by steam-railroad com-	13 12 1 34	151 297 429	10 11 33	64 58 51	77 228 345	859 164 427	379, 707 647, 038 708, 643	41,614 62,884 57,130	56,072 86,082 222,114	2, 529, 913 704, 914 331, 280	99, 675 59, 172 63, 311	2, 794, 601 975, 454 816, 207	264, 688 270, 540 484, 927
panies Clothing, men's, including shirts	10 30	$5,251 \\ 1,906$		269 179	4,982 1,690	5, 195 331	8,281,634 1,783,787	274, 391 194, 565	3, 440, 205 567, 982	4, 183, 112 2, 255, 321	51, 308 183, 342	7,949,016 3,528,281	3, 765, 904 1, 272, 960
Confectionery Cooperage and wooden goods, not	21	671	20	153	498	319	806,287	175,093	170, 473	985, 288	185, 502	1,609,356	624,068
elsewhere specified Copper, tin, and sheet-iron products. Electrical machinery, apparatus, and	19 78	656 1,121	14 71	41 136	601 914	981 424	908, 045 2, 570, 297	49,308 138,272	327, 045" 545, 411	1, 128, 795 1, 074, 716	77, 484 196, 800	1,699,792 2,220,929	570, 997 1, 146, 213
supplies. Flour-mill and gristmill products	13 2 13	232 3,594	3 6	42 1,309	187 2,279	205 50, 598	427,208 19,869,105	54, 141 1, 295, 351	100,751 1,530,425	220,183 70,952,696	60, 722 3, 448, 932	526,101 78,669,808	305, 918 7, 717, 112
Food preparations Foundry and machine-shop products Fur goods. Furniture and refrigerators. Leather goods.	42	505 5,758 1,219 1,451 061	21 94 34 35 15	104 880 190 152 114	380 4,784 995 1,264 532	710 7,032 272 1,877 312	1,390,247 13,208,513 2,122,833 2,865,578 1,097,459	207, 598 993, 031 218, 632 181, 191 124, 526	191, 180 3,082, 677 541, 092 734, 299 288, 657	2,442,238 5,780,604 2,123,248 1,512,522 1,005,254	382, 883 1, 355, 040 367, 886 258, 107 131, 092	3,723,829 12,394,257 3,620,482 2,940,460 1,720,326	1, 281, 591 6, 607, 653 1, 497, 234 1, 427, 938 715, 072
Liquors, malt Lumber and timber products Marble and stone work Patent medicines and compounds and druggists' preparations	20	1,445 5,990 568 799	1 30 17 62	374 311 50 443	1,070 5,649 495 294	3,390 14,628 871 417	13,374,264 13,235,052 919,304 2,138,966	431, 436 506, 919 60, 380 236, 476	627, 709 3, 189, 933 387, 007 122, 082	1,454,486 6,961,605 560,349 614,867	2, 817, 920 961, 248 57, 377 756, 789	7,081,277 13,186,892 1,174,074 2,119,126	5, 626, 791 6, 225, 287 613, 725 1, 504, 259
Printing and publishing Slaughtering and meat packing Tobacco manufactures. All other industries.	1 329 16 1 109	6,258 1,811 1,142 12,500	374 13 114 408	2,044 364 124 1,966	3,840 1,434 904 10,126	3, 963 3, 043 27 20, 162	9, 934, 236 6, 130, 705 1, 057, 660 46, 400, 825	1,934,362 373,870 188,760 2,404,793	2, 509, 881 868, 347 479, 924 5, 098, 209	$\begin{array}{r} 3,215,188\\ 17,213,913\\ 722,874\\ 31,539,128 \end{array}$	2, 649, 703 299, 775 349, 714 3, 964, 009	$\begin{array}{c} 12,298,881\\ 19,819,223\\ 2,002,089\\ 48,324,405 \end{array}$	9,083,693 2,605,310 1,279,213 16,785,277

¹ Excluding statistics for establishments located outside of the corporate limits of Minneapolis and St. Paul, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."
 ³ Excluding statistics for establishments located outside of the corporate limits of Minneapolis, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries."

Among the 27 industries shown separately in the table are 8 for which the totals for the district can not be published because to do so would disclose individual operations. Of the remaining industries only two were carried on in the part of the district which is outside the corporate limits of Minneapolis and St. Paul.

The principal industry of the Minneapolis-St. Paul metropolitan district is the manufacture of flour-mill products; the industry, however, with the exception of two establishments in St. Paul, was confined to Minneapolis in 1909.

The value of products reported by the flour mills of Minneapolis alone was \$78,669,808, as shown in the table, and constituted 56.5 per cent of the total for the industry in the state, and 32.2 per cent of the value of all products for the district.

Other important industries, arranged according to the value of products in 1909, were slaughtering and meat packing, the lumber industry, foundries and machine shops, printing and publishing, steam-railroad repair shops, and breweries. The manufacture of linseed oil and that of bags, other than paper bags, industries for which separate statistics can not be published without disclosing individual operations, were also of considerable importance.

Comparative summary, by industries.-The number of establishments, average number of wage earners, and value of products for such of the industries as can be shown separately and had a value of products amounting to \$2,000,000 or more in 1909, are given in Table 60 for 1909, 1904, and 1899.

The greatest absolute increase in value of products during the decade is shown for the flour-mills and gristmills, amounting to \$29,000,190, or 58.4 per cent: comparisons for this industry, however, are affected to some extent by the omission of establishments from the figures for the different censuses in order to avoid disclosing the operations of individual concerns. The statistics for slaughtering and meat packing are incomparable because of the fact that in the territory added to the district subsequent to 1904 the operations in this industry were of large magnitude and the figures for this added area in 1904 and 1899 are not included in the table. Omitting this industry from consideration, the greatest relative gain in value of products during the decade was for food preparations, 491.1 per cent, followed by butter, cheese, and condensed milk, with 283 per cent.

COMPARATIVE SUMMARY FOR THE MINNEAPOLIS-ST. PAUL METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 60												PE	R CENT	OF IN	CREAS	E. ¹		
INDUSTRY.	F	HBER STAB IMEN	•	(A	E EARN VERAG JMBER	Е	VALI	JE OF PRODU	ICTS.		imber blishm		Wa (avera	ge eari ige nui	ners nber),	Value	of proc	luets.
	1909	1904	1899	1909	190 1	1899	1909	1904	1899	1899- 1909	1904- 1909	1899- 1904	1899- 1909	1904- 1909	1899- 1904	1899- 1909		1899- 1904
Flour-mill and gristmill products Slaughtering and meat packing Lumber and timber products Foundry and machine-shop products.	2 13 16 3 51 144	16 a 49	7 2 39	1,434	$109 \\ 5, 324$			1, 186, 256 11, 969, 297	15, 576, 737	128.6		128.6 25.6		1,215.6	-6.8	1,438.2 	1,570.7	26.3 7.9 23.2
Printing and publishing Newspapers and periodicals Book and job. All other printing and publish- ing industries ⁵	2 329 2 120 178 31	139 143	124 120	1,791	1,226	1, 489 943	12, 298, 881 7, 598, 366 4, 053, 347 647, 168	5, 159, 432 3, 063, 893	4, 053, 462 1, 694, 748	-3.2 48.3	-13.7 24.5	12.1 19.2	14.8 89.9	39.5 13.4	-17.7	139.2	47.3 32.3	
Cars and general shop construction and repairs by steam-railroad com- panies Liquors, malt Boots and shoes, including cut stock and lindings.	<u>۱</u>	\$ 10	39	2.018	632	470 1,596	5, 144, 543	3,809,531 2,839,425	2, 843, 013 2, 654, 006			11.1	127.7	69.3 37.3	34. 5 -7. 9	118.5 149.1 93.8 129.9	83.0 81.2	36.1 7.0
Bread and other bakery products Food preparations Fur goods Clothing, men's, including shirts Furniture and refrigerators	. 25 . 31 . 30	i 14 20	17 18 31	380 995 1,690	$261 \\ 1, 177 \\ 1, 315$	183 730 1, 820	3, 723, 820 3, 620, 482 3, 528, 281	1,471,051 3,253,165 2,328,870	$\begin{array}{c} 630,004\\ 1,940,188\\ 2,303,224\end{array}$	47.1 72.2 3.2	78.0 19.2 36.4	-17.0 44.4 -29.0	$ \begin{array}{c c} 107.0 \\ 36.3 \\ -7.1 \end{array} $	45.0 	42, 6 61. 2 -27. 7	3 491.1 2 86.6 7 53.2	153.1 11.3 51.5	133.5 67.7 1.1
Butter, cheese, and condensed milk. Copper, tin, and sheet-iron products Patent medicines and compounds and druggists' preparations Tobacco manufactures	1 78	8 58 7 8 59	2 83	294	791	740 3 119	2, 220, 020 2, 119, 120	1, 647, 725 6 2, 232, 368	1,583,966 663,612	95.0 133.2	34. t	57.0	23.8 3147.1	31.8	87.4	4 219.	2 34.8 3	4,0 236.4

A minus sign (--) denotes decrease. Percentages not shown where base is less than 100 for wage earners.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 Comparable figures not available.
 Teablides (for individual value) (the table individual operations.

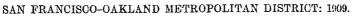
• Comparation inguise not available: • Includes "printing and publishing, musle;" "bookbinding and blank making;" "engraving, steel and copper plates, including plate printing;" and "lithographing."

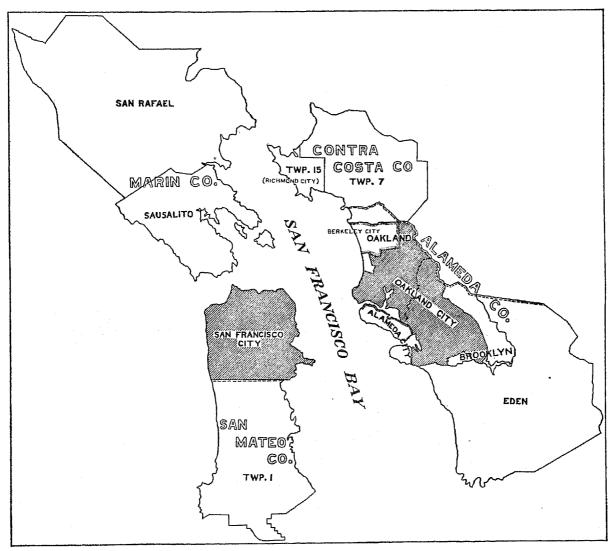
SAN FRANCISCO-OAKLAND METROPOLITAN DISTRICT.

Territory included.—The San Francisco-Oakland metropolitan district embraces 289,381 acres of territory, of which 29,760 acres constitute the area of San Francisco, 29,248 acres the area of Oakland, and 230,373 acres the area of the outside territory. The population of the city of San Francisco in 1910 was 416,912, that of the city of Oakland 150,174, and that of the outside territory 119,787, the total for the district being 686,873.

As defined at the census of 1910, the metropolitan district comprised, in addition to the cities of San Francisco and Oakland, Alameda and Berkeley, with that part of Brooklyn township not included in Oakland city, and that part of Oakland township not included in Oakland and Berkeley; Eden township in Alameda County; townships 7 and 15 in Contra Costa County; San Rafael and Sausalito townships in Marin County; and township 1 in San Mateo County. The industrial district as constituted for the bulletin on industrial districts for 1904 and 1899 did not embrace Eden township in Alameda County or the townships in Contra Costa County and Marin County, but, in addition to the places mentioned, included part of township 2 of San Mateo County, including San Mateo city.

The following is an outline map of the metropolitan district as constituted in 1909:





Summary for the district.—Table 61 is a summary for 1909 of the statistics of manufacturing industries, with a statement of the population in 1910, for the San Francisco-Oakland district; for the cities of San Francisco, Oakland, Alameda, and Berkeley; and for the remainder of the district. The percentages which the figures for San Francisco and Oakland separately represent of the total for the district are shown in the case of each item.

In 1909 the San Francisco-Oakland metropolitan district had 2,539 manufacturing establishments, which gave employment to an average of 53,177 persons during the year and paid out \$43,298,791 in salaries and wages. Of the persons employed, 41,615 were wage earners. These establishments turned out products to the value of \$199,593,117, to produce which materials costing \$117,440,976 were utilized. The value added by manufacture was thus \$82,152,141. The San Francisco-Oakland district ranked thirteenth in 1909 among the metropolitan districts discussed in this report in the value of its manufactured products.

Table 61			NUMB	ER OR AMOUN	т.			PER CENT	04 20212
				District (exclusive of S	an Francisco-		FOR DIS	OF TOTAL STRICT.
	The district.	San Francisco.	Oakland.	Total.	Alameda.	Berkeley.	Remainder.	San Fran- cisco,	Oak- land.
Population ¹	117 110 070	$\begin{array}{r} 416, 912\\ 1,796\\ 36,910\\ 2,544\\ 6,122\\ 28,244\\ \$133,823,673\\ 119,782,203\\ 30,407,015\\ 8,085,633\\ 22,981,452\\ 76,217,321\\ 13,007,867\\ 133,041,069\\ 56,823,748\\ \end{array}$	$\begin{array}{c} 150, 174\\ 441\\ 8, 538\\ 554\\ 1, 079\\ 6, 905\\ 113, 683\\ 819, 113, 246\\ 20, 559, 203\\ 6, 617, 538\\ 1, 300, 297\\ 5, 317, 241\\ 11, 847, 238\\ 2, 004, 432\\ 22, 342, 626\\ 10, 495, 693\\ \end{array}$	$\begin{array}{c} 119, 787\\ 302\\ 7, 729\\ 971\\ 6, 460\\ 834, 764, 483\\ 38, 452, 573\\ 6, 214, 238\\ 1, 400, 558\\ 4, 813, 380\\ 29, 376, 422\\ 2, 861, 913\\ 44, 209, 122\\ 14, 832, 700\\ \end{array}$	$\begin{array}{c} 23,383\\51\\1,076\\50\\101\\115\\1,520\\2,807,413\\907,839\\170,892\\766,947\\999,553\\410,221\\2,554,417\\1,625,064\end{array}$	$\begin{array}{c} 40, 434\\ 84\\ 1, 420\\ 116\\ 221\\ 1, 034\\ 4, 134, 822\\ 1, 094, 255\\ 254, 292\\ 839, 963\\ 2, 086, 878\\ 353, 689\\ 353, 689\\ 4, 435, 374\\ 1, 748, 496\end{array}$	$\begin{array}{r} 55, 970\\ 167\\ 5, 233\\ 039\\ 4, 467\\ 828, 297, 570\\ 32, 010, 338\\ 4, 152, 144\\ 975, 674\\ 3, 176, 470\\ 25, 760, 191\\ 2, 098, 003\\ 37, 219, 331\\ 11, 459, 140\\ \end{array}$	$\begin{array}{c} 60.\ 7\\ 70.\ 7\\ 69.\ 4\\ 75.\ 0\\ 74.\ 9\\ 67.\ 9\\ 61.\ 0\\ 71.\ 3\\ 67.\ 0\\ 67.\ 0\\ 68.\ 8\\ 64.\ 9\\ 72.\ 5\\ 66.\ 7\\ 69.\ 2\end{array}$	21.9 17.4 16.1 16.3 13.2 16.6 16.7 10.2 11.5 15.8 12.1 16.4 10.1 11.6 4 10.1 11.2 12.8

¹ April 15, 1910.

The greater part of the value of the manufactured products of the district was reported by factories within the central cities. San Francisco and Oakland combined contained over four-fifths (82.6 per cent) of the population of the district of which they are the manufacturing, commercial, and financial center, and contributed nearly eight-tenths (77.9 per cent) of the value of products. Their manufacturing establishments constituted 88.1 per cent of all in the district and gave employment to 84.5 per cent of the average number of wage earners for that area.

Of the two cities outside of San Francisco and Oakland for which statistics are given separately, Berkeley had the larger value of products, representing 2.2 per cent of the total for the metropolitan district. The population of Berkeley formed 5.9 per cent of the total for the district.

The average value of products per establishment was larger for San Francisco than for any other city of the district.

The group of eight townships or parts of townships not shown separately, with a combined population equal to 8.1 per cent of the total for the district, contributed 18.6 per cent of the value of the products.

The principal industries of San Francisco in 1909, as measured by value of products, were the refining of sugar, printing and publishing, slaughtering and meat packing, and foundries and machine shops; of Oakland, the lumber industry, and foundries and machine shops; of Alameda, shipbuilding; and of Berkeley, foundries and machine shops.

Comparison with earlier censuses.—Table 62 is a comparative summary for the statistics for the San Francisco-Oakland district as a whole for 1909, 1904, and 1899, together with the percentages of increase from census to census.

For purposes of accurate comparison the statistics for 1909 have been adjusted by segregating the figures for the territory added since 1904; and those for 1904 by segregating the figures for the territory deducted since 1904. The figures for 1899, however, as published in the report for 1904, are not affected except as to population, no manufactures being reported for 1899 from the deducted territory.

The percentage of increase in all items shown, except capital and cost of materials, was greater during the earlier five-year period, 1899–1904, than during the period 1904–1909. The percentages of increase during the decade, 1899–1909, were much larger in salaries, miscellaneous expenses, capital, and number of salaried employees than in any other items. The average number of wage earners increased only 9.8 per cent during this period, but the amount paid for wages increased 62.9 per cent, a rate of gain approximately equal to that in value of products—65.9 per cent. The rate of increase in primary horsepower of all kinds from 1904 to 1909 was 50.5 per cent. Statistics as to the power used in 1899 are not available.

SAN FRANCISCO-OAKLAND METROPOLITAN DISTRICT.

Table 62		1909		-	1904		1899	PER CENT OF INCREASE.			
	Total.	Territory added since 1904.	Remainder of district. ³	Total.	Terri- tory de- ducted since 1904.	Remainder of district. ²	Total.	1899- 1909	1904- 1909	1899 1904	
Population . Number of establishments . Persons engaged in manufactures . Proprietors and firm members . Salaried employees . Wage earners (average number) . Primary horsepower . Capital . Expenses . Salaries . Wages . Materials . Miscellaneous . Value of products . Value added by manufacture .	2,539 53,177 3,390 8,172 41,615 81,821 \$187,701,402 178,793,979 43,298,791 10,786,718 32,512,073 117,440,976	* 41,066 29 684 17 68 579 893 \$2,155,186 1,604,362 433,947 107,598 336,349 927,782 222,633 1,781,458 853,676	* 645,807 2,510 52,513 3,373 8,104 41,036 \$0,928 \$185,546,216 177,189,617 42,854,844 16,679,120 32,175,724 116,513,194 17,821,579 197,511,659 \$1,299,465	(1) 2, 621 54, 250 3, 373 6, 008 44, 875 53, 772 \$119, 442, 395 139, 045, 227 36, 432, 67 7, 552, 676 88, 555, 355 14, 061, 196 159, 033, 080 70, 475, 725	8 33 33 \$46,300 62,960 32,529 2,250 30,279 24,318 6,113	(4) 2,616 64,212 3,365 6,005 54,4842 \$119,396,085 138,985,267 36,400,147 7,523,681 23,876,446 88,530,037 14,655,083 158,957,223 70,427,186	* 450, 549 2,018 (9) 3,801 37,390 (9) \$79,054,238 104,231,107 24,098,075 19,748,946 72,746,695 72,746,695 72,746,695 73,86,391 119,240,348 46,493,653	43. 3 24. 5 113. 2 9. 8 134. 7 70. 0 77. 7 145. 5 62. 9 60. 2 141. 3 65. 9 74. 9	$\begin{array}{c} -4.1 \\ -3.3 \\ 0.2 \\ 35.0 \\ 50.5 \\ 55.4 \\ 27.5 \\ 17.7 \\ 41.9 \\ 11.4 \\ 31.6 \\ 26.8 \\ 24.4 \\ 15.4 \end{array}$	29.8 58.0 19.9 51.0 33.1 51.3 73.0 46.2 21.7 90.3 33.3 51.5	

A minus sign (-) denotes decrease.
Figures in this column used in computing percentages of increase.

* April 15, 1910. * No population

No population census in 1905.
 Sune 1, 1900. Excluding Township 2 of San Mateo County, not a part of the district in 1909; no manufactures were reported from this township.
 Figures not available.

The proportions which the population and the statistics of manufacturing industries in the territory outside the central cities, but within the area comprised in the district, represent of the total for that area are shown in Table 63. The percentages for 1909 are based upon the figures for the district exclusive of the territory added since 1904, and those for 1904 and 1899 upon the figures for the district exclusive of the territory subsequently deducted.

Table 63		TERRITORY TRANCISCO A OF TOTAL	AND OAK-
	1909 1	1904 2	1899 =
Population . Number of establishments. Persons engaged in manufactures . Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Expenses. Services. Salaries. Wages. Materials. Miscellaneous. Value of products. Value added by manufacture.	$\begin{array}{c} 13.5\\ 8.2\\ 11.1\\ 14.3\\ 21.4\\ 17.6\\ 20.8\\ 13.5\\ 12.1\\ 13.9\\ 24.4\\ 14.8\\ 21.4\\ \end{array}$		$\begin{array}{c} 9.1\\ 3.6\\ (4)\\ (4)\\ 3.3\\ 6.3\\ (4)\\ 5.4\\ 5.9\\ 6.0\\ 4.0\\ 6.5\\ 6.5\\ 2.9\\ 5.7\\ 5.7\\ 5.7\end{array}$

¹ Based on figures for district as constituted in 1909, exclusive of territory added ¹ Based on figures for district as constituted in 1903, exclusive of territory added since 1904.
 ² Based on figures for district as constituted in 1904, exclusive of territory deducted since 1904.
 ³ No population census in 1905.
 ⁴ Figures not available.

The proportion of the population of the district as originally constituted that was reported for the terri-

tory outside of San Francisco and Oakland increased from 9.1 per cent in 1900 to 12.2 per cent in 1910, and the proportion of the value of products of the district that was contributed by the outlying territory increased steadily from 5.7 per cent in 1899 to 7.6 per cent in 1904, and 21.4 per cent in 1909. The great increase of the manufacturing activities in the outside area shown for the period 1904-1909 was due in part to the earthquake and fire in San Francisco in 1906.

Leading industries .- Table 64 gives statistics for 1909 for the industries of the district having products valued at \$500,000 or more, so far as separate figures can be presented.

Among the 38 industries shown separately in the table there are 6 for which totals for the district can not be published, because to do so would disclose individual operations; the statistics shown are for San Francisco exclusively. Four industries were not carried on in the part of the district outside the corporate limits of San Francisco-Oakland.

Of the industries shown separately, slaughtering and meat packing ranked highest in value of products, with 10.1 per cent of the total reported for all industries in the district, followed by printing and publishing with 7.1 per cent, and foundries and machine shops with 6.4 per cent. Three industries-canning and preserving and the lumber and bakery industrieseach contributed 3.8 per cent of the total value of manufactured products for the district.

SUMMARY FOR THE SAN FRANCISCO-OAKLAND METROPOLITAN DISTRICT, BY INDUSTRIES: 1909.

Table 64	Num- ber of estab- lish ments.	PERSONS ENGAGED IN INDUSTRY.											
INDUSTRY.		Total.	Pro- prie- tors and firm mem- bers.	Sala- ried em- ploy- ees.	Wage earners (aver- age num- ber).	Pri- mary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Miscel- laneous expenses.	Value of products.	Value added by manu- facture,
All industries	2, 539	53, 177	3, 390	8, 172	41, 615	81, 821	\$187,701,402	\$10,786,718	\$32,512,073	\$117, 440, 976	\$18,054,212	\$199, 593, 117	\$82, 152, 141
Boots and shoes, including cut stock and findings. Bread and other bakery products Butter, cheese, and condensed milk. Caming and preserving. Carrlages and wagons and materials.	1 8 275 13 34 50	425 2,412 107 2,238 386	73 396 13 19 58	31 296 24 204 41	321 1,720 70 2,015 287	131 1,072 87 1,283 457	672, 102 4, 309, 777 232, 464 6, 005, 636 575, 853	35,632 316,482 33,940 336,093 45,470	203, 853 1, 437, 204 48, 866 874, 433 246, 763	552,976 4,315,532 794,610 5,271,293 265,511	65,039 524,608 29,115 539,521 79,969	976, 361 7, 562, 415 951, 108 7, 655, 728 739, 594	423, 385 3, 246, 883 156, 498 2, 384, 435 474, 083
Cars and general shop construction and repairs by steam-railroad com- panies	5 10 54 51	2, 149 210 2, 051 994	2 252 296	69 37 140 69	2,080 171 1,659 629	1,66 2 1,063 390 95	1,058,406 2,023,781 1,747,342 501,035	86, 414 52, 946 132, 644 73, 395	1, 873, 033 127, 426 755, 629 277, 756	2, 307, 923 678, 109 2, 164, 598 719, 824	76,408 141,533 380,012 117,067	4, 403, 781 1, 134, 647 3, 812, 513 1, 347, 079	2,035,858 456,535 1,647,915 627,255
		492	13	254	225	775	2, 440, 324	427,071	152, 607	3, 548, 908	521,158	4,972,739	1, 423, 831
Confectionery. Cooperage and wooden goods, not elsewhere specified Copper, tin, and sheet-iron products. Fertilizers. Firearms and ammunition.	87	878 321 1,493 94 176	44 8 152	177 31 167 13 29	657 282 1,174 81 147	358 861 1,077 420 305	1,386,567 1,196,560 5,786,774 885,985 1,488,834	185,043 53,246 237,321 20,726 47,300	308, 192 219, 538 1, 034, 531 56, 656 79, 011	1, 115, 962 1, 194, 378 2, 290, 563 785, 645 477, 302	255, 220 79, 011 325, 267 34, 146 46, 361	2,066,469 1,603,925 4,309,247 940,344 783,264	950, 507 409, 547 2, 018, 684 154, 699 305, 962
Flour-mill and gristmill products Food preparations Foundry and machine-shop products Furnishing goods, men's Furnishing goods, men's	∡1	224 574 4,840 109 1,362	6 77 173 4 58	75 126 697 28 134	143 371 3,970 77 1,170	1,453 950 8,692 3 1,418	$\substack{1,858,397\\2,045,085\\14,788,883\\241,064\\2,318,559}$	$104,337 \\ 146,399 \\ 982,681 \\ 20,510 \\ 155,460$	127,845218,5313,759,65942,6501,115,600	3,015,867 1,830,812 6,262,648 368,386 1,416,107	91,959 220,191 1,113,188 56,789 284,128	3,472,814 2,689,200 12,833,346 564,368 3,310,394	456, 447 858, 388 6, 570, 099 195, 985 1, 894, 287
Gas and electric fixtures and lamps and reflectors. Gas, illuminating and heating. Gloves and mittens, leather. Jewelry. Leather goods.	18 8 14 1 24 23	451 1,081 377 587 370	13 16 125 20	103 348 62 32 51	335 733 299 430 299	279 2,670 29 248 173	$1,160,465\\23,076,810\\084,496\\221,460\\740,730$	116, 567 428, 277 72, 128 36, 937 55, 628	267, 809 683, 089 159, 214 366, 894 212, 008	442,287 1,368,099 318,628 501,922 371,130	47,962 868,880 56,275 107,477 91,676	$\begin{array}{r} 955,799\\ 4,473,761\\ 675,328\\ 1,121,151\\ 886,615\end{array}$	513, 512 3, 105, 662 356, 700 619, 229 515, 485
Leather, tanned, curried, and fin- ished Liquors, malt Lumber and timber products Marble and stone work Mattresses and spring beds		619 682 2,996 679 398	15 8 88 34 13	40 128 316 105 72	558 546 2,592 540 313	1,2602,45711,1161,460438	2, 479, 329 8, 498, 806 5, 438, 090 1, 317, 191 894, 635	88,908 263,877 463,348 146,134 93,974	415, 217 629, 550 2, 367, 874 459, 854 208, 008	$2,654,645 \\1,107,819 \\3,917,645 \\844,245 \\665,489$	$128,955 \\ 1,643,408 \\ 492,367 \\ 197,611 \\ 180,375$	3,622,171 4,345,015 7,575,745 1,779,134 1,221,798	967, 526 3, 237, 796 3, 658, 100 934, 889 556, 309
Oil, not elsewhere specified Paint and varnish		101 427	10 8	17 82	74 337	279 1,013	658,065 2,058,808	21,745 113,770	54,009 227,626	1,010,529 2,074,346	38,027 116,865	1,173,865 2,947,617	163, 336 873, 271
Patent medicines and compounds and druggists' preparations. Printing and publishing. Shipbuilding, including boat build- ing.	34	362 6, 154	14 358	164 1, 872	184 3,924	145 4, 191	702, 645 8, 619, 796	173,827 2,208,569	89,782 3,642,201	422,087 3,577,030	241, 484 2, 787, 419	1,094,291 14,153,964	672, 204 10, 576, 934
		1,759	22	97	1,640	2,457	7,846,946	174, 263	1,405,652	1,031,730	789,925	3, 594, 350	2, 562, 62
Slaughtering and meat packing Sop Tobacco manufactures All other industries	43 11 130 560	1,063 108 1,314 12,114	56 12 376 558	190 24 79 1,742	817 72 859 9,814	2,080 290 71 28,613	5,969,267 489,166 956,893 64,323,476	288,306 41,121 91,854 2,414,375	485,929 56,526 479,498 7,341,550	$\begin{array}{c c} 16,918,049\\ 554,581\\ 698,656\\ 39,525,105 \end{array}$	539,741 79,610 434,911 4,230,554	$\begin{array}{c} 20,203,050\\ 827,020\\ 2,043,154\\ 00,769,853\end{array}$	3, 285, 001 272, 439 1, 344, 498 21, 244, 748

¹ Excluding statistics for establishments located outside of the corporate limits of San Francisco, to avoid disclosure of individual operations. The figures for these establishments are included under the head of "All other industries,"

SAN FRANCISCO-OAKLAND METROPOLITAN DISTRICT.

Comparative summary, by industries.-The number of establishments, average number of wage earners, and value of products for such of the industries as | for 1909, 1904, and 1899.

can be shown separately and had products valued at \$2,000,000 or more in 1909 are given in Table 65

COMPARATIVE SUMMARY FOR THE SAN FRANCISCO-OAKLAND METROPOLITAN DISTRICT, BY SELECTED INDUSTRIES: 1909, 1904, AND 1899.

Table 65	NUMBER OF ESTAB- LISHMENTS.		or	WAG	C TAR	TERS					PER CENT OF INCREASE. ¹							
INDUSTRY.			WAGE EARNERS (AVERAGE NUMBER).			VALUE OF PRODUCTS.				Number of establishments.			Wage earners (average number			Value of products.		
		1904	1899	1909	1904	1899	1909	1904	1899		1904- 1909	1899- 1904	1899- 1909	1904- 1909			1904- 1909	1899- 1904
Slaughtering and meat packing	43	50	34	817	707	290	\$20, 203, 050	\$15, 700, 661	\$ 8,769,769	26.5	-14.0	47.1	181.7	15.6	143.8	130.4	28.7	79.0
Printing and publishing Newspapers and periodicals Book and job All other printing and publish-	416 167 219	198 186	125		1,770	1,210 1,232	7, 847, 650 4, 478, 321	4, 052, 202	6, 895, 670 3, 983, 969 2, 103, 098	29.5 75.2		53.5 48.8	6.9 52.4	-5.1 6.0	12.6 43.7	112.9	27.1 10.5	
ing industries ³	30	36	26	753	883	526	1,827,993	1,557,259	808,603	15.4	-16.7	38.5	43,2	-14.7	67.9	126.1	17.4	92.6
Foundry and machine-shop prod- ucts	34 124	187 41 85 235	(4) ⁶ 37 <u>54</u> ¹ 169	3,970 2,015 2,592 1,720	4,126 1,765 2,157 1,615	(4) 1,667 1,377 933	12, 833, 346 7, 655, 728 7, 575, 745 7, 562, 415	5,111,865 5,838,293	(1) 3,530,713 3,154,870 2,963,219	129.6	45.9	10.8 57.4	88.2	20.2	5.9 56.6	116.8 140.1 155.2	29.8	44.8 85.1
Clothing. Men's, including shirts. Women's.	105 54 51	6 84	149 95	2,288 1,659	$3,361 \\ 2,438$		5,159,592 3,812,513	4,804,404	6,284,007 4,350,176 1,933,831	-29.5 -43.2 -5.6	-20.5 -35.7 6.3	-11.4 -11.6 -11.1	43.0 39.5 50.7	-31.9 -32.0 -31.9	-16.3 -11.0 -27.7	-17.9 -12.4 -30.3	-19.8 -20.6 -17.5	2.4 10.4 15.6
Coffee and spice, roasting and grind- ing	⁵ 19 8 28 87	3	4	733 546	275 575 618 1,526	509 481	4,473,761 4,345,615	3, 979, 865 3, 248, 456 4, 385, 869 4, 768, 505	2,222,405 3,108,997	-9.7		9.7	13.5	-18.2 27.5 -11.7 -23.1	28.5	101.3 39.8	$37.7 \\ -0.9$	46.2 41.1
Leather, tanned, curried, and fin- ished	2 17 23 12 60	28 13	26 28 5 11 22	143	3,720 248	3,346 202	3, 594, 350 3, 472, 314	6,381,332 3,852,041	6,186,520 2,164,112	9.1	-29.2 -17.9 -7.7 22.4	-7.7 -18.2 122.7	-10.1 -51.0 -29.2 135.9	-12.5 -55.9 -42.3 39.0	2.7 11.2 22.8 69.8	-43.9 60.4	-43.7 -9.9	3.1 78.0
Paint and varnish Food preparations Confectionery Tobacco manufactures	21 41 36 130	544 544	2 28	371 657	260 702	219 378	2,689,200 2,066,469	1,024,058 1,992,086	746, 895 844, 825	46.4	-4.7 -18.2	53.6	73.8	39.5	21.5 85.7	260.0 144.6	162.6	37.1 135.8

A minus sign (-) denotes decrease.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Includes "printing and publishing, music;" "bookbinding and blank-book making;" "engraving, steel and copper plate, including plate printing;" and "lithographing."
 Comparable figures not available.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.

The greatest absolute increase in value of products during the decade in the area under consideration, \$11,433,281, or 130.4 per cent, is shown for slaughtering and meat packing. The greatest relative increase shown for any of the industries included in the tables was reported for the manufacture of paint and varnish-558.5 per cent. Among the important industries that can not be shown separately, as to do so would disclose the operations of individual establishments, are the refining of sugar and of petroleum and the manufacture of explosives and of paper bags.